

Source: T1
Title: CRs to TS 34.123-3 (TTCN part, Cat. B) v.3.7.0, for approval
Agenda item: 5.1.3
Document for: Approval

This document contains the CRs to TS 34.123-3 v.3.7.0. These CRs have been agreed by T1 and are put forward to TSG T for approval.

All the Category B CRs have been grouped here.

<i>Doc-2nd-Level</i>	<i>CR</i>	<i>Rev</i>	<i>Phase</i>	<i>Subject</i>	<i>Cat</i>	<i>Version - Current</i>	<i>Version -New</i>
T1s040743	1050	-	R99	Addition of GCF P4 test case 8.2.2.35 to RRC ATS V3.7.0	B	3.7.0	3.8.0
T1s040448	1051	-	R99	Addition of RRC test case 8.3.1.18 to RRC ATS V3.7.0	B	3.7.0	3.8.0
T1s040739	1052	-	R99	Addition of GCF P1 test case 8.4.1.5 to RRC ATS v3.7.0	B	3.7.0	3.8.0
T1s040717	1053	-	R99	Addition of GCF P4 test case 8.1.7.1d to RRC ATS v3.7.0	B	3.7.0	3.8.0
T1s040698	1054	-	R99	Addition of RRC Package 3 test case 6.1.1.5 to RRC ATS V3.7.0	B	3.7.0	3.8.0
T1s040690	1055	-	R99	Addition of GCF P4 test case 12.2.1.4.1 ATS V3.7.0	B	3.7.0	3.8.0
T1s040679	1056	-	R99	Addition of GCF P4 test case 12.4.1.4a ATS V3.7.0	B	3.7.0	3.8.0
T1s040703	1057	-	R99	Addition of RRC test case 8.2.3.29 to RRC ATS V3.7.0 (Revision of T1s040688)	B	3.7.0	3.8.0
T1s040615	1058	-	R99	Changes to GCF package 2 IR_U test case 12.8 required for approval	B	3.7.0	3.8.0
T1s040684	1059	-	R99	Addition of P4 test case 8.3.11.1 to IR_U ATS v3.7.0, (Revision of T1s040633).	B	3.7.0	3.8.0
T1s040677	1060	-	R99	Addition of GCF P4 test cases 8.1.7.1c to RRC ATS v3.7.0	B	3.7.0	3.8.0
T1s040674	1061	-	R99	Correction to Package 4 test case 12.9.7b ATS V3.7.0	B	3.7.0	3.8.0
T1s040628	1062	-	R99	Addition of GCF P4 test case 12.4.1.4b ATS V3.7.0	B	3.7.0	3.8.0
T1s040656	1063	-	R99	Correction to Package 4 GMM test case 12.4.1.1b (Revised CR T1s040467)	B	3.7.0	3.8.0
T1s040671	1064	-	R99	Addition of RRC test case 8.3.1.24 to RRC ATS V3.7.0	B	3.7.0	3.8.0
T1s040669	1065	-	R99	Addition of RRC test case 8.3.2.2 to RRC ATS V3.7.0	B	3.7.0	3.8.0
T1s040664	1066	-	R99	Addition of NAS test case 12.4.1.4c2 to NAS ATS V3.7.0	B	3.7.0	3.8.0
T1s040658	1067	-	R99	Addition of RRC test case 8.3.1.25 to RRC ATS V3.7.0	B	3.7.0	3.8.0
T1s040651	1068	-	R99	Addition of NAS test case 12.6.1.3.3 to NAS ATS V3.7.0	B	3.7.0	3.8.0
T1s040653	1069	-	R99	Addition of RRC test case 8.3.2.13 to RRC ATS V3.7.0	B	3.7.0	3.8.0

T1s040649	1070	-	R99	Addition of P4 test case 8.1.3.4 to the RRC ATS V3.7.0	B	3.7.0	3.8.0
T1s040638	1071	-	R99	Addition of P4 test case 8.3.7.13 to IR_U ATS v3.7.0	B	3.7.0	3.8.0
T1s040640	1072	-	R99	Addition of P4 test case 8.3.7.7 to IR_U ATS v3.7.0	B	3.7.0	3.8.0
T1s040613	1073	-	R99	Addition of NAS test case 12.9.8 to NAS ATS V3.7.0	B	3.7.0	3.8.0
T1s040635	1074	-	R99	Addition of NAS test case 12.4.1.4d1 to NAS ATS V3.7.0	B	3.7.0	3.8.0
T1s040604	1075	-	R99	Addition of P2 test case 6.2.1.9 to IR_U ATS v3.7.0	B	3.7.0	3.8.0
T1s040595	1076	-	R99	Addition of GCF P4 test case 12.2.1.5b ATS V3.7.0	B	3.7.0	3.8.0
T1s040587	1077	-	R99	Addition of GCF P4 test case 12.9.7c ATS V3.7.0	B	3.7.0	3.8.0
T1s040485	1078	-	R99	Addition of GCF P4 test case 8.2.2.31 to RRC ATS V3.7.0	B	3.7.0	3.8.0
T1s040626	1079	-	R99	Addition of RAB Package 4 test case 14.4.2a.3 to RAB ATS V3.7.0	B	3.7.0	3.8.0
T1s040624	1080	-	R99	Addition of RAB Package 4 test case 14.4.2a.2 to RAB ATS V3.7.0	B	3.7.0	3.8.0
T1s040622	1081	-	R99	Addition of RAB Package 4 test case 14.4.2a.1 to RAB ATS V3.7.0	B	3.7.0	3.8.0
T1s040620	1082	-	R99	Addition of RRC Package 4 test case 8.2.3.11 to RRC ATS V3.7.0	B	3.7.0	3.8.0
T1s040609	1083	-	R99	Addition of NAS test case 12.4.3.4 to NAS ATS V3.7.0	B	3.7.0	3.8.0
T1s040607	1084	-	R99	Addition of NAS test case 12.9.6 to NAS ATS V3.7.0	B	3.7.0	3.8.0
T1s040552	1085	-	R99	Changes to GCF package 4 IR_U test case 8.3.7.9 required for approval.	B	3.7.0	3.8.0
T1s040548	1086	-	R99	Changes to GCF package 4 IR_U test case 8.3.7.5 required for approval.	B	3.7.0	3.8.0
T1s040585	1087	-	R99	Addition of GCF P4 test case 12.4.1.2 ATS V3.6.0	B	3.7.0	3.8.0
T1s040412	1088	-	R99	Addition of GCF P4 test case 10.1.2.2.3 ATS V3.6.0	B	3.7.0	3.8.0
T1s040404	1089	-	R99	Addition of GCF P4 test case 9.5.7.1 ATS V3.6.0	B	3.7.0	3.8.0
T1s040602	1090	-	R99	Addition of GCF P4 test cases 8.1.12 to RRC ATS v3.6.1	B	3.7.0	3.8.0
T1s040600	1091	-	R99	Addition of GCF P4 test cases 8.1.7.1b to RRC ATS v3.6.1	B	3.7.0	3.8.0
T1s040436	1092	-	R99	Addition of GCF P4 test case 12.2.1.6.2 ATS V3.6.0	B	3.7.0	3.8.0
T1s040434	1093	-	R99	Addition of GCF P4 test case 12.2.1.5a.1 ATS V3.6.0	B	3.7.0	3.8.0
T1s040487	1094	-	R99	Addition of GCF P4 test case 8.3.1.15 to RRC ATS V3.6.0	B	3.7.0	3.8.0
T1s040442	1095	-	R99	Addition of GCF P4 test case 8.1.2.4 ATS V3.6.0	B	3.7.0	3.8.0
T1s040579	1096	-	R99	Addition of NAS test case 12.4.1.4d2 to NAS ATS V3.6.0	B	3.7.0	3.8.0
T1s040427	1097	-	R99	Addition of GCF P3 test case 6.1.1.7 ATS V3.6.0	B	3.7.0	3.8.0
T1s040472	1098	-	R99	Addition of GCF P3 test case 12.4.2.5a.1 ATS V3.6.0	B	3.7.0	3.8.0
T1s040534	1099	-	R99	Re-submission of GCF package 2 IR_U test case 6.2.2.1 for approval.	B	3.7.0	3.8.0
T1s040570	1100	-	R99	Addition of RAB test case 14.2.51b.1 to RAB ATS V3.6.0	B	3.7.0	3.8.0
T1s040508	1101	-	R99	Addition of RRC test case 10.1.2.3.7 to RRC ATS V3.6.1	B	3.7.0	3.8.0
T1s040510	1102	-	R99	Addition of RRC test case 10.1.2.7.1 to RRC ATS V3.6.1	B	3.7.0	3.8.0
T1s040506	1103	-	R99	Addition of RRC test case 10.1.2.3.2 to RRC	B	3.7.0	3.8.0

				ATS V3.6.1			
T1s040565	1104	-	R99	Addition of NAS Package 4 test case 12.2.1.6 Proc1 to NAS ATS V3.6.1	B	3.7.0	3.8.0
T1s040561	1105	-	R99	Addition of NAS Package 4 test case 12.2.1.4 proc2 to NAS ATS V3.6.1	B	3.7.0	3.8.0
T1s040563	1106	-	R99	Addition of NAS Package 4 test case 12.2.1.5a Proc2 to NAS ATS V3.6.1	B	3.7.0	3.8.0
T1s040559	1107	-	R99	Addition of NAS Package 4 test case 12.2.1.10 to NAS ATS V3.6.1	B	3.7.0	3.8.0
T1s040556	1108	-	R99	Addition of RAB test case 14.2.23a2 to RAB ATS V3.6.0	B	3.7.0	3.8.0
T1s040454	1109	-	R99	Addition of NAS test case 12.6.1.3.1 to NAS ATS V3.6.0	B	3.7.0	3.8.0
T1s040766	1110	-	R99	Addition of GCF P2 RRC 8.4.1.7 ñ Revision of T1s040381	B	3.7.0	3.8.0

CR-Form-v7

CHANGE REQUEST

34.123-3 CR 1050 # rev - # Current version: **3.7.0**

For **HELP** on using this form, see bottom of this page or look at the pop-up text over the # symbols.

Proposed change affects: UICC apps ME Radio Access Network Core Network

Title:	# Addition of GCF P4 test case 8.2.2.35 to RRC ATS V3.7.0		
Source:	# Rohde & Schwarz		
Work item code:	# N/A	Date:	# 25/11/2004
Category:	# B	Release:	# R99
	Use <u>one</u> of the following categories:		Use <u>one</u> of the following releases:
	F (correction)		2 (GSM Phase 2)
	A (corresponds to a correction in an earlier release)		R96 (Release 1996)
	B (addition of feature),		R97 (Release 1997)
	C (functional modification of feature)		R98 (Release 1998)
	D (editorial modification)		R99 (Release 1999)
	Detailed explanations of the above categories can be found in 3GPP TR 21.900 .		Rel-4 (Release 4)
			Rel-5 (Release 5)
			Rel-6 (Release 6)

Reason for change:	# To add verified GCF package 4 RRC test case 8.2.2.35 to the approved RRC ATS V3.7.0
Summary of change:	# This document lists all changes applied to test case 8.2.2.35 required for approval. See detailed change description for further information.
Consequences if not approved:	# Test case will not be added to ATS

Clauses affected:	# N/A										
Other specs affected:	<table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td style="width: 20px; text-align: center;">Y</td> <td style="width: 20px; text-align: center;">N</td> </tr> <tr> <td style="text-align: center;">#</td> <td style="text-align: center;">X</td> </tr> <tr> <td style="text-align: center;">#</td> <td style="text-align: center;">X</td> </tr> <tr> <td style="text-align: center;">#</td> <td style="text-align: center;">X</td> </tr> </table>	Y	N	#	X	#	X	#	X	Other core specifications	#
Y	N										
#	X										
#	X										
#	X										
		Test specifications	#								
		O&M Specifications	#								
Other comments:	#										

How to create CRs using this form:

Comprehensive information and tips about how to create CRs can be found at <http://www.3gpp.org/specs/CR.htm>. Below is a brief summary:

- 1) Fill out the above form. The symbols above marked # contain pop-up help information about the field that they are closest to.
- 2) Obtain the latest version for the release of the specification to which the change is proposed. Use the MS Word "revision marks" feature (also known as "track changes") when making the changes. All 3GPP specifications can be downloaded from the 3GPP server under <ftp://ftp.3gpp.org/specs/> For the latest version, look for the directory name with the latest date e.g. 2001-03 contains the specifications resulting from the March 2001 TSG meetings.

- 3) With "track changes" disabled, paste the entire CR form (use CTRL-A to select it) into the specification just in front of the clause containing the first piece of changed text. Delete those parts of the specification which are not relevant to the change request.

Title: Changes to test case 8.2.2.35 required for approval
Source: Rohde & Schwarz
Agenda Item: TTCN Issues
Document for: Approval
Contact: Thomas Moosburger
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1 Overview

This document lists all the changes needed to correct problems in the TTCN implementation of test case 8.2.2.35 which is part of the RRC test suite. Only essential changes to the TTCN are applied and documented in section 4.

With these changes applied the test case can be demonstrated to run with one or more 3G UEs (see section 6). Execution log files are provided as evidence.

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3 Verification Test Summary

Test Case: TC_8_2_2_35
Test Group: RRC/RRC_RB_Reconfig
ATS Version: iWD-TVB2003-03_D04wk47 + essential modifications
System Simulator used: Rohde & Schwarz 3G system simulator CRTU-W
UE used: Ericsson U100
Verification Status: PASS

4 Corrections required for test case 8.2.2.35

4.1 Introduction

This section describes the changes required to make test case 8.2.2.35 run correctly with a 3G UE. All modifications are marked with label **WA#RRC<number>** for RRC related changes in the TTCN comments column of the enclosed ATS [1].

The ATS version used as basis was RRC_wk47.mp which is part of the iWD-TVB2003-03_D04wk47 release. This is the most recent ATS provided by MCC160 which contains GCF package 1 to 4 test cases.

4.2 c_RAB_InfoSetupDCH_PS_64k (WA#RRC4716)

Test step name	c_RAB_InfoSetupDCH_PS_64k
Reason for change	<p>In the Radio Bearer Setup message UL and DL logicalChannelIdentity is set to OMIT in rb_MappinInfo for each RB.</p> <p>As per 25.331 section 8.6.4.8 RB mapping info</p> <p>1> if, as a result of the message this IE is included in, several radio bearers can be mapped onto the same transport channel, and the IE "Logical Channel Identity" was not included in the RB mapping info of any of those radio bearers for a multiplexing option on that transport channel or the same "Logical Channel Identity" was used more than once in the RB mapping info of those radio bearers for the multiplexing options on that transport channel:</p>
Summary of change	Modified constraint c_RAB_InfoSetupDCH_PS_64k to specify logical channel identities in the RAB mapping information for RB20

Source of change New change
Label WA#RRC4716

ASN.1 Type Constraint Declaration	
Constraint Name:	c_RAB_InfoSetupDCH_PS_64k (
	p_Reestimer: Re_EstablishmentTimer;
	p_RAB_Id: BITSTRING;
	p_RLC_Info: RLC_Info
)
Group:	
Type Name:	RAB_InformationSetup
Derivation Path:	
Encoding Variation:	
Comments:	WA#RRC4716
Constraint Value	
<pre> { rab_Info { rab_Identity gsm_MAP_RAB_Identity: p_RAB_Id, cn_DomainIdentity ps_domain, re_EstablishmentTimer p_Reestimer }, rb_InformationSetupList {{ rb_Identity tsc_RB20, pdcp_Info { losslessSRNS_RelocSupport notSupported: NULL, pdcp_PDU_Header absent, headerCompressionInfoList OMIT }, rlc_InfoChoice rlc_Info : p_RLC_Info, rb_MappingInfo {{ ul_LogicalChannelMappings oneLogicalChannel : { ul_TransportChannelType dch : tsc_UL_DCH1, logicalChannelIdentity tsc_UL_DTCH1, rlc_SizeList configured : NULL, mac_LogicalChannelPriority 8 }, dl_LogicalChannelMappingList {{ dl_TransportChannelType dch : tsc_DL_DCH1, logicalChannelIdentity tsc_DL_DTCH1 }} }} }, {--RB_MappingInfo ul_LogicalChannelMappings oneLogicalChannel:{--UL_LogicalChannelMapping, ul_TransportChannelType rach: NULL, logicalChannelIdentity tsc_UL_DTCH1, rlc_SizeList explicitList: {{ rlc_SizeIndex 2}}, mac_LogicalChannelPriority 8 }, dl_LogicalChannelMappingList {{ dl_TransportChannelType fach:NULL, logicalChannelIdentity tsc_DL_DTCH1 }} }} }} } </pre>	

4.3 cbr_ActSecPDP_ContextRequest_MO (WA#RRC4710 and WA#RRC4709)

Test step name cbr_ActSecPDP_ContextRequest_MO

Reason for change TTCN error: wrong constraint used for requestedQoS IE (it should be the MO one instead of MT)

According to coding conventions in 34.123-3v320 Sec.E.3.7, '?' shall not be used to indicate values of TTCN ASP parameters / TTCN PDU fields / TTCN structured type elements whose type is structured. Known TTCN implementations differ significantly in their implementation of this feature. This is the case for the itfti IE in this constraint

Summary of change Used cr_QoS_InteractiveOrBackgroundMO_Iv instead of cs_QoS_InteractiveOrBackgroundMT_Iv

Used ic_TrafficFlowTemplate_tlv_Anyi instead of i?i

Source of change New change

Label (WA#RRC4710) and (WA#RRC4709)

PDU Constraint Declaration			
Constraint Name:	cbr_ActSecPDP_ContextRequest_MO(p_DlyClass, p_trafficClass : B3)		
Group:			
PDU Name:	ACTIVATESECONDARYPDPCONTEXTREQUEST_ul		
Derivation Path:			
Encoding Rule Name:			
Encoding Variation:			
Comments:	Activate Secondary PDP Context Request ue -> n 24.008 clause, 9.5.4		
Field Name	Element Value	Type Encoding	Comments
ti	cr_TI_Any		@sic T1s-040695 sic@
sM_ProtocolDiscriminator	tsc_SMPD		
msgType	'01001101'B		
requestedNSAPI	cr_NSAPI_v		@sic T1s-040695 sic@
requestedLLC_SAPIi	cr_LLC_SAPI_v		@sic T1s-040695 sic@
requestedQoS	cr_QoS_InteractiveOrBackgroundMO_lv(p_DlyClass, p_trafficClass)		WA#RRC4710
linkedTI	c_LinkedTI_lv_Any		@sic T1s-040695 sic@
tft	c_TrafficFlowTemplate_tlv_Any		WA#RRC4709

4.4 c_LinkedTI_lv_Any (WA#RRC4708)

Test step name c_LinkedTI_lv_Any

Reason for change As per 24.008 the size of the structure Linked TI is 2-3 octets. The 3rd octet is optional which may or may not be received.

Summary of change Changed the fields of last optional octet to 01

Source of change New change

Label WA#RRC4708

Structured Type Constraint Declaration			
Constraint Name:	c_LinkedTI_lv_Any		
Group:			
Type Name:	LinkedTI_lv		
Derivation Path:			
Encoding Variation:			
Comments:	WA#RRC4708		
Element Name	Element Value	Type Encoding	Comments
length	?		
tiFlag	?		
tiValue	?		
spare	?		
ext	*		
tiValue1	*		

4.5 ts_SS_RB20_AM_22_AM_Cfg (WA#RRC4717)

Test step name ts_SS_RB20_AM_22_AM_Cfg

Reason for change RB20 was already configured before in ts_RRC_SendRB_SetUpDCH_64k_PS.CRLC_Config_REQ is used again (twice) for RB20 which is not correct for RLC on the SS side.

Summary of change Deleted the first two lines for redundant configuration of RB20

Source of change New change

Label WA#RRC4717

4.6 ts_AT_ReceiveCmdCnfAny (WA#RRC4718)

Test step name ts_AT_ReceiveCmdCnfAny

Reason for change The confirm message of +CGACT has to be handled after the completion of Secondary PDP context activation

Summary of change Added +ts_AT_ReceiveCmdCnfAny at line 14 after secondary PDP context activation

Source of change New change

Label WA#RRC4718

It_LocalTest					
11	TBS	(tcv_TestBody=TRUE)			
12		+ts_AT_SecondaryPDP_Context			
13		+ts_SecPDP_ContextAccept_MO (tsc_CellA)			Steps 2 to 5
14		+ts_AT_ReceiveCmdCnfAny			WA#RRC4718
15		+ts_RRC_Delay (500)			

4.7 tc_8_2_2_35: It_LocalTest (WA#RRC4719)

Test step name tc_8_2_2_35: It_LocalTest

Reason for change As per 34.108 frequency info should be included in the RADIO BEARER RECONFIGURATION message

Summary of change Changed from OMIT to tcv_CellInfoA.frequencyInfo in the RB reconfiguration message at line 17 and line 22.

Source of change New change

Label WA#RRC4719

15		+ts_RRC_Delay (500)			
16		(tcv_CellInfoA.cRNTI := tsc_New_CRNTI)			
17		AM ! RLC_AM_DATA_REQ	cas_RB_Reconfigure (tsc_CellDedicated, tsc_RB2, cds_RB_ReconfigDCH_ToFACH_RB20_22 (tcv_CellIndInfo.dl_IntegrityCheckInfo, tcv_RRC_TI, tcv_CellInfoA.frequencyInfo, tcv_CellInfoA.priScrmCode, tcv_CellInfoA.cRNTI))		Step 6 WA#RRC4719
18		+ts_RRC_Delay (tsc_WaitBeforeFACH_Conf)			

20		+ts_RRC_ReceiveRB_ReconfigCmpl (tsc_CellA)		Step 7
21		+ts_RRC_Delay (500)		
22		AM!RLC_AM_DATA_REQ	cas_RB_Reconfigure (tsc_CellDedicated, tsc_RB2, cds_RB_ReconfigFACH_ToDCH_RB20_22 (tcv_CellIndInfo.dl_IntegrityCheckInfo, tcv_RRC_TI, tcv_CellInfoA.frequencyInfo, tcv_CellInfoA.priScrmCode, tcv_CellInfoA.ul_ScramblingCode))	Step 8 WA#RRC4719
23		+ts_RRC_Delay (tsc_WaitBeforeFACH_Conf)		

4.8 tc_8_2_2_35: It_LocalTest (WA#RRC4720)

Test step name ts_SS_ReconfDCH_ToFACH_2AM_PS ,
ts_SS_ReconfFACH_ToDCH_2AM_PS

Reason for change The RB22 is re-configured in CLRC_Config_REQ , therefore the variable tsc_RB22 should be present in the receive constraint CLRC_Config_CNF

Summary of change Changed from tsc_RB20 to tsc_RB22

Source of change New change

Label WA#RRC4720

Test Step Id:	ts_SS_ReconfDCH_ToFACH_2AM_PS (p_CellId : INTEGER)				
Test Step Group Ref:	RRC_SS_Specific/				
Objective:	Reconfiguration of the SS from CELL_DCH state to CELL_FACH state with 2 PS RB set up.				
Defaults:	SS_Def				
Comments:	@SIC_NAPP				
Nr	Label	Behaviour Description	Constraint Ref	Verdict	Comments
1		+ts_SS_2_FACH_1_RACH_Modify (p_CellId, c_TrLogMappingRACH_DTCH_2AM_PS, c_TrLogMappingPCH_FACH_2AM_PS)			
2		CRLC ! CRLC_Config_REQ	ca_RB_AM_ReconfRLC_Info (tsc_CellDedicated, tsc_RB20, c_DL_AM_RLC_MissingPDU_FALSE, c_UL_AM_RLC_Rst700_MaxRst6, {uLogicalChannelIdentity tsc_UL_DTCH1, dLogicalChannelIdentity tsc_DL_DTCH1}, 320)		
3		CRLC ? CRLC_Config_CNF	ca_CRLC_CfgCnf (tsc_CellDedicated, tsc_RB20)		
4		CRLC ! CRLC_Config_REQ	ca_RB_AM_ReconfRLC_Info (tsc_CellDedicated, tsc_RB22, c_DL_AM_RLC_MissingPDU_FALSE, c_UL_AM_RLC_Rst700_MaxRst6, {uLogicalChannelIdentity tsc_UL_DTCH2, dLogicalChannelIdentity tsc_DL_DTCH2}, 320)		
5		CRLC ? CRLC_Config_CNF	ca_CRLC_CfgCnf (tsc_CellDedicated, tsc_RB22)		WA#RRC4720
6		+ts_SetCellCfg (p_CellId, cell_FACH_PS)			

18		CRLC ! CRLC_Config_REQ	ca_RB_AM_ReconfRRC_Info (tsc_CellDedicated, tsc_RB20, c_DL_AM_RLC_MissingPDU_TRUE, c_UL_AM_RLC_Rst600_MaxRst4, {uLogicalChannelIdentity tsc_UL_DTCH1, dLogicalChannelIdentity tsc_DL_DTCH1}, 320)		
19		CRLC ? CRLC_Config_CNF	ca_CRLC_CfgCnf (tsc_CellDedicated, tsc_RB20)		
20		CRLC ! CRLC_Config_REQ	ca_RB_AM_ReconfRRC_Info (tsc_CellDedicated, tsc_RB22, c_DL_AM_RLC_MissingPDU_TRUE, c_UL_AM_RLC_Rst600_MaxRst4, {uLogicalChannelIdentity tsc_UL_DTCH2, dLogicalChannelIdentity tsc_DL_DTCH2}, 320)		
21		CRLC ? CRLC_Config_CNF	ca_CRLC_CfgCnf (tsc_CellDedicated, <u>tsc_RB22</u>)		WA#RRC4720

4.9 ts_SS_ReconfFACH_ToDCH_2AM_PS (WA#RRC4721)

Test step name	ts_SS_ReconfFACH_ToDCH_2AM_PS
Reason for change	RADIO BEARER RECONFIGURATION message sent from SS in line 22 ,step 8 as per prose has the puncturing limit set to pl0_96 and it's different (pl0_92) in the local configuration
Summary of change	Changed the puncturing limit from pl0_92 to pl0_96 in line12
Source of change	New change
Label	WA#RRC4721

10		CMAC ! CMAC_Config_REQ	ca_CMAC_CfgInfo (tsc_CellDedicated, tsc_DL_DPCH1, c_UE_Info (OMIT, OMIT), c_TrchInfo_DL_2_0To9 (c_DCH_148_TFS_DL, c_DCH_340_TFS_20_TC, c_PowerOffsetInfoHigher64k), c_TrLogMappingDL_2_Multiplex_PS)		
11		CMAC ? CMAC_Config_CNF	ca_CMAC_CfgCnf (tsc_CellDedicated, tsc_DL_DPCH1)		
12		CPHY ! CPHY_RL_Setup_REQ	ca_UL_DPCH_Info (p_CellId, tsc_UL_DPCH1, cb_UL_DPCH_Info (tsc_UL_DPDCH_SF_64k_PS, <u>pl0_96</u>) tcv_TmpCellInfo.ul_ScramblingCode)		WA#RRC4721
13		CPHY ? CPHY_RL_Setup_CNF	ca_RL_SetupCnf (p_CellId, tsc_UL_DPCH1)		

5 Branches executed in test case 8.2.2.35

The test case implementation executed the PS branch for NMO_II, UE_OpMode A with Integrity activated, Ciphering disabled, AutoAttach off.

6 Execution Log Files

6.1 Ericsson U100 3G UE

The Ericsson U100 passed this test case on Rohde & Schwarz 3G System Simulator CRTU-W. The documentation below is enclosed as evidence of the successful test case run [1]:

- **Execution log files 8_2_2_35_Logs-Ericsson\Index.html**
These execution log files in HTML format show the dynamic behaviour of the test in a tabular view and in message sequence chart (MSC) view. All message contents are fully decoded and listed in hexadecimal format. Preliminary verdicts and the final test case verdict are listed in the log file.
- **PICS/PIXIT file 8_2_2_35-pics-pixit-Ericsson.html**
HTML file containing all PICS/PIXIT parameters used for testing the PS mode

7 References

- [1] **T1s040743**
This archive comprises HTML Execution log files, PICS/PIXIT files and the TTCN MP file

CR-Form-v7

CHANGE REQUEST

34.123-3 CR 1051 # rev - # Current version: **3.7.0**

For **HELP** on using this form, see bottom of this page or look at the pop-up text over the # symbols.

Proposed change affects: UICC apps ME Radio Access Network Core Network

Title:	# Addition of RRC test case 8.3.1.18 to RRC ATS V3.7.0		
Source:	# Rohde & Schwarz, Anritsu		
Work item code:	# N/A	Date:	# 18/11/2004
Category:	# B	Release:	# R99
	Use <u>one</u> of the following categories:		Use <u>one</u> of the following releases:
	F (correction)		2 (GSM Phase 2)
	A (corresponds to a correction in an earlier release)		R96 (Release 1996)
	B (addition of feature),		R97 (Release 1997)
	C (functional modification of feature)		R98 (Release 1998)
	D (editorial modification)		R99 (Release 1999)
	Detailed explanations of the above categories can be found in 3GPP TR 21.900 .		Rel-4 (Release 4)
			Rel-5 (Release 5)
			Rel-6 (Release 6)

Reason for change:	# To add verified GCF package 4 RRC test case 8.3.1.18 to the approved RRC ATS V3.7.0		
Summary of change:	# This document lists all changes applied to test case 8.3.1.18 required for approval. See detailed change description for further information.		
Consequences if not approved:	# Test case will not be added to ATS		

Clauses affected:	# N/A										
Other specs affected:	<table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td style="width: 20px; text-align: center;">Y</td> <td style="width: 20px; text-align: center;">N</td> </tr> <tr> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> </tr> <tr> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> </tr> <tr> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> </tr> </table>	Y	N	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Other core specifications	#
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		Test specifications									
		O&M Specifications									
Other comments:	#										

How to create CRs using this form:

Comprehensive information and tips about how to create CRs can be found at <http://www.3gpp.org/specs/CR.htm>. Below is a brief summary:

- 1) Fill out the above form. The symbols above marked # contain pop-up help information about the field that they are closest to.
- 2) Obtain the latest version for the release of the specification to which the change is proposed. Use the MS Word "revision marks" feature (also known as "track changes") when making the changes. All 3GPP specifications can be downloaded from the 3GPP server under <ftp://ftp.3gpp.org/specs/> For the latest version, look for the directory name with the latest date e.g. 2001-03 contains the specifications resulting from the March 2001 TSG meetings.

- 3) With "track changes" disabled, paste the entire CR form (use CTRL-A to select it) into the specification just in front of the clause containing the first piece of changed text. Delete those parts of the specification which are not relevant to the change request.

Title: Changes to test case 8.3.1.18 required for approval
Source: Rohde & Schwarz and Anritsu
Agenda Item: TTCN Issues
Document for: Approval
Contact: Thomas Moosburger
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1 Overview

This document lists all the changes needed to correct problems in the TTCN implementation of test case 8.3.1.18 which is part of the RRC test suite. Only essential changes to the TTCN are applied and documented in section 4.

With these changes applied the test case can be demonstrated to run with one or more 3G UEs (see section 6). Execution log files are provided as evidence.

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3 Verification Test Summary

Test Case: TC_8_3_1_18
Test Group: RRC\RRC_CellUpdate
ATS Version: iWD-TVB2003-03_D04wk45 + essential modifications
System Simulator used: Rohde & Schwarz 3G system simulator CRTU-W
 Anritsu MX785201A 3G Protocol Test System
UE used: Nokia 6630
Verification Status: PASS

4 Corrections required for test case 8.3.1.18

4.1 Introduction

This section describes the changes required to make test case 8.3.1.18 run correctly with a 3G UE. All modifications are marked with label `WA#RRC<number>` for RRC related changes in the TTCN comments column of the enclosed ATS [1].

The ATS version used as basis was RRC_wk45.mp which is part of the iWD-TVB2003-03_D04wk45 release. This ATS, provided by MCC160 contains GCF package 1 to 4 test cases.

4.2 Tc_8_3_1_18 : It_TestBody (WA#RRC4534)

Test step name Tc_8_3_1_18 : It_TestBody
Reason for change cellUpdate IE is inconsistent per prose. The cell update cause shall be any or omit as agreed in the T1#25 meeting.
Summary of change Modified the cellUpdate IE according to the prose and the T1#25 agreement
Source of change New change (Anritsu and Rohde & Schwarz)
Label WA#RRC4534

26		+ts_SS_SwitchBackCellOn (tsc_CellA)		Step 9 T1 power settings @sic OG 25/05/04 T1-040940 s ic@
27		+ts_SetAttenuationLevel (tsc_CellB, tsc_AttLevToPower75_d Bm)		Step 9
28	TBP3	+ts_RRC_ReceiveCellUpdateNonPeriodic (tsc_CellA, cdr_CellUpdateAnyT315Expiry (tsc_CellInfoA.uRNTI, radiolinkFail ure), 15000)		Step 10 IE "Cell update cause" set to "ra dioLink Failure" WA#RRC4534 WA#RRC4581
29		+ts_HO_ReconfFACH_ToFACH (tsc_CellB, tsc_CellA)		

4.3 Tc_8_3_1_18 : It_TestBody (WA#RRC4536)

Test step name Tc_8_3_1_18 : It_TestBody

Reason for change The RLC is modified before sending the cell update confirm message to account for the U-RNTI in the mac Header, and there fore should be reconfigured to use C-rnti before any reconfiguration.

Summary of change Added +ts_CRLC_ReconfRLC_Size (FALSE)

Source of change New change (Anritsu and Rohde & Schwarz)

Label WA#RRC4536

30		+ts_CMAC_New_RNTI_Reconf (TRUE, tsc_CellA, tcv_CellInfoA.uRNTI, OMIT)		
31		+It_SendCellUpdateConfirm (tsc_CellA)		Step 11
32		+ts_RRC_Delay (tsc_WaitBeforeFACH_Conf)		
33		+ts_SetCellCfg (tsc_CellA, tcv_RRC_RAB_Type)		Update cellConfig with desired CS RAB.
34		+ts_CRLC_ReconfRLC_Size (FALSE)		WA#RRC4536
35		+ts_SS_ReconfFACH_ToDCH_CS_PS (tsc_CellA)		

4.4 Tc_8_3_1_18 : It_SendCellUpdateConfirm (WA#RRC4535)

Test step name Tc_8_3_1_18 : It_SendCellUpdateConfirm

Reason for change The Cell Update confirm message is not according to the prose

Summary of change Modified the following IE's from c_DL_CommonInformationRB_SetUpSpeech to cd_DL_CommonInformationDCH_DPCH_Offset,

Source of change New change (Rohde & Schwarz)

Label WA#RRC4535

38		[tcv_RRC_RAB_Type = cell_DCH_Speech]		
39		UM!RLC_UM_DATA_REQ	<pre> cas_RRC_CellUpdateCnfDCCH (tsc_CellDedicated, tsc_RB1, cbs_CellUpdateCnfDCCH_Speech (tcv_CellIndInfo.dl_IntegrityCheckInfo, tcv_RRC_Ti, tcv_CellInfoA.uRNTI, OMIT, cell_DCH, c_UL_ChannelRequirement (cb_UL_DPCH_Info (tsc_UL_DPCH_SF_Speech, pl0_84, tcv_TmpCellInfo.ul_ScramblingCode)), cd_DL_CommonInformationDCH_DPCH_Offset (tsc_DL_DPCH1_SFP_Speech), c_DL_InformationPerRL (tcv_TmpCellInfo.priScr mCode, tsc_DL_DPCH1_ChC_Speech, tsc_DL_D PCH1_2ndScrC))) </pre>	@sic OG 19/08/04 ER1964 sic@ WA#RRC4535
40		[tcv_RRC_RAB_Type = cell_DCH_64kCS_RAB_SRB]		

4.5 Tc_8_3_1_18 : It_TestBody (WA#RRC4581)

Test step name Tc_8_3_1_18 : It_TestBody

Reason for change When initiating the URA update or cell update procedure, the UE shall:

if the UE is in CELL_DCH state:

if the stored value of the timer T315 is equal to zero:
the variable "T315 expired" in the RB_TIMER_INDICATOR IE is set to TRUE.

Summary of change Changed the constraint from cbr_108_CellUpdate to cdr_CellUpdateAnyT315Expiry to accept t315_expired =TRUE value.

Source of change Anite

Label WA#RRC4581

ASN.1 PDU Constraint Declaration	
Constraint Name:	cdr_CellUpdateAnyT315Expiry(p_U_RNTI : U_RNTI; p_CellUpdate_Cause : CellUpdateCause)
Group:	
PDU Name:	UL_CCCH_Message
Derivation Path:	cbr_108_CellUpdate.
Encoding Rule Name:	
Encoding Variation:	
Comments:	Set Failure cause to * and t315_expired to TRUE WA#RRC4581
Constraint Value	
REPLACE	message.cellUpdate.am_RLC_ErrorIndicationRb2_3or4 BY ?,
REPLACE	message.cellUpdate.am_RLC_ErrorIndicationRb5orAbove BY ?,
REPLACE	message.cellUpdate.failureCause BY *,
REPLACE	message.cellUpdate.rb_timer_indicator.t315_expired BY TRUE

5 Branches executed in test case 8.3.1.18

The test case implementation executed the CS branch with Integrity activated, Ciphering disabled, and AutoAttach Off.

6 Execution Log Files

6.1 Nokia 6630

The Nokia 6630 passed this test case on Rohde & Schwarz 3G System Simulator CRTU-W and Anritsu MX785201A Protocol Test System. The documentation below is enclosed as evidence of the successful test case run [1]:

- Execution log files 8_3_1_18_Logs-Nokia\Index.html (R&S)
- tc_8_3_1_18_wk45a_1b-tc_8_3_1_18cs_2004-11-23_11.00.24 (Anritsu)

These execution log files in HTML format show the dynamic behaviour of the test in a tabular view and in

message sequence chart (MSC) view. All message contents are fully decoded and listed in hexadecimal format. Preliminary verdicts and the final test case verdict are listed in the log file.

- **PICS/PIXIT file 8_3_1_18-pics-pixit-Nokia.html (R&S)**
- **pixit.txt (Anritsu)**
HTML file containing all PICS/PIXIT parameters used for testing the CS mode

7 References

- [1] **T1s040449**
This archive comprises HTML Execution log files, PICS/PIXIT files and the TTCN MP file from Anritsu and R&S.

CR-Form-v7

CHANGE REQUEST

34.123-3 CR 1052 # rev - # Current version: **3.7.0**

For **HELP** on using this form, see bottom of this page or look at the pop-up text over the # symbols.

Proposed change affects: UICC apps ME Radio Access Network Core Network

Title:	# Addition of GCF P1 test case 8.4.1.5 to RRC ATS v3.7.0		
Source:	# Anite		
Work item code:	# N/A	Date:	# 23/11/04
Category:	# B	Release:	# R99
	Use <u>one</u> of the following categories:		Use <u>one</u> of the following releases:
	F (correction)		2 (GSM Phase 2)
	A (corresponds to a correction in an earlier release)	R96 (Release 1996)	
	B (addition of feature),	R97 (Release 1997)	
	C (functional modification of feature)	R98 (Release 1998)	
	D (editorial modification)	R99 (Release 1999)	
	Detailed explanations of the above categories can be found in 3GPP TR 21.900 .		Rel-4 (Release 4)
			Rel-5 (Release 5)
			Rel-6 (Release 6)

Reason for change:	# To add verified GCF package 1 RRC test cases 8.4.1.5 to the approved RRC ATS V3.7.0
Summary of change:	# This document lists all changes applied to test cases 8.4.1.5 required for approval. See detailed change description for further information.
Consequences if not approved:	# Test case will not be added to ATS.

Clauses affected:	#								
Other specs affected:	<table border="1" style="display: inline-table; vertical-align: middle;"> <tr> <td style="width: 20px; text-align: center;">Y</td> <td style="width: 20px; text-align: center;">N</td> </tr> <tr> <td style="width: 20px; text-align: center;"><input type="checkbox"/></td> <td style="width: 20px; text-align: center;"><input checked="" type="checkbox"/></td> </tr> <tr> <td style="width: 20px; text-align: center;"><input type="checkbox"/></td> <td style="width: 20px; text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td style="width: 20px; text-align: center;"><input type="checkbox"/></td> <td style="width: 20px; text-align: center;"><input checked="" type="checkbox"/></td> </tr> </table> Other core specifications #	Y	N	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Y	N								
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<input type="checkbox"/>	<input checked="" type="checkbox"/>								
	<input type="checkbox"/> O&M Specifications								
Other comments:	#								

How to create CRs using this form:

Comprehensive information and tips about how to create CRs can be found at <http://www.3gpp.org/specs/CR.htm>. Below is a brief summary:

- 1) Fill out the above form. The symbols above marked # contain pop-up help information about the field that they are closest to.
- 2) Obtain the latest version for the release of the specification to which the change is proposed. Use the MS Word "revision marks" feature (also known as "track changes") when making the changes. All 3GPP specifications can be downloaded from the 3GPP server under <ftp://ftp.3gpp.org/specs/> For the latest version, look for the directory name with the latest date e.g. 2001-03 contains the specifications resulting from the March 2001 TSG meetings.

- 3) With "track changes" disabled, paste the entire CR form (use CTRL-A to select it) into the specification just in front of the clause containing the first piece of changed text. Delete those parts of the specification which are not relevant to the change request.

Title: Changes to test case 8.4.1.5 required for approval
Source: Anite
Agenda Item: TTCN Issues
Document for: Approval
Contact: Philip Rose
phil.rose@anite.com
Tel. +44 1252 775200

1 Overview

This document lists all the changes needed to correct problems in the TTCN implementation of test case 8.4.1.5, which is part of the RRC test suite. Only essential changes to the TTCN are applied and documented in section 4.

With these changes applied the test case can be demonstrated to run with one or more 3G UEs (see section 6). Execution log files are provided as evidence.

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3 Verification Test Summary

Test Case: tc_8_4_1_5
Test Group: RRC_Measurments
ATS Version: iWD-TVB2003-03_D04wk42 + essential modifications
System Simulator used: Anite 3G CT
UE used: Nokia 6630 and Ericsson U100
Verification Status: PASS

4 Corrections required for test case 8.4.1.5

4.1 Introduction

This section describes the changes required to make test case 8.4.1.5 run correctly with a 3G UE. The ATS version used as basis was RRC_wk42.mp, which is part of the iWD-TVB2003-03_D04wk42 release.

4.2 Change 1

Constraint	CPHY_Cell_Config_REQ
Reason for change	As per the initial condition, power level of Cell C should be -122dBm. Range for the variable dLTxAttenuationLevel in constraint CPHY_Cell_Config_REQ is (0..30) limits configuration of Cell to -90dBm.
Summary of change	Range for the variable dLTxAttenuationLevel in constraint CPHY_Cell_Config_REQ is changed from (0..30) to (0...63).
Source of change	New change

Before:

Type Definition
<pre>SEQUENCE { cellId INTEGER (0..63), tcell INTEGER(0..38399), sfnOffset INTEGER (0 .. 4095), frequencyInfo FrequencyInfo, primaryScramblingCode_SS INTEGER (0..511), cellTxPowerLevel CellTxPowerLevel, dLTxAttenuationLevel INTEGER(0..30) }</pre>

After:

Type Definition
<pre>SEQUENCE { cellId INTEGER (0..63), tcell INTEGER(0..38399), sfnOffset INTEGER (0 .. 4095), frequencyInfo FrequencyInfo, primaryScramblingCode_SS INTEGER (0..511), cellTxPowerLevel CellTxPowerLevel, dLTxAttenuationLevel INTEGER(0..63) }</pre>

4.3 Change 2

Testcase	tc_8_4_1_5
Reason for change	Guard timer for 300secs is not sufficient for this test case, as this test case will require around 2200 seconds.
Summary of change	Guard timer value is increased to 2400 seconds.
Source of change	New change

Before:

1		START t_Guard			
2		[px_RAT = fdd]			FDD specific behaviour
3		+t_InitVariables			

After:

1		START t_Guard(2400)		
2		[px_RAT = fdd]		FDD specific behaviour
3		+t_InitVariables		

4.4 Change 3

Test Case	tc_8_4_1_5, It_InitVariables
Reason for change	With the power setting in table 8.4.1.5-1 at T0, UE may not be able to detect the Cell B. Thus increased the power of Cell B to -72 dBm. Please refer to T1-25 approved Prose CR T1-041783.
Summary of change	Line no: 55 of the testcase, Cell B power level is changed to -72dBm.
Source of change	Modified Comment

Before:

54		(tcv_CellInfoC.attenuationLevel := tcv_CellInfoC.powerpCPICH+122)		
55		(tcv_CellInfoB.attenuationLevel := tcv_CellInfoB.powerpCPICH+75)		
56		(tcv_CellInfoA.attenuationLevel := tcv_CellInfoA.powerpCPICH+60)		

After:

57		(tcv_CellInfoC.attenuationLevel := tcv_CellInfoC.powerpCPICH+122)		
58		(tcv_CellInfoB.attenuationLevel := tcv_CellInfoB.powerpCPICH+72)		
59		(tcv_CellInfoA.attenuationLevel := tcv_CellInfoA.powerpCPICH+60)		

4.5 Change 4

Testcase	tc_8_4_1_5, It_TestBody
Reason for change	As per 34.123-1 at step 6 of the expected sequence, SS receives measurement report message with Cell A and B's RSCP values. But in TTCN only Cell B RSCP value is expected.
Summary of change	Created a new constraint and the same is used in TTCN at line 22 and 39.
Source of change	New change

Before:

18		AM ! RLC_AM_DATA_REQ	cas_MeasurementControl (tsc_CellDedicated, tsc_RB2, cs_MeasurementControlIntraFreqPeriodic (tcv_CellInfo.dl_IntegrityCheckInfo, tcv_RRC_Ti, tcv_CellInfoB.priScrmCode))		Step 5 in prose;
19		(tcv_Tolerance := (16 * 1000) / 10)			
20		START t_WaitMS (16 * 1000 + tcv_Tolerance)			Initialize the wait timer to 17 seconds
21	TBF1	? TIMEOUT t_WaitMS		(F)	Timer expires the test case fails
22	TBP1	AM ? RLC_AM_DATA_IND	car_MeasurementReport (tsc_CellDedicated, tsc_RB2, cr_MeasReportIntraFreqPeriodicAddMeasResultsTwoCells (5, OMIT, OMIT, tcv_CellInfoA.priScrmCode, tcv_CellInfoB.priScrmCode, OMIT))	(P)	Step 6 in prose; Measurement report received once

37			START t_Dly (60 * 1000)			Initialize the wait timer to 60 seconds; @sic Thomas ER1880 sic@
38	TBF3		AM ?RLC_AM_DATA_IND	car_MeasurementReport (tsc_CellDedicated, tsc_RB2, cr_MeasReportIntraFreqPeriodicAddMeasResultsTwoCells (**, *, *, *, *))	(F)	Measurement report received test case fails
39	TBP3		? TIMEOUT t_Dly		(P)	Timer expires the test case pass; @sic Thomas ER1880 sic@

After:

18			AM !RLC_AM_DATA_REQ	cas_MeasurementControl (tsc_CellDedicated, tsc_RB2, cs_MeasurementControlIntraFreqPeriodic (tcv_CellIndInfo.dl_IntegrityCheckInfo, tcv_RRC_Ti , tcv_CellInfoB.priScrmCode))		Step 5 in prose;
19			(tcv_Tolerance := (16 * 1000) / 10)			
20			START t_WaitMS (16 * 1000 + tcv_Tolerance)			Initialize the wait timer to 17 seconds
21	TBF1		? TIMEOUT t_WaitMS		(F)	Timer expires the test case fails
22	TBP1		AM ?RLC_AM_DATA_IND	car_MeasurementReport (tsc_CellDedicated, tsc_RB2, cr_MeasReportIntraFreqPeriodicAddMeasResultsTwoCells_8_4_1_5 (5, OMIT, OMIT, tcv_CellInfoA.priScrmCode, tcv_CellInfoB.priScrmCode, OMIT))	(P)	Step 6 in prose; Measurement report received once

38			START t_Dly (60 * 1000)			Initialize the wait timer to 60 seconds; @sic Thomas ER1880 sic@
39	TBF3		AM ?RLC_AM_DATA_IND	car_MeasurementReport (tsc_CellDedicated, tsc_RB2, cr_MeasReportIntraFreqPeriodicAddMeasResultsTwoCells_8_4_1_5 (**, *, *, *, *))	(F)	Measurement report received test case fails
40	TBP3		? TIMEOUT t_Dly		(P)	Timer expires the test case pass; @sic Thomas ER1880 sic@

New Constraint

ASN.1 PDU Constraint Declaration	
Constraint Name:	cr_MeasReportIntraFreqPeriodicAddMeasResultsTwoCells_8_4_1_5 (p_MeasId : MeasurementIdentity ; p_CellId1, p_CellId2 : BITSTRING ; p_PriScrmCode1, p_PriScrmCode2 : INTEGER ; p_AdditionalMeasResult : MeasuredResultsList)
Group:	
PDU Name:	UL_DCCH_Message
Derivation Path:	
Encoding Rule Name:	
Encoding Variation:	
Comments:	Periodic Measurement report received as a result of SIB 11, in CELL DCH state.
Constraint Value	

```

{ integrityCheckInfo *,
message measurementReport :
{
measurementIdentity p_MeasId,
measuredResults intraFreqMeasuredResultsList :
{{
cellIdentity p_CellId1,
dummy OMIT,
cellSynchronisationInfo OMIT,
modeSpecificInfo fdd :
{
primaryCPICH_Info
{
primaryScramblingCode p_PriScrmCode1
},
cpich_Ec_N0 OMIT,
cpich_RSCP ?,
pathloss OMIT
}
},
{
cellIdentity p_CellId2,
dummy OMIT,
cellSynchronisationInfo OMIT,
modeSpecificInfo fdd :
{
primaryCPICH_Info
{
primaryScramblingCode p_PriScrmCode2
},
cpich_Ec_N0 OMIT,
cpich_RSCP ?,
pathloss OMIT
}
}
},
measuredResultsOnRACH OMIT,
additionalMeasuredResults p_AdditionalMeasResult,
eventResults OMIT,
v390nonCriticalExtensions *
}
}

```

4.6 Change 5

Testcase	tc_8_4_1_5, lt_TestBody
Reason for change	At step 7 of the expected sequence, physical channel reconfiguration message is sent to UE with rrc-stateIndicator set to Cell-FACH state, but C-RNTI is not sent in the message.
Summary of change	Use the constraint cbs_108_PhyChReconf64k_PS_DCH_ToFACH instead of using the constraint cds_PhyChReconf64k_PS_FACH_ToDCH_Meas.
Source of change	New change

Before:

12		+ts_CalculateActTime (tsc_CellA)		
13		AM ! RLC_AM_DATA_REQ	cas_PhyChReconf (tsc_CellDedicated, tsc_RB2, cds_PhyChReconf64k_PS_ToFACH (tcv_CellIndInfo.dl_IntegrityCheckInfo, tcv_RRC_Ti, tcv_ActTime, tcv_CellInfoA.frequencyInfo, tcv_CellInfoA.priScrmCode, OMIT))	Step 7 in prose; SS sends physical reconfiguration mes
14		+ts_SS_ReconfDCH_ToFACH (tsc_CellA)		SS reconfigure the hannel

After:

27			+ts_CalculateActTime		
28		(tsc_CellA) REQ	AM ! RLC_AM_DATA_	cas_PhyChReconf (tsc_CellDedicated, tsc_RB2, cds_PhyChReconf64k_PS_FACH_ToDCH_Meas (tcv_CellIndInfo.dl_IntegrityCheckInfo, tcv_RRC_Ti, tcv_ActTime, tcv_CellInfoA.frequencyInfo, tcv_CellInfoA.priScrmCode, tcv_CellInfoA.ul_ScramblingCode))	Step 13 in prose; SS sends physical Channel Reconfiguration message
29)	+ts_RRC_Delay (500		

4.7 Change 6

Testcase	tc_8_4_1_5, lt_TestBody
Reason for change	Local end is modified immediately after sending physical channel reconfiguration message sent at steps 7 and 13. Due to this physical channel reconfiguration message may not reach UE.
Summary of change	Added a delay for 500 ms after sending physical channel reconfiguration message.
Source of change	New change

Before:

30			AM ! RLC_AM_DATA_REQ	cas_PhyChReconf (tsc_CellDedicated, tsc_RB2, cds_PhyChReconf64k_PS_ToFACH (tcv_CellIndInfo.dl_IntegrityCheckInfo, tcv_RRC_Ti, tcv_ActTime, tcv_CellInfoA.frequencyInfo, tcv_CellInfoA.priScrmCode, OMIT))	Step 7 in prose; SS sends physical Channel Reconfiguration message
31			+ts_SS_ReconfDCH_ToFACH (tsc_CellA)		SS reconfigure the Physical Channel
45			Q AM ! RLC_AM_DATA_REQ	cas_PhyChReconf (tsc_CellDedicated, tsc_RB2, cds_PhyChReconf64k_PS_FACH_ToDCH_Meas (tcv_CellIndInfo.dl_IntegrityCheckInfo, tcv_RRC_Ti, tcv_ActTime, tcv_CellInfoA.frequencyInfo, tcv_CellInfoA.priScrmCode, tcv_CellInfoA.ul_ScramblingCode))	Step 13 in prose; SS sends physical Channel Reconfiguration message
46			+ts_SS_Reconf_FACH_ToDCH (tsc_CellA)		SS reconfigure the Physical Channel

After:

30		AM ! RLC_AM_DATA_REQ	cas_PhyChReconf (tsc_CellDedicated, tsc_RB2, cds_PhyChReconf64k_PS_ToFACH (tcv_CellIndInfo.dl_IntegrityCheckInfo, tcv_RRC_Ti, tcv_ActTime, tcv_CellInfoA.frequencyInfo, tcv_CellInfoA.priScrmCode, OMIT))	Step 7 in prose; SS sends physical Channel Reconfiguration message
31		+ts_RRC_Delay (500)		
32		+ts_SS_ReconfDCH_ToFACH (tsc_CellA)		SS reconfigure the Physical Channel
47	Q	AM ! RLC_AM_DATA_REQ	cas_PhyChReconf (tsc_CellDedicated, tsc_RB2, cds_PhyChReconf64k_PS_FACH_ToDCH_Meas (tcv_CellIndInfo.dl_IntegrityCheckInfo, tcv_RRC_Ti, tcv_ActTime, tcv_CellInfoA.frequencyInfo, tcv_CellInfoA.priScrmCode, tcv_CellInfoA.uL_ScramblingCode))	Step 13 in prose; SS sends physical Channel Reconfiguration message
48		+ts_RRC_Delay (500)		
49		+ts_SS_Reconf_FACH_ToDCH (tsc_CellA)		SS reconfigure the Physical Channel

4.8 Change 7

Testcase	8_4_1_5, It_TestBody
Reason for change	<ol style="list-style-type: none"> As per 34.123-1 section 8.4.1.5.4 at step 9 updated SIB 11 and 12 is broadcasted and at Step 10 System Information Change Indication after 1secs should be transmitted. In the current TTCN implementation test step ts_SysInfoModifySIB11_SIB12_MIB_RRC transmits system information change indication immediately after changing the SIB 11 and SIB 12 information. The timer value used for checking T305 expiry and reception of Cell Update message is not correct.
Summary of change	<ol style="list-style-type: none"> Created a new test step ts_SysInfoModifySIB11_SIB12_MIB_RRC_8_4_1_5, which broadcasts only the updated System Information for SIB11 and SIB12 and is used at line 37. Test step ts_SendSysInfoChangeInd_InFACHConfig is used for sending the System Information Change Indication after 1 second delay at line 41. Used t_UpperBound and t_LowerBound with correct tolerances for the reception of Cell Update Message.
Source of change	New change

Before:

32			+ts_RRC_ReceivePhyChReconfCmpl (tsc_CellA, tcv_RRC_RAB_Type)			Step 8 in prose;
33			START t_WaitS (tsc_T305_Min)			Start T305 after entering Cell FACH state
34			+ts_SetAttenuationLevel (tsc_CellB, tcv_CellInfoB.powerpCPICH+85)			Step 9 in prose;
35			+ts_SetAttenuationLevel (tsc_CellC, tcv_CellInfoC.powerpCPICH+70)			Step 9 in prose;
36			+ts_SysInfoModifySIB11_SIB12_MIB_RRC (tsc_CellA, 2, c_SIB11_NewIntraFreq_CellList (tcv_CellInfoA, tcv_CellInfoB, tcv_CellInfoC, tcv_CellInfoD, tcv_CellInfoE, tcv_CellInfoF, tcv_CellInfoG, tcv_CellInfoH), c_SIB12_ModifiedCellSelResellInfo (tcv_CellInfoA, tcv_CellInfoB, tcv_CellInfoC, tcv_CellInfoD, tcv_CellInfoE, tcv_CellInfoF, tcv_CellInfoG, tcv_CellInfoH), tsc_Now)			Step 9 in prose;
37			START t_Dly (60 * 1000)			Initialize the wait timer to 60 seconds; @sic Thomas ER1880 sic@
38	TBF3		AM ?RLC_AM_DATA_IND	car_MeasurementReport (tsc_CellDedicated, tsc_RB2, cr_MeasReportIntraFreqPeriodicAddMeasResultsTwoCells (**, *, *, *, *))	(F)	Measurement report received test case fails
39	TBP3		? TIMEOUT t_Dly		(P)	Timer expires the test case pass; @sic Thomas ER1880 sic@
40			? TIMEOUT t_WaitS			Step 10 in prose; Wait till T305 Expires
41			(tcv_Tolerance := 13500 / 10)			
42			+ts_RRC_ReceiveCellUpdatePeriodic (tsc_CellA, cr_CellUpdateMeasResultOnRACHMonCells (tcv_CellInfoA.uRNTI, periodicalCellUpdate, tcv_CellInfoC.priScrnCode), 360000, 13500 - tcv_Tolerance)			Step 11 in prose; @sic Thomas CR T1-0315 31 sic@ @sic Thomas ER1879, ER1880 sic@
43			UM ! RLC_UM_DATA_REQ	cas_RRC_CellUpdateCnf (tsc_CellDedicated, tsc_RB1, cbs_108_CellUpdateCnfDCC H (tcv_CellIndInfo.dl_IntegrityCheckInfo, tcv_RRC_Ti, OMIT, OMIT, cell_FACH, OMIT, OMIT, OMIT))		Step 12 in prose;

After:

33			+ts_RRC_ReceivePhyChRec onfCmpl (tsc_CellA, tcv_RRC_RAB_T ype)			Step 8 in prose;
34			START t_UpperBound (tsc_T 305_Max), START t_LowerBound (tsc _T305_Min)			Start T305 after entering Ce ll FACH state
35			+ts_SetAttenuationLevel (tsc _CellB, tcv_CellInfoB.powerpCPICH+8 5)			Step 9 in prose;
36			+ts_SetAttenuationLevel (ts c_CellC, tcv_CellInfoC.powerpCPICH+ 70)			Step 9 in prose;
37			+ts_SysInfoModifySIB11_SI B12_MIB_RRC_8_4_1_5 (tsc_CellA, 2, c_SIB11_NewIntraFreq_CellList (tc v_CellInfoA, tcv_CellInfoB, tcv_CellInfo C, tcv_CellInfoD, tcv_CellInfoE, tcv_Cel lInfoF, tcv_CellInfoG, tcv_CellInfoH), c _SIB12_ModifiedCellSelReselInfo (tcv _CellInfoA, tcv_CellInfoB, tcv_CellInfo C, tcv_CellInfoD, tcv_CellInfoE, tcv_C ellInfoF, tcv_CellInfoG, tcv_CellInfoH), tsc_Now)			Step 9 in prose;
38			START t_Dly (60 * 1000)			Initialize the wait timer to 60 seconds; @sic Thomas ER1880 sic@
39	TBF3		AM ?RLC_AM_DATA_IND	car_MeasurementReport (tsc_ (F) CellDedicated, tsc_RB2, cr_MeasReportIntra FreqPeriodicAddMeasResults TwoCells_8_4_1_5 (**, *, *, *, *))		Measurement report receive d test case fails
40	TBP3		? TIMEOUT t_Dly		(P)	Timer expires the test case pass; @sic Thomas ER1880 sic@
41			+ts_SendSysInfoChangel nd_InFACHConfig(tsc_CellA, tcv_MIB. mib_ValueTag)			
42			? TIMEOUT t_LowerBoun d		(P)	
43			? TIMEOUT t_UpperBou nd		(F)	
44			TM ? RLC_TR_DATA_IN D CANCEL t_UpperBound	car_RRC_CellUpdate (tsc_Ce llA, tsc_RB0, cr_CellUpdateMeasResultOnR ACHMonCells { tcv_CellInfoA.uRNTI, periodicalCellUpdate, tcv_Cell InfoC.priScrmCode })	(P)	Step 11 in prose
45		EQ	UM ! RLC_UM_DATA_R	cas_RRC_CellUpdateCnf(tsc_CellDedicated, tsc_RB1, cbs_108_CellUpdateCnfDCC H (tcv_CellIndInfo.dl_IntegrityC heckInfo, tcv_RRC_Ti, OMIT, OMIT, cell_FACH, OMIT, OMIT, OMIT))		Step 12 in prose;

New Test Step:

Test Step Id:	ts_SysInfoModifySIB11_SIB12_MIB_RRC_8_4_1_5 (p_CellId: INTEGER; p_MIB_ValueTag : INTEGER; p_SIB11 : SysInfoType11; p_SIB12 : SysInfoType12; p_Timing: INTEGER)
Test Step Group Ref:	SysInfo/MeasurementSpecific/
Objective:	To modify the the contents of SIB11 and MIB.
Defaults:	InitOtherwiseFail
Comments:	5 seconds shall be reserved for UE receiving and decoding the modified system information blocks after calling this test step after the SS b roadcasting the new contents. @sic Thomas CR T1-040215 sic@

Nr	Label	Behaviour Description	Constraint Ref	Verdict	Comments
1		[px_RAT = fdd]			
2		+ ts_InitMIB_SB1 (p_CellId)			
3		+ts_SendSIB11_LongNeighCellInfo (p_SIB11, p_CellId, p_Timing)			
4		+ts_SendSIB12_LongNeighCellInfo (p_SIB12, p_CellId, p_Timing)			
5		+ts_SendSB1_LongNeighCellInfo (tcv_SB1, p_CellId, p_Timing)			
6		+ts_ChangeMIB_ValueTagSpecific Value (p_MIB_ValueTag)			
7		+ts_SendMIB (tcv_MIB, p_CellId, p_Timing)			
8		+ ts_SaveBackMIB_SB1 (p_CellId)			
9		[px_RAT = tdd]			
10		[TRUE]		I	

Branches executed in test case 8.4.1.5

The test case 8_4_1_5 implementation executed the PS branch with integrity activated and ciphering disabled.

5 Execution Log Files

5.1 Nokia 3G UE 6630

The Nokia 6630 passed this test case on the Anite 3G CT system. The documentation below is enclosed as evidence of the successful test case run [1]:

5.2 Ericsson 3G UE U100

The Ericsson passed this test case on the Anite 3G CT system. The documentation below is enclosed as evidence of the successful test case run [2]:

6 References

- [1] This archive comprises text format execution log file with Nokia UE and the TTCN MP file.
- [2] This archive comprises text format execution log file with Ericsson UE and the TTCN MP file.

CR-Form-v7
CHANGE REQUEST
34.123-3 CR 1053 # rev - # Current version: 3.7.0

For **HELP** on using this form, see bottom of this page or look at the pop-up text over the # symbols.

Proposed change affects: UICC apps ME Radio Access Network Core Network

Title:	# Addition of GCF P4 test case 8.1.7.1d to RRC ATS v3.7.0		
Source:	# Anite		
Work item code:	# N/A	Date:	# 11/11/04
Category:	# B	Release:	# R99
	Use <u>one</u> of the following categories:		Use <u>one</u> of the following releases:
	F (correction)		2 (GSM Phase 2)
	A (corresponds to a correction in an earlier release)		R96 (Release 1996)
	B (addition of feature),		R97 (Release 1997)
	C (functional modification of feature)		R98 (Release 1998)
	D (editorial modification)		R99 (Release 1999)
	Detailed explanations of the above categories can be found in 3GPP TR 21.900 .		Rel-4 (Release 4)
			Rel-5 (Release 5)
			Rel-6 (Release 6)

Reason for change:	# To add verified GCF package 4 RRC test cases 8.1.7.1d to the approved RRC ATS V3.7.0
Summary of change:	# This document lists all changes applied to test cases 8.1.7.1d required for approval. See detailed change description for further information.
Consequences if not approved:	# Test case will not be added to ATS

Clauses affected:	#								
Other specs affected:	<table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td style="width: 20px; text-align: center;">Y</td> <td style="width: 20px; text-align: center;">N</td> </tr> <tr> <td style="text-align: center;">#</td> <td style="text-align: center;">X</td> </tr> <tr> <td style="text-align: center;">#</td> <td style="text-align: center;">#</td> </tr> <tr> <td style="text-align: center;">#</td> <td style="text-align: center;">X</td> </tr> </table> Other core specifications # O&M Specifications #	Y	N	#	X	#	#	#	X
Y	N								
#	X								
#	#								
#	X								
Other comments:	#								

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Comprehensive information and tips about how to create CRs can be found at <http://www.3gpp.org/specs/CR.htm>. Below is a brief summary:

- 1) Fill out the above form. The symbols above marked # contain pop-up help information about the field that they are closest to.
- 2) Obtain the latest version for the release of the specification to which the change is proposed. Use the MS Word "revision marks" feature (also known as "track changes") when making the changes. All 3GPP specifications can be downloaded from the 3GPP server under <ftp://ftp.3gpp.org/specs/> For the latest version, look for the directory name with the latest date e.g. 2001-03 contains the specifications resulting from the March 2001 TSG meetings.

- 3) With "track changes" disabled, paste the entire CR form (use CTRL-A to select it) into the specification just in front of the clause containing the first piece of changed text. Delete those parts of the specification which are not relevant to the change request.

Title: Changes to test case 8.1.7.1d required for approval
Source: Anite
Agenda Item: TTCN Issues
Document for: Approval
Contact: Philip Rose
phil.rose@anite.com
Tel. +44 1252 775200

1 Overview

This document lists all the changes needed to correct problems in the TTCN implementation of test case cases 8.1.7.1d, which are part of the RRC test suite. Only essential changes to the TTCN are applied and documented in section 4.

With these changes applied the test case can be demonstrated to run with one or more 3G UEs (see section 6). Execution log files are provided as evidence.

2 Table of Contents

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3 Verification Test Summary

Test Case: tc_8_1_7_1d
Test Group: Security Mode Control
ATS Version: iWD-TVB2003-03_D04wk45 + essential Modifications
System Simulator used: Anite CT
UE used: Ericsson U100
Verification Status: PASS

4 Corrections required for test case 8.1.7.1d

4.1 Introduction

This section describes the changes required to make test cases 8.1.7.1d run correctly with a 3G UE. The ATS version used as basis was RRC_wk45.mp, which is part of the iWD-TVB2003-03_D04wk45 release.

4.2 Change 1

Test step	It_TxSMC_WithNewIntegrity
Reason for change	At Step 5 of the Expected sequence it is mentioned that the SS switches OFF the cell. However before the power levels can be made to less than -90 dB in the SS, UE will be able to transmit the Security Mode Complete Message. Refer to T1-25 Approved Prose CR T1-041705.
Summary of change	It_TxSMC_WithNewIntegrity is modified to handle the security mode complete message from the UE.
Source of change	New change

Before:

It_TxSMC_WithNewIntegrity			
0		+ It_SS_InvalidSecurity	
1		[pc_UMTS_GSM]	
2		AMIRLC_AM_DATA_REQ	cas_RRC_SecModeCmdWithCnf (tsc_CellDedicated, tsc_RB2, cs_108_RRC_SecModeCmd (tcv_CellIndInfo.dL_IntegrityCheckInfo, cs_RRC_SecModeCmdCiphInt (tcv_RRC_Ti, tcv_CellIndInfo.dL_CipherMode, cs_RB_ActTimeInfoListSRBs_20 (tcv_RLC_SeqNumDL _RB1, tcv_RLC_SeqNumDL_RB2+2, tcv_RLC_SeqNumDL _RB3, tcv_RLC_SeqNumDL_RB4, tcv_RLC_SeqNumDL_RB20), OMIT, tcv_CN_Domain, tcv_CellIndInfo.dL_Integrity, tcv_CellIndInfo.cipheringAlgorithmCapability, cs_UE_SysSpecCap (INT_TO_BIT (tcv_UE_SystemSpec ificCap,7)))))
3		AM ? RLC_AM_DATA_CNF	car_AM_DataMuiCnf (tsc_CellDedicated, tsc_RB2, tsc_Mui)
1		[NOT pc_UMTS_GSM]	

After:

It_TxSMC_WithNewIntegrity			
0		+ It_SS_InvalidSecurity	
1		[pc_UMTS_GSM]	
2		AMIRLC_AM_DATA_REQ	cas_RRC_SecModeCmdWithCnf (tsc_CellDedicated, tsc_RB2, cs_108_RRC_SecModeCmd (tcv_CellIndInfo.dL_IntegrityCheckInfo, cs_RRC_SecModeCmdCiphInt (tcv_RRC_Ti, tcv_CellIndInfo.dL_CipherMode, cs_RB_ActTimeInfoListSRBs_20 (tcv_RLC_SeqNu mDL_RB1, tcv_RLC_SeqNumDL_RB2+2, tcv_RLC_S eqNumDL_RB3, tcv_RLC_SeqNumDL_RB4, tcv_RLC_SeqNumDL_RB20), OMIT, tcv_CN_Domain, tcv_CellIndInfo.dL_Integrity, tcv_CellIndInfo.cipheringAlgorithmCapability, cs_UE_SysSpecCap (INT_TO_BIT (tcv_UE_System SpecificCap,7)))))
3		AM ? RLC_AM_DATA_CNF	car_AM_DataMuiCnf (tsc_CellDedicated, tsc_RB2, tsc Mui)
4		AM?RLC_AM_DATA_IND	car_RRC_SecModeCmpl (tsc_CellDedicated, tsc_RB2, cbr_108_RRC_SecModeCmpl (?, ?)
1		[NOT pc_UMTS_GSM]	
2		AMIRLC_AM_DATA_REQ	cas_RRC_SecModeCmdWithCnf

4.3 Change 2

Test step	It_GotoState6_10_MO
Reason for change	It_GotoState6_10_MO should use It_RRC_ConnEstPS_MO_P5_P6_NoTimerPoll and not ts_RRC_ConnEstPS_MO_P5_P6 (tsc_CellA)
Summary of change	It_GotoState6_10_MO is modified to use It_RRC_ConnEstPS_MO_P5_P6_NoTimerPoll
Source of change	New change

Before:

It_GotoState6_10_MO				
61		+ts_SS_CreateCellDCH (tsc_CellA)		Configure lower tester
62		+ts_SendDefSysInfo_NewSIB1 (tsc_CellA, tcv_SIB1)		Sends the system information in p_CellId
63		+ts_IdleUpdated (tsc_CellA)		Idle Update and bring UE to CELL_DCH state and release the connection a gain
64		+ts_AT_InitConnection (tsc_CellA)		
65		+ts_RRC_ConnEstPS_MO_P5_P6 (tsc_CellA)		
66		+ts_RRC_NAS_SessionActPS_MO_P9_P10 (tsc_CellA)		
67		+ts_RRC_RAB_EstPS_MO_P13_P14 (tsc_CellA)		

After:

It_GotoState6_10_MO				
0		+ts_SS_CreateCellDCH (tsc_CellA)		Configure lower tester
1		+ts_SendDefSysInfo_NewSIB1 (tsc_CellA, tcv_SIB1)		Sends the system information in p_CellId
2		+ts_IdleUpdated (tsc_CellA)		Idle Update and bring UE to CELL_DCH state and release the connection a gain
3		+ts_AT_InitConnection (tsc_CellA)		
4		+It_RRC_ConnEstPS_MO_P5_P6_NoTimerPol		
5		+ts_RRC_NAS_SessionActPS_MO_P9_P10 (tsc_CellA)		
6		+ts_RRC_RAB_EstPS_MO_P13_P14 (tsc_CellA)		

Branches executed in test case 8.1.7.1d

The test case 8_1_7_1d implementation executed with integrity activated and ciphering enabled.

5 Execution Log Files

5.1 Ericsson U100

The Ericsson passed this test case on the Anite CT system. The documentation below is enclosed as evidence of the successful test case run [1]:

6 References

- [1] This archive comprises text format execution log file with Ericsson UE and the TTCN MP file.

CR-Form-v7

CHANGE REQUEST

34.123-3 CR 1054 # rev - # Current version: **3.7.0**

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Proposed change affects: UICC apps ME Radio Access Network Core Network

Title:	# Addition of RRC Package 3 test case 6.1.1.5 to RRC ATS V3.7.0		
Source:	# Anite		
Work item code:	# N/A	Date:	# 5/11/04
Category:	# B	Release:	# R99
	Use <u>one</u> of the following categories:		Use <u>one</u> of the following releases:
	F (correction)		2 (GSM Phase 2)
	A (corresponds to a correction in an earlier release)		R96 (Release 1996)
	B (addition of feature),		R97 (Release 1997)
	C (functional modification of feature)		R98 (Release 1998)
	D (editorial modification)		R99 (Release 1999)
	Detailed explanations of the above categories can be found in 3GPP TR 21.900 .		Rel-4 (Release 4)
			Rel-5 (Release 5)
			Rel-6 (Release 6)

Reason for change:	# To add verified GCF package 3 RRC test case 6.1.1.5 to the approved RRC ATS V3.7.0
Summary of change:	# This document lists all changes applied to test case 6.1.1.5 required for approval. See detailed change description for further information.
Consequences if not approved:	# Test case will not be added to ATS

Clauses affected:	#				
Other specs affected:	<table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td style="width: 20px; text-align: center;">Y</td> <td style="width: 20px; text-align: center;">N</td> </tr> <tr> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> </tr> </table> Other core specifications #	Y	N	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Y	N				
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<input type="checkbox"/>	<input checked="" type="checkbox"/>				
Other comments:	#				

How to create CRs using this form:

Comprehensive information and tips about how to create CRs can be found at <http://www.3gpp.org/specs/CR.htm>. Below is a brief summary:

- 1) Fill out the above form. The symbols above marked # contain pop-up help information about the field that they are closest to.
- 2) Obtain the latest version for the release of the specification to which the change is proposed. Use the MS Word "revision marks" feature (also known as "track changes") when making the changes. All 3GPP specifications can be downloaded from the 3GPP server under <ftp://ftp.3gpp.org/specs/> For the latest version, look for the directory name with the latest date e.g. 2001-03 contains the specifications resulting from the March 2001 TSG meetings.

- 3) With "track changes" disabled, paste the entire CR form (use CTRL-A to select it) into the specification just in front of the clause containing the first piece of changed text. Delete those parts of the specification which are not relevant to the change request.

Title: Changes to test case 6.1.1.5 required for approval
Source: Anite
Agenda Item: TTCN Issues
Document for: Approval
Contact: Philip Rose
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1 Overview

This document lists all the changes needed to correct problems in the TTCN implementation of test case 6.1.1.5, which is part of the RRC test suite. Only essential changes to the TTCN are applied and documented in section 4.

With these changes applied the test case can be demonstrated to run with one or more 3G UEs (see section 6). Execution log files are provided as evidence.

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3 Verification Test Summary

Test Case: tc_6_1_1_5
Test Group: Idle_Mode
ATS Version: iWD-TVB2003-03_D04wk40 + essential modifications
System Simulator used: Anite 3G U-SAT
UE used: Nokia 6630, Motorola A835
Verification Status: PASS

4 Corrections required for test case 6.1.1.5

4.1 Introduction

This section describes the changes required to make test case 6.1.1.5 run correctly with a 3G UE. The ATS version used as basis was RRC_wk40.mp, which is part of the iWD-TVB2003-03_D04wk40 release.

4.2 Change 1

Test step	tc_6_1_1_5
Reason for change	<ol style="list-style-type: none">1. With current implementation in SIM LOCI field has to be updated to PLMN 6 every time before executing the test case.2. As the test case involves camping to non HPLMN Cells, guard timer of 300 seconds is not sufficient.3. At row 4 ts_IdleSpecificSIB_3And4Initialise is called to update SIB 3 and SIB 4 parameters as per the requirements for Idle Mode Test cases. However these parameters gets overwritten by ts_SendDefSysInfo_PLMN-> ts_UTRAN_GERAN_Paralnit. Also ts_IdleSpecificSIB_3And4Initialise sets q_QualMin to -16, however default value for Idle Mode test cases is -24.
Summary of change	<ol style="list-style-type: none">1. At the beginning of the test case initially only Cell A is created and UE made to register onto this Cell. Later UE is switched off and remaining cells are created and UE is switched on to start the expected sequence. Also removed the MMI prompt for Special USIM for this test case.2. Changed the Guard timer value to 600 seconds.3. Removed call from test case for ts_IdleSpecificSIB_3And4Initialise. Created a new test step ts_IdleSpecificSIB_3And4InitialiseDef24, which sets q_QualMin to -24 and is added at row 4 of the test step ts_SendDefSysInfo_PLMN.
Source of change	New change

Before:

1	START t_Guard		
2	[px_RAT=fdd]		FDD specific behaviour
3	+lt_InitVariables		
4	+ts_IdleSpecificSIB_3And4Initialise		
5	+ts_SS_CreateCellFACH(tsc_CellA)		Configure lower tester for cell A
6	+ts_SendDefSysInfo_PLMN(tsc_CellA)		Sends the default system information in CellA
7	+ts_MMI_Cmd ("Please insert the USIM card, with information given in 6.1.1.5")		
8	+ts_SS_CreateCellFACH(tsc_CellB)		Configure lower tester for cell A
9	+ts_SendDefSysInfo_PLMN(tsc_CellB)		Sends the default system information in CellB
10	+ts_SS_CreateCellFACH(tsc_CellC)		Configure lower tester cell 3
11	+ts_SendDefSysInfo_PLMN(tsc_CellC)		Sends the default system information in CellC
12	+lt_LocalTest		

1	+ts_SetTmpCellInfo (p_CellId)		Fetch record corresponding to current cell
2	+ts_UTRAN_GERAN_Paralnit(p_CellId)		
3	+ts_CellDependentPara(p_CellId)		
4	+ts_InitializeSIB2AndSIB18(tcv_TmpCellInfo)		
5	+ts_InitializeSIB11_12_SIB12_Idle (p_CellId)		

After:

1	START t_Guard(600)		
2	[px_RAT=fdd]		FDD specific behaviour
3	+lt_InitVariables		
4	+ts_SS_CreateCellFACH(tsc_CellA)		Configure lower tester for cell A
5	+ts_SendDefSysInfo_PLMN(tsc_CellA)		Sends the default system information in CellA
6	+ts_MMI_UE_SwitchOn		
7	+ts_IdleUpdated(tsc_CellA)		
8	+ts_GMM_DetachOnSwitchOff(tsc_CellA)		
9	+ts_SS_CreateCellFACH(tsc_CellB)		Configure lower tester for cell B
10	+ts_SendDefSysInfo_PLMN(tsc_CellB)		Sends the default system information in CellB
11	+ts_SS_CreateCellFACH(tsc_CellC)		Configure lower tester cell C
12	+ts_SendDefSysInfo_PLMN(tsc_CellC)		Sends the default system information in CellC
13	+lt_LocalTest		

1	+ts_SetTmpCellInfo (p_CellId)		Fetch record corresponding to current cell
2	+ts_UTRAN_GERAN_Paralnit(p_CellId)		
3	+ts_CellDependentPara(p_CellId)		
4	+ts_IdleSpecificSIB_3And4InitialiseDef24		
5	+ts_InitializeSIB2AndSIB18(tcv_TmpCellInfo)		

New Test Step

Test Step					
Test Step Id:	ts_IdleSpecificSIB_3And4InitialiseDef24				
Test Step Group Ref:	SysInfo/IdleModeSpecific/				
Objective:	To Initialise Qqualrmin and Qrxlevrmin in SIB 3 and 4				
Defaults:	InitOtherwiseFail				
Comments:	@SIC_NAPP				
Nr	Label	Behaviour Description	Constraint Ref	Verdict	Comments
1		(tcv_SIB3.cellSelectReselectInfo.modeSpecificInfo.fdd.q_QualMin := -24 , tcv_SIB4.cellSelectReselectInfo.modeSpecificInfo.fdd.q_QualMin := -24, tcv_SIB3.cellSelectReselectInfo.modeSpecificInfo.fdd.q_RxlevMin := -58 , tcv_SIB4.cellSelectReselectInfo.modeSpecificInfo.fdd.q_RxlevMin := -58)			

4.3 Change 2

Test step	tc_6_1_1_5, local test step lt_TestStepEToG
-----------	---

Reason for change	<ol style="list-style-type: none"> At Step E UE will perform Routing Area Procedure instead of Attach as UE is already registered. Test Step ts_RegistrationWithoutRRCConReq expects UE will perform Attach. At Step G UE will perform Routing Area Procedure instead of Attach as UE is already registered. Thus need to call test step ts_UpdateRegistration instead of ts_NormalRegistration. At row 41 and 46 timer t_Idle is cancelled, even though it is not started in the test case. As per test requirement at step E and G UE should display registered PLMN correctly.
Summary of change	<ol style="list-style-type: none"> Created a new test step ts_UpdateRegistrationWithoutRRCConReq and the same is called at row 44 and 52. Used Test Step ts_UpdateRegistration instead of ts_NormalRegistration at row 48 and 56. Removed CANCEL t_Idle from row 43 and 50. At row 45, 49, 53 and 57 added a MMI Prompt to check that UE displayed the registered PLMN correctly.
Source of change	New change

Before:

It_TestStepEtoG			
41	TM?RLC_TR_DATA_IND (tcv_InitialUE_Id := RLC_TR_DATA_IND.tM_message.uL_CCCH_Message.message.rrcConnectionRequest.initialUE_Identity)CANCEL t_Idle	car_RRC_ConnReq (tsc_CellB, tsc_RB0, cbr_108_RRC_ConnReq(?))	(P)
42	+ts_RegistrationWithoutRRCConReq (tsc_CellB)		receive random access request from UE. the response from UE is from PLMN7 (TEST STEP E).
43	+ts_SS_Reconfig_DedicatedCh(tsc_CellC, tsc_CellB)		Prepare SS
44	+ts_SS_Rel(tsc_CellB)		cell2 is switched off (TEST STEP F).
45	+ts_NormalRegistration (tsc_CellC)		receive random access request from UE. the response from UE is from PLMN8 (TEST STEP G).
46	TM?RLC_TR_DATA_IND (tcv_InitialUE_Id := RLC_TR_DATA_IND.tM_message.uL_CCCH_Message.message.rrcConnectionRequest.initialUE_Identity)CANCEL t_Idle	car_RRC_ConnReq (tsc_CellC, tsc_RB0, cbr_108_RRC_ConnReq(?))	(P)
47	+ts_SS_Reconfig_DedicatedCh(tsc_CellC, tsc_CellB)		
48	+ts_RegistrationWithoutRRCConReq (tsc_CellC)		receive random access request from UE. the response from UE is from PLMN8 (TEST STEP E).
49	+ts_SS_Reconfig_DedicatedCh(tsc_CellB, tsc_CellC)		Prepare SS
50	+ts_SS_Rel(tsc_CellC)		cell3 is switched off (TEST STEP F).
51	+ts_NormalRegistration (tsc_CellB)		receive random access request from UE. the response from UE is from PLMN7 (TEST STEP G).

After:

It_TestStepEToG			
43	TM?RLC_TR_DATA_IND (tcv_InitialUE_Id := RLC_TR_DATA_IND.tM_message.uL_CCCH_Message.message.rrcConnectionRequest.initialUE_Id entity)	car_RRC_ConnReq (tsc_CellB, tsc_RB0, cbr_108_RRC_ConnReq(?))	(P)
44	+ts_UpdateRegistrationWithoutRRCConnReq (tsc_CellB)		receive random access request from UE. the response from UE is from PLMN7(TEST STEP E).
45	+ts_MMI_Cmd("Please Check that the UE Displays the Registered PLMN as PLMN7")		
46	+ts_SS_Reconfig_DedicatedCh(tsc_CellC, tsc_CellB)		Prepare SS
47	+ts_SS_Rel(tsc_CellB)		cell2 is switched off(TEST STEP F).
48	+ts_UpdateRegistration (tsc_CellC)		receive random access request from UE. the response from UE is from PLMN8(TEST STEP G).
49	+ts_MMI_Cmd("Please Check that the UE Displays the Registered PLMN as PLMN8")		
50	TM?RLC_TR_DATA_IND (tcv_InitialUE_Id := RLC_TR_DATA_IND.tM_message.uL_CCCH_Message.message.rrcConnectionRequest.initialUE_Id entity)	car_RRC_ConnReq (tsc_CellC, tsc_RB0, cbr_108_RRC_ConnReq(?))	(P)
51	+ts_SS_Reconfig_DedicatedCh(tsc_CellC, tsc_CellB)		
52	+ts_UpdateRegistrationWithoutRRCConnReq (tsc_CellC)		receive random access request from UE. the response from UE is from PLMN8(TEST STEP E).
53	+ts_MMI_Cmd("Please Check that the UE Displays the Registered PLMN as PLMN8")		
54	+ts_SS_Reconfig_DedicatedCh(tsc_CellB, tsc_CellC)		Prepare SS
55	+ts_SS_Rel(tsc_CellC)		cell3 is switched off(TEST STEP F).
56	+ts_UpdateRegistration (tsc_CellB)		receive random access request from UE. the response from UE is from PLMN7(TEST STEP G).
57	+ts_MMI_Cmd("Please Check that the UE Displays the Registered PLMN as PLMN7")		

New Test Step:

Test Step					
Test Step Id:	ts_UpdateRegistrationWithoutRRCConnReq(p_CellId : INTEGER)				
Test Step Group Ref:	RRCM_IdleModeSpecific/				
Objective:					
Defaults:	RRC_Def1				
Comments:					
...	...	Behaviour Description	Constraint Ref	...	Comments
1		+ ts_SetTmpCellInfo (p_CellId)			Steps 1,2,3 derived from ts_RRC_ConnEst
2		+It_Send_ConnSetUp			
3		+ ts_RRC_ReceiveConnSetupCmpl (p_CellId)			
4		+ts_NAS_UpdateRegistration (p_CellId)			
It_Send_ConnSetUp					
5		[(tcv_TmpCellInfo.cellConfig = cell_FACH_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_BMC_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_2_PRACH_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_2_SCCPCH_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_2SCCPCH_StandAlonePCH_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_MAC_SRB_NoConn)]			
6		UMIRLC_UM_DATA_REQ	cas_RRC_ConnSetup(p_CellId, tsc_RB0, cbs_108_RRC_ConnSetupFACH (tcv_InitialUE_Id, tcv_RRC_Ti, tcv_TmpCellInfo.priScrmCode , tcv_TmpCellInfo.uRNTI , tcv_TmpCellInfo.cRNTI, tcv_TmpCellInfo.uL_ScramblingCode))		
7		[tcv_TmpCellInfo.cellConfig = cell_FACH_NoConn]			
8		+ ts_SetCellCfg (p_CellId, cell_FACH)			1.
9		[tcv_TmpCellInfo.cellConfig = cell_FACH_BMC_NoConn]			
10		+ ts_SetCellCfg (p_CellId, cell_FACH_BMC)			1.
11		[tcv_TmpCellInfo.cellConfig = cell_FACH_2_PRACH_NoConn]			
12		+ ts_SetCellCfg (p_CellId, cell_FACH_2_PRACH)			1.
13		[tcv_TmpCellInfo.cellConfig = cell_FACH_2_SCCPCH_NoConn]			
14		+ ts_SetCellCfg (p_CellId, cell_FACH_2_SCCPCH)			1.
15		[tcv_TmpCellInfo.cellConfig = cell_FACH_2SCCPCH_StandAlonePCH_NoConn]			
16		+ ts_SetCellCfg (p_CellId, cell_FACH_2SCCPCH_StandAlonePCH)			
17		[tcv_TmpCellInfo.cellConfig = cell_FACH_MAC_SRB_NoConn]			
18		+ ts_SetCellCfg (p_CellId, cell_FACH_MAC_SRB)			
19		[(tcv_TmpCellInfo.cellConfig = cell_DCH_StandAloneSRB_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_DCH_MAC_SRB_NoConn)]			
20		UMIRLC_UM_DATA_REQ	cas_RRC_ConnSetup(p_CellId, tsc_RB0, cbs_108_RRC_ConnSetupDCH (tcv_InitialUE_Id, tcv_RRC_Ti, tcv_TmpCellInfo.priScrmCode , tcv_TmpCellInfo.uRNTI , tcv_TmpCellInfo.uL_ScramblingCode))		
21		[tcv_TmpCellInfo.cellConfig = cell_DCH_StandAloneSRB_NoConn]			
22		+ ts_SetCellCfg (p_CellId, cell_DCH_StandAloneSRB)			
23		[tcv_TmpCellInfo.cellConfig = cell_DCH_MAC_SRB_NoConn]			
24		+ ts_SetCellCfg (p_CellId, cell_DCH_MAC_SRB)			
25	ER [TRUE] R			I	2.

4.4 Change 3

Test step	tc_6_1_1_5, local test step It_LocalTest
Reason for change	As per test requirement at step c UE should display registered PLMN correctly.

Summary of change	At row 20 added a MMI Prompt to check that UE displayed the registered PLMN correctly.
Source of change	New change

After:

It_LocalTest			
17	TBS	(tcv_TestBody:=TRUE)	
18		+ts_MMI_UE_SwitchOn	
19		+ts_NormalRegistration(tsc_CellA)	receive random access request from UE. the response from UE is from PLMN6(TEST STEP C).
20		+ts_MMI_Cmd("Please Check that the UE Displays the Registered PLMN as PLMN6")	
21		+ts_SS_Reconfig_DedicatedCh(tsc_CellB, tsc_CellA)	Prepare SS
22		+ts_SS_Rel(tsc_CellA)	cell1 is switched off(TEST STEP D).
23		+It_TestStepEToG	
24	TBE	(tcv_TestBody:=FALSE)	

4.5 Change 4

Test step	ts_NAS_UpdateRegistration
Reason for change	<ol style="list-style-type: none"> 1. In this test step in case of an OPMODE A UE and NMO 1, in the routing Area Update Accept message, update result sent is c_GMM_UpdateResultRA_Updated however it should be c_GMM_UpdateResultCombRA_LA 2. While sending Routing Area Update Accept message to the UE, c_RAI_Def_v is used for RAI. This is incorrect as this contains hard coded value of the default PLMN.
Summary of change	<ol style="list-style-type: none"> 1. Added a new local test step It_GMM_CombinedRegistration and the same is called at row 13. 2. Use c_RAI_v(tcvc_TmpCellInfo.mcc, tcvc_TmpCellInfo.mnc, tcvc_TmpCellInfo.lac, tcvc_TmpCellInfo.rac) at row 39.
Source of change	New change

Before:

It_CS_PS			
12		[(tcv_UE_OpMode = opModeA) AND (tcv_TmpCellInfo.nmo = tsc_NMO_I)]	If UE is in operation mode A and network mode of operation is I, then run combined PS/CS procedures.
13		+It_GMM_Registration	
14		[(tcv_UE_OpMode = opModeA) AND (tcv_TmpCellInfo.nmo = tsc_NMO_II)]	If UE is in operation mode A and network mode of operation is II, then run first CS Idle Updated procedures, and then GMM procedure (for PS only attach).

It_GMM_RegistrationContinue			
35	+ ts_SS_SecurityDownloadStart (ps_domain, tcv_Start)		ATTACH REQUEST
36	+ts_GMM_Authentication (p_CellId)		AUTHENTICATION AND CIPHERING REQUEST AUTHENTICATION AND CIPHERING RESPONSE
37	+ ts_RRC_Security (p_CellId, tcv_PS_AuthCK, tcv_PS_AuthIK, tcv_AuthKcGSM, TRUE, ps_domain)		SECURITY MODE COMMAND SECURITY MODE COMPLETE
38	(tcv_AssignedPTMSI := px_PTMSI_Def, tcv_Assigned_PTMSI_Sig := px_PTMSI_SigDef)		Use default values
39	Dc ! RRC_DataReq	ca_PS_DataReq(tsc_CellDedicated, tsc_RB3, cs_RA_UpdAcc(c_GMM_UpdateResultRA_Updated, c_RAI_Def_v, c_PTMSI_Signature (px_PTMSI_SigDef), c_MobileIdPTMSI (px_PTMSI_Def, -)))	ROUTING AREA UPDATING ACCEPT - Update result = 'RA updated' - RAI default - P-TMSI-1 - P-TMSI-1 signature
40	Dc ? RRC_DataInd	car_PS_UplinkDirectTransfer(tsc_CellDedicated, tsc_RB3, cs_RA_UpdComplete)	ROUTING AREA UPDATING COMPLETE

After:

It_CS_PS			
12	[(tcv_UE_OpMode = opModeA) AND (tcv_TmpCellInfo.nmo = tsc_NMO_I)]		If UE is in operation mode A and network mode of operation is I, then run combined PS/CS procedures.
13	+It_GMM_CombinedRegistration		
14	[(tcv_UE_OpMode = opModeA) AND (tcv_TmpCellInfo.nmo = tsc_NMO_II)]		If UE is in operation mode A and network mode of operation is II, then run first CS Idle Updated procedures, and then GMM procedure (for PS only attach).
15	+ It_MM_Registration		

It_GMM_RegistrationContinue			
35	+ ts_SS_SecurityDownloadStart (ps_domain, tcv_Start)		ATTACH REQUEST
36	+ts_GMM_Authentication (p_CellId)		AUTHENTICATION AND CIPHERING REQUEST AUTHENTICATION AND CIPHERING RESPONSE
37	+ ts_RRC_Security (p_CellId, tcv_PS_AuthCK, tcv_PS_AuthIK, tcv_AuthKcGSM, TRUE, ps_domain)		SECURITY MODE COMMAND SECURITY MODE COMPLETE
38	(tcv_AssignedPTMSI := px_PTMSI_Def, tcv_Assigned_PTMSI_Sig := px_PTMSI_SigDef)		Use default values
39	Dc ! RRC_DataReq	ca_PS_DataReq(tsc_CellDedicated, tsc_RB3, cs_RA_UpdAcc(c_GMM_UpdateResultRA_Updated, c_RAI_v (tcv_TmpCellInfo.mcc, tcv_TmpCellInfo.mnc, tcv_TmpCellInfo.lac, tcv_TmpCellInfo.rac), c_PTMSI_Signature (px_PTMSI_SigDef), c_MobileIdPTMSI (px_PTMSI_Def), -))	ROUTING AREA UPDATING ACCEPT - Update result = 'RA updated' - RAI default - P-TMSI-1 - P-TMSI-1 signature
40	Dc ? RRC_DataInd	car_PS_UplinkDirectTransfer(tsc_CellDedicated, tsc_RB3, cs_RA_UpdComplete)	ROUTING AREA UPDATING COMPLETE

New Local test Step:

It_GMM_CombinedRegistration			
41	Dc ? RRC_DataInd (tcv_TmpRAU_ReqPDU := RRC_DataInd.msg, tcv_Start := RRC_DataInd.start)	car_PS_InitDirectTransfer (tsc_CellDedicated, tsc_RB3, cbr_RA_UpdReqAny (c_GMM_UpdateType_v(?,?), c_RAI_Any_v, ?))	ROUTING AREA UPDATING REQUEST - Update type = 'RA updating' - RAI information not interesting
42	+ ts_SS_SecurityDownloadStart (ps_domain, tcv_Start)		ATTACH REQUEST
43	+ts_GMM_Authentication (p_CellId)		AUTHENTICATION AND CIPHERING REQUEST AUTHENTICATION AND CIPHERING RESPONSE
44	+ ts_RRC_Security (p_CellId, tcv_PS_AuthCK, tcv_PS_AuthIK, tcv_AuthKcGSM, TRUE, ps_domain)		SECURITY MODE COMMAND SECURITY MODE COMPLETE
45	(tcv_AssignedPTMSI := px_PTMSI_Def, tcv_Assigned_PTMSI_Sig := px_PTMSI_SigDef)		Use default values
46	Dc ! RRC_DataReq	ca_PS_DataReq(tsc_CellDedicated, tsc_RB3, cs_RA_UpdAcc(c_GMM_UpdateResultCombRA_LA, c_RAI_v (tcv_TmpCellInfo.mcc, tcv_TmpCellInfo.mnc, tcv_TmpCellInfo.lac, tcv_TmpCellInfo.rac), c_PTMSI_Signature (px_PTMSI_SigDef), c_MobileIdPTMSI (px_PTMSI_Def), -))	ROUTING AREA UPDATING ACCEPT - Update result = 'Combined RA/LA Updated' - RAI default - P-TMSI-1 - P-TMSI-1 signature
47	Dc ? RRC_DataInd	car_PS_UplinkDirectTransfer(tsc_CellDedicated, tsc_RB3, cs_RA_UpdComplete)	ROUTING AREA UPDATING COMPLETE

4.6 Change 5

Test step	ts_ReconfigFACH_ToNoDedicated
Reason for change	At row 10 of the TTCN instead of tcv_CellInfoA need to use tcv_TmpCellInfo.
Summary of change	At row 10 of the TTCN replaced tcv_CellInfoA with tcv_TmpCellInfo
Source of change	New change

Before:

It_RelBCCH_FACH	
10	[(tcv_CellInfoA.cellConfig = cell_FACH_NoConn) OR (tcv_CellInfoA.cellConfig = cell_FACH) OR (tcv_CellInfoA.cellConfig = cell_FACH_PS)]
11	+ ts_CRLC_Rel (p_CellId , tsc_RB_BCCH_FACH)
12	[TRUE]

After:

It_RelBCCH_FACH	
10	(tcv_TmpCellInfo.cellConfig = cell_FACH_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_PS)]
11	+ ts_CRLC_Rel (p_CellId , tsc_RB_BCCH_FACH)
12	[TRUE]

4.7 Change 6

Test step	ts_SS_Reconfig_DedicatedCh
Reason for change	This test step is used to change one cell from Cell No Dedicated to Cell Dedicated and change other cell from Cell Dedicated to No Dedicated. However TrCH mapping for the cell are not changed.
Summary of change	At Row 1 added test step ts_ReconfigFACH_ToNoDedicated to change TrCH mapping for the cell.
Source of change	New change

After:

1	+ts_ReconfigFACH_ToNoDedicated(p_CurrentCellId)
2	+ts_SS_ReconfNoDedicatedToCellFACH (p_TargetCellId)
3	+ts_SetCellCfg (p_TargetCellId , cell_FACH_NoConn)
4	+ ts_SetCellCfg (p_CurrentCellId , cell_FACH_NoDedicated)

Branches executed in test case 6.1.1.5

The test case implementation executed the combined CS/PS branch with integrity activated and ciphering disabled.

5 Execution Log Files

5.1 Nokia 6630

The Nokia 6630 passed this test case on the Anite 3G U-SAT system. The documentation below is enclosed as evidence of the successful test case run [1]:

➤ Test Case Execution log file tc_6_1_1_5_Nokia-log.txt:

In the log file (in txt format) the complete test case execution can be seen. All message contents are fully decoded and can be verified. Preliminary verdicts and the final test case verdict can be seen in the log file.

5.2 Motorola A835

The Motorola A835 passed this test case on the Anite 3G U-SAT system. The documentation below is enclosed as evidence of the successful test case run [1]:

➤ **Test Case Execution log file tc_6_1_1_5_Motorola-log.txt:**

In the log file (in txt format) the complete test case execution can be seen. All message contents are fully decoded and can be verified. Preliminary verdicts and the final test case verdict can be seen in the log file.

6 References

- [1] **T1s040700:** This archive comprises text format execution log file and the TTCN MP file.

CR-Form-v7
CHANGE REQUEST
34.123-3 CR 1055 # rev # Current version: 3.7.0

For **HELP** on using this form, see bottom of this page or look at the pop-up text over the # symbols.

Proposed change affects: UICC apps# ME Radio Access Network Core Network

Title:	# Addition of GCF P4 test case 12.2.1.4.1 ATS V3.7.0		
Source:	# Anritsu Ltd		
Work item code:	# N/A	Date:	# 02/11/2004
Category:	# B	Release:	# R99
	Use <u>one</u> of the following categories: F (correction) A (corresponds to a correction in an earlier release) B (addition of feature), C (functional modification of feature) D (editorial modification) Detailed explanations of the above categories can be found in 3GPP TR 21.900 .		Use <u>one</u> of the following releases: 2 (GSM Phase 2) R96 (Release 1996) R97 (Release 1997) R98 (Release 1998) R99 (Release 1999) Rel-4 (Release 4) Rel-5 (Release 5) Rel-6 (Release 6)

Reason for change:	# To introduce test case 12.2.1.4.1 ATS V3.7.0
Summary of change:	# 3 table modified in iWD-TV2003-03_D04wk42 for details see below
Consequences if not approved:	# Test case will fail with Conformant UE

Clauses affected:	# N/A				
Other specs affected:	<table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td style="width: 20px; text-align: center;">Y</td> <td style="width: 20px; text-align: center;">N</td> </tr> <tr> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> </tr> </table> Other core specifications # <input type="checkbox"/>	Y	N	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Y	N				
<input type="checkbox"/>	<input checked="" type="checkbox"/>				
	<table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td style="width: 20px; text-align: center;">Y</td> <td style="width: 20px; text-align: center;">N</td> </tr> <tr> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> </tr> </table> Test specifications # <input type="checkbox"/>	Y	N	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Y	N				
<input type="checkbox"/>	<input checked="" type="checkbox"/>				
	<table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td style="width: 20px; text-align: center;">Y</td> <td style="width: 20px; text-align: center;">N</td> </tr> <tr> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> </tr> </table> O&M Specifications # <input type="checkbox"/>	Y	N	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Y	N				
<input type="checkbox"/>	<input checked="" type="checkbox"/>				
Other comments:	#				

How to create CRs using this form:

Comprehensive information and tips about how to create CRs can be found at <http://www.3gpp.org/specs/CR.htm>. Below is a brief summary:

- 1) Fill out the above form. The symbols above marked # contain pop-up help information about the field that they are closest to.
- 2) Obtain the latest version for the release of the specification to which the change is proposed. Use the MS Word "revision marks" feature (also known as "track changes") when making the changes. All 3GPP specifications can be downloaded from the 3GPP server under <ftp://ftp.3gpp.org/specs/> For the latest version, look for the directory name with the latest date e.g. 2001-03 contains the specifications resulting from the March 2001 TSG meetings.

- 3) With "track changes" disabled, paste the entire CR form (use CTRL-A to select it) into the specification just in front of the clause containing the first piece of changed text. Delete those parts of the specification which are not relevant to the change request.

TSG-T WG 1 E-Mail 2004

T1-040690

01 Jan - 31 Dec 2004

Title	Introducing test case 12.2.1.4.1 ATS V3.7.0
Source	Anritsu
Agenda Item	N/A
Document for	Approval
Contact	Dan Fox (Anritsu) dan.fox@eu.anritsu.com Tel: +44 1582 433357

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1 Overview

This document details the changes needed to introduce test case 12.2.1.4.1 ATS V3.7.0. With these changes applied, the test case can be demonstrated to run on at least one independent UE implementation. Only essential fixes to the TTCN are applied. This test case has been tested according to the configuration stated below:-

Reference document	TS 34.123-1 version 5.9.0 TS34.108 version 5.2.0
Referenced CRs	None
Based ATS suite	iWD-TVB2003-03_D04wk42
Integrity	Enabled
Ciphering	Disabled
Path tested	PS

2 Tables added to iWD-TVB2003-03_D04wk42

2.1 None

3 Tables Modified to iWD-TVB2003-03_D04wk42

3.1 tc_12_2_1_4_1

Reason for Change: As the test Involves Initial Camping on Non home PLMN and also manual PLMN search, guard timer 300 is too marginal.

Summary of change : Changed the Guard timer to 20*60 instead of 300 as below.

Test Case					
Test Case Id:	tc_12_2_1_4_1				
Test Group Reference:	GMM/Attach_procedures/PS_only_attach/				
Purpose:	To test the behaviour of the UE if the network rejects the PS attach procedure of the UE with the cause 'PLMN not allowed'.				
Configuration:					
Defaults:	NAS_OtherwiseFail				
Comments:	@SIC_NAPP Initial conditions - SS : Four cells operating in network operation mode II (but not simulataneously activated) - UE : The UE has a valid P-TMSI-1, P-TMSI-1 signature and RAI-1.				
Nr	Label	Behaviour Description	Constraint Ref	Verdict	Comments
1		START t_Guard(300)			
2		START t_Guard(20*60)			
3		+ts_InitVariables			

3.2 lt_ReconfOldDPCH_Cell

Reason for Change: In Line number 42, +ts_MM_RegistrationHandleAttachReqIMS→ts_SS_PrepareCellRRC_ConnEst::lt_ReconfOldDPCH_Cell î gives a TTCN error trying to release a DPCH which is already being released.

Summary of change : Removed the Inconclusive Verdict at line number 62 as below:

lt_ReconfOldDPCH_Cell			
38		[(tcv_CellInfoA.cellConfig = cell_DCH_StandAloneSRB_NoConn) OR (tcv_CellInfoA.cellConfig = cell_DCH_StandAloneSRB) OR (tcv_CellInfoA.cellConfig = cell_DCH_Speech) OR (tcv_CellInfoA.cellConfig = cell_DCH_64kCS_RAB_SRB) OR (tcv_CellInfoA.cellConfig = cell_DCH_57_6kCS_RAB_SRB) OR (tcv_CellInfoA.cellConfig = cell_DCH_64kPS_RAB_SRB) OR (tcv_CellInfoA.cellConfig = cell_RLC_DCH_AM_RAB_15Lis) OR (tcv_CellInfoA.cellConfig = cell_RLC_DCH_AM_RAB_7Lis) OR (tcv_CellInfoA.cellConfig = cell_RLC_DCH_UM_RAB_15Lis) OR (tcv_CellInfoA.cellConfig = cell_RLC_DCH_UM_RAB_7Lis) OR (tcv_CellInfoA.cellConfig = cell_PDCP_AM_RAB) OR (tcv_CellInfoA.cellConfig = cell_PDCP_UM_RAB) OR (tcv_CellInfoA.cellConfig = cell_PDCP_AM_UM_RAB)]	
39		+ ts_SS_RelDPCH (tsc_CellA)	
40		...	
41		...	
42		...	
43		...	
44		...	
60		+ ts_SS_RelDPCH (tsc_CellH)	
61		(tcv_CellInfoH.cellConfig := cell_NoDPCH, tcv_CellInfoH.DL_DPCH_SHO := FALSE, tcv_CellInfoH.UL_DPCH_SHO := FALSE)	
62	ERR2	[TRUE]	⚠

3.3 lt_handleAttach within ts_GMM_RemoveForbiddenPLMN

Reason for Change: UE will ATTACH with PTMSI.

Summary of change: Used its_MM_RegistrationHandleAttachReqP_TMSI(p_CellId,px_PTMSI_Def)î instead of its_MM_RegistrationHandleAttachReqIMS(p_CellId)î.

Test Step Id:	ts_GMM_RemoveForbiddenPLMN (p_CellId : INTEGER)				
Test Step Group Ref:	GMM_InternalSteps/				
Objective:	To remove the current PLMN from the forbidden list.				
Defaults:	NAS_OtherwiseFail				
Comments:					
Nr	Label	Behaviour Description	Constraint Ref	Verdict	Comments
1		+ ts_SetTmpCellInfo (p_CellId)			
2		+ts_MMI_PLMN_SelModeMan			
3		+ ts_MMI_PLMN_SelPerf (INT_TO_HEX (o_OctToInt (o_ConvtPLMN (tcv_TmpCellInfo.mcc, tcv_TmpCellInfo.mnc)), 6))			
4		+ lt_handleAttach			
5		+ts_MMI_PLMN_SelModeAuto			
lt_handleAttach					
6		[(tcv_TmpCellInfo.nmo = tsc_NMO_II) AND (tcv_UE_OpMode = opModeA)]			
7		+ ts_MM_RegistrationHandleAttachReqIMSI (p_CellId)			
8		+ ts_MM_RegistrationHandleAttachReqP_TMSI (p_CellId,px_PTMSI_Def)			
9		+ ts_GMM_AuthenticateAndStartIntegrityProtection (p_CellId)			

CR-Form-v7
CHANGE REQUEST
⌘ 34.123-3 CR 1056 ⌘ rev ⌘ Current version: 3.7.0 ⌘

For **HELP** on using this form, see bottom of this page or look at the pop-up text over the ⌘ symbols.

Proposed change affects: UICC apps ME Radio Access Network Core Network

Title:	⌘ Addition of GCF P4 test case 12.4.1.4a ATS V3.7.0		
Source:	⌘ Anritsu Ltd		
Work item code:	⌘ N/A	Date:	⌘ 04/11/2004
Category:	⌘ B	Release:	⌘ R99
	Use <u>one</u> of the following categories: F (correction) A (corresponds to a correction in an earlier release) B (addition of feature), C (functional modification of feature) D (editorial modification) Detailed explanations of the above categories can be found in 3GPP TR 21.900 .		Use <u>one</u> of the following releases: 2 (GSM Phase 2) R96 (Release 1996) R97 (Release 1997) R98 (Release 1998) R99 (Release 1999) Rel-4 (Release 4) Rel-5 (Release 5) Rel-6 (Release 6)

Reason for change:	⌘ To introduce test case 12.4.1.4a ATS V3.7.0
Summary of change:	⌘ 3 table modified in iWD-TVB2003-03_D04wk34 for details see below
Consequences if not approved:	⌘ Test case will fail with Conformant UE

Clauses affected:	⌘ N/A										
Other specs affected:	<table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td style="padding: 2px;">Y</td> <td style="padding: 2px;">N</td> </tr> <tr> <td style="padding: 2px;"><input type="checkbox"/></td> <td style="padding: 2px;"><input checked="" type="checkbox"/></td> </tr> <tr> <td style="padding: 2px;"><input type="checkbox"/></td> <td style="padding: 2px;"><input checked="" type="checkbox"/></td> </tr> <tr> <td style="padding: 2px;"><input type="checkbox"/></td> <td style="padding: 2px;"><input checked="" type="checkbox"/></td> </tr> </table>	Y	N	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Other core specifications Test specifications O&M Specifications	⌘
Y	N										
<input type="checkbox"/>	<input checked="" type="checkbox"/>										
<input type="checkbox"/>	<input checked="" type="checkbox"/>										
<input type="checkbox"/>	<input checked="" type="checkbox"/>										
Other comments:	⌘										

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- 3) With "track changes" disabled, paste the entire CR form (use CTRL-A to select it) into the specification just in front of the clause containing the first piece of changed text. Delete those parts of the specification which are not relevant to the change request.

TSG-T WG 1 E-Mail 2004

T1s040679

01 Jan - 31 Dec 2004

Title	Introducing test case 12.4.1.4a ATS V3.7.0
Source	Anritsu
Agenda Item	N/A
Document for	Approval
Contact	Dan Fox (Anritsu) dan.fox@eu.anritsu.com Tel: +44 1582 433357

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1 Overview

This document details the changes needed to introduce test case 12.4.1.4a ATS V3.7.0 With these changes applied the test case can be demonstrated to run on at least one independent UE implementations. Only essential fixes to the TTCN are applied. This test case has been tested according to the configuration stated below:-

Reference document	TS 34.123-1 version 5.8.0 TS34.108 version 5.1.0
Referenced CRs	None
Based ATS suite	iWD-TVB2003-03_D04wk34
Integrity	Enabled
Ciphering	Disabled
Path tested	PS

2 Tables added to iWD-TVB2003-03_D04wk34

2.1 None

3 Tables Modified to iWD-TVB2003-03_D04wk34

3.2.3.1 lt_ReconfOldDPCH_Cell

Reason for Change: In Line number 59, +ts_MM_RegistrationHandleAttachReqIMSI→ ts_SS_PrepareCellRRC_ConnEst::lt_ReconfOldDPCH_Cell î gives a TTCN error trying to release a DPCH which is already being released.

Summary of change : Removed the Inconclusive Verdict at line number 62 as below:

lt_ReconfOldDPCH_Cell			
38		[(tcv_CellInfoA.cellConfig = cell_DCH_StandAloneSRB_NoConn) OR (tcv_CellInfoA.cellConfig = cell_DCH_StandAloneSRB) OR (tcv_CellInfoA.cellConfig = cell_DCH_Speech) OR (tcv_CellInfoA.cellConfig = cell_DCH_64kCS_RAB_SRB) OR (tcv_CellInfoA.cellConfig = cell_DCH_57_6kCS_RAB_SRB) OR (tcv_CellInfoA.cellConfig = cell_DCH_64kPS_RAB_SRB) OR (tcv_CellInfoA.cellConfig = cell_RLC_DCH_AM_RAB_15Lis) OR (tcv_CellInfoA.cellConfig = cell_RLC_DCH_AM_RAB_7Lis) OR (tcv_CellInfoA.cellConfig = cell_RLC_DCH_UM_RAB_15Lis) OR (tcv_CellInfoA.cellConfig = cell_RLC_DCH_UM_RAB_7Lis) OR (tcv_CellInfoA.cellConfig = cell_PDCP_AM_RAB) OR (tcv_CellInfoA.cellConfig = cell_PDCP_UM_RAB) OR (tcv_CellInfoA.cellConfig = cell_PDCP_AM_UM_RAB)]	
39		+ ts_SS_RelDPCH (tsc_CellA)	
40		...	
41		...	
42		...	
43		...	
44		...	
60		+ ts_SS_RelDPCH (tsc_CellH)	
61		(tcv_CellInfoH.cellConfig := cell_NoDPCH, tcv_CellInfoH.DL_DPCH_SHO := FALSE, tcv_CellInfoH.UL_DPCH_SHO := FALSE)	
62	ERR2	[TRUE]	⊕

3.2 lt_Attach_Steps_17To20

Reason for Change :As security mode procedure is NOT performed PS Key Seq will be reset by the UE.

Summary of change : Added i(tcv_PS_KeySeq := '111'B)î as below.

lt_Attach_Steps_17To20				
60		(tcv_PS_KeySeq := '111'B)		
61		+ ts_MM_RegistrationHandleAttachReqIMSI (tsc_CellD)		Step 17-18. CS registration If UE Operation mode A. Handle the receipt of ATTACH REQ @sic VB Handle Attach req during CS registration sic@
62		+ts_GMM_AuthenticateAndStartIntegrityProtection (tsc_CellD)		

3.3 lt_TestBody

Reason for Change : P-TMSI Sig is NOT assigned to the UE, hence UE will DETACH with PTMSI Sig: OMITED

Summary of change : Used its_GMM_DetachOnSwitchOff_NoSignature î instead of its_GMM_DetachOnSwitchOff î.

lt_TestBody				
16		(tcv_TestBody := TRUE)		(P)
17		+ts_MMI_UE_SwitchOnTriggerGMM_Attach		
18		+ts_RRC_ConnEst (tsc_CellC, est_Reg, registration)		
19		+lt_Attach_Steps_4To6		Steps 4 to 6
20		Ö		
21		Ö		
22		Ö		
34		+lt_ActivateCellA_Step27		Step 27
35		+ts_RRC_ConnEst (tsc_CellA, est_Reg, registration)		
36		+ ts_MM_RegistrationRAU_IfOpModeA (tsc_CellA)		Steps 28a and 28b @sic VB Handling parallel cs

					registration and ps routing area update sic@
37		+lt_RAUpd_29To30			Steps 29 to 30
38		+ts_GMM_DetachOnSwitchOff(tsc_CellA)			Steps 31 to 32
39		<u>+ts_GMM_DetachOnSwitchOff_NoSignat ure(tsc_CellA)</u>			<u>Steps 31 to 32</u>
40		+ lt_LoopModeC_A			

CR-Form-v7	
CHANGE REQUEST	
# 34.123-3 CR 1057 # rev - #	Current version: 3.7.0 #

For **HELP** on using this form, see bottom of this page or look at the pop-up text over the # symbols.

Proposed change affects: UICC apps ME Radio Access Network Core Network

Title:	# Addition of RRC test case 8.2.3.29 to RRC ATS V3.7.0 (Revision of T1s040688)		
Source:	# Rohde & Schwarz		
Work item code:	# N/A	Date:	# 05/11/2004
Category:	# B	Release:	# R99
	Use <u>one</u> of the following categories:		Use <u>one</u> of the following releases:
	F (correction)		2 (GSM Phase 2)
	A (corresponds to a correction in an earlier release)		R96 (Release 1996)
	B (addition of feature),		R97 (Release 1997)
	C (functional modification of feature)		R98 (Release 1998)
	D (editorial modification)		R99 (Release 1999)
	Detailed explanations of the above categories can be found in 3GPP TR 21.900 .		Rel-4 (Release 4)
			Rel-5 (Release 5)
			Rel-6 (Release 6)

Reason for change:	# To add verified GCF package 4 RRC test case 8.2.3.29 to the approved RRC ATS V3.7.0
Summary of change:	# This document lists all changes applied to test case 8.2.3.29 required for approval. See detailed change description for further information.
Consequences if not approved:	# Test case will not be added to ATS

Clauses affected:	# N/A										
Other specs affected:	<table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td style="width: 20px; text-align: center;">Y</td> <td style="width: 20px; text-align: center;">N</td> </tr> <tr> <td style="text-align: center;">#</td> <td style="text-align: center;">X</td> </tr> <tr> <td style="text-align: center;">#</td> <td style="text-align: center;">X</td> </tr> <tr> <td style="text-align: center;">#</td> <td style="text-align: center;">X</td> </tr> </table>	Y	N	#	X	#	X	#	X	Other core specifications	#
Y	N										
#	X										
#	X										
#	X										
		Test specifications	#								
		O&M Specifications	#								
Other comments:	#										

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- 2) Obtain the latest version for the release of the specification to which the change is proposed. Use the MS Word "revision marks" feature (also known as "track changes") when making the changes. All 3GPP specifications can be downloaded from the 3GPP server under <ftp://ftp.3gpp.org/specs/> For the latest version, look for the directory name with the latest date e.g. 2001-03 contains the specifications resulting from the March 2001 TSG meetings.

- 3) With "track changes" disabled, paste the entire CR form (use CTRL-A to select it) into the specification just in front of the clause containing the first piece of changed text. Delete those parts of the specification which are not relevant to the change request.

Title: Changes to test case 8.2.3.29 required for approval
Source: Rohde & Schwarz
Agenda Item: TTCN Issues
Document for: Approval
Contact: Thomas Moosburger
thomas.moosburger@rsd.rohde-schwarz.com
Tel. +49 89 4129 11731

1 Overview

This document lists all the changes needed to correct problems in the TTCN implementation of test case 8.2.3.29 which is part of the RRC test suite. Only essential changes to the TTCN are applied and documented in section 4.

With these changes applied the test case can be demonstrated to run with one or more 3G UEs (see section 6). Execution log files are provided as evidence.

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3 Verification Test Summary

Test Case: TC_8_2_3_29
Test Group: RRC\RRC_RB_Release.
ATS Version: iWD-TVB2003-03_D04wk42 + essential modifications
System Simulator used: Rohde & Schwarz 3G system simulator CRTU-W
UE used: Nokia 6630 & Motorola E1000
Verification Status: PASS

4 Corrections required for test case 8.2.3.29

4.1 Introduction

This section describes the changes required to make test case 8.2.3.29 run correctly with a 3G UE. All modifications are marked with label **WA#RRC<number>** for RRC related changes in the TTCN comments column of the enclosed ATS [1].

The ATS version used as basis was RRC_wk42.mp which is part of the iWD-TVB2003-03_D04wk42 release. This ATS, provided by MCC160 contains GCF package 1 to 4 test cases.

4.2 cd_DCH_336_148_DL_Info_DCH4 (WA#RRC4573)

Test step name cd_DCH_336_148_DL_Info_DCH4
Reason for change Wrong transport channel id was used in this constraint. The purpose of this constraint was to use DCH4 as the transport Channel id.
Summary of change Corrected the transport channel id to tsc_DL_DCH4
Source of change New change
Label WA#RRC4573

ASN.1 Type Constraint Declaration	
Constraint Name:	cd_DCH_336_148_DL_Info_DCH4 (p_ActTime : ActivationTime)
Group:	
Type Name:	CphyTrchConfigReq
Derivation Path:	cb_DCH_336_148_DL_Info.
Encoding Variation:	
Comments:	@SIC_NAPP.WA#RRC4573
Constraint Value	
REPLACE dlconnectedTrchList.[0].trchid BY tsc_DL_DCH4	

4.3 cds_RB_RelSpeech_CS_SigConnRel (WA#RRC4574)

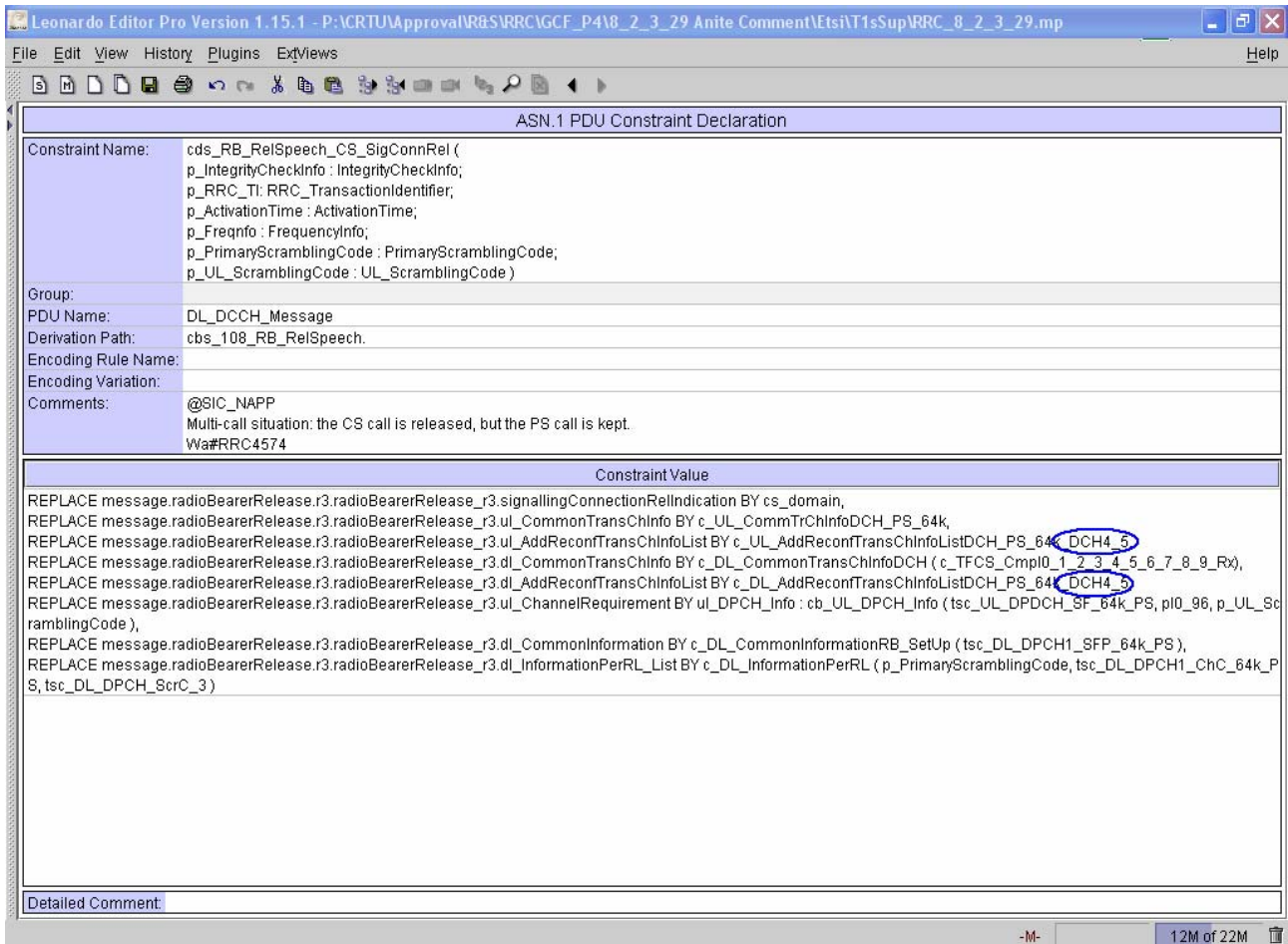
Test step name cds_RB_RelSpeech_CS_SigConnRel
Reason for change When setting up the initial RAB Set up message for CS RB 10,11,12 are mapped to DCH1,DCH2, & DCH3. The PS RAB RB 20 is mapped to DCH4.

Therefore in order to be consistent with the RAB setup configuration, the Radio Bearer Release message should specify DCH4 in the UL/DL Addrconfig Transport Channel Info List.

Summary of change Added the following constraint
 c_DL_AddReconfTransChInfoListDCH_PS_64k_DCH4_5 and
 c_UL_AddReconfTransChInfoListDCH_PS_64k_DCH4_5

Source of change New change

Label WA#RRC4574



4.4 ts_CalculateActTime (WA#RRC4578)

Test step name ts_CalculateActTime

Reason for change The configuration cell_Four_DTCH_CS_PS_Init is not catered for in the calculateActTime test step

Summary of change Added tcv_TmpCellInfo.cellConfig = cell_Four_DTCH_CS_PS_Init in line 2 as a condition.

Source of change New change

Label WA#RRC4578

Test Step					
Test Step Id:	ts_CalculateActTime (p_CellId: INTEGER)				
Test Step Group Ref:	BasicM_General_Steps/				
Objective:	To calculate the activation time with the tti value corresponding to the actual SS configuration.				
Defaults:	SS_Def				
Comments:	The tti value passed as parameter to ts_CPHY_ActTime is equal to tti/10 (e.g. tti 40 -> 4) Based on 34.108 on SRB tti.				
...	...	Behaviour Description	Constraint Ref	...	Comments
0		+ ts_SetTmpCellInfo (p_CellId)			
1		<pre> ((tcv_TmpCellInfo.cellConfig = cell_DCH_Speech) OR (tcv_TmpCellInfo.cellConfig = cell_DCH_64kCS_RAB_SRB) OR (tcv_TmpCellInfo.cellConfig = cell_DCH_57_6kCS_RAB_SRB) OR (tcv_TmpCellInfo.cellConfig = cell_DCH_64kPS_RAB_SRB) OR (tcv_TmpCellInfo.cellConfig = cell_PDCP_AM_RAB) OR (tcv_TmpCellInfo.cellConfig = cell_PDCP_UM_RAB) OR (tcv_TmpCellInfo.cellConfig = cell_PDCP_AM_UM_RAB) OR (tcv_TmpCellInfo.cellConfig = cell_RLC_DCH_AM_RAB_15Lis) OR (tcv_TmpCellInfo.cellConfig = cell_RLC_DCH_AM_RAB_7Lis) OR (tcv_TmpCellInfo.cellConfig = cell_RLC_DCH_UM_RAB_15Lis) OR (tcv_TmpCellInfo.cellConfig = cell_RLC_DCH_UM_RAB_7Lis) OR (tcv_TmpCellInfo.cellConfig = cell_DCH_57_6kCS_RAB_SRB) OR (tcv_TmpCellInfo.cellConfig = cell_DCH_StandAloneSRB) OR (tcv_TmpCellInfo.cellConfig = cell_DCH_2AM_PS) OR (tcv_TmpCellInfo.cellConfig = cell_DCH_2_PS_Cell) OR (tcv_TmpCellInfo.cellConfig = cell_Four_DTCH_CS_PS_Init)] </pre>			An RRC connection is established. Use DCH on DL DPCH1 @sic New RAB sic@ WA#RRC4578]
2		+ ts_CPHY_ActTime (p_CellId, tsc_DL_DPCH1, 4)			

4.5 ts_RRC_SendRB_SetUpFour_DTCH_CS_PS (WA#RRC4570)

Test step name	ts_RRC_SendRB_SetUpFour_DTCH_CS_PS
Reason for change	Mismatch in channelisation code between Radio Bearer setup and the local configuration.
Summary of change	Used tsc_DL_DPCH1_ChC_64k_PS in Radio Bearer setup message.
Source of change	New change
Label	WA#RRC4570

Test Step				
Test Step Id:	ts_RRC_SendRB_SetUpFour_DTCH_CS_PS (p_CellId: INTEGER; p_RAB_Id : BITSTRING; p_ActTime: ActivationTime)			
Test Step Group Ref:	RRC_General/			
Objective:	To add a PS RAB to a configuration where speech RABs have already been set up and to reconfigure the SS accordingly.			
Defaults:	RRC_Def1			
Comments:	@SIC_NAPP			
...	La...	Behaviour Description	Constraint Ref	Comments
1		+ts_SetTmpCellInfo (p_CellId)		
2	AM ? RLC_AM_DATA_REQ		cas_RB_SetUpAM_WithCnf (tsc_CellDedicated, tsc_RB2, tsc_Mui, cs_RRC_RB_SetUp (tcv_CellIndInfo.dl_IntegrityCheckInfo, tcv_RRC_Ti, p_ActTime, cell_DCH, OMIT, { cd_RAB_InfoSetupDCH_4_PS_64k (useT315, p_RAB_Id, c_RLC_InfoAM_Def) }, c_UL_CommTrChInfo_TM3_AM1_0To119 (c_PowerOffsetInfoBelow64k), c_UL_AddReconfTransChInfoListAM_DCH4 (c_DCH_336_TFS_UE), c_DL_CommonTransChInfo_TM3_AM1_0_119, { c_DL_AddReconfTransChInfo (tsc_DL_DCH4, tsc_UL_DCH4) }, c_DL_InformationPerRL (tcv_TmpCellInfo.priScrmCode, tsc_DL_DPCH1_ChC_64k_PS, tcv_TmpCellInfo.dl_DPCH_2ndScrmCode) , c_DL_CommonInformationRB_SetUp (tsc_Sfd32), cb_UL_DPCH_Info (tsc_Sf16, pi0_76, tcv_TmpCellInfo.ul_ScramblingCode), OMIT))	WA#RRC4570
3	AM ? RLC_AM_DATA_CNF		car_AM_DataMuiCnf (tsc_CellDedicated, tsc_RB2, tsc_Mui)	

4.6 tc_8_2_3_29:lt_RadioBearerRelease_CS (WA#RRC4575)

Test step name	tc_8_2_3_29:lt_RadioBearerRelease_CS
Reason for change	Wrong variable was used in the conditional check statement.
Summary of change	Used tcv_TmpCellInfo.cellConfig for the conditional statement in line 19 & 25.
Source of change	New change
Label	WA#RRC4575

It_RadioBearerRelease_CS			
17	+ts_CalculateActTime (tsc_CellA)		
18	(tcv_CellInfoA.dl_DPCH_2ndScrCode := tsc_DL_DPCH_ScrC_3)		
19	(tcv_TmpCellInfo.cellConfig := cell_Four_DTCH_CS_PS)		WA#RRC4575
20	AM!RLC_AM_DATA_REQ	cas_RB_ReleaseWithCnf (tsc_CellDedicated, tsc_RB2, tsc_Mui, cds_RB_RelSpeech_CS_SigConnRel (tcv_CellIndInfo.dl_IntegrityCheckInfo, tcv_RRC_TI, tcv_ActTime, tcv_CellInfoA.frequencyInfo, tcv_CellInfoA.priScrmCode, tcv_CellInfoA.uL_ScramblingCode))	
21	AM ? RLC_AM_DATA_CNF	car_AM_DataMuiCnf (tsc_CellDedicated, tsc_RB2, tsc_Mui)	
22	+ts_CRRC_Rel (tsc_CellDedicated, tsc_RB10)		Release RB10
23	+ts_CRRC_Rel (tsc_CellDedicated, tsc_RB11)		Release RB11
24	+ts_CRRC_Rel (tsc_CellDedicated, tsc_RB12)		Release RB12
25	(tcv_TmpCellInfo.cellConfig := cell_Two_DTCH_CS_PS)		WA#RRC4575
26	AM!RLC_AM_DATA_REQ	cas_RB_ReleaseWithCnf (tsc_CellDedicated, tsc_RB2, tsc_Mui, cds_RB_Rel64k_CS_SigConnRel (tcv_CellIndInfo.dl_IntegrityCheckInfo, tcv_RRC_TI, tcv_ActTime, tcv_CellInfoA.frequencyInfo, tcv_CellInfoA.priScrmCode, tcv_CellInfoA.uL_ScramblingCode))	

4.7 It_SS_ReconfigMulticallToPS_Only (WA#RRC4579)

Test step name It_SS_ReconfigMulticallToPS_Only

Reason for change When setting up the initial RAB Set up message for CS RB 10,11,12 are mapped to DCH1,DCH2, & DCH3. The PS RAB RB 20 is mapped to DCH4.

Therefore in order to be consistent with the RAB setup configuration, the Radio Bearer Release message should specify DCH4 in the UL/DL Adreconfig Transport Channel Info List.

Summary of change Used the following constraint in line 29

cd_DCH_336_148_UL_Info_DCH4, cd_DCH_336_148_DL_Info_DCH4, cd_TrChInfoUL_336_148_DCH4, cd_TrChInfoDL_336_148_DCH4, cd_TrLogMappingUL_4DCCH_1DTCH_PS_DCH4, cd_TrLogMappingDL_4DCCH_1DTCH_PS_DCH4

Source of change New change

Label WA#RRC4579

It_SS_ReconfigMulticallToPS_Only			
29	+ts_SS_2DCH_Modify (tsc_CellA, cd_DCH_336_148_UL_Info_DCH4(tcv_ActTime), cd_DCH_336_148_DL_Info_DCH4(tcv_ActTime), cd_TrChInfoUL_336_148_DCH4, cd_TrChInfoDL_336_148_DCH4, cd_TrLogMappingUL_4DCCH_1DTCH_PS_DCH4, cd_TrLogMappingDL_4DCCH_1DTCH_PS_DCH4, tcv_ActTime, cb_DL_DPCH_64K_PS (c_DL_CommonInformationRB_SetUp (tsc_DL_DPCH1_SF_64k_PS), tcv_CellInfoA.dl_DPCH_2ndScrCode), cb_UL_DPCH_Info (tsc_UL_DPCH_SF_64k_PS, pi0_96, tcv_CellInfoA.uL_ScramblingCode))		SS reconfiguration of MAC & PHY layers for PS RAB only WA#RRC4579
30	+ts_SetCellCfg (tsc_CellA, cell_DCH_64kPS_RAB_SRB)		

4.8 ts_SS_DownloadSecurityKey (WA#RRC4580)

Test step name ts_SS_DownloadSecurityKey

Reason for change In the test step ts_RRC_MultiCallEstPS_MO_P19 from the local tree It_SetCellConfig cell state is changed to cell_Four_DTCH_CS_PS_Init.
Later when ts_SS_DownloadSecurityKey is called from ts_RRC_Security within the test step ts_RRC_MultiCallEstPS_MO_P19 the HFN for the PS domain should be downloaded in the SS. Therefore in the test step ts_SS_DownloadSecurityKey , check for state cell_Four_DTCH_CS_PS_Init needs to be added

Summary of change Added tcv_TmpCellInfo.cellConfig = cell_Four_DTCH_CS_PS_Init in line 14 as a condition.

Source of change Anite Comment

Label WA#RRC4580

13	+ It_DownloadKeyCRLC (tcv_HFN,OMIT,p_IK)		
14	[(tcv_TmpCellInfo.cellConfig = cell_DCH_StandAloneSRB_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_DCH_StandAloneSRB) OR (tcv_TmpCellInfo.cellConfig = cell_DCH_64kPS_RAB_SRB) OR (tcv_TmpCellInfo.cellConfig = cell_RLC_DCH_AM_RAB_15Lis) OR (tcv_TmpCellInfo.cellConfig = cell_RLC_DCH_AM_RAB_7Lis) OR (tcv_TmpCellInfo.cellConfig = cell_RLC_DCH_UM_RAB_15Lis) OR (tcv_TmpCellInfo.cellConfig = cell_RLC_DCH_UM_RAB_7Lis) OR (tcv_TmpCellInfo.cellConfig = cell_PDCP_AM_RAB) OR (tcv_TmpCellInfo.cellConfig = cell_PDCP_UM_RAB) OR (tcv_TmpCellInfo.cellConfig = cell_PDCP_AM_UM_RAB) OR (tcv_TmpCellInfo.cellConfig = cell_DCH_MAC_SRB_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_DCH_MAC_SRB) OR (tcv_TmpCellInfo.cellConfig = cell_DCH_2AM_PS) OR (tcv_TmpCellInfo.cellConfig = cell_DCH_2_PS_Call) OR (tcv_TmpCellInfo.cellConfig = cell_Four_DTCH_CS_PS_Init)]		Cell DCH no TM RAB @sic ER1926 sic@ WA#RRC4580
15	+ It_DownloadKeyCRLC (tcv_HFN,OMIT,p_IK)		

5 Branches executed in test case 8.2.3.29

The test case implementation executed the CS branch with Integrity activated, Ciphering disabled, and AutoAttach Off & On.

6 Execution Log Files

6.1 Nokia 6630 3G UE

The Nokia 6630 passed this test case on Rohde & Schwarz 3G System Simulator CRTU-W. The documentation below is enclosed as evidence of the successful test case run [1]:

- **Execution log files 8_2_3_29_Logs-Nokia-CS\Index.html**
These execution log files in HTML format show the dynamic behaviour of the test in a tabular view and in message sequence chart (MSC) view. All message contents are fully decoded and listed in hexadecimal format. Preliminary verdicts and the final test case verdict are listed in the log file.
- **PICS/PIXIT file 8_2_3_29-pics-pixit-Nokia-CS.html**
HTML file containing all PICS/PIXIT parameters used for testing the CS & PS mode

6.2 Motorola E1000 3G UE

The Motorola E1000 passed this test case on Rohde & Schwarz 3G System Simulator CRTU-W. The documentation below is enclosed as evidence of the successful test case run [1]:

- **Execution log files 8_2_3_29_Logs-Motorola-CS\Index.html**
These execution log files in HTML format show the dynamic behaviour of the test in a tabular view and in message sequence chart (MSC) view. All message contents are fully decoded and listed in hexadecimal format. Preliminary verdicts and the final test case verdict are listed in the log file.
- **PICS/PIXIT file 8_2_3_29-pics-pixit-Motorola-CS.html**
HTML file containing all PICS/PIXIT parameters used for testing the CS & PS mode

7 References

- [1] **T1s040704**
This archive comprises HTML Execution log files, PICS/PIXIT files and the TTCN MP file

CR-Form-v7	
CHANGE REQUEST	
# 34.123-3	# CR 1058 # rev - # Current version: 3.7.0 #

For [HELP](#) on using this form, see bottom of this page or look at the pop-up text over the # symbols.

Proposed change affects: UICC apps# ME Radio Access Network Core Network

Title:	# Changes to GCF package 2 IR_U test case 12.8 required for approval		
Source:	# Rohde & Schwarz		
Work item code:	# N/A	Date:	# 25/10/04
Category:	# B	Release:	# R99
	Use <u>one</u> of the following categories:		Use <u>one</u> of the following releases:
	F (correction)		2 (GSM Phase 2)
	A (corresponds to a correction in an earlier release)		R96 (Release 1996)
	B (addition of feature),		R97 (Release 1997)
	C (functional modification of feature)		R98 (Release 1998)
	D (editorial modification)		R99 (Release 1999)
	Detailed explanations of the above categories can be found in 3GPP TR 21.900 .		Rel-4 (Release 4)
			Rel-5 (Release 5)
			Rel-6 (Release 6)

Reason for change:	# To add verified GCF package 2 IR_U test case 12.8 to the approved IR_U ATS V3.7.0
Summary of change:	# This document lists all changes applied to test case 12.8 required for approval.
Consequences if not approved:	# The test case will not be added to the ATS.

Clauses affected:	# N/A				
Other specs affected:	#				
	<table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td style="width: 20px; text-align: center;">Y</td> <td style="width: 20px; text-align: center;">N</td> </tr> <tr> <td style="text-align: center;">#</td> <td style="text-align: center;">X</td> </tr> </table> Other core specifications	Y	N	#	X
Y	N				
#	X				
	<table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td style="width: 20px; text-align: center;">#</td> <td style="width: 20px; text-align: center;">X</td> </tr> </table> Test specifications	#	X		
#	X				
	<table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td style="width: 20px; text-align: center;">#</td> <td style="width: 20px; text-align: center;">X</td> </tr> </table> O&M Specifications	#	X		
#	X				
Other comments:	#				

How to create CRs using this form:

Comprehensive information and tips about how to create CRs can be found at <http://www.3gpp.org/specs/CR.htm>. Below is a brief summary:

- 1) Fill out the above form. The symbols above marked # contain pop-up help information about the field that they are closest to.

- 2) Obtain the latest version for the release of the specification to which the change is proposed. Use the MS Word "revision marks" feature (also known as "track changes") when making the changes. All 3GPP specifications can be downloaded from the 3GPP server under <ftp://ftp.3gpp.org/specs/>. For the latest version, look for the directory name with the latest date e.g. 2001-03 contains the specifications resulting from the March 2001 TSG meetings.
- 3) With "track changes" disabled, paste the entire CR form (use CTRL-A to select it) into the specification just in front of the clause containing the first piece of changed text. Delete those parts of the specification which are not relevant to the change request.

01 Jan - 31 Dec 2004

Title: Changes to test case 12.8 required for approval

Source: Rohde & Schwarz

Agenda Item: TTCN Issues

Document for: Approval

Contact: Holger Jauch
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1 Overview

This document is a CR on test case 12.8. It lists all the changes needed to correct detected problems in the TTCN implementation of test case 12.8 which is part of the IR_U test suite.

With these changes applied the test case can be demonstrated to run with one or more 3G UEs (see section 6).

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3 Verification Test Summary

Test Case:	tc_12_8
Test Group:	GMM/GMM_Ready_timer/
ATS Version:	IR_U_wk42.mp
System Simulator used:	Rohde & Schwarz 3G system simulators CRTU-W and CRTU-G
UE used:	Nokia 6630
Verification Status:	PASS

4 Corrections required for test case 12.8

4.1 Introduction

This CR presents corrections on GMM/GMM_Ready_timer test case tc_12_8 required for approval.

The ATS enclosed in T1s040616 [1] contains the modifications of test case tc_12_8 described in this document.

For the ATS modifications as identified by the 'Change labels' as defined in the subsequent subclauses, the following principles apply:

- a) There are no new TTCN objects proposed.
- b) All changes on existing objects are explicitly described in this CR.

Annex A contains a table listing all change label/affected object combinations applicable to tc_12_8.

4.2 Presentation of the modifications

The modifications are presented by the use of '**Change Tables**' as described below, and by **screenshots** taken from the relevant parts of changed TTCN objects in TTCN.GR format.

In addition, if the **reason for a change** cannot be expressed in a few table lines, particular subclauses of clause 4 may be generated for detailed argumentation.

The '**Change Tables**' have the format described in the example below (all entries in the second column are for demonstration purposes only):

Table 1: Example Change Table

TTCN object	<i>tc_12_8</i>
Reference ATS	<i>IR_U_wk42.mp [2]</i>
Change Label	<i>WA#2G3RRC0110</i>
Reason for change	<i><Textual description of change reason>.</i>
Summary of change	<i><Textual description of performed changes></i>
Other affected objects	<i><GOTO fields to other change descriptions> (optional)</i>
ETSI comment	
R&S conclusion	

- TTCN object:** Identifier(s) of one or more TTCN objects having a global context in the TTCN ATS. Typically only one TTCN object occurs. More than one object is listed only, when:
- a) All objects belong to the same TTCN Object Class; and
 - b) All objects are either created, or are modified in the same systematic way; and
 - c) No other change is proposed for the listed objects.
- Reference ATS:** ETSI ATS containing the referred TTCN object(s), relative to which the current change description applies.
- Change Label:** Textual identifier starting with the fixed string 'WA#2G3RRC', followed by a 4-digit number (e.g. WA#2G3RRC0110). A Change Label is assigned when a particular problem is recognized during the verification work. More than one TTCN Object may be affected by the proposed solution to this problem.
- Reason for change:** Textual description of the reason why the change is proposed.
- Summary of change:** Short description of what is proposed for change.
- Other affected objects:** List of one or more GOTO fields, pointing to other TTCN objects having assigned the same Change Label, i.e. all other objects being affected by the problem giving rise to the current Change Label.
- ETSI comment:** This field may be used by ETSI colleagues giving a dedicated reply to the current CR document. Otherwise it is filled by the R&S 2G3 group when another kind of response is received from ETSI.
- R&S conclusion:** Filled by the R&S 2G3 group when the ETSI answer does not indicate acceptance of the change request.

4.3 Modifications inside the tc_12_8 behaviour table

TTCN object	tc_12_8
Reference ATS	IR_U_wk42.mp [2]
Change Label	WA#2G3RRC0451
Reason for change	The UE performs a cell update procedure if c_ForceToStandby('000'B) is applied in the Routing Area Update Accept message and the Ready timer value is re-negotiated.
Summary of change	In It_PeriodicUpdate_Steps_11to13, replace cs_RA_UpdAccTimers by cs_RA_UpdAcc3. Note: See also WA#2G3RRC0417 .
Other affected objects	
ETSI comment	IR_U_wk42.mp [2]
Change Label	WA#2G3RRC0419
Reason for change	When a RAU REQ message has been transmitted by the UE, it will also send a G_RLC_ControlMsg_IND/cr_PacketControlAcknowledgement message. If this message is not expected explicitly in the test case, after the RAU REQ message has been received, the test case will proceed to ts_DownlinkTBFEstablishment. In the beginning of this test step a G_CRLC_DL_TBF_Config_REQ ASP is issued, which operates only locally, and it is likely that the G_CRLC_DL_TBF_Config_CNF ASP will be received before the G_RLC_ControlMsg_IND/cr_PacketControlAcknowledgement message is received from the UE. When this message arrives, it will be interchanged with the PacketControlAcknowledgement message expected in line 6 of ts_DownlinkTBFEstablishment.
Summary of change	Add a line receiving G_RLC_ControlMsg_IND/cr_PacketControlAcknowledgement after each G_LLC_UNITDATA_IND line.
Other affected objects	
ETSI comment	
R&S conclusion	

0

It_Steps_7to10			
45	+ts_UplinkTBFOnePhase(tsc_GSM_CellA, tsc_PhyCh1)		
46	G_LLC ? G_LLC_UNITDATA_IND	car_G_LLC_UnitData_IND(tsc_LLEntity, cbr_RA_UpdReq (c_GMM_UpdateTypeRA_Updating, c_RAI_v (tcv_CellInfoA.mcc, tcv_CellInfoA.mnc, tcv_CellInfoA.lac, tcv_CellInfoA.rac), c_PTMSI_Signature (px_PTMSI_Sig2), c_TMSI_StatusAny, tcv_PS_KeySeq))	step 8 Update type = 'RA updating' P-TMSI-2 signature Routing area identity = RAI-1 @sic ER2040 sic@
47	G_RLC ? G_RLC_ControlMsg_IND	car_G_RLC_ControlMsg_IND(tsc_GSM_CellA, tsc_PhyCh1, cr_PacketControlAcknowledgement)	Make sure the UE has received the PacketULACK WA#2G3RRC0419
48	+ts_DownlinkTBFEstablishment(tsc_GSM_CellA, tsc_PhyCh1, bcch)		
49	G_LLC ! G_LLC_UNITDATA_REQ	cas_G_LLC_UnitData_Req(tsc_LLEntity, tcv_TLLI, tsc_LLC_Sapi_GMM, tsc_LLC_PM, px_GSM_CipheringOnOff, cs_RA_UpdAccTimers (c_GMM_UpdateResultRA_Updated, c_RAI_v (tcv_G_CellInfoA.mcc, tcv_G_CellInfoA.lac, tcv_RAC), c_PTMSI_Signature (px_PTMSI_SigDef), c_MobileIDPTMSI (px_PTMSI_Def), -, c_GPRS_Timer_v('001'B, '00110'B), c_GPRS_Timer('001'B, '00001'B)))	step 9 Update result = 'RA updated' Mobile identity = P-TMSI-1 P-TMSI-1 signature Routing area identity = RAI-4@sic ER2040 sic@
50	+ts_UplinkTBFOnePhase(tsc_GSM_CellA, tsc_PhyCh1)		
51	G_LLC ? G_LLC_UNITDATA_IND START_t_UpperBound(462000), START_t_LowerBound(378000)	car_G_LLC_UnitData_IND(tsc_LLEntity, cs_RA_UpdComplete)	Receive RAU Complete Message and start timer (60s + 6mins) +/- 10% @sic T1s040642 sic@
52	G_RLC ? G_RLC_ControlMsg_IND	car_G_RLC_ControlMsg_IND(tsc_GSM_CellA, tsc_PhyCh1, cr_PacketControlAcknowledgement)	Make sure the UE has received the PacketULACK WA#2G3RRC0419
It_PeriodicUpdate_Steps_11to13			
53	G_L2 ? G_L2_ACCESS_IND (tcv_RR_RFN := G_L2_ACCESS_IND.rfn, tcv_ChRequest := G_L2_ACCESS_IND.burst) CANCEL_t_LowerBound, CANCEL_t_UpperBound	cabr_G_L2_ACCESS_IND (tsc_GSM_CellA, tsc_PhyCh0, 1, ?, ?, cr_ChanReqOnePhase)	Receive CHANNEL REQUEST message too early @sic T1s040642 sic@
54	(tcv_RR_RA := (BIT_TO_INT (tcv_ChRequest.estCauRandomRef)))		
55	+ts_UL_TBFOnePhase(tsc_GSM_CellA, tsc_PhyCh1)		
56	G_LLC ? G_LLC_UNITDATA_IND	car_G_LLC_UnitData_IND(tsc_LLEntity, cr_RA_UpdReqP_ (F) TMSI(?, ?, ?, ?))	Received too early (60s + 6mins) +/- 10%
57	G_RLC ? G_RLC_ControlMsg_IND	car_G_RLC_ControlMsg_IND(tsc_GSM_CellA, tsc_PhyCh1, cr_PacketControlAcknowledgement)	Make sure the UE has received the PacketULACK WA#2G3RRC0419
58	+ts_DownlinkTBFEstablishment(tsc_GSM_CellA, tsc_PhyCh1, bcch)		

59	G_LLC ! G_LLC_UNITDATA_REQ	cas_G_LLC_UnitData_Req(tsc_LLEEntity, tcv_TLLI, tsc_LLC Sapi_GMM, tsc_LLC_PM, px_GSM_CipheringOnOff, cs_RA_UpgradeAcc3 (c_GMM_UpdateResultRA_Updated, c_RAI_v (tcv_G_CellInfoA.mcc, tcv_G_CellInfoA.mnc, tcv_G_CellInfoA.lac, tcv_RAC), -, -, -))	step 13 Update type = 'RA updated' @sic T1s040642 sic@ WA#2G3RRC0451
60	?TIMEOUT_t_LowerBound		@sic T1s040642 sic@
61	G_L2 ? G_L2_ACCESS_IND (tcv_RR_RFN = G_L2_ACCESS_IND.rfn , tcv_ChRequest = G_L2_ACCESS_IND.burst) CANCEL_t_UpperBound	car_G_L2_ACCESS_IND (tsc_GSM_CellA, tsc_PhyCh0 , 1 , ? , ? , cr_ChReqOnePhase)	Receive CHANNEL REQUEST message @sic T1s040642 sic@
62	(tcv_RR_RA = (BIT_TO_INT (tcv_ChRequest.estCauRandomRef)))		
63	+ts_ULTBFOnePhase(tsc_GSM_CellA, tsc_PhyCh1)		
64	G_LLC ? G_LLC_UNITDATA_IND	car_G_LLC_UnitData_IND(tsc_LLEEntity, cr_RA_UpgradeReq_P) TMSI(c_GMM_UpdateTypePeriodicUpdating, c_RAI_v (tcv_G_CellInfoA.mcc, tcv_G_CellInfoA.mnc, tcv_G_CellInfoA.lac, tcv_RAC), c_PTMSI_Signature (px_PTMSI_SigDef), OMIT, tcv_PS_KeySeq)	step 12 Update type = 'Periodic updating' P-TMSI-1 signature Routing area identity = RAI-4 Received within (60s + 6mins) +/- 10% @sic T1s040642 sic@
65	G_RLC ? G_RLC_ControlMsg_IND	car_G_RLC_ControlMsg_IND(tsc_GSM_CellA, tsc_PhyCh1, cr_PacketControlAcknowledgement)	Make sure the UE has received the Packet UL ACK WA#2G3RRC0419
66	+ts_DownlinkTBFEstablishment(tsc_GSM_CellA, tsc_PhyCh1, bch)		
67	G_LLC ! G_LLC_UNITDATA_REQ	cas_G_LLC_UnitData_Req(tsc_LLEEntity, tcv_TLLI, tsc_LLC Sapi_GMM, tsc_LLC_PM, px_GSM_CipheringOnOff, cs_RA_UpgradeAcc3 (c_GMM_UpdateResultRA_Updated, c_RAI_v (tcv_G_CellInfoA.mcc, tcv_G_CellInfoA.mnc, tcv_G_CellInfoA.lac, tcv_RAC), -, -, -))	step 13 Update type = 'RA updated' @sic ER2040 sic@ WA#2G3RRC0451
68	?TIMEOUT_t_UpperBound		(F) Periodic RAU not received in time
It_Detach			
69	[pc_USIM_Rmv OR pc_SwitchOnOff]		i.e. if power was not removed
70	+ts_UplinkTBFOnePhase(tsc_GSM_CellA, tsc_PhyCh1)		
71	G_LLC ? G_LLC_UNITDATA_IND	car_G_LLC_UnitData_IND(tsc_LLEEntity, cr_DetachReq (c_DetachType('1'B, '001'B), ?, *))	Receive Detach Request Message @sic T1s040642 sic@
72	G_RLC ? G_RLC_ControlMsg_IND	car_G_RLC_ControlMsg_IND(tsc_GSM_CellA, tsc_PhyCh1, cr_PacketControlAcknowledgement)	Make sure the UE has received the Packet UL ACK WA#2G3RRC0419
73	[TRUE]		Power was removed, so won't get a Detach Req
It_InitVariables			

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4.4 Other modifications relevant for tc_12_8

4.4.1 tsc_AttenuationSuitableNeighbourCell

TTCN object	tsc_AttenuationSuitableNeighbourCell		
Reference ATS	IR_U_wk42.mp [2]		
Change Label	WA#2G3RRC0432		
Reason for change	Although Racalís suggestion in T1s040642 to change S-SearchRAT has been followed, the attenuation level in tc 12.8 turns out to be too small to initiate cell reselection .		
Summary of change	Increase the value of tsc_AttenuationSuitableNeighbourCell from 10 to 20.		
Other affected objects			
ETSI comment			
R&S conclusion			
tsc_AttenuationSuitableNeighbourCell	INTEGER	20	Value of attenuator to be used when setting a Suitable Neighbour Cell (3GPP 34.108 / Table 6.1.2) relative to Serving Cell. WA#2G3RRC0432

4.4.2 c_G_CellConfigInfoGSM900_CellA

TTCN object	c_G_CellConfigInfoGSM900_CellA
Reference ATS	IR_U_wk42.mp [2]
Change Label	WA#2G3RRC0445
Reason for change	The value for element 'extNeighBCCHFreqList' is missing.
Summary of change	Insert constraints reference 'c_ExtNeighBCCH_FreqList2bisGSM900A' (see e.g. c_G_CellConfigInfoGSM900).
Other affected objects	
ETSI comment	
R&S conclusion	

Structured Type Constraint Declaration

Constraint Name:	c_G_CellConfigInfoGSM900_CellA
Group:	
Type Name:	G_CellConfigInfo
Derivation Path:	
Encoding Variation:	
Comments:	default configuration parameters for GSM 450. values are taken from 3GPP TS 34.123 Table6.5

Element Name	Element Value	Comments
bCCH_Freq	'000000001'B	BCCH/CCCH carrier frequency (ARFCN) for current cell. None hopping Serving cell: 1
tCH_Freq	c_TCH_FreqGSM900_CellA	frequency parameters for traffic channel. no hopping ARFCN = 6, as default value not given, the value is assumed as bCCH_Freq+5
sDCCH8_Freq	c_SDCCH8_FreqGSM900_CellA	frequency parameters for stand alone dedicated control channel. no hopping ARFCN = 11, as default value not given, the value is assumed as bCCH_Freq+10
downlinkPowerLevel	63	Downlink transmission power level = 63 dB uVermf().
cellIdentity	'0001'O	cell identity = '0001'O
mcc	'001'H	mobile country code = 001 (decimal)
mnc	'01'H	mobile network code = 01 (decimal)@sic 1-031771 sic@
lac	'0001'O	location area code = '0001'O
ncc	'001'B	PLMN colour code = '001'B
bcc	'101'B	BS colour code = '101'B
dTX	'10'B	Uplink discontinuous transmission not used. (indecation in BCCH)
db8	'0'B	Uplink discontinuous transmission not used. (indecation in SACHH)
db65	'10'B	Uplink discontinuous transmission not used. (indecation in SACHH)
attFlag	'1'B	IMSI attach/detach allowed
cCCH_CONF	'001'B	1 basic physical channel for CCCH combinaed with SDCCH
bS_AG_BLKs_RES	'000'B	0 block reserved
bS_PA_MFRMS	'011'B	5 paging subgroups
splitOnCCCH	px_SplitOnCCCH	no split pg cycle on CCCH. value taken from PIXIT. (shall be PICS question?)
cell_BAR_ACCESS	'0'B	cell not barred for access
cellBarQuality2	'00'B	cell bar quality 2 inactive
callReestab	'1'B	Call re-establishment not allowed
timingAdvance	'1F'O	timing advance value = 30 * 48/13 us
tSC	px_TSC	training sequence code for dedicated channels.
cellAllocation	c_CellAllocGSM900_CellA	cell allocation, ARFCNs : 1, 6, 11 0 range
neighBCCHFreqList	c_NeighBCCH_FreqListGSM900_CellA	neighbour cell BCCH/CCCH ARFCN's = 7, 39
extNeighBCCHFreqList	c_ExtNeighBCCH_FreqList2bisGSM900A	extended neighbour cell BCCH/CCCH ARFCN's in SI2bis To be changed while using WA#2G3RRC0445
extNeighBCCHFreqList2ter	c_ExtNeighBCCH_FreqList2terGSM900A	extended neighbour cell BCCH/CCCH ARFCN's in sysinfoType2ter. @sic T1s-04332 sic@

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4.4.3 c_PktDownlinkAss_IARO

TTCN object	c_PktDownlinkAss_IARO
Reference ATS	IR_U_wk42.mp [2]
Change Label	WA#2G3RRC0415
Reason for change	If the value '0'B for tA_VALID is taken, the UE won't consider the Timing Advance value in the IMMEDIATE ASSIGNMENT message.
Summary of change	Change value of tA_VALID from '0'B to '1'B. Note: This has been previously rejected by ETSI, but the IMMEDIATE ASSIGNMENT message actually contains the TA IE (see line 1 of It_SendIA/ts_DownlinkTBFEstablishment).
Other affected objects	
ETSI comment	
R&S conclusion	

Structured Type Constraint Declaration

Constraint Name: c_PktDownlinkAss_IARO(p_TLLI : 04; p_Gamma : B5; p_StartingTime : B16)

Group:

Type Name: PacketDownlinkAssign

Derivation Path:

Encoding Variation:

Comments:

Element Name	Element Value	...	Comments
tLLI	p_TLLI		TLLI
mask	'1'B		
tFL_Assignment	tsc_downlinkTFI		temporary flow identifier not present if mask = 0
rLC_Mode	'0'B		RLC mode not present if mask = 0
alphaMask	'1'B		not present if mask = 0.
aLPHA	'0101'B		not present if mask = 0 or alphaMask = 0
gAMMA	p_Gamma		not present if mask = 0
pOLLING	'1'B		not present if mask = 0
tA_VALID	'1'B		not present if mask = 0 WA#2G3RRC0415
taIndexMask	'0'B		
TIMING_ADVANCE_INDEX	-		not present if mask = 0 or taIndexMask = 0
startingTimeMask	'1'B		not present if mask = 0
tBF_STARTING_TIME	p_StartingTime		not present if mask = 0 or startingTimeMask = 0
pwrCtrlMask	'0'B		not present if mask = 0
p0	-		not present if mask = 0 or pwrCtrlMask = 0
bTS_PWR_CRTL_MODE	-		not present if mask = 0 or pwrCtrlMask = 0
pR_MODE	-		not present if mask = 0 or pwrCtrlMask = 0
egprsMask	'0'B		L
eGPRSWindowSize	-		not present if egprsMask = L
linkQualityMeasMode	-		not present if egprsMask = L
bepPriod2Mask	-		not present if egprsMask = L
BepPeriod2	-		not present if egprsMask = L or bepPriod2Mask = 0

Detailed Comment:

4.4.4 car_G_RLC_ControlMsg_IND

TTCN object	car_G_RLC_ControlMsg_IND
Reference ATS	IR_U_wk42.mp [2]
Change Label	WA#2G3RRC0416
Reason for change	car_G_RLC_ControlMsg_IND is used for both tbf directions.
Summary of change	Change value of tBF_Direction from '1'B to ?.
Other affected objects	
ETSI comment	
R&S conclusion	

ASP Constraint Declaration

Constraint Name: car_G_RLC_ControlMsg_IND(p_CellId : CellId; p_PhyChId:PhysicalChId; p_msg: PDU)

Group:

ASP Name: G_RLC_ControlMsg_IND

Derivation Path:

Comments:

Parameter Name	Element Value	Comments
cellId	p_CellId	
physicalChId	p_PhyChId	Channel identifier
g_LogicChType	tsc_PACCH_F	PCCCH or PACCH or PTCCCH
tBF_Direction	?	0 -- downlink; 1 -- uplink WA#2G3RRC0416
tFI	?	temporary flow identity
rfrn	?	the reduced frame number of the frame carrying this message
msg	p_msg	uplink RLC/MAC control message

4.4.5 cr_RA_UpdReqP_TMSI

TTCN object	cr_RA_UpdReqP_TMSI
Reference ATS	IR_U_wk42.mp [2]
Change Label	WA#2G3RRC0305
Reason for change	The value of Structured Type element 'msRadioAccessCap' is '*', but the element is mandatory.
Summary of change	Replace '*' by c_MS_RadioAccessCapAny_lv.
Other affected objects	
ETSI comment	
Change Label	WA#2G3RRC0309
Reason for change	The constraint value of field tmsiStatus in cr_RA_UpdReqP_TMSI is '*'. But TmsiStatus is a structured type, which should have its own constraint.
Summary of change	Apply 'c_TMSI_StatusAny IF_PRESENT' to field tmsiStatus instead of '*'.
Other affected objects	
ETSI comment	
Change Label	WA#2G3RRC0351
Reason for change	The value for Structured Type IEs msnetworkcap and pDP_ContextStatus, in ROUTINGAREAUPDATEREQUEST constraint 'cbr_RA_UpdReq', is '*'.
Summary of change	Replace '*' by 'cr_MS_NetworkCap_tlv_Any IF_PRESENT' and 'cr_PDP_ContextStatusAny IF_PRESENT' respectively.
Other affected objects	
R&S conclusion	

PDU Constraint Declaration

Constraint Name:	cr_RA_UpdReqP_TMSI (p_updateType : UpdateType_v, p_RAI : RAI_v, p_PTMSISig : PTMSI_Signature; p_GMM_MS_IdentityPTMSI : GMM_MS_IdentityPTMSI; p_KeySeq : KeySeq)
Group:	
PDU Name:	ROUTINGAREAUPDATEREQUEST
Derivation Path:	
Encoding Rule Name:	
Encoding Variation:	
Comments:	@SIC_NAPP

Field Name	Element Value	Type Encoding	Comments
skipIndicator	'0000'B		
gmmProtocolDiscriminator	tsc_GMM_PD		
msgType	'00001000'B		
gprsCiphKeySeqNo	c_CiphKeySeqNum(p_KeySeq)		
updateType	p_updateType		
oldRAI	p_RAI		
msRadioAccessCap	c_MS_RadioAccessCapAny_lv		WA#2G3RRC0305
oldPTMSI_Signature	p_PTMSISig		
readyTimer	cr_GPRS_TimerAny IF_PRESENT		
drxParameter	cr_DRXparameter_tlv_Any IF_PRESENT		
tmsiStatus	c_TMSI_StatusAny IF_PRESENT		WA#2G3RRC0309
ptmsi	p_GMM_MS_IdentityPTMSI		@SIC TT-031835 sic@
msnetworkcap	cr_MS_NetworkCap_tlv_Any IF_PRESENT		WA#2G3RRC0351
pDP_ContextStatus	cr_PDP_ContextStatusAny IF_PRESENT		WA#2G3RRC0351

4.4.6 cr_DetachReq

TTCN object	cr_DetachReq		
Reference ATS	IR_U_wk42.mp [2]		
Change Label	WA#2G3RRC0387		
Reason for change	Fields ptmsi and ptmsiSignature are optional, but cr_DetachReq expects them to be present in the message.		
Summary of change	Add IF_PRESENT to the values of fields ptmsi and ptmsiSignature.		
Other affected objects			
ETSI comment			
R&S conclusion			
PDU Constraint Declaration			
Constraint Name:	cr_DetachReq (p_type : DetachType; p_ptmsi : GMM_MS_IdentityPTMSI; p_signature : PTMSI_Signature_tlv)		
Group:			
PDU Name:	DETACHREQUESTMO		
Derivation Path:			
Encoding Rule Name:			
Encoding Variation:			
Comments:			
Field Name	Element Value	Type Encoding	Comments
skipIndicator	'0000'B		
gMMProtocolDiscriminator	tsc_GMM_PD		
msgType	'00000101'B		
spare4	?		
detachType	p_type		
ptmsi	p_ptmsi IF_PRESENT		WA#2G3RRC0387
ptmsiSignature	p_signature IF_PRESENT		WA#2G3RRC0387

4.4.7 cs_AuthAndCiphReq

TTCN object	cs_AuthAndCiphReq		
Reference ATS	IR_U_wk42.mp [2]		
Change Label	WA#2G3RRC0418		
Reason for change	Fixed value '001'B is passed to c_CiphAlgorithm, which forces ciphering to be applied.		
Summary of change	Change the value passed to c_CiphAlgorithm from fixed value '001'B to px_CipherAlg, in order to be able to control the use of ciphering.		
Other affected objects			
ETSI comment			
R&S conclusion			
PDU Constraint Declaration			
Constraint Name:	cs_AuthAndCiphReq(p_rand : AuthenticationParameterRAND; p_ckNo : CiphKeySeqNum_tlv; p_auth : GMM_AUTN)		
Group:			
PDU Name:	AUTHENTICATIONANDCIPHERINGREQUEST		
Derivation Path:			
Encoding Rule Name:			
Encoding Variation:			
Comments:			
Field Name	Element Value	Type Encoding	Comments
skipIndicator	'0000'B		
gMMProtocolDiscriminator	tsc_GMM_PD		
msgType	'00010010'B		
imeisvReq	cb_IMEISV_Request('000'B)		IMEISV not requested
ciphAlgorithm	c_CiphAlgorithm(px_CipherAlg)		GPRS encryption algorithm WA#2G3RRC0418
acRefNo	c_AC_RefNum3		Use any reference value
forceToStandby	c_ForceToStandby('000'B)		Force to standby not indicated
authRand	p_rand		Authentication parameter RAND
gprsCiphKeySeqNo	p_ckNo		GPRS ciphering key sequence number
aUTN	p_auth		Authentication parameter AUTN, an UMTS challenge is requested

4.4.8 cs_RA_UpdAcc3

TTCN object	cs_RA_UpdAcc3
Reference ATS	IR_U_wk42.mp [2]
Change Label	WA#2G3RRC0417
Reason for change	The UE performs a cell update procedure if c_ForceToStandby('000'B) is applied and the Ready timer value has changed.
Summary of change	Change the value passed to c_ForceToStandby from '000'B to '001'B to avoid the cell update procedure.
Other affected objects	
ETSI comment	
R&S conclusion	

PDU Constraint Declaration

Constraint Name:	cs_RA_UpdAcc3(p_updateResult : UpdateResult_v; p_RAI : RAI_v; p_PTMSIsig : PTMSI_Signature; p_PTMSI : GMM_MS_IdentityPTMSI; p_TMSI : GMM_MS_Identity)
Group:	
PDU Name:	ROUTINGAREAUPDATEACCEPT
Derivation Path:	
Encoding Rule Name:	
Encoding Variation:	
Comments:	

Field Name	Element Value	Type Encoding	Comments
skipIndicator	'0000'B		
gmmProtocolDiscriminator	tsc_GMM_PD		
msgType	'00001001'B		@sic OLAF CR T1-031930 sic@
updateResult	p_updateResult		
forceToStandby	c_ForceToStandby('001'B)		Force to standby not indicated WA#2G3RRC0417
periodicRAupdateTimer	c_GPRS_Timer_v('010'B, '01001'B)		T3312 (default value 54 minutes or 9 decihours, see 3GPP 24.008 clause 11.2.2)
rai	p_RAI		
ptmsiSignature	p_PTMSIsig		
allocatedPTMSI	p_PTMSI		
msIdentity	p_TMSI		
listNPDUnumbers	-		
readyTimer	-		
gmmCause	-		
t3302Value	-		
cellNotification	-		
equivalentPLMN	-		
pDP_ContextStatus	-		

4.4.9 ts_DownlinkTBFEstablishment

TTCN object	ts_DownlinkTBFEstablishment
Reference ATS	IR_U_wk42.mp [2]
Change Label	WA#2G3RRC0420
Reason for change	G_CL1_ComingFN_REQ already gives a 5 seconds delay, so the attachment of ts_AddMillisecondsToRFN is not necessary.
Summary of change	Remove next line '+ts_AddMillisecondsToRFN'.
Other affected objects	
ETSI comment	
Change Label	WA#2G3RRC0426
Reason for change	In the first row of It_SendIA (ca_G_Paging_REQ) 'tcv_RFN2' is passed as a parameter for the starting time, but actually 'tcv_StartingTime' contains the right starting time (set in the same step with G_CL1_ComingFN_CNF).
Summary of change	Replace tcv_RFN2 by tcv_StartingTime.
Other affected objects	
ETSI comment	
R&S conclusion	

Test Step				
Test Step Id: ts_DownlinkTBFEstablishment(p_CellId : CellId; p_PhysicalChId : PhysicalChId; b_PBCCH : GPRSCellConfiguration)				
Test Step Group Ref: M_RAT_HO_GPRS_Specific/				
Objective:				
Defaults: IntersystemGPRS				
Comments:				
Nr	Behaviour Description	Constraint Ref		Comments
1	G_CRLC ! G_CRLC_DL_TBF_Config_REQ	ca_ActivateTBF_Downlink(p_CellId, p_PhysicalChId, tsc_RlcModeAck, tcv_USFRate)		
2	G_CRLC ? G_CRLC_DL_TBF_Config_CNF	ca_Activate_DL_TBF_CNF		
3	[b_PBCCH = pbccch]			
4	(tcv_M = (12 - BIT_TO_INT(tcv_PCCCHParams.bs_PAG_BLK_RES) - BIT_TO_INT(tcv_PCCCHParams.bs_PBCCH_BLK_RES))*64)			for PCCCH
5	G_RLC ! G_RLC_ControlMsg_REQ	cas_G_RLC_ControlMsg_REQ_Paging(p_CellId, p_PhysicalChId, tsc_downlinkTFI, '1'B, px_IMSI_Def, 1, tcv_M, 1, 0, tcv_SplitPGCycle.splitPGcycleCode, c_PacketDownlinkAssignment(tcv_TLLI, tsc_downlinkTFI, tcv_Gamma))		p_KC_Conf = 1 - only one GPRS physical channel, N = 1 for PCCCH Request PCA
6	G_RLC ? G_RLC_ControlMsg_IND	car_G_RLC_ControlMsg_IND(p_CellId, p_PhysicalChId, cr_PacketControlAcknowledgement)		
7	[b_PBCCH = bcch]			
8	G_CL1 ! G_CL1_ComingFN_REQ	c_G_CL1_ComingFN_REQ(p_CellId, tsc_PhyCh0, tsc_AGCH)		
9	G_CL1 ? G_CL1_ComingFN_CNF (tcv_StartingTime := G_CL1_ComingFN_CNF.rfn)	c_G_CL1_ComingFN_CNF		WA#2G3RRC0420
10	[(tcv_SplitPGCycle.splitPGcycleCode = '00000000'B) OR (tcv_SplitPGCycle.splitPGcycleCode = '0'B)]			
11	(tcv_K := o_PagingGroupCalculate(px_IMSI_Def, tcv_G_CellConfigInfo.cCCH_CONF, tsc_G_NumberOfPagingBlocks))			use calculation in clause 6.5.2
12	+It_SendIA			
13	[TRUE]			use calculation in 6.5.6
14	(tcv_M = (3 - BIT_TO_INT(tcv_G_CellConfigInfo.bs_AG_BLK_RES))*64)			for CCH/SDCCH combined
15	(tcv_K := o_PacketPagingGroupCalculate(px_IMSI_Def, BIT_TO_INT(tcv_G_CellConfigInfo.cCCH_CONF), tcv_M, (3 - BIT_TO_INT(tcv_G_CellConfigInfo.bs_AG_BLK_RES))*BIT_TO_INT(tcv_G_CellConfigInfo.bs_PA_MFRMS), tcv_SplitPGCycle.splitPGcycleCode))			for CCH/SDCCH combined
16	+It_SendIA			
It_SendIA				
17	G_L2 ! G_L2_Paging_REQ	ca_G_Paging_REQ (p_CellId , tcv_K, cs_P_ImmediateAssignment ('1'B, tcv_ARFCN , 0, c_RFN_0, c_IARO_PDA(tcv_TLLI , tcv_Gamma, o_BitstringConcat(o_BitstringConcat(tcv_StartingTime.t1 , tcv_StartingTime.t3, 5, 6), tcv_StartingTime.t2, 11, 5))))		Send immediate assignment message in slot corresponding to appropriate CCH or PCCCH group Include Starting Time of FN just calculated, request PCA WA#2G3RRC0426

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4.4.10 ts_GMM_SwitchOff_AfterPSRejection

TTCN object	ts_GMM_SwitchOff_AfterPSRejection
Reference ATS	IR_U_wk42.mp [2]
Change Label	WA#2G3RRC0391
Reason for change	ts_MM_IMSI_Detach has an additional formal parameter 'p_RRC_Rel_Status'.
Summary of change	Attach ts_MM_IMSI_Detach with value 'cell_Dch' for formal parameter p_RRC_Rel_Status. Note: This has been previously rejected by ETSI (because it does not directly affect tc_12_8). But it does affect other test cases, e.g. tc_6_2_1_1, and indirectly affects tc_12_8 by the common use of this test step).
Other affected objects	ts_MM_IMSI_Detach
ETSI comment	
R&S conclusion	

Test Step	
Test Step Id:	ts_GMM_SwitchOff_AfterPSRejection (p_CellId : INTEGER; p_attFlag : INTEGER)
Test Step Group Ref:	L3M_MM_GMM_Steps/
Objective:	
Defaults:	NAS_OtherwiseFail
Comments:	Perform switch off, assuming PS registration has been rejected. @sic EW T1 s040076 sic@

...	...	Behaviour Description	Constraint Ref	...	Comments
1		+ts_NAS_Delay(5000)			Wait 5s before switching off (e.g. in case ATT flag has been previously changed) to allow UE to re-read new SysInfos
2		[p_attFlag = tsc_AttOff]			ATT flag is OFF
3		[pc_SwitchOnOff]			UE can be switched off
4		+ts_MMI_UE_SwitchOff			turn UE off
5		[TRUE]			otherwise
6		+ts_MMI_UE_PwrOff			power off the UE
7		[TRUE]			ATT flag is ON
8		+ ts_MM_IMSI_Detach (p_CellId , FALSE , cell_Dch)			Switch Off, and perform IMSI detach WA#2G3RRC0391

4.4.11 ts_MM_IMSI_Detach

TTCN object	ts_MM_IMSI_Detach
Reference ATS	IR_U_wk42.mp [2]
Change Label	WA#2G3RRC0391
Reason for change	<p>The release status value passed to ts_RRC_ConnRel in ts_MM_IMSI_Detach is fixed value 'cell_Dch', but in some cases other values are required.</p> <p>Note 1: The necessity for other release status values, e.g. cell_Fach_Dcch, has been detected with the verification of other test cases (e.g. tc_6_2_1_1/ts_DetachOnSwitchOff).</p> <p>This change has been previously rejected by ETSI (because it does not directly affect tc_12_8). But it does affect other test cases, and indirectly affects tc_12_8 by the common use of this test step). Therefore the request to correct this test step remains valid.</p>
Summary of change	Add new formal parameter 'p_RRC_Rel_Status' to 'ts_MM_IMSI_Detach'. Pass 'p_RRC_Rel_Status' to 'ts_RRC_ConnRel' instead of 'cell_Dch'.
Other affected objects	ts_GMM_SwitchOff_AfterPSRejection
ETSI comment	
R&S conclusion	

Test Step	
Test Step Id:	ts_MM_IMSI_Detach (p_CellId: INTEGER; p_USIM_Rmvd : BOOLEAN; p_RRC_Rel_Status : RRC_Rel_Status)
Test Step Group Ref:	L3M_MM_GMM_Steps/
Objective:	Force the UE to execute the IMSI Detach procedure
Defaults:	NAS_OtherwiseFail
Comments:	To achieve this, deactivate the UE depending upon its properties (USIM removal, switching off or powering off). WA#2G3RRC0391

Nr	Lab...	Behaviour Description	Constraint Ref	V...	Comments
1		[(p_USIM_Rmvd) AND (pc_USIM_Rmv) AND (pc_DetachOnUSIM_Rmv)]			USIM needs to be removed.
2		+ts_MMI_USIM_Remove			remove USIM card
3		+it_IMSI_Detach			
4		[pc_SwitchOnOff]			
5		+ts_MMI_UE_SwitchOff			switch off the UE
6		+it_IMSI_Detach			
7		[pc_DetachOnPwrDn]			
8		+ts_MMI_UE_PwrOff			power off the UE
9		+it_IMSI_Detach			
10		[(((NOT p_USIM_Rmvd) OR (NOT pc_USIM_Rmv) OR (NOT pc_DetachOnUSIM_Rmv)) AND (NOT pc_SwitchOnOff) AND (NOT pc_DetachOnPwrDn))]			
11		+ts_MMI_UE_PwrOff			power off the UE
it_IMSI_Detach					
12		+ts_RRC_ConnEst (p_CellId, est_MO, detach)			Connection Establishment MO
13	TSP1	Dc?RRC_DataInd (tcv_Start := RRC_DataInd.start)	car_InitDirectTransfer (tsc_CellDedicated, tsc_RB3, c_IMSI_DetachInd)	(P)	
14		+ ts_SS_SecurityDownloadStart (cs_domain, tcv_Start)			
15		+ts_RRC_ConnRel(p_CellId, p_RRC_Rel_Status)			Connection Release WA#2G3RRC0391
16		+ ts_RRC_ConnRejectGMM_Detach (p_CellId)			

4.4.12 ts_SendGSMSysInfo

TTCN object	ts_SendGSMSysInfo
Reference ATS	IR_U_wk42.mp [2]
Change Label	WA#2G3RRC0444
Reason for change	In ts_SendGSMSysInfo:It_SendOthers GSMSysInfo2quater is not actually in branch [b_GPRS = gsmonly].
Summary of change	Add a line sending GSMSysInfo2quater in this branch.
Other affected objects	
ETSI comment	
R&S conclusion	

Test Step		
Test Step Id:	ts_SendGSMSysInfo(p_CellId: INTEGER, p_PhyCh: PhysicalChid, b_GPRS: GSM_GPRSConfiguration, b_PBCCH: GPRSCellConfiguration, b_SI2quater: SI2quaterConfiguration)	
Test Step Group Ref:	M_RAT_HO_SysInfoBroadcastGSM/	
Objective:		
Defaults:	IntersystemDef	
Comments:		
Nr	Behaviour Description	Comments
1	+ts_G_SetTmpCellConfigInfo (p_CellId)	
2	+ts_SendSysInfoType1 (p_CellId, p_PhyCh)	
3	+ts_SendSysInfoType2 (p_CellId, p_PhyCh)	
4	+It_SendOthers	SI2 Quarter giving 3G neighbour cell information
5	[(px_GSM_BandUnderTest = tsc_GSM_P_900Band_Test) OR (px_GSM_BandUnderTest = tsc_GSM_E_900Band_Test)]	
6	+ts_SendSysInfoType2bis(p_CellId, p_PhyCh, 0)	Send a SI2bis if PGSM or EGSM only
7	[TRUE]	
It_SendOthers		
8	[b_GPRS = gprs]	
9	+ts_SendSysInfoType4 (p_CellId, p_PhyCh, c_SI4_RO_GPRS)	
10	+It_SendSI13	
11	[b_SI2quater = si2quater]	
12	+ts_SendSysInfoType3 (p_CellId, p_PhyCh, c_SI3RO_GPRS_SI2quater)	
13	+ts_SendSysInfoType2quater(p_CellId, p_PhyCh, 0, tcv_SI2quaterRO)	SI2 Quarter giving 3G neighbour cell information @ sic ER1994 sic@
14	[b_SI2quater = nosi2quater]	
15	+ts_SendSysInfoType3 (p_CellId, p_PhyCh, c_SI3_RO_GPRS)	
16	[b_GPRS = gsmonly]	
17	+ts_SendSysInfoType4 (p_CellId, p_PhyCh, c_SI4_RO_Spare)	
18	[b_SI2quater = si2quater]	
19	+ts_SendSysInfoType3 (p_CellId, p_PhyCh, c_SI3_RO_SI2quater('0B'))	no GPRS, only SI2quater
20	+ts_SendSysInfoType2quater(p_CellId, p_PhyCh, 0, tcv_SI2quaterRO)	SI2quater giving 3G neighbour cell information @ sic ER1994 sic@
21	[b_SI2quater = si2ter]	@sic T1s040275 sic@
22	+ts_SendSysInfoType3 (p_CellId, p_PhyCh, c_SI3_RO_SI2ter)	SI2ter giving neighbour cell info (SI2ter sent outside of this test step)
23	[b_SI2quater = si2terand2quater]	@sic T1s040275 sic@
24	+ts_SendSysInfoType3 (p_CellId, p_PhyCh, c_SI3_RO_SI2quater('1B'))	SI2ter and SI2quater giving neighbour cell info (SI2ter sent outside of this test step)
25	+ts_SendSysInfoType2quater(p_CellId, p_PhyCh, 0, tcv_SI2quaterRO)	SI2quater giving 3G neighbour cell information WA #2G3RRC0444
26	[b_SI2quater = nosi2quater]	
27	+ts_SendSysInfoType3 (p_CellId, p_PhyCh, c_SI3_RO_Spare)	nothing

4.5 Changes referred to from previous CRs

N/A

5 Branches executed in test case 12.8

The test case was executed for the GSM 900 band in CSPS Mode, automatic attach switched on, with Integrity activated and Ciphering disabled. The execution came to a PASS.

6 Supplementary information

6.1 ATS

The TTCN ATS containing modified test case tc_12_8 is IR_U_12_8.mp.

6.2 Nokia 6630 log files

The Nokia 6630 passed this test case in Combined Attach (CSPS) mode, automatic attach switched on, on the Rohde & Schwarz 3G System Simulators CRTU-W and CRTU-G, for the 900 MHz band. The documentation below is enclosed as evidence of the successful test case run (see T1s040616 [1]):

- a) **Execution log files 12-8-Nokia-CSPS-AAON-900-PASS-html-logs\Index.html**
This execution log files in HTML format show the dynamic behaviour of the testis Combined Attach (CSPS) branch, automatic attach switched on, executed for the 900 MHz band, in a tabular view and in message sequence chart (MSC) view. All message contents are fully decoded and listed in hexadecimal format. Preliminary verdicts and the final test case verdict are listed in the log file.
- b) **PICS/PIXIT file TC_12_8_Nokia_CSPS_AutoAttachOn_900_Pics_Pixit.txt**
Text file containing all PICS/PIXIT parameters used for a).

7 References

[1]	T1s040616.zip Archive comprising the TTCN MP file for the current CR (supplementary information).
[2]	IR_U_wk42.mp ETSI InterRat UTRAN ATS, version week 42 (2004).

Annex A: List of change labels and affected TTCN objects

The following Table 2 lists all change labels being described in this document, together with the related affected TTCN objects, and the Reference ATS to which the change description applies. When no Reference ATS is present, the object is a new definition.

Table 2: List of change labels and related affected TTCN Objects and reference ATS

Change Labels	Affected TTCN Objects	Ref. ATS
WA#2G3RRC0305	cr_RA_UpdReqP_TMSI	IR_U_wk42.mp [2]
WA#2G3RRC0309	cr_RA_UpdReqP_TMSI	IR_U_wk42.mp [2]
WA#2G3RRC0351	cr_RA_UpdReqP_TMSI	IR_U_wk42.mp [2]
WA#2G3RRC0387	cr_DetachReq	IR_U_wk42.mp [2]
WA#2G3RRC0391	ts_MM_IMSI_Detach	IR_U_wk42.mp [2]
WA#2G3RRC0391	ts_GMM_SwitchOff_AfterPSRejection	IR_U_wk42.mp [2]
WA#2G3RRC0415	c_PktDownlinkAss_IARO	IR_U_wk42.mp [2]
WA#2G3RRC0416	car_G_RLC_ControlMsg_IND	IR_U_wk42.mp [2]
WA#2G3RRC0417	cs_RA_UpdAcc3	IR_U_wk42.mp [2]
WA#2G3RRC0418	cs_AuthAndCiphReq	IR_U_wk42.mp [2]
WA#2G3RRC0419	tc_12_8	IR_U_wk42.mp [2]
WA#2G3RRC0420	ts_DownlinkTBFEstablishment	IR_U_wk42.mp [2]
WA#2G3RRC0426	ts_DownlinkTBFEstablishment	IR_U_wk42.mp [2]
WA#2G3RRC0432	tsc_AttenuationSuitableNeighbourCell	IR_U_wk42.mp [2]
WA#2G3RRC0444	ts_SendGSMSysInfo	IR_U_wk42.mp [2]
WA#2G3RRC0444	ts_SendGSMSysInfo	IR_U_wk42.mp [2]
WA#2G3RRC0445	c_G_CellConfigInfoGSM900_CellA	IR_U_wk42.mp [2]
WA#2G3RRC0445	c_G_CellConfigInfoGSM900_CellA	IR_U_wk42.mp [2]
WA#2G3RRC0451	tc_12_8	IR_U_wk42.mp [2]

CHANGE REQUEST

34.123-3 CR 1059 # rev - # Current version: **3.7.0**

For **HELP** on using this form, see bottom of this page or look at the pop-up text over the # symbols.

Proposed change affects: UICC apps# ME Radio Access Network Core Network

Title:	# Addition of P4 test case 8.3.11.1 to IR_U ATS v3.7.0, (Revision of T1s040633).		
Source:	# Racal Instruments Wireless Solutions, an Aeroflex Company		
Work item code:	# TEI	Date:	# 27/10/04
Category:	# B	Release:	# R99
	Use <u>one</u> of the following categories:		Use <u>one</u> of the following releases:
	F (correction)		2 (GSM Phase 2)
	A (corresponds to a correction in an earlier release)		R96 (Release 1996)
	B (addition of feature),		R97 (Release 1997)
	C (functional modification of feature)		R98 (Release 1998)
	D (editorial modification)		R99 (Release 1999)
	Detailed explanations of the above categories can be found in 3GPP TR 21.900 .		Rel-4 (Release 4)
			Rel-5 (Release 5)
			Rel-6 (Release 6)

Reason for change:	# To add verified GCF Package 4 test case 8.3.11.1 to the approved ATS v3.7.0		
Summary of change:	# This document lists all changes applied to test case 8.3.11.1 required for approval.		
Consequences if not approved:	# Test case will not be added to ATS		

Clauses affected:	# 8.3.11.1						
Other specs affected:	<table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td style="width: 20px; text-align: center;">Y</td> <td style="width: 20px; text-align: center;">N</td> </tr> <tr> <td style="text-align: center;">#</td> <td style="text-align: center;">X</td> </tr> </table> Other core specifications	Y	N	#	X	#	34.123-3
Y	N						
#	X						
	<table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td style="text-align: center;">X</td> <td style="text-align: center;">#</td> </tr> </table> Test specifications	X	#				
X	#						
	<table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td style="text-align: center;">#</td> <td style="text-align: center;">X</td> </tr> </table> O&M Specifications	#	X				
#	X						
Other comments:	# No impact on 34.123-1.						

How to create CRs using this form:

Comprehensive information and tips about how to create CRs can be found at <http://www.3gpp.org/specs/CR.htm>. Below is a brief summary:

- 1) Fill out the above form. The symbols above marked # contain pop-up help information about the field that they are closest to.
- 2) Obtain the latest version for the release of the specification to which the change is proposed. Use the MS Word "revision marks" feature (also known as "track changes") when making the changes. All 3GPP specifications can be downloaded from the 3GPP server under <ftp://ftp.3gpp.org/specs/> For the latest version, look for the directory name

with the latest date e.g. 2001-03 contains the specifications resulting from the March 2001 TSG meetings.

- 3) With "track changes" disabled, paste the entire CR form (use CTRL-A to select it) into the specification just in front of the clause containing the first piece of changed text. Delete those parts of the specification which are not relevant to the change request.

Title: Changes to test case 8.3.11.1 required for approval
Source: Racal Instruments Wireless Solutions
Document for: Approval
Contact: **Kundan Sehmbey**
kundan.sehmbey@aeroflex.com
Tel. +44 1628 610639

1 Overview

This document gives details of the changes made to TTCN implementation for test case 8.3.11.1, which is part of IR_U test suite. Minimum changes are made so that it can be executed with one or more 3G UE.

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3 Verification Test Summary

Test Case: tc_8_3_11_1
Test Group: IR_U/ CellChangeOrderUTRAN_ToGSM/
ATS Version: IR_U_wk42 + modifications
System Simulator used: Racal Instruments Wireless Solution 6401 AIME/CT
UE used: Nokia 3G UE 7600
Verification Status: PASS

4 Corrections required for test case 8.3.11.1

4.1 Introduction

This documents lists the changes made to test case 8_3_11_1 to make it work with 3G UE. The changes made are given a change label and are explained in the following session.

4.2 Presentation of the modifications

The changes done are described below in tables, and are also supported by **screenshots** taken from the relevant parts of changed TTCN objects in TTCN.GR format.

The tables used in the following session is described below with an example below

Table 1: Example Change Table

TTCN object	<i>tc_8_3_11_1</i>
Reference ATS	<i>IR_U_wk42.mp</i>
Change Label	<i>RACAL#IR_U0150</i>
Reason for change	<i><Textual description of change reason>.</i>
Summary of change	<i><Textual description of performed changes></i>
Other affected objects	<i>< other fields affected> (optional)</i>
ETSI comment	
Racal conclusion	

TTCN object: Identifier(s) of one or more TTCN objects having a global context in the TTCN ATS. Typically only one TTCN object occurs. More than one object is listed only, when:

- All objects belong to the same TTCN Object Class; and
- All objects are either created, or are modified in the same systematic way; and
- No other change is proposed for the listed objects.

Reference ATS:	ETSI ATS containing the referred TTCN object(s), relative to which the current change description applies.
Change Label:	Textual identifier starting with the fixed string <i>@RACAL#IR_Ui</i> , followed by a 4-digit number (e.g. <i>RACAL#IR_U 0150</i>). A Change Label is assigned when a particular problem is recognized during the verification work. More than one TTCN Object may be affected by the proposed solution to this problem.
Reason for change:	Textual description of the reason why the change is proposed.
Summary of change:	Short description of what is proposed for change.
Other affected objects:	List of one or more fields, pointing to other TTCN objects having assigned the same Change Label, i.e. all other objects being affected by the problem-giving rise to the current Change Label.
ETSI comment:	ETSI colleagues giving a dedicated reply to the current CR document may use this field.
RACAL conclusion:	Filled by the Racal Instruments Wireless Solution when ETSI answer does not indicate acceptance of the change request.

4.3 Modifications

Works fine without any modification

4.4 Changes referred to from previous CRs

N/A

5 Branches executed in test case 8.3.11.1

Test case was executed with pc_PS set to TRUE and pc_GPRS set to TRUE.

6 Execution Log Files

The Nokia 3G UE 7600 passed this test case in PS mode on the Racal Instrument Wireless Solution 6401 AIME/CT. Log of the successful test case execution is enclosed in T1s040685.zip [1]

7 References

[1]	T1s040685.zip Attachment containing the Successful log for <i>tc_8_3_11_1</i> .
-----	--

[2]	<i>IR_U_wk42.mp</i> ETSI IR_U ATS version of week 47.
-----	--

CR-Form-v7	CHANGE REQUEST
# 34.123-3 CR 1060 # rev - # Current version: 3.7.0 #	

For **HELP** on using this form, see bottom of this page or look at the pop-up text over the # symbols.

Proposed change affects: UICC apps ME Radio Access Network Core Network

Title:	# Addition of GCF P4 test cases 8.1.7.1c to RRC ATS v3.7.0		
Source:	# Anite		
Work item code:	# N/A	Date:	# 22/10/04
Category:	# B	Release:	# R99
	Use <u>one</u> of the following categories:		Use <u>one</u> of the following releases:
	F (correction)		2 (GSM Phase 2)
	A (corresponds to a correction in an earlier release)		R96 (Release 1996)
	B (addition of feature),		R97 (Release 1997)
	C (functional modification of feature)		R98 (Release 1998)
	D (editorial modification)		R99 (Release 1999)
	Detailed explanations of the above categories can be found in 3GPP TR 21.900 .		Rel-4 (Release 4)
			Rel-5 (Release 5)
			Rel-6 (Release 6)

Reason for change:	# To add verified GCF package 4 RRC test cases 8.1.7.1c to the approved RRC ATS V3.7.0
Summary of change:	# This document lists all changes applied to test cases 8.1.7.1c required for approval. See detailed change description for further information.
Consequences if not approved:	# Test case will not be added to ATS

Clauses affected:	#										
Other specs affected:	<table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td style="padding: 2px 5px;">Y</td> <td style="padding: 2px 5px;">N</td> </tr> <tr> <td style="padding: 2px 5px;"><input type="checkbox"/></td> <td style="padding: 2px 5px;"><input checked="" type="checkbox"/></td> </tr> <tr> <td style="padding: 2px 5px;"><input type="checkbox"/></td> <td style="padding: 2px 5px;"><input type="checkbox"/></td> </tr> <tr> <td style="padding: 2px 5px;"><input type="checkbox"/></td> <td style="padding: 2px 5px;"><input checked="" type="checkbox"/></td> </tr> </table>	Y	N	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Other core specifications	#
	Y	N									
	<input type="checkbox"/>	<input checked="" type="checkbox"/>									
<input type="checkbox"/>	<input type="checkbox"/>										
<input type="checkbox"/>	<input checked="" type="checkbox"/>										
		O&M Specifications	#								
Other comments:	#										

How to create CRs using this form:

Comprehensive information and tips about how to create CRs can be found at <http://www.3gpp.org/specs/CR.htm>. Below is a brief summary:

- 1) Fill out the above form. The symbols above marked # contain pop-up help information about the field that they are closest to.
- 2) Obtain the latest version for the release of the specification to which the change is proposed. Use the MS Word "revision marks" feature (also known as "track changes") when making the changes. All 3GPP specifications can be downloaded from the 3GPP server under <ftp://ftp.3gpp.org/specs/> For the latest version, look for the directory name with the latest date e.g. 2001-03 contains the specifications resulting from the March 2001 TSG meetings.

- 3) With "track changes" disabled, paste the entire CR form (use CTRL-A to select it) into the specification just in front of the clause containing the first piece of changed text. Delete those parts of the specification which are not relevant to the change request.

Title: Changes to test cases 8.1.7.1c required for approval
Source: Anite
Agenda Item: TTCN Issues
Document for: Approval
Contact: Philip Rose
phil.rose@anite.com
Tel. +44 1252 775200

1 Overview

This document lists all the changes needed to correct problems in the TTCN implementation of test case cases 8.1.7.1c, which are part of the RRC test suite. Only essential changes to the TTCN are applied and documented in section 4.

With these changes applied the test case can be demonstrated to run with one or more 3G UEs (see section 6). Execution log files are provided as evidence.

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3 Verification Test Summary

Test Case: tc_8_1_7_1c
Test Group: Security Mode Control
ATS Version: iWD-TVB2003-03_D04wk42 + essential Modifications
System Simulator used: Anite CT
UE used: Nokia 6630 and Motorola A835
Verification Status: PASS

4 Corrections required for test cases 8.1.7.1c

4.1 Introduction

This section describes the changes required to make test cases 8.1.7.1c run correctly with a 3G UE. The ATS version used as basis was RRC_wk42.mp, which is part of the iWD-TVB2003-03_D04wk42 release.

4.2 Change 1

Test step	ts_SS_DownloadSecurityKey
Reason for change	In test step ts_SS_DownloadSecurityKey, cell states, cell_Two_DTCH_CS_PS_Init, cell_Four_DTCH_CS_PS_Init, cell_Two_DTCH_CS_PS, cell_Four_DTCH_CS_PS are not checked while downloading the security configuration.
Summary of change	Test step ts_SS_DownloadSecurityKey is modified to check the above mentioned cell states also.
Source of change	New change

Before:

6		+ It_DownloadKeyCRLC (tcv_HFN , p_KC, p_IK)	
7		[(tcv_TmpCellInfo.cellConfig = cell_DCH_Speech) OR (tcv_TmpCellInfo.cellConfig = cell_DCH_64kCS_RAB_SRB) OR (tcv_TmpCellInfo.cellConfig = cell_DCH_57_6kCS_RAB_SRB)]	cell DCH with TM RAB
8		+ It_DownloadKeyCRLC (tcv_HFN , p_KC, p_IK)	
9		+ It_DownloadKeyCMAC (tcv_HFN , p_KC)	
10		[TRUE]	
11		[NOT px_CipheringOnOff]	

After:

6		+ It_DownloadKeyCRLC (tcv_HFN , p_KC, p_IK)	
7		[(tcv_TmpCellInfo.cellConfig = cell_DCH_Speech) OR (tcv_TmpCellInfo.cellConfig = cell_DCH_64kCS_RAB_SRB) OR (tcv_TmpCellInfo.cellConfig = cell_DCH_57_6kCS_RAB_SRB) OR (tcv_TmpCellInfo.cellConfig = cell_Two_DTCH_CS_PS_Init) OR (tcv_TmpCellInfo.cellConfig = cell_Four_DTCH_CS_PS_Init) OR (tcv_TmpCellInfo.cellConfig = cell_Four_DTCH_CS_PS) OR (tcv_TmpCellInfo.cellConfig = cell_Two_DTCH_CS_PS)]	cell DCH with TM RAB
8		+ It_DownloadKeyCRLC (tcv_HFN , p_KC, p_IK)	
9		+ It_DownloadKeyCMAC (tcv_HFN , p_KC)	
10		[TRUE]	
11		[NOT px_CipheringOnOff]	

4.3 Change 2

Test step	tc_8_1_7_1, local test step It_InitSecurityVariables
Reason for change	The domain in It_InitSecurityVariables should be set to PS domain.
Summary of change	Test step It_InitSecurityVariables, is modified to set the domain to PS domain.
Source of change	New change

Before:

It_InitSecurityVariables				
38		(tcv_CellIndInfo.dL_CipherMode := cs_CipheringModeCmdOn (uea1), tcv_CellIndInfo.ps_cipheringStarted := TRUE, tcv_CellIndInfo.recentSec ureDomain := ps_domain, tcv_CellIndInfo.cipheringAlgorithmC apability := '000000000000011'B, t cv_CellIndInfo.start_PS := '0000000 0000000000000'B)		Switch On ciphering
39		(tcv_HFN := '000000000000000000 00'B)		
40		+ ts_InitSystemSpecificCap		@sic RASH T1-031470 s ic@
41		[tcv_CellIndInfo.integrityStarted]		
42		+ts_GetRRC_MessageSN (tsc_C ellIA)		
43		(tcv_CellIndInfo.dL_Integrity := cs _IntegrityProtectModify_P(tcv_RRC_ MSN_RB0 , tcv_RRC_MSN_RB1 , 0 , tcv_RRC_MSN_RB3, tcv_RRC_MS N_RB4) , tcv_Int_ModifyFlag := TRU E)		Modify integrity
44		CRLC ! CRLC_SetRRC_Messag eSN_REQ	ca_DL_CRLC_SetRRC_MS N_REQ(tsc_CellDedicated, tsc_RB2, 0)	SET on SS the RRC MSQ N for RB2 as 0

After:

It_InitSecurityVariables				
49		(tcv_CN_Domain := ps_domain)		
50		(tcv_CellIndInfo.dL_CipherMode := cs_CipheringModeCmdOn (uea1), tcv_CellIndInfo.ps_cipheringStarted := TRUE, tcv_CellIndInfo.recentSec ureDomain := ps_domain, tcv_CellIndInfo.cipheringAlgorithmC apability := '000000000000011'B, t cv_CellIndInfo.start_PS := '0000000 0000000000000'B)		Switch On ciphering
51		(tcv_HFN := '000000000000000000 000'B)		
52		+ ts_InitSystemSpecificCap		@sic RASH T1-031470 s ic@
53		[tcv_CellIndInfo.integrityStarted]		
54		+ts_GetRRC_MessageSN (tsc_C ellIA)		
55		(tcv_CellIndInfo.dL_Integrity := c s_IntegrityProtectModify_P(tcv_RRC _MSN_RB0 , tcv_RRC_MSN_RB1 , tcv_RRC_MSN_RB2, tcv_RRC_MSN _RB3, tcv_RRC_MSN_RB4) , tcv_Int _ModifyFlag := TRUE)		Modify integrity

4.4 Change 3

Test step	ts_CRLC_ResumeSecurity
Reason for change	ts_CRLC_ResumeSecurity resumes the SRB which were not stopped.
Summary of change	ts_CRLC_ResumeSecurity is modified so that only the SRB which were stopped are resumed.
Source of change	New change

Before:

6		CRLC ! CRLC_Resume_REQ	cas_ResumeRB(tsc_CellDedicat ed , tsc_RB4)		
7		CRLC ? CRLC_Resume_CNF (tcv_RB_SigResumed = TRUE)	car_ResumeRB(tsc_CellDedicat ed , tsc_RB4)		
8		[(tcv_TmpCellInfo.cellConfig = cell_DCH_64kPS_RAB_S RB) OR (tcv_TmpCellInfo.cellConfig = cell_PDCP_AM_RAB) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_PS) OR ((tcv_TmpCellInfo.cellConfig = cell_Two_DTCH_PS_CS) AN D (tcv_CellIndInfo. recentSecureDomain = ps_domain)) OR ((tcv_TmpCellInfo.cellConfig = cell_Four_DTCH_PS_CS) AND (tcv_CellIndInfo. recentSecureDomain = ps_domain)) OR ((tcv_TmpCellInfo.cellConfig = cell_Two_DTCH_CS_PS) AND (t cv_CellIndInfo. recentSecureDomain = ps_domain)) OR ((tcv_TmpCellInfo.cellConfig = cell_Four_DTCH_CS_PS) AND (tcv v_CellIndInfo. recentSecureDomain = ps_domain)) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_2SCCPCH_StandA lonePCH_PS) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_4_FAC H_Cnfg1)) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_4_FAC H_Cnfg2)) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_3_FA CH_CTCH)) OR (tcv_TmpCellInfo.cellConfig = cell_DCH_DSCH_PS) OR (tcv_TmpCellInfo.cellConfig = cell_DCH_DSCH_CS_PS)]			
9		CRLC ! CRLC_Resume_REQ	cas_ResumeRB(tsc_CellDedicat ed , tsc_RB20)		
10		CRLC ? CRLC_Resume_CNF	car_ResumeRB(tsc_CellDedicat ed , tsc_RB20)		

After:

6		CRLC ! CRLC_Resume_REQ	cas_ResumeRB(tsc_CellID edicated , tsc_RB4)	
7		CRLC ? CRLC_Resume_CNF (tcv_RB_SigResumed := TRUE)	car_ResumeRB(tsc_CellID edicated , tsc_RB4)	
8		[((tcv_TmpCellInfo.cellConfig = cell_DCH_64kPS_RAB_SRB) OR (tcv_TmpCellInfo.cellConfig = cell_PDCP_AM_RAB) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_PS) OR (tcv_TmpCellInfo.cellConfig = cell_Two_DTCH_PS_CS) OR (tcv_TmpCellInfo.cellConfig = cell_Four_DTCH_PS_CS) OR (tcv_TmpCellInfo.cellConfig = cell_Two_DTCH_CS_PS) OR (tcv_TmpCellInfo.cellConfig = cell_Four_DTCH_CS_PS) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_2SCCPCH_StandAlonePCH_PS) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCPCH_4_FACH_Cnfg1) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCPCH_4_FACH_Cnfg2) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCPCH_3_FACH_CTCH) OR (tcv_TmpCellInfo.cellConfig = cell_DCH_DSCH_PS) OR (tcv_TmpCellInfo.cellConfig = cell_DCH_DSCH_CS_PS)) AND (tcv_CellIndInfo.recentSecureDomain = ps_domain)]		
9		CRLC ! CRLC_Resume_REQ	cas_ResumeRB(tsc_CellID edicated , tsc_RB20)	
10		CRLC ? CRLC_Resume_CNF	car_ResumeRB(tsc_CellID edicated , tsc_RB20)	
11		[tcv_TmpCellInfo.cellConfig = cell_PDCP_MM_RAB]		

4.5 Change 4

Test step	ts_RRC_ReceiveRB_SetupCmpl
Reason for change	ts_RRC_ReceiveRB_SetupCmpl does not check for RAB type cell_Four_DTCH_CS_PS
Summary of change	ts_RRC_ReceiveRB_SetupCmpl is modified so that RAB type cell_Four_DTCH_CS_PS is also checked for.
Source of change	New change

Before:

Test Step					
Test Step Id:	ts_RRC_ReceiveRB_SetupCmpl (p_CellId : INTEGER; p_RbType: RB_ConfigType)				
Test Step Group Ref:	BasicM_RRC_Steps/				
Objective:	To receive RADIO BEARER SETUP COMPLETE message and reconfigure SS according to the received information element values.				
Defaults:	RRC_Def1				
Comments:					
Nr	Label	Behaviour Description	Constraint Ref	Ver...	Comments
1		+ ts_SetTmpCellInfo (p_CellId)			
2		START t_WaitMS			
3		[(p_RbType = cell_DCH_Speech) OR (p_RbType = cell_DCH_64kCS_RAB_SRB) OR (p_RbType = cell_DCH_57_6kCS_RAB_SRB) OR (p_RbType = cell_Two_DTCH) OR (p_RbType = cell_Four_DTCH_CS) OR ((p_RbType = cell_Two_DTCH_PS_CS) AND (tcv_CN_Domain = cs_domain)) OR ((p_RbType = cell_Four_DTCH_PS_CS) AND (tcv_CN_Domain = cs_domain)) OR ((p_RbType = cell_DCH_DSCH_CS_PS) AND (tcv_CN_Domain = cs_domain))]			TM RAB
4		[(tcv_CellIndInfo.cs_cipheringStarted = TRUE) AND (tcv_CellIndInfo.recentSecureDomain = cs_domain)]			
5		+ It_CipheringStartedTM_RAB			
6		[tcv_CellIndInfo.cs_cipheringStarted = FALSE]			
7		+ It_CipheringNotStartedTM_RAB			

After:

Test Step					
Test Step Id:	ts_RRC_ReceiveRB_SetupCmpl (p_CellId : INTEGER; p_RbType: RB_ConfigType)				
Test Step Group Ref:	BasicM_RRC_Steps/				
Objective:	To receive RADIO BEARER SETUP COMPLETE message and reconfigure SS according to the received information element values.				
Defaults:	RRC_Def1				
Comments:					
Nr	Label	Behaviour Description	Constraint Ref	Verdict	Comments
1		+ ts_SetTmpCellInfo (p_CellId)			
2		START t_WaitMS			
3		[(p_RbType = cell_DCH_Speech) OR (p_RbType = cell_DCH_64kCS_RAB_SRB) OR (p_RbType = cell_DCH_57_6kCS_RAB_SRB) OR (p_RbType = cell_Two_DTCH) OR (p_RbType = cell_Four_DTCH_CS) OR ((p_RbType = cell_Two_DTCH_PS_CS) AND (tcv_CN_Domain = cs_domain)) OR ((p_RbType = cell_Four_DTCH_PS_CS) AND (tcv_CN_Domain = cs_domain)) OR ((p_RbType = cell_Four_DTCH_CS_PS) AND (tcv_CN_Domain = cs_domain)) OR ((p_RbType = cell_DCH_DSCH_CS_PS) AND (tcv_CN_Domain = cs_domain))]			TM RAB
4		[(tcv_CellIndInfo.cs_cipheringStarted = TRUE) AND (tcv_CellIndInfo.recentSecureDomain = cs_domain)]			
5		+ It_CipheringStartedTM_RAB			
6		[tcv_CellIndInfo.cs_cipheringStarted = FALSE]			
7		+ It_CipheringNotStartedTM_RAB			

4.6 Change 5

Test step	Test step It_InitSecurityVariables and It_SS_ValidSecurity
Reason for change	Count I for SRB 2 should be set after the new keys have been downloaded.
Summary of change	Count I for SRB 2 is shifted from test step It_InitSecurityVariables to It_SS_ValidSecurity

Source of change	New change
-------------------------	------------

Before:

It_InitSecurityVariables				
41		(tcv_CellIndInfo.dL_CipherMode := cs_CipheringModeCmdOn (uea1),		Switch On ciphering @sic ER2027 sic@
		tcv_CellIndInfo.ps_cipheringStarted := TRUE, tcv_CellIndInfo.recentSec ureDomain := ps_domain, tcv_CellIndInfo.cipheringAlgorithmC apability := '000000000000011'B, t cv_CellIndInfo.start_PS := '0000000 000000000000'B, tcv_CN_Domain := ps_domain)		
42		(tcv_HFN := '00000000000000000 00'B)		
43		+ ts_InitSystemSpecificCap		@sic RASH T1-031470 s ic@
44		[tcv_CellIndInfo.integrityStarted]		
45		+ts_GetRRC_MessageSN (tsc_C ellA)		
46		(tcv_CellIndInfo.dL_Integrity := cs _IntegrityProtectModify_P(tcv_RRC _MSN_RB0 , tcv_RRC_MSN_RB1 , 0 , tcv_RRC_MSN_RB3, tcv_RRC_MS N_RB4) , tcv_Int_ModifyFlag := TRU E)		Modify integrity
47		+ ts_GetRRC_Count_I (tsc_RB2)		read existing Count I valu e of RB2
48		+ts_SetRRC_Count_I (tsc_RB2 , OMIT , 0 , OMIT, (tcv_RRC_DL_Co unt_I_MSB+1))		SET on SS the DL RRC M SQN for RB2 as 0 and H FN incremented
49		[NOT tcv_CellIndInfo.integrityStart ed]	()	This condition should no t happen

After:

It_InitSecurityVariables				
43		(tcv_CN_Domain := ps_domain)		
44		(tcv_CellIndInfo.dL_CipherMode := cs_CipheringModeCmdOn (uea1),		Switch On ciphering @sic ER2027 sic@
		tcv_CellIndInfo.ps_cipheringStarted := TRUE, tcv_CellIndInfo.recentSec ureDomain := ps_domain, tcv_CellIndInfo.cipheringAlgorithmC apability := '000000000000011'B, t cv_CellIndInfo.start_PS := '0000000 000000000000'B, tcv_CN_Domain := ps_domain)		
45		(tcv_HFN := '00000000000000000 000'B)		
46		+ ts_InitSystemSpecificCap		@sic RASH T1-031470 s ic@
47		[tcv_CellIndInfo.integrityStarted]		
48		+ts_GetRRC_MessageSN (tsc_C ellA)		
49		(tcv_CellIndInfo.dL_Integrity := c s_IntegrityProtectModify_P(tcv_RRC _MSN_RB0 , tcv_RRC_MSN_RB1 , 0, tcv_RRC_MSN_RB3, tcv_RRC_M SN_RB4) , tcv_Int_ModifyFlag := TR UE)		Modify integrity
50		[NOT tcv_CellIndInfo.integrityStart ed]	()	This condition should no t happen

Before:

It_SS_ValidSecurity					
34		+ It_InitSecurityVariables			
35		+ ts_SS_DownloadSecurityKey (tsc_CellA, tcv_PS_AuthCK, tcv_PS_AuthK, OMIT, ps_domain)			
36		+ ts_CRRC_GetRRC_SeqNumSecurity (tsc_CellA)			
37		+ ts_CRRC_SuspendSecurity (tsc_CellA)			
38		+ It_CRRC_DL_CipherCfg			Configure ciphering for RLC (RBs 1, 2, 3 and 4)
39		+ ts_CRRC_DL_Integrity (tcv_CellIndInfo.dL_Integrity)			
40		+ ts_RB2_UL_IntegrityActivate (tcv_RRC_MSN_RB2_UL)			

After:

It_SS_ValidSecurity					
34		+ It_InitSecurityVariables			
35		+ ts_SS_DownloadSecurityKey (tsc_CellA, tcv_PS_AuthCK, tcv_PS_AuthK, OMIT, ps_domain)			
36		+ ts_CRRC_GetRRC_SeqNumSecurity (tsc_CellA)			
37		+ ts_CRRC_SuspendSecurity (tsc_CellA)			
38		+ It_CRRC_DL_CipherCfg			Configure ciphering for RLC (RBs 1, 2, 3 and 4)
39		+ ts_CRRC_DL_Integrity (tcv_CellIndInfo.dL_Integrity)			
40		+ ts_RB2_UL_IntegrityActivate (tcv_RRC_MSN_RB2_UL)			
41		+ ts_GetRRC_Count_I (tsc_RB2)			
42		+ ts_SetRRC_Count_I (tsc_RB2, OMIT, 0, OMIT, (tcv_RRC_DL_Count_I_MSB+1))			

Branches executed in test case 8.1.7.1c

The test case 8_1_7_1c implementation executed with integrity activated and ciphering enabled.

5 Execution Log Files

5.1 Nokia 3G UE 6630

The Nokia 6630 passed this test case on the Anite CT system. The documentation below is enclosed as evidence of the successful test case run [1]:

5.2 Motorola 3G UE A835

The Motorola A835 passed this test case on the Anite CT system. The documentation below is enclosed as evidence of the successful test case run [2]:

6 References

- [1] This archive comprises text format execution log file with Nokia UE and the TTCN MP file.
- [2] This archive comprises text format execution log file with Motorola UE and the TTCN MP file.

CR-Form-v7
CHANGE REQUEST
⌘ 34.123-3 CR 1061 ⌘ rev <input type="text"/> ⌘ Current version: 3.7.0 ⌘

For **HELP** on using this form, see bottom of this page or look at the pop-up text over the ⌘ symbols.

Proposed change affects: UICC apps ME Radio Access Network Core Network

Title:	⌘ Correction to Package 4 test case 12.9.7b ATS V3.7.0		
Source:	⌘ Anritsu Ltd		
Work item code:	⌘ N/A	Date:	⌘ 20/10/2004
Category:	⌘ B	Release:	⌘ R99
	Use <u>one</u> of the following categories: F (correction) A (corresponds to a correction in an earlier release) B (addition of feature), C (functional modification of feature) D (editorial modification) Detailed explanations of the above categories can be found in 3GPP TR 21.900 .		Use <u>one</u> of the following releases: 2 (GSM Phase 2) R96 (Release 1996) R97 (Release 1997) R98 (Release 1998) R99 (Release 1999) Rel-4 (Release 4) Rel-5 (Release 5) Rel-6 (Release 6)

Reason for change:	⌘ To add GCF package 4 NAS test case 12.9.7b NAS ATS V3.7.0. (In addition to T1s040593).
Summary of change:	⌘ This document lists all changes applied to test case 12.9.7b required for approval. See detailed change description for further information.
Consequences if not approved:	⌘ Test case will not be added to P4 test cases list.

Clauses affected:	⌘ N/A										
Other specs affected:	<table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td style="padding: 2px;">Y</td> <td style="padding: 2px;">N</td> </tr> <tr> <td style="padding: 2px;"><input checked="" type="checkbox"/></td> <td style="padding: 2px;"><input checked="" type="checkbox"/></td> </tr> <tr> <td style="padding: 2px;"><input type="checkbox"/></td> <td style="padding: 2px;"><input checked="" type="checkbox"/></td> </tr> <tr> <td style="padding: 2px;"><input type="checkbox"/></td> <td style="padding: 2px;"><input checked="" type="checkbox"/></td> </tr> </table>	Y	N	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Other core specifications Test specifications O&M Specifications	⌘ <input type="text"/>
Y	N										
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>										
<input type="checkbox"/>	<input checked="" type="checkbox"/>										
<input type="checkbox"/>	<input checked="" type="checkbox"/>										
Other comments:	⌘ <input type="text"/>										

How to create CRs using this form:

Comprehensive information and tips about how to create CRs can be found at <http://www.3gpp.org/specs/CR.htm>. Below is a brief summary:

- 1) Fill out the above form. The symbols above marked ⌘ contain pop-up help information about the field that they are closest to.
- 2) Obtain the latest version for the release of the specification to which the change is proposed. Use the MS Word "revision marks" feature (also known as "track changes") when making the changes. All 3GPP specifications can be downloaded from the 3GPP server under <ftp://ftp.3gpp.org/specs/> For the latest version, look for the directory name with the latest date e.g. 2001-03 contains the specifications resulting from the March 2001 TSG meetings.

- 3) With "track changes" disabled, paste the entire CR form (use CTRL-A to select it) into the specification just in front of the clause containing the first piece of changed text. Delete those parts of the specification which are not relevant to the change request.

TSG-T WG 1 E-Mail 2004

T1s040674

01 Jan - 31 Dec 2004

Title Correction to GCF P4 test case 12.9.7b ATS V3.7.0

Source Anritsu

Agenda Item N/A

Document for Approval

Contact Dan Fox (Anritsu) dan.fox@eu.anritsu.com
Tel: +44 1582 433357

Table Of Contents

1 Overview4

2 Tables added to iWD-TVB2003-03_D04wk345

2.1 ts_GMM_DetachOnSwitchOff_1297bError! Bookmark not defined.

3 Tables Modified to iWD-TVB2003-03_D04wk345

3.1 tc_12_9_7bError! Bookmark not defined.

3.2 lt_RAUpd_Steps_10To12Error! Bookmark not defined.

3.3 ts_AT_OrgPS_CallError! Bookmark not defined.

1 Overview

This document details the changes needed to introduce test case 12.9.7b ATS V3.7.0. With these changes applied, the test case can be demonstrated to run on at least one independent UE implementation. Only essential fixes to the TTCN are applied. This test case has been tested according to the configuration stated below:-

Reference document	TS 34.123-1 version 5.9.0 TS34.108 version 5.2.0
Referenced CRs	None
Based ATS suite	iWD-TVB2003-03_D04wk34
Integrity	Enabled
Ciphering	Disabled
Path tested	PS

2 Tables added to iWD-TVB2003-03_D04wk34

2.1 None

Reason for Change: As no TMSI available, UE will DETACH with IMSI

Summary of Change: Changed ic_IMSI_DetachIndf to ic_IMSI_DetachIndIMSIf at line no. 29 and 31 as below

3 Tables Modified to iWD-TVB2003-03_D04wk34

3.1 lt_Attach_Steps_3To5

Reason for Change: As per 34.123-1 section 12.9.7b.4 at Step 4 of the Expected Sequence in ATTACH ACCEPT, Attach result should be 'PS only attached'.

Summary of change : Replaced ic_GMM_AttachResultCombinedCS_PSi with ic_GMM_AttachResultPS_Onlyi.

t_Attach_Steps_3To5			
5	+ ts_MM_RegistrationHandleAttachReqIMSI (tsc_CellA)		Step 3 @sic VB Handle PS Attach during CS registrator sic@
6	+ts_GMM_AuthenticateAndStartIntegrityProtection (tsc_CellA)		
7	Dc ! RRC_DataReq	ca_PS_DataReq(tsc_CellDedicated, tsc_RB3, cs_AttachAcc(e_GMM_AttachResultCombinedCS_PS, c_GMM_AttachResultPS_Only, c_RAI_v (tcv_CellInfoA.mcc, tcv_CellInfoA.mnc, tcv_CellInfoA.lac, tcv_CellInfoA.rac), c_PTMSI_Signature (px_PTMSI_SigDef), c_MobileIdPTMSI (px_PTMSI_Def), c_GMM_MobileIdTMSI(px_TMSI_Def)))	ATTACH ACCEPT - Attach result is 'PS/CS attached' - RAI of cell A - P-TMSI-1 - P-TMSI signature 1 - TMSI-1
8	Dc ? RRC_DataInd	car_PS_UplinkDirectTransfer (tsc_CellDedicated, tsc_RB3, cr_AttachComplete)	ATTAC

CR-Form-v7	CHANGE REQUEST
⌘ 34.123-3 CR 1062 ⌘ rev ⌘ Current version: 3.7.0 ⌘	

For **HELP** on using this form, see bottom of this page or look at the pop-up text over the ⌘ symbols.

Proposed change affects: UICC apps ME Radio Access Network Core Network

Title:	⌘ Addition of GCF P4 test case 12.4.1.4b ATS V3.7.0		
Source:	⌘ Anritsu Ltd		
Work item code:	⌘ N/A	Date:	⌘ 19/10/2004
Category:	⌘ B	Release:	⌘ R99
	Use <u>one</u> of the following categories: <i>F</i> (correction) <i>A</i> (corresponds to a correction in an earlier release) <i>B</i> (addition of feature), <i>C</i> (functional modification of feature) <i>D</i> (editorial modification) Detailed explanations of the above categories can be found in 3GPP TR 21.900 .		Use <u>one</u> of the following releases: 2 (GSM Phase 2) R96 (Release 1996) R97 (Release 1997) R98 (Release 1998) R99 (Release 1999) Rel-4 (Release 4) Rel-5 (Release 5) Rel-6 (Release 6)

Reason for change:	⌘ To introduce test case 12.4.1.4b ATS V3.7.0
Summary of change:	⌘ table modified in iWD-TVB2003-03_D04wk34 for details see below
Consequences if not approved:	⌘ Test case will not be introduced

Clauses affected:	⌘ N/A										
Other specs affected:	<table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td style="padding: 2px;">Y</td> <td style="padding: 2px;">N</td> </tr> <tr> <td style="padding: 2px;"><input type="checkbox"/></td> <td style="padding: 2px;"><input checked="" type="checkbox"/></td> </tr> <tr> <td style="padding: 2px;"><input type="checkbox"/></td> <td style="padding: 2px;"><input checked="" type="checkbox"/></td> </tr> <tr> <td style="padding: 2px;"><input type="checkbox"/></td> <td style="padding: 2px;"><input checked="" type="checkbox"/></td> </tr> </table>	Y	N	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Other core specifications Test specifications O&M Specifications	⌘
Y	N										
<input type="checkbox"/>	<input checked="" type="checkbox"/>										
<input type="checkbox"/>	<input checked="" type="checkbox"/>										
<input type="checkbox"/>	<input checked="" type="checkbox"/>										
Other comments:	⌘										

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- 2) Obtain the latest version for the release of the specification to which the change is proposed. Use the MS Word "revision marks" feature (also known as "track changes") when making the changes. All 3GPP specifications can be downloaded from the 3GPP server under <ftp://ftp.3gpp.org/specs/> For the latest version, look for the directory name with the latest date e.g. 2001-03 contains the specifications resulting from the March 2001 TSG meetings.

- 3) With "track changes" disabled, paste the entire CR form (use CTRL-A to select it) into the specification just in front of the clause containing the first piece of changed text. Delete those parts of the specification which are not relevant to the change request.

TSG-T WG 1 E-Mail 2004

T1s040628

01 Jan - 31 Dec 2004

Title	Introducing test case 12.4.1.4b ATS V3.7.0
Source	Anritsu
Agenda Item	N/A
Document for	Approval
Contact	Dan Fox (Anritsu) dan.fox@eu.anritsu.com Tel: +44 1582 433357

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2	Tables added to iWD-TV2003-03_D04wk34	5
2.1	None.....	5
3	Tables Modified to iWD-TV2003-03_D04wk34	5
3.1	tc_12_4_1_4b.....	5
3.2	lt_SwitchPowerLevels_Step6.....	6
3.3	lt_TestBody	7
3.4	lt_RAREj_Steps_7To8	9

1 Overview

This document details the changes needed to introduce test case 12.4.1.4b ATS V3.7.0 With these changes applied the test case can be demonstrated to run on at least one independent UE implementations. Only essential fixes to the TTCN are applied. This test case has been tested according to the configuration stated below:-

Reference document	TS 34.123-1 version 5.8.0 TS34.108 version 5.1.0
Referenced CRs	None
Based ATS suite	iWD-TVB2003-03_D04wk34
Integrity	Enabled
Ciphering	Disabled
Path tested	PS

2 Tables added to iWD-TVB2003-03_D04wk34

2.1 None

3 Tables Modified to iWD-TVB2003-03_D04wk34

3.1 tc_12_4_1_4b

Reason for Change:

- 1) As per TS 34.123-580 CellB has MCC1.
- 2) CellB is being Attenuated twice.

Summary of Change:

- 1) Removed tcv_CellInfoB.mnc := tsc_MNC_2
- 2) Removed itcv_CellInfoB.attenuationLevel := tsc_AttenuationSuitableNeighbourCellf

Test Case					
Test Case Id:	tc_12_4_1_4b				
Test Group Reference:	GMM/Routing_Area Updating/PS_only_RAU/				
Purpose:	To test the behaviour of the UE if the network rejects the routing area updating with cause 'No Suitable Cells in Location Area'				
Configuration:					
Defaults:	NAS_OtherwiseFail				
Comments:	@SIC_NAPP Initial conditions - SS : Four cells operating in network operation mode II PLMNs of the four cells are equivalent - UE : The UE has a valid IMSI Mapping of the cells from the prose to the TTCN: - Cell A -> Cell A - Cell B -> Cell B - Cell C -> Cell D - Cell D -> Cell C @sic VB T1-040044 sic@				
Nr	Label	Behaviour Description	Constraint Ref	Verdict	Comments
1		START t_Guard (300)			

2		+ts_InitVariables			
3		<pre>(tcv_NumOfPLMN := 2, tcv_CellInfoA.attenuationLevel := tsc_AttenuationSuitableNeighbourCell, tcv_CellInfoA.nmo := tsc_NMO_II, tcv_CellInfoA.attFlag := tsc_AttOff, tcv_CellInfoA.t3212 := tsc_T3212_0, tcv_CellInfoB.attenuationLevel :=tsc_AttenuationSuitableNeighbourCell, tcv_CellInfoB.nmo := tsc_NMO_II, tcv_CellInfoB.mnc := tsc_MNC_2, tcv_CellInfoB.lac := tsc_LAC_2, tcv_CellInfoB.attFlag := tsc_AttOff, tcv_CellInfoB.t3212 := tsc_T3212_0, tcv_CellInfoB.attenuationLevel := tsc_AttenuationSuitableNeighbourCell, tcv_CellInfoD.nmo := tsc_NMO_II, tcv_CellInfoD.mcc := tsc_MCC_2, tcv_CellInfoD.attFlag := tsc_AttOff, tcv_CellInfoD.t3212 := tsc_T3212_0, tcv_CellInfoD.attenuationLevel := tsc_AttenuationSuitableNeighbourCell, tcv_CellInfoC.nmo := tsc_NMO_II, tcv_CellInfoC.rac := tsc_RAC_2, tcv_CellInfoC.attenuationLevel := tsc_AttenuationServingCell)</pre>			Test case specific cell settings @sic VB attFlag shall be set to Off in all cells sic@
4		+ts_MMI_SetOpModeA			

3.2 lt_SwitchPowerLevels_Step6

Reason for Change : At step 9, UE does NOT see RRC Connection Setup msg due to SCCPCH Interference. Also DCH quality is lower than the required value as per TS 25.101 table 8.6.

Summary of change : So as to achieve the CPICH for CELLA to be ñ65dbm instead of ñ60dbm modified line number 47 as below.

lt_SwitchPowerLevels_Step6		
47	+ts_SS_IncrementCellPowerLevel (tsc_CellA, tsc_AttenuationSuitableNeighbourCell - tsc_AttenuationServingCell - 5)	Set cell A to "Serving cell"
48	+ts_SS_DecrementCellPowerLevel (tsc_CellC, tsc_AttenuationSuitableNeighbourCell - tsc_AttenuationServingCell)	Set cell C to "Suitable neighbour cell"

3.3 lt_TestBody and lt_Handle_Attach

Reason for Change : Manual Attach NOT handled for step 3 to5 at line number 17

Summary of change : Introduced a Local tree (+lt_Handle_Attach) to handle Manual attach

lt_TestBody			
14	(tcv_TestBody := TRUE)	(P)	
15	+ts_GMM_Config_CellA_CellB_CellD		Configure cell A, B and D
16	+ ts_GMM_SwitchOrPwrOn		@sic VB T1s-04202 sic@
17	+ts_RRC_ConnEst(tse_CellC, est_Reg, registration)		
18	+lt_Attach_Steps_3To5		Steps 3 to 5
19	+lt_Handle_Attach		
20	+lt_SwitchPowerLevels_Step6		Step 6. Switch power levels
21	+lt_RAREj_Steps_7To8		RAUpd attempt on cell A
	...		
	...		
	...		
	...		
	...		
	...		
	...		
	...		
	...		

lt_Handle_Attach			
51	[pc_AutomaticAttachSwitchON = TRUE]		
52	+ts_RRC_ConnEst(tsc_CellC, est_Reg, registration)		
53	+lt_Attach_Steps_3To5		Steps 3 to 5
54	[pc_AutomaticAttachSwitchON = FALSE]		
55	+ts_AT_TriggerGMM_Attach		
56	+ts_RRC_ConnEst(tsc_CellC, est_Reg, registration)		Establish RRC connection
57	Dc ? RRC_DataInd (tcv_TmpAttachReqPDU := RRC_DataInd.msg, tcv_TmpB3:= tcv_TmpAttachReqPDU.attachType.type, tcv_Start := RRC_DataInd.start)CANCEL t_WaitS	car_PS_InitDirectTransfer (tsc_CellDedicated, tsc_RB3, cr_AttachReq (c_AttachTypeAny, c_MobileIdAny_lv, c_RAI_Any_v, ?))	ATTACH REQUEST - Extract Attach type requested
58	+ ts_SS_SecurityDownloadStart (ps_domain, tcv_Start)		
59	+ts_GMM_AuthenticateAndStartIntegrityProtection (tsc_CellC)		
60	Dc ! RRC_DataReq (tcv_AssignedPTMSI := px_PTMSI_Def, tcv_Assigned_PTMSI_Sig := px_PTMSI_SigDef)	ca_PS_DataReq(tsc_CellDedicated, tsc_RB3, cs_AttachAcc6(c_GMM_AttachResultPS_Only, c_RAI_v (tcv_CellInfoC.mcc, tcv_CellInfoC.mnc, tcv_CellInfoC.lac, tcv_CellInfoC.rac), c_PTMSI_Signature (px_PTMSI_SigDef), c_MobileIdPTMSI (px_PTMSI_Def), -, c_EquivalentPLMN (tcv_CellInfoD.mcc, tcv_CellInfoD.mnc)))	ATTACH ACCE - Attach result 'PS only' - RAI correspondi to cell C - P-TMSI-1 - P-TMSI signature 1 - Equivalen PLMN of cel MCC_2, MNC_
61	Dc ? RRC_DataInd	car_PS_UplinkDirectTransfer(tsc_CellDedicated, tsc_RB3, cr_AttachComplete)	ATTACH COMPLETE
62	+ts_RRC_ConnRel(tsc_CellC, cell_Dch)		

3.4 lt_RARej_Steps_7To8

Reason for Change: UE sends RAU with PTMSI Signature Included which was OMITED in TTCN at Step 7

Summary of change: Replaced OMIT with ic_PTMSI_SignatureDefi

lt_RARej_Steps_7To8			
29	+ts_RRC_ConnEst (tsc_CellA, est_Reg, registration)		
30	Dc ? RRC_DataInd (tcv_Start := RRC_DataInd.start)	car_PS_InitDirectTransfer(tsc_CellDedicated, tsc_RB3, cbr_RA_UpdReq_3 (c_GMM_UpdateTypeRA_Updating, c_RAI_v(tcv_CellInfoC.mcc, tcv_CellInfoC.mnc, tcv_CellInfoC.lac, tcv_CellInfoC.rac), <u>c_PTMSI_SignatureDef</u> , c_TMSI_StatusAny, tcv_PS_KeySeq , c_MobileIdPTMSI_Def))	Step 7 ROUTING AREA UPDATING REQUEST - Update type = 'RA updating' - RAI corresponding to cell C - P-TMSI-1 signature - P-TMSI-1 @sic VB T1-04359 sic@
31	+ ts_SS_SecurityDownloadStart (ps_domain, tcv_Start)		
32	Dc ! RRC_DataReq	ca_PS_DataReq (tsc_CellDedicated, tsc_RB3, cs_RA_UpdRej ('0F'O))	Step 8 ROUTING AREA UPDATING REJECT - cause = 'No Suitable Cells in Location Area'
33	+ts_RRC_ConnRel (tsc_CellA, cell_Dch)		

CR-Form-v7	<h2 style="margin: 0;">CHANGE REQUEST</h2>
⌘ 34.123-3 CR 1063 ⌘ rev - ⌘ Current version: 3.7.0 ⌘	

For **HELP** on using this form, see bottom of this page or look at the pop-up text over the ⌘ symbols.

Proposed change affects: UICC apps ⌘ ME ⌘ Radio Access Network ⌘ Core Network ⌘

Title:	⌘ Correction to Package 4 GMM test case 12.4.1.1b (Revised CR T1s040467)		
Source:	⌘ Anite		
Work item code:	⌘ N/A	Date:	⌘ 20/10/04
Category:	⌘ B	Release:	⌘ R99
Use <u>one</u> of the following categories: F (correction) A (corresponds to a correction in an earlier release) B (addition of feature), C (functional modification of feature) D (editorial modification) Detailed explanations of the above categories can be found in 3GPP TR 21.900 .		Use <u>one</u> of the following releases: 2 (GSM Phase 2) R96 (Release 1996) R97 (Release 1997) R98 (Release 1998) R99 (Release 1999) Rel-4 (Release 4) Rel-5 (Release 5) Rel-6 (Release 6)	

Reason for change:	⌘ To add verified GCF package 4 NAS test case 12.4.1.1b to the approved NAS ATS V3.7.0. (Revision of T1s040467).
Summary of change:	⌘ This document lists all changes applied to test case 12.4.1.1b required for approval. See detailed change description for further information.
Consequences if not approved:	⌘ Test case will not be added to P4 test cases list.

Clauses affected:	⌘										
Other specs affected:	<table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td style="padding: 2px 5px;">Y</td> <td style="padding: 2px 5px;">N</td> </tr> <tr> <td style="text-align: center; padding: 2px 5px;"><input type="checkbox"/></td> <td style="text-align: center; padding: 2px 5px;"><input checked="" type="checkbox"/></td> </tr> <tr> <td style="text-align: center; padding: 2px 5px;"><input type="checkbox"/></td> <td style="text-align: center; padding: 2px 5px;"><input checked="" type="checkbox"/></td> </tr> <tr> <td style="text-align: center; padding: 2px 5px;"><input type="checkbox"/></td> <td style="text-align: center; padding: 2px 5px;"><input checked="" type="checkbox"/></td> </tr> </table>	Y	N	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Other core specifications	⌘
	Y	N									
	<input type="checkbox"/>	<input checked="" type="checkbox"/>									
<input type="checkbox"/>	<input checked="" type="checkbox"/>										
<input type="checkbox"/>	<input checked="" type="checkbox"/>										
Test specifications											
O&M Specifications											
Other comments:	⌘										

How to create CRs using this form:

Comprehensive information and tips about how to create CRs can be found at <http://www.3gpp.org/specs/CR.htm>. Below is a brief summary:

- 1) Fill out the above form. The symbols above marked ⌘ contain pop-up help information about the field that they are closest to.
- 2) Obtain the latest version for the release of the specification to which the change is proposed. Use the MS Word "revision marks" feature (also known as "track changes") when making the changes. All 3GPP specifications can be downloaded from the 3GPP server under <ftp://ftp.3gpp.org/specs/> For the latest version, look for the directory name with the latest date e.g. 2001-03 contains the specifications resulting from the March 2001 TSG meetings.

- 3) With "track changes" disabled, paste the entire CR form (use CTRL-A to select it) into the specification just in front of the clause containing the first piece of changed text. Delete those parts of the specification which are not relevant to the change request.

Title: Changes to test case 12.4.1.1b required for approval
Source: Anite
Agenda Item: TTCN Issues
Document for: Approval
Contact: Philip Rose
phil.rose@anite.com
Tel. +44 1252 775200

1 Overview

This document lists all the changes needed to correct problems in the TTCN implementation of test case 12.4.1.1b, which is part of the NAS test suite. Only essential changes to the TTCN are applied and documented in section 4.

With these changes applied the test case can be demonstrated to run with 3G UE (see section 6). Execution log files are provided as evidence.

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3 Verification Test Summary

Test Case: tc_12_4_1_1b
Test Group: GMM/ Routing_area Updating / PS_only_RAU
ATS Version: iWD-TVB2003-03_D04wk40 + essential modifications
System Simulator used: Anite 3G U-SAT
UE used: Motorola A835 and Nokia 6630
Verification Status: PASS

4 Corrections required for test case 12.4.1.1b

4.1 Introduction

This section describes the changes required to make test case 12.4.1.1b run correctly with more than one 3G UEs. NAS_wk40.mp ATS, which is part of the iWD-TVB2003-03_D04wk40 release, is used as basis.

4.2 Change 1

Test step name	tc_12_4_1_1b, It_Attach_Steps_3To5
Reason for change	TS 34.123-1 Sec 12.4.1.1b.4 in the expected test sequence Step#3 specifies ATTACH REQUEST Attach Type = iPS Attach. Whereas in TTCN implementation It_Attach_Steps_3To5 line #20 mentioned as ATTACH REQUEST Attach Type =iCombinedCS/PS attach.
Summary of change	Changed the ATTACH type to c_GMM_AttachTypePS_Only from c_GMM_AttachTypeCombinedCS_PS.

Before:

It_Attach_Steps_3To5				
19		+ts_RRC_ConnEst(tsc_CellA, est_Reg, registration)		
20		Dc ? RRC_DataInd (tcv_Start := RRC_DataInd.start)	car_PS_InitDirectTransfer(tsc_CellDedicated, tsc_RB3, cr_AttachReq(c_GMM_AttachTypeCombinedCS_PS, c_MobileIdPTMSI_lv_Def, c_RAI_Def_v, tcv_PS_KeySeq))	Step 3. ATTACH REQUEST - Attach type is 'PS attach' - Mobile Id = P-TMSI - RAI = RAI-1 @sic EWER 1519 sic@ @sic VB T1-040966 sic@

After:

It_Attach_Steps_3To5				
19		+ts_RRC_ConnEst(tsc_CellA, est_Reg, registration)		
20		Dc ? RRC_DataInd (tcv_Start := RRC_DataInd.start)	car_PS_InitDirectTransfer(tsc_CellDedicated, tsc_RB3, cr_AttachReq(c_GMM_AttachTypePS_Only, c_MobileIdPTMSI_lv_Def, c_RAI_Def_v, tcv_PS_KeySeq))	Step 3. ATTACH REQUEST - Attach type is 'PS attach' - Mobile Id = P-TMSI - RAI = RAI-1 @sic EWER 1519 sic@ @sic VB T1-040966 sic@

4.3 Change 2

Test step name tc_12_4_1_1b, It_Attach_Steps_3To5

Reason for change TS 34.123-1 Sec 12.4.1.1b.4, in the expected test sequence Step#4 specifies ATTACH ACCEPT with Mobile identity = P-TMSI_1 and P-TMSI-1 signature.

Where as in TTCN implementation at It_Attach_Steps_3To5 , line #23 ATTACH ACCEPT Mobile identity = P-TMSI_2 and P-TMSI_Sig_2 are used.

Summary of change In ATTACH ACCEPT message, in It_Attach_Steps_3To5, line #23, px_PTMSI_Def in place of px_PTMSI_2 and px_PTMSI_SigDef in place of px_PTMSI_Sig2

Before:

23		Dc ! RRC_DataReq (tcv_AssignedPTMSI := px_PTMSI_2, tcv_Assigned_PTMSI_Sig := px_PTMSI_Sig2)	ca_PS_DataReq(tsc_CellDedicated, tsc_RB3, cs_AttachAcc(c_GMM_AttachResultPS_Only, c_RAI_Def_v, c_PTMSI_Signature (px_PTMSI_Sig2), c_MobileIdPTMSI (px_PTMSI_2), -))	Step 4. ATTACH ACCEPT - Attach result 'PS attached' - RAI default (RAI-1) - P-TMSI-2 signature - MobileId P-TMSI-2
24		Dc ? RRC_DataInd	car_PS_UplinkDirectTransfer(tsc_CellDedicated, tsc_RB3, cr_AttachComplete)	Step 5. ATTACH COMPLETE

After:

23		Dc ! RRC_DataReq (tcv_AssignedPTMSI := px_PTMSI_Def, tcv_Assigned_PTMSI_Sig := px_PTMSI_SigDef)	ca_PS_DataReq(tsc_CellDedicated, tsc_RB3, cs_AttachAcc(c_GMM_AttachResultPS_Only, c_RAI_Def_v, c_PTMSI_Signature (px_PTMSI_SigDef), c_MobileIdPTMSI (px_PTMSI_Def), -))	Step 4. ATTACH ACCEPT - Attach result 'PS attached' - RAI default (RAI-1) - P-TMSI-1 signature - MobileId P-TMSI-1
24		Dc ? RRC_DataInd	car_PS_UplinkDirectTransfer(tsc_CellDedicated, tsc_RB3, cr_AttachComplete)	Step 5. ATTACH COMPLETE

Branches executed in test case 12.4.1.1b

The test case implementation executed the auto attach enabled, CS/PS branch with integrity activated and ciphering disabled.

5 Execution Log Files

[5.25.1](#) Motorola A835

The Motorola A835 passed this test case on the Anite 3G U-SAT system. The documentation below is enclosed as evidence of the successful test case run [1]:

5.2 Nokia 6630

The Nokia 6630 passed this test case on the Anite 3G U-SAT system. The documentation below is enclosed as evidence of the successful test case run [1]:

6 References

[1] This archive comprises text format execution log file and the TTCN MP file.

CR-Form-v7

CHANGE REQUEST

34.123-3 CR 1064 # rev - # Current version: **3.7.0**

For **HELP** on using this form, see bottom of this page or look at the pop-up text over the # symbols.

Proposed change affects: UICC apps ME Radio Access Network Core Network

Title:	# Addition of RRC test case 8.3.1.24 to RRC ATS V3.7.0		
Source:	# Rohde & Schwarz		
Work item code:	# N/A	Date:	# 20/10/2004
Category:	# B	Release:	# R99
	Use <u>one</u> of the following categories:		Use <u>one</u> of the following releases:
	F (correction)		2 (GSM Phase 2)
	A (corresponds to a correction in an earlier release)		R96 (Release 1996)
	B (addition of feature),		R97 (Release 1997)
	C (functional modification of feature)		R98 (Release 1998)
	D (editorial modification)		R99 (Release 1999)
	Detailed explanations of the above categories can be found in 3GPP TR 21.900 .		Rel-4 (Release 4)
			Rel-5 (Release 5)
			Rel-6 (Release 6)

Reason for change:	# To add verified GCF package 3 RRC test case 8.3.1.24 to the approved RRC ATS V3.7.0
Summary of change:	# This document lists all changes applied to test case 8.3.1.24 required for approval. See detailed change description for further information.
Consequences if not approved:	# Test case will not be added to ATS

Clauses affected:	# N/A										
Other specs affected:	<table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td style="width: 20px; text-align: center;">Y</td> <td style="width: 20px; text-align: center;">N</td> </tr> <tr> <td style="text-align: center;">#</td> <td style="text-align: center;">X</td> </tr> <tr> <td style="text-align: center;">X</td> <td style="text-align: center;">#</td> </tr> <tr> <td style="text-align: center;">#</td> <td style="text-align: center;">X</td> </tr> </table>	Y	N	#	X	X	#	#	X	Other core specifications Test specifications O&M Specifications	# 34.123-1 (Change mentioned in sec 4.12 will require a Prose CR)
Y	N										
#	X										
X	#										
#	X										
Other comments:	# Prose CR will be raised by R&S for change mentioned in section 4.12										

How to create CRs using this form:

Comprehensive information and tips about how to create CRs can be found at <http://www.3gpp.org/specs/CR.htm>. Below is a brief summary:

- 1) Fill out the above form. The symbols above marked # contain pop-up help information about the field that they are closest to.
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downloaded from the 3GPP server under <ftp://ftp.3gpp.org/specs/> For the latest version, look for the directory name with the latest date e.g. 2001-03 contains the specifications resulting from the March 2001 TSG meetings.

- 3) With "track changes" disabled, paste the entire CR form (use CTRL-A to select it) into the specification just in front of the clause containing the first piece of changed text. Delete those parts of the specification which are not relevant to the change request.

Title: Changes to test case 8.3.1.24 required for approval
Source: Rohde & Schwarz
Agenda Item: TTCN Issues
Document for: Approval
Contact: Thomas Moosburger
thomas.moosburger@rsd.rohde-schwarz.com
Tel. +49 89 4129 11731

1 Overview

This document lists all the changes needed to correct problems in the TTCN implementation of test case 8.3.1.24 which is part of the RRC test suite. Only essential changes to the TTCN are applied and documented in section 4.

With these changes applied the test case can be demonstrated to run with one or more 3G UEs (see section 6). Execution log files are provided as evidence.

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4.11	tc_8_3_1_24: lt_TestBody (WA#RRC4386)	8
4.12	tc_8_3_1_24: lt_TestBody (WA#RRC4498)	8
4.13	tc_8_3_1_24: lt_TestBody (WA#RRC4565)	8
4.14	tc_8_3_1_24: lt_TestBody (WA#RRC4487)	8
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3 Verification Test Summary

Test Case: TC_8_3_1_24
Test Group: RRC\RRC_CellUpdate.
ATS Version: iWD-TVB2003-03_D04wk37 + essential modifications
System Simulator used: Rohde & Schwarz 3G system simulator CRTU-W
UE used: Nokia 6630
Verification Status: PASS

4 Corrections required for test case 8.3.1.24

4.1 Introduction

This section describes the changes required to make test case 8.3.1.24 run correctly with a 3G UE. All modifications are marked with label `WA#RRC<number>` for RRC related changes in the TTCN comments column of the enclosed ATS [1].

The ATS version used as basis was RRC_wk37.mp which is part of the iWD-TVB2003-03_D04wk37 release. This ATS, provided by MCC160 contains GCF package 1 to 4 test cases.

4.2 c_SIB4_HCS_Sing_8_3_1_24 (WA#RRC4560)

Test step name c_SIB4_HCS_Sing_8_3_1_24
Reason for change The original SIB contents does not match the prose
Summary of change Introduced a new constraint c_SIB4_HCS_Sing_8_3_1_24
Source of change New change
Label WA#RRC4560

The screenshot shows a software interface with two main sections. The top section is titled "ASN.1 Type Constraint Declaration" and contains the following information:

- Constraint Name: c_SIB4_HCS_Sing_8_3_1_24 (p_CellId) : INTEGER ;p_Priority:HCS_PRI0
- Group:
- Type Name: SysInfoType4
- Derivation Path:
- Encoding Variation:
- Comments: @SIC_NAPP_WA#RRC4560

The bottom section is titled "Constraint Value" and contains the following code:

```
{
cellIdentity INT_TO_BIT(p_CellId, 28),
cellSelectReselectInfo {
mappingInfo OMIT,
cellSelectQualityMeasure cpich_RSCP : NULL,
modeSpecificInfo fdd : {
s_Intrasearch 8,
s_Intersearch 0,
s_SearchHCS 17,
rat_List {
rat_Identifier gsm,
s_SearchRAT -16,
s_HCS_RAT OMIT,
s_Limit_SearchRAT 0
}},
q_QualMin -20,
q_RxlevMin -58 -- (IE value * 2) + 1
}.
}
```

4.3 c_SIB3_HCS_Sing_8_3_1_24 (WA#RRC4561)

Test step name c_SIB3_HCS_Sing_8_3_1_24
Reason for change The original SIB contents does not match the prose
Summary of change Introduced a new constraint c_SIB3_HCS_Sing_8_3_1_24
Source of change New change
Label WA#RRC4561

ASN.1 Type Constraint Declaration	
Constraint Name	c_SIB3_HCS_Sing_8_3_1_24 (p_CellId : INTEGER ; p_Priority : HCS_PRI0)
Group:	
Type Name:	SysInfoType3
Derivation Path:	
Encoding Variation:	
Comments:	@SIC_NAPP WA#RRC4561

Constraint Value
<pre>{ sib4indicator TRUE, cellIdentity INT_TO_BIT(p_CellId, 28), cellSelectReselectInfo { mappingInfo OMIT, cellSelectQualityMeasure cpich_RSCP : NULL, modeSpecificInfo fdd : { s_Intrasearch 8, s_Intersearch 0, s_SearchHCS 17, rat_List { rat_Identifier gsm, s_SearchRAT -16, s_HCS_RAT OMIT, s_Limit_SearchRAT 0 }}, q_QualMin -20, q_RxlevMin -58 -- (IE value * 2) + 1 }, q_Hyst_L_S 5, t_Reselection_S 0, hcs_ServingCellInformation { hcs_PRI0 p_Priority, q_HCS 40, t_CR_Max OMIT }, maxAllowedUL_TX_Power 21 }, cellAccessRestriction { cellBarred notBarred : NULL, cellReservedForOperatorUse notReserved</pre>

4.4 c_SIB11_HCS_Sing_8_3_1_24 (WA#RRC4562)

Test step name c_SIB11_HCS_Sing_8_3_1_24
Reason for change The original SIB contents does not match the prose
Summary of change Introduced a new constraint c_SIB11_HCS_Sing_8_3_1_24
Source of change New change
Label WA#RRC4562

ASN.1 Type Constraint Declaration	
Constraint Name:	c_SIB11_HCS_Sing_8_3_1_24 (p_ServingCell : CellInfoCfg; p_FirstNeighbourCell : CellInfoCfg; p_PriorityFNCell : HCS_PRIO; p_SecondNeighbourCell : CellInfoCfg; p_PrioritySNCell : HCS_PRIO)
Group:	
Type Name:	SysInfoType11
Derivation Path:	
Encoding Variation:	
Comments:	@SIC_NAPP WA#RRC4562
Constraint Value	
	<pre> { sib12indicator TRUE, measurementControlSysInfo { use_of_HCS hcs_used : { cellSelectQualityMeasure cpich_RSCP : { intraFreqMeasurementSysInfo { intraFreqMeasurementID 1, intraFreqCellInfoSI_List { removedIntraFreqCellList OMIT, -- removedIntraFreqCellList in SIB11 is not used and ignored by the UE newIntraFreqCellList { intraFreqCellID p_ServingCell.cellId, cellInfo { cellIndividualOffset OMIT, referenceTimeDifferenceToCell OMIT, modeSpecificInfo fdd : { primaryCPICH_Info { primaryScramblingCode p_ServingCell.priScrmCode }, readSFN_Indicator FALSE, tx_DiversityIndicator FALSE }, }, cellSelectionReselectionInfo OMIT } } }, { intraFreqCellID p_FirstNeighbourCell.cellId, </pre>

4.5 c_SIB12_HCS_Sing_8_3_1_24 (WA#RRC4563)

Test step name	c_SIB12_HCS_Sing_8_3_1_24
Reason for change	The original SIB contents does not match the prose
Summary of change	Introduced a new constraint c_SIB12_HCS_Sing_8_3_1_24
Source of change	New change
Label	WA#RRC4563

ASN.1 Type Constraint Declaration	
Constraint Name:	c_SIB12_HCS_Sing_8_3_1_24 (p_ServingCell : CellInfoCfg; p_FirstNeighbourCell : CellInfoCfg; p_PriorityFNCcell : HCS_PRIO; p_SecondNeighbourCell : CellInfoCfg; p_PrioritySNCcell : HCS_PRIO)
Group:	
Type Name:	SysInfoType12
Derivation Path:	
Encoding Variation:	
Comments:	@SIC_NAPP.WA#RRC4563
Constraint Value	
	<pre> { measurementControlSysInfo { use_of_HCS hcs_used : { cellSelectQualityMeasure cpich_RSCP : { intraFreqMeasurementSysInfo { intraFreqMeasurementID 1, intraFreqCellInfoSI_List { removedIntraFreqCellList OMIT, -- removedIntraFreqCellList in SIB11 is not used and ignored by the UE newIntraFreqCellList { intraFreqCellID p_ServingCell.cellId, cellInfo { cellIndividualOffset OMIT, referenceTimeDifferenceToCell OMIT, modeSpecificInfo fdd : { primaryCPICH_Info { primaryScramblingCode p_ServingCell.priScrmCode }, readSFN_Indicator FALSE, tx_DiversityIndicator FALSE }, cellSelectionReselectionInfo OMIT } }, { intraFreqCellID p_FirstNeighbourCell.cellId, cellInfo { </pre>

4.6 ts_SendDefSysInfo_WithoutSIB3_4_Initialise (WA#RRC4440)

Test step name	ts_SendDefSysInfo_WithoutSIB3_4_Initialise
Reason for change	The Sib3 and 4 are modified in the the test case 8.3.1.24, but the test step ts_UTRAN_GERAN_Paralnit(p_CellId) over writes the SIB 3 and SIB 4. Sib 11/12 are initialised in the test cases
Summary of change	Created a new test step ts_SendDefSysInfo_WithoutSIB3_4_Initialise without + ts_UTRAN_GERAN_Paralnit(p_CellId) Removed the initialisation of Sib11/12
Source of change	New change
Label	WA#RRC4440

Test Step					
Test Step Id:	ts_SendDefSysInfo_WithoutSIB3_4_Initialise (p_CellId: INTEGER)				
Test Step Group Ref:	BasicM_SysInfoHandling_Steps/Default/				
Objective:	To broadcast default system information.				
Defaults:	InitOtherwiseFail				
Comments:	WA#RRC4440				
...	Lab...	Behaviour Description	Constraint Ref	...	Comments
1		+ts_CellDependentPara(p_CellId)			
2		+ts_InitializeSIB2AndSIB18(tcw_TmpCellInfo)			
3		[px_RAT = fdd]			
4		+ts_SendNoSegDefSchedul(p_CellId)			
5		+ts_SendSIB1 (cb_SIB1_Def(tcw_TmpCellInfo), p_CellId, tsc_Now)			
6		+ts_SendSIB2 (tcw_SIB2 , p_CellId, tsc_Now)			
7		+ts_SendSIB3(tcw_SIB3, p_CellId, tsc_Now)			
8		+ts_SendSIB4(tcw_SIB4, p_CellId, tsc_Now)			
9		+ts_SendSIB5(cb_SIB5_Def(tcw_TmpCellInfo), p_CellId, tsc_Now)			
10		+ts_SendSIB6(cb_SIB6_Def(tcw_TmpCellInfo), p_CellId, tsc_Now)			
11		+ts_SendSIB7(c_SIB7_Def, p_CellId, tsc_Now)			
12		+ts_SendSIB11(tcw_SIB11, p_CellId, tsc_Now)			
13		+ts_SendSIB12(tcw_SIB12, p_CellId, tsc_Now)			
14		+ts_SendSIB18(tcw_SIB18, p_CellId, tsc_Now)			
15		+ts_SendSB1_DefSchedul(tcw_SB1, p_CellId, tsc_Now)			
16		+ts_SendMIB(tcw_MIB, p_CellId, tsc_Now)			
17	ERR1	[px_RAT = tdd]			
18	ERR2	[TRUE]			

4.7 tc_8_3_1_24 (WA#RRC4554)

Test step name	tc_8_3_1_24
Reason for change	To simplify the test sequence
Summary of change	Added HCS priority & Cell Config as parameters when test step It_CreateCells is called (in line 4 18 and 19)
Source of change	New change
Label	WA#RRC4554

4.8 tc_8_3_1_24 (WA#RRC4564)

Test step name	tc_8_3_1_24
Reason for change	To make sure that there is no Cell Update message received even after the penalty time has expired.
Summary of change	Extended the timer to 60sec.
Source of change	New change
Label	WA#RRC4564

Test Case				
Test Case Id:	tc_8_3_1_24			
Test Group Reference:	RRC/RRC_CellUpdate/			
Purpose:	1. To confirm that the UE can read HCS related SIB information and act upon all HCS parameters in CELL_PCH state. 2. To confirm that the UE executes a cell update procedure after the successful reselection of another UTRA cell in CELL_PCH state. 3. To confirm that the UE sends the correct uplink response message when executing cell update procedure due to cell reselection.			
Configuration:				
Defaults:	RRC_Def1			
Comments:	@SIC_NAPP			
...	La...	Behaviour Description	Constraint Ref	Comments
1		START t_Guard		
2		[px_RAT=fd]d		FDD specific behaviour
3		+It_InitVariables		Initial Test Case Variables
4		+It_CreateCells(tcv_CellInfoA, 6, tcv_CellInfoB, 7, tcv_CellInfoC, 7)		Configure lower tester WA#RRC4554
5		+ts_IdleUpdated(tsc_CellA)		Idle Update and bring UE to CELL_DCH state and release the connection again
6		+ts_AT_InitConnection (tsc_CellA)		
7		+ts_RRC_ConnEstPS_MO_P5_P6 (tsc_CellA)		
8		+ ts_RRC_NAS_SessionActPS_MO_P9_P10 (tsc_CellA)		
9		+ ts_RRC_RAB_EstPS_MO_P13_P14 (tsc_CellA)		
10		+ts_TransitToCellPCH_P15_P16(tsc_CellA)		Bring UE to Cell_PCH state Step 1
11	TBS	(tcv_TestBody:=TRUE)		(P)
12		+It_TestBody		
13		+ ts_C4_CheckCellPCH (tsc_CellB)		
14	TBE	(tcv_TestBody:=FALSE)		
15		+po_ConnectionAndSS_Rel (tsc_CellB)		Postamble
16	ERR1	[px_RAT=td]d		TDD specific behaviour
17	ERR2	[TRUE]		
It_TestBody				
18		+It_CreateCells(tcv_CellInfoB ,7, tcv_CellInfoA ,6, tcv_CellInfoC ,7)		Create Cell B step 2; WA#RRC4554
19		+It_CreateCells(tcv_CellInfoC ,7, tcv_CellInfoA ,6, tcv_CellInfoB ,7)		Create Cell C step 2; WA#RRC4554
20		START t_WaitS(60)		WA#RRC4564
21	TBF1	TM ? RLC_TR_DATA_IND	car_RRC_CellUpdate(?, tsc_RB0, cbr_108_CellUpdate (*, ?))	(F) UE should not Initiate Cell Update
22	TBP1	? TIMEOUT t_WaitS		(P)

4.9 tc_8_3_1_24: It_TestBody (WA#RRC4497)

Test step name tc_8_3_1_24: It_TestBody

Reason for change The initial timer could cause intermediate failures due to cell update message received just after 20sec

Summary of change Increased the cell update guard timer to 40sec In Line 27 and 34

Source of change New change

Label WA#RRC4497

26	TBP2	? TIMEOUT t_WaitS		(P)
27	TBP3	+ts_RRC_ReceiveCellUpdateNonPeriodic(tsc_CellC, cbr_108_CellUpdate (tcv_CellInfoA.uRNTI, cellReselection),(40 * 1000))		Step 4. UE sends CELL UPDATE with "Cell update cause" cell reselection " WA#RRC4497
34	TBP4	+ts_RRC_ReceiveCellUpdateNonPeriodic(tsc_CellB, cbr_108_CellUpdate (tcv_CellInfoA.uRNTI, cellReselection),(40 * 1000))		Step 8. UE sends CELL UPDATE with "Cell update cause" cell reselection " WA#RRC4497 WA#RRC4565

4.10 tc_8_3_1_24: It_TestBody (WA#RRC4385)

Test step name tc_8_3_1_24: It_TestBody

Reason for change The message should be sent on CCCH.

Summary of change Changed the Cell update confirm message to be sent on CCCH (tsc_RB0)

Source of change New change
Label WA#RRC4385

4.11 tc_8_3_1_24: It_TestBody (WA#RRC4386)

Test step name tc_8_3_1_24: It_TestBody
Reason for change To make sure that the cell update confirm message is sent before the power level changes.
Summary of change Added 500msec. delay.
Source of change New change
Label WA#RRC4386

4.12 tc_8_3_1_24: It_TestBody (WA#RRC4498)

Test step name tc_8_3_1_24: It_TestBody
Reason for change Cell B will only have a better Ranking than Cell C after the penalty time has expired therefore Cell update message should not be received during penalty time
Summary of change Added 40 sec timer to catch Cell Update message
Source of change New change
Label WA#RRC4498

4.13 tc_8_3_1_24: It_TestBody (WA#RRC4565)

Test step name tc_8_3_1_24: It_TestBody
Reason for change The U-RNTI that was last updated to the UE must be used
Summary of change Tcv_CellInfoA.uRNTI shall be used throughout the test. Changed line 34 & 36 to use Tcv_CellInfoA.uRNTI
Source of change New change
Label WA#RRC4565

4.14 tc_8_3_1_24: It_TestBody (WA#RRC4487)

Test step name tc_8_3_1_24: It_TestBody
Reason for change The dedicated resources must be moved to Cell B
Summary of change Added +ts_HO_ReconfFACH_ToFACH (tsc_CellA,tsc_CellB)
Source of change New change
Label WA#RRC4487

28	UM I RLC_UM_DATA_REQ	cas_RRC_CellUpdateCnfCCH(tsc_CellC, tsc_RB0, cbr_108_CellUpdateCnfCCH(tcv_CellIndInfo.dl_IntegrityCheckInfo, tcv_CellInfoA.uRNTI, tcv_RRC_TI, OMIT, OMIT, cell_PCH, OMIT, OMIT, OMIT, 3))	Step 5 . SS sends CELL UPDATE CONFIRM WA#RRC4385
29	+ts_RRC_Delay(500)		WA#RRC4386
30	+ts_SetAttenuationLevel (tsc_CellB,10)		Step 7; Set Atte as per table 8.3.1.24-1 of T2
31	START t_WaitS(40)		WA#RRC4498
32	TBF ? RLC_TR_DATA_IND CANCEL t_WaitS	car_RRC_CellUpdate(?, tsc_RB0, cbr_108_CellUpdate (*, *))	(F) UE should not initiate Cell Update WA#RRC4498
33	TBP2 ? TIMEOUT t_WaitS		(P) WA#RRC4498
34	TBP4 +ts_RRC_ReceiveCellUpdateNonPeriodic(tsc_CellB, cbr_108_CellUpdate (tcv_CellInfoA.uRNTI, cellReselection),(40 * 1000))		Step 8, UE sends CELL UPDATE with "Cell update cause" cell reselection " WA#RRC4497 WA#RRC4565
35	+ts_HO_ReconfFACH_ToFACH (tsc_CellA,tsc_CellB)		WA#RRC4487
36	+ts_CMAC_New_RNTI_Reconf(TRUE, tsc_CellB.tcv_CellInfoA.uRNTI, tcv_CellInfoB.cRNTI)		URNTI is needed to be used. WA#RRC4565
37	UM I RLC_UM_DATA_REQ	cas_RRC_CellUpdateCnfDCCH(tsc_CellDedicated, tsc_RB1, cs_CellUpdateCnfNewDRX_DCCH(tcv_CellIndInfo.dl_IntegrityCheckInfo, tcv_RRC_TI, OMIT, OMIT, cell_PCH, OMIT, OMIT, 3))	Step 9 . SS sends CELL UPDATE CONFIRM

4.15 tc_8_3_1_24: It_InitVariables (WA#RRC4555)

Test step name	tc_8_3_1_24: It_InitVariables
Reason for change	To remove unnecessary initialisation
Summary of change	removed tcv_SIB3 := c_SIB3_HCS_Sing (tsc_CellA, 6), tcv_SIB4 := c_SIB4_HCS_Sing (tsc_CellA, 6) as this is also initialised in It_CreateCells.
Source of change	New change
Label	WA#RRC4555

4.16 tc_8_3_1_24 It_CreateCells (WA#RRC4556)

Test step name	tc_8_3_1_24: It_CreateCells
Reason for change	To simplify the test case
Summary of change	Modified the test step It_CreateCells to include HCS priority and Cell Config as parameters, to initialise SIB_11 and 12 before sending Sys info. Used new Constraints for SIB 3,4,11 & 12 and included ts_SendDefSysInfo_WithoutSIB3_4_Initialise. Removed ts_SysInfoModifySIB11_12
Source of change	New change
Label	WA#RRC4556

It_InitVariables		
38	+ts_RRC_InitVariablesPS (cell_FACH)	Initial Test Case Variables
39	(tcv_CellInfoB.attenuationLevel := tsc_AttLevToPower80_dBm, tcv_CellInfoC.attenuationLevel := tsc_AttLevToPower80_dBm)	WA#RRC4555
40	U_CreateCells (p_ServingCell:CellInfoCfg; p_PrioritySCell: HCS_PRIO ; p_FirstNeighbourCell:CellInfoCfg; p_PriorityFNCell: HCS_PRIO; p_SecondNeighbourCell:CellInfoCfg; p_PrioritySNCell: HCS_PRIO) (tcv_SIB3 := c_SIB3_HCS_Sing_8_3_1_24 (p_ServingCell.cellId, p_PrioritySCell), tcv_SIB4 := c_SIB4_HCS_Sing_8_3_1_24 (p_ServingCell.cellId, p_PrioritySCell), tcv_SIB11 := c_SIB11_HCS_Sing_8_3_1_24 (p_ServingCell, p_FirstNeighbourCell, p_PriorityFNCell, p_SecondNeighbourCell, p_PrioritySNCell), tcv_SIB12 := c_SIB12_HCS_Sing_8_3_1_24 (p_ServingCell, p_FirstNeighbourCell, p_PriorityFNCell, p_SecondNeighbourCell, p_PrioritySNCell))	WA#RRC4556
41	+ts_SS_CreateCellFACH (p_ServingCell.cellId)	Configure lower tester
42	+ts_SendDefSysInfo_WithoutSIB3_4_Initialise(p_ServingCell.cellId)	
Detailed Comment:		

5 Branches executed in test case 8.3.1.24

The test case implementation executed the PS branch with Integrity activated, Ciphering disabled, and AutoAttach Off.

6 Execution Log Files

6.1 Nokia 6630 3G UE

The Nokia 6630 passed this test case on Rohde & Schwarz 3G System Simulator CRTU-W. The documentation below is enclosed as evidence of the successful test case run [1]:

- **Execution log files 8_3_1_24_Logs-Nokia-PS\Index.html**
These execution log files in HTML format show the dynamic behaviour of the test in a tabular view and in message sequence chart (MSC) view. All message contents are fully decoded and listed in hexadecimal format. Preliminary verdicts and the final test case verdict are listed in the log file.
- **PICS/PIXIT file 8_3_1_24-pics-pixit-Nokia-PS.html**
HTML file containing all PICS/PIXIT parameters used for testing the CS & PS mode

7 References

- [1] **T1s040672**
This archive comprises HTML Execution log files, PICS/PIXIT files and the TTCN MP file

CR-Form-v7	
CHANGE REQUEST	
# 34.123-3 CR 1065 # rev - #	Current version: 3.7.0 #

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Proposed change affects: UICC apps ME Radio Access Network Core Network

Title:	# Addition of RRC test case 8.3.2.2 to RRC ATS V3.7.0		
Source:	# Rohde & Schwarz		
Work item code:	# N/A	Date:	# 20/10/2004
Category:	# B	Release:	# R99
	Use <u>one</u> of the following categories:		Use <u>one</u> of the following releases:
	F (correction)		2 (GSM Phase 2)
	A (corresponds to a correction in an earlier release)		R96 (Release 1996)
	B (addition of feature),		R97 (Release 1997)
	C (functional modification of feature)		R98 (Release 1998)
	D (editorial modification)		R99 (Release 1999)
	Detailed explanations of the above categories can be found in 3GPP TR 21.900 .		Rel-4 (Release 4)
			Rel-5 (Release 5)
			Rel-6 (Release 6)

Reason for change:	# To add verified GCF package 4 RRC test case 8.3.2.2 to the approved RRC ATS V3.7.0
Summary of change:	# This document lists all changes applied to test case 8.3.2.2 required for approval. See detailed change description for further information.
Consequences if not approved:	# Test case will not be added to ATS

Clauses affected:	# N/A										
Other specs affected:	#										
	<table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td style="text-align: center; width: 20px;">Y</td> <td style="text-align: center; width: 20px;">N</td> </tr> <tr> <td style="text-align: center;">#</td> <td style="text-align: center;">X</td> </tr> <tr> <td></td> <td>Other core specifications</td> </tr> <tr> <td></td> <td>Test specifications</td> </tr> <tr> <td></td> <td>O&M Specifications</td> </tr> </table>	Y	N	#	X		Other core specifications		Test specifications		O&M Specifications
Y	N										
#	X										
	Other core specifications										
	Test specifications										
	O&M Specifications										
Other comments:	#										

How to create CRs using this form:

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- 1) Fill out the above form. The symbols above marked # contain pop-up help information about the field that they are closest to.
- 2) Obtain the latest version for the release of the specification to which the change is proposed. Use the MS Word "revision marks" feature (also known as "track changes") when making the changes. All 3GPP specifications can be downloaded from the 3GPP server under <ftp://ftp.3gpp.org/specs/> For the latest version, look for the directory name with the latest date e.g. 2001-03 contains the specifications resulting from the March 2001 TSG meetings.

- 3) With "track changes" disabled, paste the entire CR form (use CTRL-A to select it) into the specification just in front of the clause containing the first piece of changed text. Delete those parts of the specification which are not relevant to the change request.

Title: Changes to test case 8.3.2.2 required for approval
Source: Rohde & Schwarz
Agenda Item: TTCN Issues
Document for: Approval
Contact: Thomas Moosburger
thomas.moosburger@rsd.rohde-schwarz.com
Tel. +49 89 4129 11731

1 Overview

This document lists all the changes needed to correct problems in the TTCN implementation of test case 8.3.2.2 which is part of the RRC test suite. Only essential changes to the TTCN are applied and documented in section 4.

With these changes applied the test case can be demonstrated to run with one or more 3G UEs (see section 6). Execution log files are provided as evidence.

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3 Verification Test Summary

Test Case: TC_8_3_2_2
Test Group: RRC\URA_Update.
ATS Version: iWD-TVB2003-03_D04wk37 + essential modifications
System Simulator used: Rohde & Schwarz 3G system simulator CRTU-W
UE used: Nokia 6630 & Motorola A845
Verification Status: PASS

4 Corrections required for test case 8.3.2.2

4.1 Introduction

This section describes the changes required to make test case 8.3.2.2 run correctly with a 3G UE. All modifications are marked with label `WA#RRC<number>` for RRC related changes in the TTCN comments column of the enclosed ATS [1].

The ATS version used as basis was RRC_wk37.mp which is part of the iWD-TVB2003-03_D04wk37 release. This ATS, provided by MCC160 contains GCF package 1 to 4 test cases.

4.2 cas_InvalidDCCH_MsgUM (WA#RRC4415)

Test step name cas_InvalidDCCH_MsgUM
Reason for change The test case requires an Invalid message to be sent on RB1 (UM ñDCCH)
Summary of change Introduced new ASP constraint cas_InvalidDCCH_MsgUM
Source of change New change
Label WA#RRC4415

ASN.1 ASP Constraint Declaration	
Constraint Name:	cas_InvalidDCCH_MsgUM (p_CellId: INTEGER; p_RB_Id: INTEGER; p_Pdu: Invalid_DL_DCCH_Message)
Group:	
ASP Name:	RLC_UM_DATA_REQ
Derivation Path:	
Comments:	@SIC_NAPP WA#RRC4415
Constraint Value	
	{ cellId p_CellId, routingInfo rB_Identity: p_RB_Id, uM_message invalid_dL_DCCH_Message: p_Pdu, specialLI FALSE }

4.3 tc_8_3_2_2: It_TestBody (WA#RRC4412)

Test step name tc_8_3_2_2: It_TestBody
Reason for change According to the prose the URA Update message needs to be sent on DCCH
Summary of change Modified the MAC configuration to use U-RNTI in the mac Header
Source of change New change
Label WA#RRC4412

4.4 tc_8_3_2_2: It_TestBody (WA#RRC4413)

Test step name tc_8_3_2_2: It_TestBody
Reason for change According to the prose the URA Update message needs to be sent on DCCH
Summary of change Modified Line 19 to use new constraint cas_InvalidDCCH_MsgUM and to use RB1.
Source of change New change
Label WA#RRC4413

17	TBP1	TM ? RLC_TR_DATA_IND CANCEL t_WaitMS	car_URA_Update (tsc_Cella, tsc_RB0, cr_108_URA_Update (tcv_CellInfoA.uRNTI, periodicURAUpdate, noError:NULL))	(P)	Step 2 UE sends URA UPDATE with "URA update cause" set to "Periodic URA update".
18		+ts_CMAC_New_RNTI_Reconf (TRUE,tsc_Cella,tcv_CellInfoA.uRNTI, tcv_CellInfoA.cRNTI)			WA#RRC4412
19		UMTRLC_UM_DATA_REQ	cas_InvalidDCCH_MsgUM (tsc_CellDedicated,tsc_RB1, cs_InvalidURA_UpdateConf (tcv_CellIndInfo.dl_IntegrityChec kInfo, tcv_RRC_Ti))		Step 3 SS sends invalid URA UPDATE CONFIRM WA#RRC4413
20		START t_WaitMS			
21	TBF2	? TIMEOUT t_WaitMS		(F)	

5 Branches executed in test case 8.3.2.2

The test case implementation executed the PS branch with Integrity activated, Ciphering disabled, and AutoAttach Off.

6 Execution Log Files

6.1 Nokia 6630 3G UE

The Nokia 6630 passed this test case on Rohde & Schwarz 3G System Simulator CRTU-W. The documentation below is enclosed as evidence of the successful test case run [1]:

- **Execution log files 8_3_2_2_Logs-Nokia-PS\Index.html**
These execution log files in HTML format show the dynamic behaviour of the test in a tabular view and in message sequence chart (MSC) view. All message contents are fully decoded and listed in hexadecimal format. Preliminary verdicts and the final test case verdict are listed in the log file.
- **PICS/PIXIT file 8_3_2_2-pics-pixit-Nokia-PS.html**
HTML file containing all PICS/PIXIT parameters used for testing the CS & PS mode

6.2 Motorola A845 3G UE

The Motorola A845 passed this test case on Rohde & Schwarz 3G System Simulator CRTU-W. The documentation below is enclosed as evidence of the successful test case run [1]:

- **Execution log files 8_3_2_2_Logs-Motorola-PS\Index.html**
These execution log files in HTML format show the dynamic behaviour of the test in a tabular view and in message sequence chart (MSC) view. All message contents are fully decoded and listed in hexadecimal format. Preliminary verdicts and the final test case verdict are listed in the log file.
- **PICS/PIXIT file 8_3_2_2-pics-pixit-Motorola-PS.html**
HTML file containing all PICS/PIXIT parameters used for testing the CS & PS mode

7 References

- [1] **T1s040670**
This archive comprises HTML Execution log files, PICS/PIXIT files and the TTCN MP file

CR-Form-v7

CHANGE REQUEST

34.123-3 CR 1066 # rev - # Current version: **3.7.0**

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Proposed change affects: UICC apps ME Radio Access Network Core Network

Title:	# Addition of NAS test case 12.4.1.4c2 to NAS ATS V3.7.0		
Source:	# Rohde & Schwarz		
Work item code:	# N/A	Date:	# 15/10/2004
Category:	# B	Release:	# R99
	Use <u>one</u> of the following categories:		Use <u>one</u> of the following releases:
	F (correction)		2 (GSM Phase 2)
	A (corresponds to a correction in an earlier release)		R96 (Release 1996)
	B (addition of feature),		R97 (Release 1997)
	C (functional modification of feature)		R98 (Release 1998)
	D (editorial modification)		R99 (Release 1999)
	Detailed explanations of the above categories can be found in 3GPP TR 21.900 .		Rel-4 (Release 4)
			Rel-5 (Release 5)
			Rel-6 (Release 6)

Reason for change:	# To add verified GCF package 4 NAS test case 12.4.1.4c2 to the approved NAS ATS V3.7.0
Summary of change:	# This document lists all changes applied to test case 12.4.1.4c2 required for approval. See detailed change description for further information.
Consequences if not approved:	# Test case will not be added to ATS

Clauses affected:	# N/A						
Other specs affected:	<table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td style="width: 20px; text-align: center;">Y</td> <td style="width: 20px; text-align: center;">N</td> </tr> <tr> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> </tr> </table>	Y	N	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Other core specifications	#
Y	N						
<input type="checkbox"/>	<input checked="" type="checkbox"/>						
	<input type="checkbox"/>	Test specifications	#				
	<input type="checkbox"/>	O&M Specifications	#				
Other comments:	#						

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Comprehensive information and tips about how to create CRs can be found at <http://www.3gpp.org/specs/CR.htm>. Below is a brief summary:

- 1) Fill out the above form. The symbols above marked # contain pop-up help information about the field that they are closest to.
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- 3) With "track changes" disabled, paste the entire CR form (use CTRL-A to select it) into the specification just in front of the clause containing the first piece of changed text. Delete those parts of the specification which are not relevant to the change request.

Title: Changes to test case 12.4.1.4c2 required for approval
Source: Rohde & Schwarz
Agenda Item: TTCN Issues
Document for: Approval
Contact: Thomas Moosburger
thomas.moosburger@rsd.rohde-schwarz.com
Tel. +49 89 4129 11731

1 Overview

This document lists all the changes needed to correct problems in the TTCN implementation of test case 12.4.1.4c2 which is part of the NAS test suite. Only essential changes to the TTCN are applied and documented in section 4.

With these changes applied the test case can be demonstrated to run with one or more 3G UEs (see section 6). Execution log files are provided as evidence.

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3 Verification Test Summary

Test Case: TC_12_4_1_4c2
Test Group: GMM/ Routing_Area Updating / PS_only_RAU
ATS Version: iWD-TVB2003-03_D04wk31 + essential modifications
System Simulator used: Rohde & Schwarz 3G system simulator CRTU-W
UE used: Nokia 6630 & Motorola A845
Verification Status: PASS

4 Corrections required for test case 12.4.1.4c2

4.1 Introduction

This section describes the changes required to make test case 12.4.1.4c2 run correctly with a 3G UE. All modifications are marked with label **WA#NAS<number>** for NAS related changes in the TTCN comments column of the enclosed ATS [1].

The ATS version used as basis was NAS_wk31.mp which is part of the iWD-TVB2003-03_D04wk31 release. This is the most recent ATS provided by MCC160 which contains GCF package 1 to 4 test cases.

The enclosed ATS [1] contains a number of additional changes (see list below) in common test steps which are required for other tests, but which are not applicable to test case 12.4.1.4c2 :

WA#NAS4453, WA#NAS4395, WA#NAS4426 & WA#NAS4427

4.2 tc_12_4_1_4c2

4.2.1 WA#NAS4490

Test step name	tc_12_4_1_4c2
Reason for change	t_Guard timer too short
Summary of change	Increased t_Guard from 300 to 900
Source of change	New change
Label	WA#NAS4490

Test Case					
Test Case Id:	tc_12_4_1_4c2				
Test Group Reference:	GMM/Routing_Area Updating/PS_only_RAU/				
Purpose:	To test the behaviour of the UE if the network rejects the routing area updating with cause 'PS services not allowed in this PLMN'				
Configuration:					
Defaults:	NAS_OtherwiseFail				
Comments:	@SIC_NAPP @sic VB T1-041419 sic@ Initial conditions - SS : Three cells operating in network operation mode II - UE : The UE has a valid IMSI				
Nr	Label	Behaviour Description	Constraint Ref	Verdict	Comments
1		START t_Guard(900)			WA#NAS4490
2		+ts_InitVariables			
3		(tcv_CellInfoA.attenuationLevel := tsc_AttenuationServingCell, tcv_CellInfoA.t3212 := tsc_T3212_1)			Test case specific cell settings T3212 is set to 1 de cihour @sic VB only cell A is needed sic@

4.2.2 WA#NAS4556

Test step name	tc_12_4_1_4c2 : It_Attach_Steps_3To4
Reason for change	To be consistent with other NMO_I test cases, a mobile identity should be included in the attach accept message for the CS domain
Summary of change	Replaced "-" with "c_GMM_MobileIdIMSI"
Source of change	New change
Label	WA#NAS4556

It_Attach_Steps_3To4					
19	Dc ? RRC_DataInd (tcv_Start := RRC_DataInd.start)	car_PS_InitDirectTransfer(tsc_CellDedicated, tsc_RB3, cr_AttachReq (c_GMM_AttachTypeCombinedCS_PS, c_MobileIdPTMSI_Iv_Def, c_RAI_Def_v, tcv_PS_KeySeq))			Step 3. ATTACH REQUEST - Attach type is 'Combined GPRS/IMSI attach' - MobileId P-TMSI - RAI corresponding to cell A
20	+ts_SS_SecurityDownloadStart(ps_domain, tcv_Start)				
21	+ts_GMM_AuthenticateAndStartIntegrityProtection(tsc_CellA)				
22	Dc ! RRC_DataReq (tcv_AssignedPTMSI := px_PTMSI_2, tcv_Assigned_PTMSI_Sig := px_PTMSI_Sig2, tcv_T3312 := 360)	ca_PS_DataReq(tsc_CellDedicated, tsc_RB3, cs_AttachAcc5 (c_GMM_AttachResultCombinedCS_PS, c_RAI_Def_v, c_PTMSI_Signature (px_PTMSI_Sig2), c_MobileIdPTMSI (px_PTMSI_2), c_GMM_MobileIdIMSI, c_SPRS_Timer_v ('001'B, '00110'B)))			Step 4. ATTACH ACCEPT - Attach result "Combined GPRS/IMSI attached" - RAI corresponding to cell A - P-TMSI 2 - P-TMSI signature 2 - T3312 = 6 minutes WA#NAS4556
23	Dc ? RRC_DataInd	car_PS_UplinkDirectTransfer(tsc_CellDedicated, tsc_RB3, cr_AttachComplete)			Step 5. ATTACH COMPLETE
24	+ts_RRC_ConnRel(tsc_CellA, cell_Dch)				Step 5a

4.2.3 WA#NAS4492

Test step name	tc_12_4_1_4c2 : It_RAREj
Reason for change	According to the prose, Periodic RAU should be expected
Summary of change	Replaced "c_GMM_UpdateTypeRA_Updating" with

"c_GMM_UpdateTypePeriodicUpdating"

Source of change

New change

Label

WA#NAS4492

It_RARej				
25		? TIMEOUT t_LowerBound		Check T3312 (if timer expires > t_UpperBound, then failure at default step)
26	TBP1	TM ? RLC_TR_DATA_IND (tcv_InitialUE_Id := RLC_TR_DATA_IND.tm_message.uL_CCCH_Message.message.rrcConnectionRequest.initialUE_Identity) CANCEL t_UpperBound	car_RRC_ConnReq (tsc_CellA, tsc_RB0, cbr_108_RRC_ConnReq (registration))	(P)
27		+ ts_RRC_ConnEstEnd (tsc_CellA)		
28		Dc ? RRC_DataInd (tcv_Start := RRC_DataInd.start)	car_PS_InitDirectTransfer(tsc_CellDedicated, tsc_RB3, cr_RA_ReqAnyTS (c_GMM_UpdateTypePeriodicUpdating, c_RA_Def_v, c_PTMSI_Signature (px_PTMSI_Sig2), tcv_PS_KeySeq))	Step 6. ROUTING AREA UPDATING REQUEST - Update type = 'RA updating' - RA1 corresponding to cell A - P-TMSI-2 signature WA#NAS4492
29		+ ts_SS_SecurityDownloadStart (ps_domain, tcv_Start)		
30		Dc ! RRC_DataReq	ca_PS_DataReq(tsc_CellDedicated, tsc_RB3, cs_RA_Req ('DE'))	Step 7. ROUTING AREA UPDATING REJECT - cause = "PS services not allowed in this PLMN"

4.2.4 WA#NAS4644

Test step name

tc_12_4_1_4c2 : It_LocUpdStep8

Reason for change

Incorrect Cell Id

Summary of change

Replaced "tsc_CellA" with "tsc_CellDedicated"

Source of change

New change

Label

WA#NAS4644

31		(tcv_Duration := tcv_T3312 * 1000, tcv_Tolerance := tcv_Duration / 10)		
32		START t_UpperBound (tcv_Duration + tcv_Tolerance), START t_LowerBound (tcv_Duration - tcv_Tolerance)		Start T3212
33		? TIMEOUT t_LowerBound		Check T3312 (if timer expires > t_UpperBound, then failure at default step)
34	TBP1	TM ? RLC_TR_DATA_IND (tcv_InitialUE_Id := RLC_TR_DATA_IND.tm_message.uL_CCCH_Message.message.rrcConnectionRequest.initialUE_Identity) CANCEL t_UpperBound	car_RRC_ConnReq (tsc_CellA, tsc_RB0, cbr_108_RRC_ConnReq (registration))	(P)
35		+ ts_RRC_ConnEstEnd (tsc_CellA)		
36		Dc ? RRC_DataInd (tcv_Start := RRC_DataInd.start)	car_InitDirectTransfer(tsc_CellDedicated, tsc_RB3, c_LocUpdReqPeriodicLA_Req)	LOCATION UPDATING REQUEST WA#NAS4644

5 Branches executed in test case 12.4.1.4c2

The test case implementation executed the PS branch for NMO_I, UE_OpMode A with Integrity activated, Ciphering disabled, AutoAttach off & On.

6 Execution Log Files

6.1 Nokia 6630 3G UE

The Nokia 6630 passed this test case on Rohde & Schwarz 3G System Simulator CRTU-W. The documentation below is enclosed as evidence of the successful test case run [1]:

- **Execution log files 12_4_1_4c2_Logs-Nokia_AutoOff\Index.html**
Execution log files 12_4_1_4c2_Logs-Nokia_AutoOn\Index.html
These execution log files in HTML format show the dynamic behaviour of the test in a tabular view and in message sequence chart (MSC) view. All message contents are fully decoded and listed in hexadecimal format. Preliminary verdicts and the final test case verdict are listed in the log file.
- **PICS/PIXIT file 12_4_1_4c2-pics-pixit-Nokia_AutoOff.html**
PICS/PIXIT file 12_4_1_4c2-pics-pixit-Nokia_AutoOn.html
HTML file containing all PICS/PIXIT parameters used for testing the PS mode

6.2 Motorola A845 3G UE

The Motorola A845 passed this test case on Rohde & Schwarz 3G System Simulator CRTU-W. The documentation below is enclosed as evidence of the successful test case run [1]:

- **Execution log files 12_4_1_4c2_Logs-Motorola_AutoOn\Index.html**
These execution log files in HTML format show the dynamic behaviour of the test in a tabular view and in message sequence chart (MSC) view. All message contents are fully decoded and listed in hexadecimal format. Preliminary verdicts and the final test case verdict are listed in the log file.
- **PICS/PIXIT file 12_4_1_4c2-pics-pixit-Motorola_AutoOn.html**
HTML file containing all PICS/PIXIT parameters used for testing the PS mode

7 References

- [1] **T1s040665**
This archive comprises HTML Execution log files, PICS/PIXIT files and the TTCN MP file

CR-Form-v7

CHANGE REQUEST

34.123-3 CR 1067 # rev - # Current version: **3.7.0**

For **HELP** on using this form, see bottom of this page or look at the pop-up text over the # symbols.

Proposed change affects: UICC apps ME Radio Access Network Core Network

Title:	# Addition of RRC test case 8.3.1.25 to RRC ATS V3.7.0		
Source:	# Rohde & Schwarz/ Anite		
Work item code:	# N/A	Date:	# 11/10/2004
Category:	# B	Release:	# R99
	Use <u>one</u> of the following categories:		Use <u>one</u> of the following releases:
	F (correction)		2 (GSM Phase 2)
	A (corresponds to a correction in an earlier release)		R96 (Release 1996)
	B (addition of feature),		R97 (Release 1997)
	C (functional modification of feature)		R98 (Release 1998)
	D (editorial modification)		R99 (Release 1999)
	Detailed explanations of the above categories can be found in 3GPP TR 21.900 .		Rel-4 (Release 4)
			Rel-5 (Release 5)
			Rel-6 (Release 6)

Reason for change:	# To add verified GCF package 4 RRC test case 8.3.1.25 to the approved RRC ATS V3.7.0		
Summary of change:	# This document lists all changes applied to test case 8.3.1.25 required for approval. See detailed change description for further information.		
Consequences if not approved:	# Test case will not be added to ATS		

Clauses affected:	# N/A										
Other specs affected:	<table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td style="width: 20px; text-align: center;">Y</td> <td style="width: 20px; text-align: center;">N</td> </tr> <tr> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> </tr> <tr> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> </tr> </table>	Y	N	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Other core specifications	#
Y	N										
<input type="checkbox"/>	<input checked="" type="checkbox"/>										
<input checked="" type="checkbox"/>	<input type="checkbox"/>										
<input type="checkbox"/>	<input checked="" type="checkbox"/>										
		Test specifications									
		O&M Specifications									
Other comments:	#										

How to create CRs using this form:

Comprehensive information and tips about how to create CRs can be found at <http://www.3gpp.org/specs/CR.htm>. Below is a brief summary:

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Title: Changes to test case 8.3.1.25 required for approval
Source: Rohde & Schwarz
Agenda Item: TTCN Issues
Document for: Approval
Contact: Thomas Moosburger
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1 Overview

This document lists all the changes needed to correct problems in the TTCN implementation of test case 8.3.1.25 which is part of the RRC test suite. Only essential changes to the TTCN are applied and documented in section 4.

With these changes applied the test case can be demonstrated to run with one or more 3G UEs (see section 6). Execution log files are provided as evidence.

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3 Verification Test Summary

Test Case: TC_8_3_1_25
Test Group: RRC\RRC_CellUpdate.
ATS Version: iWD-TVB2003-03_D04wk37 + essential modifications
System Simulator used: Rohde & Schwarz 3G system simulator CRTU-W
UE used: Nokia 6630
Verification Status: PASS

4 Corrections required for test case 8.3.1.25

4.1 Introduction

This section describes the changes required to make test case 8.3.1.25 run correctly with a 3G UE. All modifications are marked with label **WA#RRC<number>** for RRC related changes in the TTCN comments column of the enclosed ATS [1].

The ATS version used as basis was RRC_wk37.mp which is part of the iWD-TVB2003-03_D04wk37 release. This ATS, provided by MCC160 contains GCF package 1 to 4 test cases.

4.2 tc_8_3_1_25 : It_LocalTest (WA#RRC4537)

Test step name	Tc_8_3_1_25 : It_LocalTest
Reason for change	After Cell A is switched off the UE goes to idle mode in CellB, Therefore the SS resources must be configured accordingly in CellB. Updated the Cell B Configuration and reconfigured the SRB's for the next RRC connection.
Summary of change	Added the following test step +ts_SS_ReconfDCH_ToFACH_CS_PS_8_3_4_2 (tsc_CellA) +ts_HO_ReconfFACH_ToFACH (tsc_CellA, tsc_CellB) (tcv_CellInfoB.cellConfig := cell_FACH_NoConn) +ts_CRLC_RelReconfSRB (tsc_CellB),
Source of change	New change
Label	WA#RRC4537

4.3 tc_8_3_1_25 : It_GoToInitialState (WA#RRC4538)

Test step name	Tc_8_3_1_25 : It_LocalTest
Reason for change	Opmode A Condition Can also apply to 6-9 or 6-10 State.
Summary of change	Proposed to Add pc_PS_ServiceAndCS_Service condition to goto state

pr_GotoState6_14

Source of change New change

Label WA#RRC4538

It_TestBody			
15	+ts_SS_SwitchCellOff (tsc_CellA)		Step 2 T1 power settings @sic OG 25/05/04 T1-040940 sic@
16	+ts_SetAttenuationLevel (tsc_CellB, tsc_AttLevToPower60_dBm)		Step 2
17	+ts_SS_ReconfDCH_ToFACH_CS_PS_8_3_4_2 (tsc_CellA)		WA#RRC4537
18	+ts_HO_ReconfFACH_ToFACH (tsc_CellA, tsc_CellB)		WA#RRC4537
19	(tcv_CellInfoB.cellConfig := cell_FACH_NoConn)		WA#RRC4537
20	+ts_CRLC_RelReconfSRB (tsc_CellB)		WA#RRC4537
21	+ts_RRC_Delay (tsc_WaitBeforePaging)		Step 3 SS waits 5 Secs to allow UE to go to Idle
22	+ts_C1_CheckIdleMode (tsc_CellB)		Step 4
It_RRC_InitVariables			
23	+ts_RRC_InitVariables (cell_DCH)		
24	(tcv_CellInfoA.attenuationLevel := tsc_AttLevToPower60_dBm, tcv_CellInfoB.attenuationLevel := tsc_AttLevToPower75_dBm)		
It_GoToInitialState			
25	[pc_PS_ServiceAndCS_Service]		If UE is in operation mode A then UE supports combined PS/CS. WA#RRC4538
26	+pr_GotoState6_14_PS_CS_NewSIB1 (tsc_CellA, tcv_SIB1)		
27	[TRUE]		If UE supports either PS or CS
28	+pr_GotoState6_9_Or6_10_MO_NewSIB1 (tsc_CellA, tcv_SIB1)		

4.4 pr_GotoState6_9_Or6_10_MO_NewSIB1_multi (WA#RRC4539)

Test step name pr_GotoState6_9_Or6_10_MO_NewSIB1_multi

Reason for change The PS RB 20 is initially configured on tsc_DL_DCH1/ tsc_UL_DCH1 and when the speech services are setup , the PS RB 20 is changed to tsc_DL_DCH4/tsc_UL_DCH4 and RB 10 is configured on tsc_DL_DCH1/ tsc_UL_DCH1. This information is not updated to the UE in the AddReconfigTransChannel Info List to the UE. This causes the RAB setup to fail.

Summary of change In order to avoid confusion the proposed WA updates the configuration based on 34.123 sec 8.3.14 (for Speech +64K services). Introduced the following new test step

pr_GotoState6_9_Or6_10_MO_NewSIB1_multi

ts_RRC_RAB_EstPS_MO_P13_P14_multi

ts_RRC_SetUpRAB_multi

ts_RRC_SendRB_SetUpDCH_64k_PS_multi

To assign RB20 to _DL_DCH4/tsc_UL_DCH4 in the first Radio Bearer setup procedure.

Source of change New change

Label WA#RRC4539

4.5 cbs_108_RB_SetUp64k_PS_multi (WA#RRC4540)

Test step name cbs_108_RB_SetUp64k_PS_multi

Reason for change The PS RB 20 is initially configured on tsc_DL_DCH1/ tsc_UL_DCH1 and when the speech services are setup , the PS RB 20 is changed to

tsc_DL_DCH4/tsc_UL_DCH4. RB 10 is configured on tsc_DL_DCH1/
tsc_UL_DCH1. This information is not updated to the UE in the
AddReconfigTransChannel Info List to the UE. This causes the RAB setup to
fail.

Summary of change Added the following constraints

- cbs_108_RB_SetUp64k_PS_multi
- c_RAB_InfoSetupDCH_PS_64k_multi
- c_UL_AddReconfTransChInfoListDCH_PS_64k_multi
- c_DL_AddReconfTransChInfoListDCH_PS_64k_multi
- c_DCH_336_148_UL_Info_multi
- c_DCH_336_148_DL_Info_multi
- c_TrChInfoUL_336_148_multi,
- c_TrChInfoDL_336_148_multi
- c_TrLogMappingUL_4DCCH_1DTCH_PS_multi
- c_TrLogMappingDL_4DCCH_1DTCH_PS_multi

To assign RB20 to _DL_DCH4/tsc_UL_DCH4 in the first Radio Bearer
setup procedure.

Source of change New change

Label WA#RRC4540

4.6 pr_GotoState6_14_PS_CS_NewSIB1 (WA#RRC4542)

Test step name pr_GotoState6_14_PS_CS_NewSIB1

Reason for change The PS RB 20 is initially configured on tsc_DL_DCH1/ tsc_UL_DCH1 and
when the speech services are setup , the PS RB 20 is changed to
tsc_DL_DCH4/tsc_UL_DCH4. RB 10 is configured on tsc_DL_DCH1/
tsc_UL_DCH1. This information is not updated to the UE in the
AddReconfigTransChannel Info List to the UE. This causes the RAB setup to
fail.

Summary of change Called the new test step +pr_GotoState6_9_Or6_10_MO_NewSIB1_multi.

Source of change New change

Label WA#RRC4542

4.7 pr_GotoState6_14_PS_CS_NewSIB1 (WA#RRC4541)

Test step name pr_GotoState6_14_PS_CS_NewSIB1

Reason for change The variable Cellconfig should not be updated at this point as the RABs are
not yet set up.This would also fail in the test step ts_CalculateActTime as this
condition does not match.

Summary of change removed the call for test step + It_SetCellConfig, after +
ts_NAS_PagingRspCS (p_CellId) and also the local tree It_SetCellConfig

Source of change New change

Label WA#RRC4541

4.8 pr_GotoState6_14_PS_CS_NewSIB1 (WA#RRC4543)

Test step name pr_GotoState6_14_PS_CS_NewSIB1

Reason for change The TI Flag needs to be updated for the Connect Acknowledge message

Summary of change Added (tcv_TI_S.tiFlag := '0'B) before ts_CC_ReceiveAlertConnect

Source of change New change

Label WA#RRC4543

Test Step			
Test Step Id:	pr_GotoState6_14_PS_CS_NewSIB1 (p_CellId :INTEGER; p_SIB : SysInfoType1)		
Test Step Group Ref:	RRC_Preambles/		
Objective:	To bring UE to state 6-10 (using a specific SIB1 message) for PS Cell DCH DTCH and then invoke p24 to move UE to state 6-14		
Defaults:	RRC_Def1		
Comments:	@SIC_NAPP WA#RRC4541		
...	Behaviour Description	Constraint Ref	Comments
1	[px_RAT=fdd]		FDD specific behaviour
2	[pc_CS AND pc_PS]		
3	+ts_RRC_InitVariablesPS (cell_DCH)		
4	+pr_GotoState6_9_Or6_10_MO_NewSIB1_multi (p_CellId, p_SIB)		WA#RRC4542
5	+ It_RRC_InitSerVarCS		
6	AM I RLC_AM_DATA_REQ	cas_PagingType2(tsc_CellDedicated, tsc_RB2, cs_108_PagingType2 (tcv_CellIndInfo.dL_IntegrityCheckInfo, tcv_RRC_TI, tcv_CN_Domain, tcv_RRC_PagingCau))	step 4
7	+ ts_NAS_PagingRspCS (p_CellId)		
8	+ ts_RRC_NAS_CallSetupCS_MT_P7_P8 (p_CellId)		
9	+It_RabSetup		Radio bearer setup procedure
10	(tcv_TI_S.tiFlag = '0'B)		WA#RRC4543
11	+ ts_CC_ReceiveAlertConnect (p_CellId)		
12	[TRUE]		I Not applicable
13	E [px_RAT=tdd]		I TDD specific behaviour
R1			
It_RRC_InitSerVarCS			

4.9 c_DL_AddReconfTransChInfoListTM_12_2k_multi/ c_UL_AddReconfTransChInfoListTM_12_2k_multi (WA#RRC4546)

Test step name c_DL_AddReconfTransChInfoListTM_12_2k_multi/ c_UL_AddReconfTransChInfoListTM_12_2k_multi

Reason for change The information about tsc_UL_DCH5 and tsc_DL_DCH5 is not required as this is not modified.

Summary of change Created new constraint without the information about DCH-5 (UL/DL)

Source of change New change

Label WA#RRC4546

ASN.1 Type Constraint Declaration	
Constraint Name:	c_UL_AddReconfTransChInfoListTM_12_2k_multi
Group:	
Type Name:	UL_AddReconfTransChInfoList
Derivation Path:	
Encoding Variation:	
Comments:	WA#RRC4540
Constraint Value	
<pre> { { ul_TransportChannelType dch, transportChannelIdentity tsc_UL_DCH1, transportFormatSet dedicatedTransChTFS: c_DCH_81_TFS_UE }, { ul_TransportChannelType dch, transportChannelIdentity tsc_UL_DCH2, transportFormatSet dedicatedTransChTFS: c_DCH_103_TFS_UE }, { ul_TransportChannelType dch, transportChannelIdentity tsc_UL_DCH3, transportFormatSet dedicatedTransChTFS: c_DCH_60_TFS_UE } } </pre>	

ASN.1 Type Constraint Declaration	
Constraint Name:	c_DL_AddReconfTransChInfoListTM_12_2k_multi
Group:	
Type Name:	DL_AddReconfTransChInfoList
Derivation Path:	
Encoding Variation:	
Comments:	WA#RRC4540
Constraint Value	
<pre> { { dl_TransportChannelType dch, dl_transportChannelIdentity tsc_DL_DCH1, tfs_SignallingMode explicit_config : dedicatedTransChTFS : c_DCH_81_TFS_DL_UE, dch_QualityTarget OMIT }, c_DL_AddReconfTransChInfo_WithoutQuality(tsc_DL_DCH2, tsc_UL_DCH2), c_DL_AddReconfTransChInfo_WithoutQuality(tsc_DL_DCH3, tsc_UL_DCH3) } </pre>	

4.10 ts_SendRB_SetUpInteractBackg_64k_ConvSpeech_CS_PS (WA#RRC4557)

Test step name	ts_SendRB_SetUpInteractBackg_64k_ConvSpeech_CS_PS
Reason for change	As per 34.108 message specific content for Radio Bearer Setup message channelisation code sent should be sf32:0. In Radio bearer set up message used the new UL/DL AddReconfTransChInfoListT
Summary of change	Replace the following in the RAB setup message tsc_Sfc32 with tsc_DL_DPCH1_ChC_64k_PS. Added the new constraints. c_UL_AddReconfTransChInfoListTM_12_2k_multi c_DL_AddReconfTransChInfoListTM_12_2k_multi
Source of change	New change
Label	WA#RRC4557

Test Step				
Test Step Id:	ts_SendRB_SetUpInteractBackg_64k_ConvSpeech_CS_PS (p_CellId: INTEGER; p_RAB_Id : BITSTRING; p_ActTime : ActivationTime)			
Test Step Group Ref:	RRCM_RB_Establishment/			
Objective:				
Defaults:	RRC_Def1			
Comments:				
...	La...	Behaviour Description	Constraint Ref	Comme...
1		+ ts_SetTmpCellInfo (p_CellId)		
2		AM I RLC_AM_DATA_REQ	<pre> cas_RB_SetUpAM_WithCnt(tsc_CellDedicated, tsc_RB2, tsc_Mui, cs_RRC_RB_SetUp(tcv_CellIndInfo.dl_IntegrityCheckInfo, tcv_RRC_TI, p_ActTime, cell_DCH, OMIT, { c_RAB_InfoSetupTM_12_2k (c_ReEstTimerT314, p_RAB_Id), c_UL_CommTrChInfo_TM3_AM1_0To119 (c_PowerOffsetInfoHigher64k, c_UL_AddReconfTransChInfoListTM_12_2k_multi, c_DL_CommonTransChInfo_TM3_AM1_0_119, c_DL_AddReconfTransChInfoListTM_12_2k_multi, c_DL_InformationPerRL @cv_TmpCellInfo.plScrmCode, tsc_DL_DPCH1_ChC_64k_PS@tcv_TmpCellInfo.dl_DPCH_2ndScrCode), c_DL_CommonInformationRB_SetUp(tsc_Sfd32) , cb_UL_DPCH_Info (tsc_Sfd16, pl0_76, tcv_TmpCellInfo.ul_ScramblingCode) , OMIT)) </pre>	WA#RRC4557

4.11 ts_5DCH_ModifyConvSpeech_InteractBackg_64k_64k (WA#RRC4558)

Test step name ts_5DCH_ModifyConvSpeech_InteractBackg_64k_64k

Reason for change As per 34.108 message specific content for Radio Bearer Setup message channelisation code sent should be sf32:0.

Therefore the local configuraiont should be set to sf32:0

Summary of change Replace the following in the CPHYICPHY_RL_Modify_REQ

cb_DL_DPCH_64K_PS

Source of change New change

Label WA#RRC4558

Test Step				
Test Step Id:	ts_5DCH_ModifyConvSpeech_InteractBackg_64k_64k (p_CellId : INTEGER; p_ActTime : ActivationTime; p_DL_CommonInformation : DL_CommonInformation; p_UL_DPCH_Info : UL_DPCH_Info)			
Test Step Group Ref:	RRCM_SS_Steps/			
Objective:	to configure physical channel DPCH1 and connect DCH1,DCH2,DCH3,DCH4 and DCH5 to the physical channel, then map DCCH1-4 on to the DCH5 transport channel and map DTCH(subflow#1),DTCH(subflow#2), DTCH(subflow#3) , DTCH(subflow#4) to the DCH1,DCH2,DCH3 and DCH4 transport channel respectively. Used for Conversational Speech/UL:12.2 kbps DL:12.2 kbps/ Interactive or background / UL: 64 DL:64 kbps / PS RAB + UL:3.4 DL: 3.4 kbps SRBs for DCCH			
Defaults:	RRC_Def1			
Comments:				
...	La...	Behaviour Description	Constraint Ref	Comments
1		[px_RAT = fdd]		
2		CPHYICPHY_RL_Modify_REQ	<pre> ca_DL_DPCH_ModifyInfo (p_CellId, tsc_DL_DPCH1, cb_DL_DPCH_64K_PS(p_DL_CommonInformation,tcv_TmpCellInfo.dl_DPCH_2ndScrCode),p_ActTime) </pre>	1. @sic T1-0401416 sic@ WA#RRC4558

4.12 ts_SS_ReconfDCH_ToFACH_CS_PS_8_3_4_2 (WA#RRC4546)

Test step name ts_SS_ReconfDCH_ToFACH_CS_PS_8_3_4_2

Reason for change In cell_Four_DTCH_CS_PS the PS RB 20 is already configured therefore this should not be configured again.

Summary of change Added condition [(tcv_TmpCellInfo.cellConfig = cell_DCH_Speech)], so that the RB20 is not configured for cell_Four_DTCH_CS_PS

Source of change New change

Label WA#RRC4546

Test Step			
Test Step Id:	ts_SS_ReconfDCH_ToFACH_CS_PS_8_3_4_2 (p_CellId : INTEGER)		
Test Step Group Ref:	RRC_SS_Steps/		
Objective:	Switch SS configuration from CELL_DCH state to CELL_FACH state		
Defaults:	SS_Def		
Comments:	@sic OG 10/08/04 ER1932 sic@ WA#RRC4546		
...	Behaviour Description	Constraint Ref	Comments
1	+ts_SetTmpCellInfo (p_CellId)		
2	[tcv_TmpCellInfo.cellConfig = cell_DCH_64kPS_RAB_SRB]		
3	+ts_SS_2_FACH_1_RACH_Modify (p_CellId, c_TrLogMappingRACH_DTCH, c_TrLogMappingPCH_FACH_PS)		
4	+ts_SetCellCfg (p_CellId, cell_FACH_PS)		@sic Thomas ER1988 sic@
5	[(tcv_TmpCellInfo.cellConfig = cell_DCH_Speech) OR (tcv_TmpCellInfo.cellConfig = cell_Four_DTCH_CS_PS)]		
6	+ts_CRLC_Rel (tsc_CellDedicated, tsc_RB10)		
7	+ts_CRLC_Rel (tsc_CellDedicated, tsc_RB11)		
8	+ts_CRLC_Rel (tsc_CellDedicated, tsc_RB12)		
9	+ts_SS_2_FACH_1_RACH_Modify (p_CellId, c_TrLogMappingRACH_DTCH, c_TrLogMappingPCH_FACH_PS)		
10	[(tcv_TmpCellInfo.cellConfig = cell_DCH_Speech)]		
11	+ts_SS_RB20_AM_PS_Cfg (320)		
12	+ts_SetCellCfg (p_CellId, cell_FACH_PS)		
13	[TRUE]		
14	+ts_SetCellCfg (p_CellId, cell_FACH_PS)		
15	[(tcv_TmpCellInfo.cellConfig = cell_DCH_64kCS_RAB_SRB) OR (tcv_TmpCellInfo.cellConfig = cell_DCH_57_6kCS_RAB_SRB) OR (tcv_TmpCellInfo.cellConfig = cell_Two_DTCH_CS_PS)]		
16	+ts_CRLC_Rel (tsc_CellDedicated, tsc_RB10)		
17	+ts_SS_2_FACH_1_RACH_Modify (p_CellId, c_TrLogMappingRACH_DTCH, c_TrLogMappingPCH_FACH_PS)		
18	+ts_SS_RB20_AM_PS_Cfg (320)		
19	+ts_SetCellCfg (p_CellId, cell_FACH_PS)		

4.13 ts_C1_CheckIdleMode (WA#RRC4547)

Test step name ts_C1_CheckIdleMode

Reason for change In ts_C1_CheckIdleMode the cell id is passed in as a parameter and there fore ts_RRC_ConnRel in line 18 should use p_CellId

Summary of change Modified Line 18 to use ts_RRC_ConnRel (p_CellId)

Source of change New change

Label WA#RRC4547

13	[tcv_TmpCellInfo.cellConfig = cell_FACH_NoConn]		
14	UMIRLC_UM_DATA_REQ	cas_RRC_ConnSetup(p_CellId, tsc_RB0, cbs_108_RRC_ConnSetupFACH (tcv_InitialUE_Id, tcv_RRC_Ti, tcv_TmpCellInfo.priScrmCode , tcv_TmpCellInfo.uRNTI , tcv_TmpCellInfo.cRNTI, tcv_TmpCellInfo.uL_ScramblingCode))	step 3
15	+ ts_RRC_ReceiveConnSetupCmpl (p_CellId)		step 4
16	+ ts_SetCellCfg (p_CellId, cell_FACH)		
17	+ ts_NAS_PagingRsp (p_CellId)		step 5
18	+ ts_RRC_ConnRel (p_CellId , cell_Fach_Dcch)		steps 6-7 WA#RRC4547
19	E R R [TRUE]		I
20	TS F ? TIMEOUT t_WaitMS		(F)

5 Branches executed in test case 8.3.1.25

The test case implementation executed the CS and PS branch with Integrity activated, Ciphering disabled, and AutoAttach Off.

6 Execution Log Files

6.1 Nokia 6630 3G UE

The Nokia 6630 passed this test case on Rohde & Schwarz 3G System Simulator CRTU-W. The documentation below is enclosed as evidence of the successful test case run [1]:

- Execution log files 8_3_1_25_Logs-Nokia-PS\Index.html**
Execution log files 8_3_1_25_Logs-Nokia-CS\Index.html
Execution log files 8_3_1_25_Logs-Nokia-PS-CS\Index.html
 These execution log files in HTML format show the dynamic behaviour of the test in a tabular view and in message sequence chart (MSC) view. All message contents are fully decoded and listed in hexadecimal format. Preliminary verdicts and the final test case verdict are listed in the log file.
- PICS/PIXIT file 8_3_1_25-pics-pixit-Nokia-CS.html**
PICS/PIXIT file 8_3_1_25-pics-pixit-Nokia-PS.html
PICS/PIXIT file 8_3_1_25-pics-pixit-Nokia-PS-CS.html
 HTML file containing all PICS/PIXIT parameters used for testing the CS & PS mode

7 References

- [1] **T1s040659**
 This archive comprises HTML Execution log files, PICS/PIXIT files and the TTCN MP file

CR-Form-v7

CHANGE REQUEST

34.123-3 CR 1068 # rev - # Current version: **3.7.0**

For **HELP** on using this form, see bottom of this page or look at the pop-up text over the # symbols.

Proposed change affects: UICC apps# ME Radio Access Network Core Network

Title:	# Addition of NAS test case 12.6.1.3.3 to NAS ATS V3.7.0		
Source:	# Rohde & Schwarz		
Work item code:	# N/A	Date:	# 08/10/2004
Category:	# B	Release:	# R99
	Use <u>one</u> of the following categories:		Use <u>one</u> of the following releases:
	F (correction)		2 (GSM Phase 2)
	A (corresponds to a correction in an earlier release)		R96 (Release 1996)
	B (addition of feature),		R97 (Release 1997)
	C (functional modification of feature)		R98 (Release 1998)
	D (editorial modification)		R99 (Release 1999)
	Detailed explanations of the above categories can be found in 3GPP TR 21.900 .		Rel-4 (Release 4)
			Rel-5 (Release 5)
			Rel-6 (Release 6)

Reason for change:	# To add verified GCF package 4 NAS test case 12.6.1.3.3 to the approved NAS ATS V3.7.0
Summary of change:	#
Consequences if not approved:	# Test case will not be added to ATS

Clauses affected:	# N/A				
Other specs affected:	<table border="1" style="display: inline-table; vertical-align: middle;"> <tr> <td style="width: 20px; text-align: center;">Y</td> <td style="width: 20px; text-align: center;">N</td> </tr> <tr> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> </tr> </table> Other core specifications #	Y	N	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Y	N				
<input type="checkbox"/>	<input checked="" type="checkbox"/>				
	<table border="1" style="display: inline-table; vertical-align: middle;"> <tr> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> </tr> </table> Test specifications #	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
<input type="checkbox"/>	<input checked="" type="checkbox"/>				
	<table border="1" style="display: inline-table; vertical-align: middle;"> <tr> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> </tr> </table> O&M Specifications #	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
<input type="checkbox"/>	<input checked="" type="checkbox"/>				
Other comments:	#				

How to create CRs using this form:

Comprehensive information and tips about how to create CRs can be found at <http://www.3gpp.org/specs/CR.htm>. Below is a brief summary:

- 1) Fill out the above form. The symbols above marked # contain pop-up help information about the field that they are closest to.
- 2) Obtain the latest version for the release of the specification to which the change is proposed. Use the MS Word "revision marks" feature (also known as "track changes") when making the changes. All 3GPP specifications can be downloaded from the 3GPP server under <ftp://ftp.3gpp.org/specs/> For the latest version, look for the directory name with the latest date e.g. 2001-03 contains the specifications resulting from the March 2001 TSG meetings.

- 3) With "track changes" disabled, paste the entire CR form (use CTRL-A to select it) into the specification just in front of the clause containing the first piece of changed text. Delete those parts of the specification which are not relevant to the change request.

Title: Approval of test case 12.6.1.3.3
Source: Rohde & Schwarz
Agenda Item: TTCN Issues
Document for: Approval
Contact: Thomas Moosburger
thomas.moosburger@rsd.rohde-schwarz.com
Tel. +49 89 4129 11731

1 Overview

This document lists the various branches & execution details needed to verify the TTCN implementation of test case 12.6.1.3.3 is part of the NAS test suite.

With these changes applied the test case can be demonstrated to run with one or more 3G UEs (see section 5). Execution log files are provided as evidence.

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3 Verification Test Summary

Test Case: TC_12_6_1_3_3
Test Group: GMM/ Authentication_and_ciphering
ATS Version: iWD-TVB2003-03_D04wk37+ essential modifications
System Simulator used: Rohde & Schwarz 3G system simulator CRTU-W
UE used: Nokia 6630 and Motorola A845
Verification Status: PASS

4 Corrections required for test case 12.6.1.3.3

4.1 Introduction

This section describes the changes required to make test case 12.6.1.3.3 run correctly with a 3G UE. All modifications are marked with label `WA#NAS<number>` for NAS related changes in the TTCN comments column of the enclosed ATS [1].

The ATS version used as basis was NAS_wk37.mp which is part of the iWD-TVB2003-03_D04wk37 release. This is the most recent ATS provided by MCC160 which contains GCF package 1 to 4 test cases.

4.2 tc_12_6_1_3_3: It_TestBody (WA#NAS4467)

Test step name tc_12_6_1_3_3: It_TestBody

Reason for change The test case should also handle the situation when Auto Attach is off. So `its_MMI_UE_SwitchOnTriggerGMM_Attach` should be used instead of `its_GMM_SwitchOrPwrOn` for step 2.

Summary of change Used `its_MMI_UE_SwitchOnTriggerGMM_Attach` instead of `its_GMM_SwitchOrPwrOn` in line 13.

Source of change New change

Label WA#NAS4467

Test Case					
Test Case Id:	tc_12_6_1_3_3				
Test Group Reference:	GMM/Authentication_and_ciphering/				
Purpose:	To test the behaviour of the UE when the network does not correctly authenticates, i.e when there is a danger that the network may be fraudulent.				
Configuration:					
Defaults:	NAS_OtherwiseFail				
Comments:	@SIC_NAPP Initial conditions - SS : Two cells operating in network operation mode II - UE : The UE has a valid IMSI WA#NAS4464				
Nr	Label	Behaviour Description	Constraint Ref	Verdict	Comments
1		START_t_Guard(300)			
2		+ts_InitVariables			

		tcv_CellInfoA.rac, tcv_CellInfoA.nmo)		
9		+ts_GMM_SwitchOff_AfterPSRejection(tsc_CellA, tcv_CellInfoA.attFlag)		
10		+lt_TestBody		
11		+po_ConnectionAndSS_Reis		
lt_TestBody				
12		(tcv_TestBody := TRUE)	(P)	
13		+ts_MMI_UE_SwitchOnTriggerGMM_Attach		@sic VB T1s-040202 sic@ WA#NAS4464
14		+ts_RRC_ConnEst(tsc_CellA, est_Reg, registration)		
15		+lt_AuthFailure_Steps_3To7		@sic VB ER1562 sic@
16		+lt_Activate_CellB		Step 9
17		+ts_AT_TriggerGMM_Attach		Step 10
18		+lt_AuthFailure_Steps_11To13		
19		+ts_VerifyNoAccess (30)i		Step 14

4.3 tc_12_6_1_3_3: lt_TestBody (WA#NAS4464)

Test step name tc_12_6_1_3_3: lt_TestBody

Reason for change Step 8 (iSS verifies that the UE does not attempt to access the network for 30s. i) is always executed in the TTCN although it is an optional step for R99 and REL-4.

So if the UE follows R99 and REL-4 after step 7 the next step expected would be step 9 (7a, 7b and 8 are optional).

Even REL-5 is followed, step 8 is implemented in i!t_AuthAndCiphFailure_Step_7i so line 17 its_VerifyNoAccess (30)i should be removed.

Summary of change Removed line 17 its_VerifyNoAccess (30)i.

Source of change New change

Label WA#NAS4464

Test Case					
Test Case Id:	tc_12_6_1_3_3				
Test Group Reference:	GMM/Authentication_and_ciphering/				
Purpose:	To test the behaviour of the UE when the network does not correctly authenticates, i.e when there is a danger that the network may be fraudulent.				
Configuration:					
Defaults:	NAS_OtherwiseFail				
Comments:	@SIC_NAPP Initial conditions - SS : Two cells operating in network operation mode II - UE : The UE has a valid IMSI WA#NAS4464				
Nr	Label	Behaviour Description	Constraint Ref	Verdict	Comments
1		START+ Guard(300)			

It_TestBody			
12	(tcv_TestBody := TRUE)		(P)
13	+ts_MMI_UE_SwitchOnTriggerGMM_Attach		@sic VB T1s-040202 sic@ WA#NAS4467
14	+ts_RRC_ConnEst(tsc_CellA, est_Reg, registration)		
15	+It_AuthFailure_Steps_3To7		@sic VB ER1562 sic@
16	+It_Activate_CellB		Step 9
17	+ts_AT_TriggerGMM_Attach		Step 10
18	+It_AuthFailure_Steps_11To13		
19	+ts_VerifyNoAccess (20)		Step 14
20	+ts_VerifyNoAccess (30)		Step 15
21	+ts_AT_TriggerGMM_Attach		Step 16
22	+ts_VerifyNoAccess (30)		Step 17
23	(tcv_CellInfoA.cellConfig := cell_NoDPCH, tcv_CellInfoB.cellConfig := cell_ DCH_StandAloneSRB_NoConn)		WA#NAS4465
It_AuthFailure_Steps_3To7			
24	Dc ? RRC DataInd	car PS InitDirectTransfer(tsc_CellDedicated, tsc_RB)	Step 3. ATTACH REQUEST

4.4 tc_12_6_1_3_3 (WA#NAS4466)

Test step name tc_12_6_1_3_3

Reason for change Accordind to the protocol specs:

ïFor R99 and REL-4: SS waits 30 seconds. If the UE sends an AUTHENTICATION AND CIPHERING FAILURE message during this time then the SS repeats the authentication procedure a third time and then waits 30 seconds. **The UE moves into idle mode** and do not make any access attempt on Cell A.

For REL-5 or later release: The SS repeats a third time the authentication procedure, again with an incorrect Message Authentication Code (MAC) value in its AUTHENTICATION AND CIPHERING REQUEST message. **The UE moves into idle mode** and do not make any access attempt on Cell A.ï

So line 34 calling its_RRC_ConnRelï should be removed as the UE should be in ïidle modeï (no RRC connection).

Summary of change Removed line 34 calling its_RRC_ConnRel(tsc_CellA, cell_Dch)ï

Source of change New change

Label WA#NAS4466

Test Case					
Test Case Id:	tc_12_6_1_3_3				
Test Group Reference:	GMM/Authentication_and_ciphering/				
Purpose:	To test the behaviour of the UE when the network does not correctly authenticates, i.e when there is a danger that the network may be fraudulent.				
Configuration:					
Defaults:	NAS_OtherwiseFail				
Comments:	@SIC_NAPP Initial conditions - SS : Two cells operating in network operation mode II - UE : The UE has a valid IMSI WA#NAS4464				
Nr	Label	Behaviour Description	Constraint Ref	Verdict	Comments
1		START_t_Guard(300)			
2		+ts_InitVariables			

It_AuthFailure_Steps_3To7			
24	Dc ? RRC_DataInd (tcv_Start := RRC_DataInd.start)	car_PS_InitDirectTransfer(tsc_CellDedicated, tsc_RB3, cr_AttachReq (c_GMM_AttachTypePS_Only, c_MobileIdIMSI_Iv, ?, tcv_PS_KeySeq))	Step 3. ATTACH REQUEST - Attach type is 'PS attach' - Mobile Id = IMSI
25	+ts_SS_SecurityDownloadStart(ps_domain, tcv_Start)		
26	+ts_GMM_AuthenticationInit_InvalidMAC		Compute AUTN with invalid MAC @sic VB ER1564 sic@
27	Dc ! RRC_DataReq	ca_PS_DataReq(tsc_CellDedicated, tsc_RB3, cs_AuthAndCiphReq (c_GMM_AuthRAND(tcv_AuthRAND), c_GMM_KeySeq_tv(tcv_PS_KeySeq), c_GMM_AuthAUTN(tcv_AuthAUTN)))	Step 4. AUTHENTICATION AND CIPHERING REQUEST
28	Dc ? RRC_DataInd	car_PS_UplinkDirectTransfer(tsc_CellDedicated, tsc_RB3, cr_AuthAndCiphFailure ('14'0, *))	Step 5. AUTHENTICATION AND CIPHERING FAILURE - GMM cause is 'MAC failure'
29	Dc ! RRC_DataReq	ca_PS_DataReq(tsc_CellDedicated, tsc_RB3, cs_AuthAndCiphReq (c_GMM_AuthRAND(tcv_AuthRAND), c_GMM_KeySeq_tv(tcv_PS_KeySeq), c_GMM_AuthAUTN(tcv_AuthAUTN)))	Step 6. AUTHENTICATION AND CIPHERING REQUEST
30	+It_AuthAndCiphFailure_Step_7		
31	(tcv_PS_KeySeq := '111'B)		Invalidate ciphering key sequence number WA#NAS4466
It_AuthAndCiphFailure_Step_7			

4.5 tc_12_6_1_3_3: It_TestBody (WA#NAS4465)

Test step name tc_12_6_1_3_3: It_TestBody

Reason for change According to the protocol specs:

For R99 and REL-4: SS waits 30 seconds. If the UE sends an AUTHENTICATION AND CIPHERING FAILURE message during this time then the SS repeats the authentication procedure a third time and then waits 30 seconds. **The UE moves into idle mode** and do not make any access attempt on Cell A.

For REL-5 or later release: The SS repeats a third time the authentication procedure, again with an incorrect Message Authentication Code (MAC) value in its AUTHENTICATION AND CIPHERING REQUEST message. **The UE moves into idle mode** and do not make any access attempt on Cell A.

So the cell configurations must be updated accordingly in order to release the channels properly at the postamble:

The configuration for cell A should be updated to cell_NoDPCH (there are not dedicated resources in this cell) and for cell B to cell_DCH_StandAloneSRB_NoConn.

Summary of change Added this line (new line 23): (tcv_CellInfoA.cellConfig := cell_NoDPCH, tcv_CellInfoB.cellConfig := cell_DCH_StandAloneSRB_NoConn)

Source of change New change

Label WA#NAS4465

Test Case					
Test Case Id:	tc_12_6_1_3_3				
Test Group Reference:	GMM/Authentication_and_ciphering/				
Purpose:	To test the behaviour of the UE when the network does not correctly authenticates, i.e when there is a danger that the network may be fraudulent.				
Configuration:					
Defaults:	NAS_OtherwiseFail				
Comments:	@SIC_NAPP Initial conditions - SS : Two cells operating in network operation mode II - UE : The UE has a valid IMSI WA#NAS4464				
Nr	Label	Behaviour Description	Constraint Ref	Verdict	Comments
1		START_t_Guard(300)			
2		+ts_InitVariables			
11		+po_ConnectionAndSS_Rels			
It_TestBody					
12		(tcv_TestBody := TRUE)		(P)	
13		+ts_MMI_UE_SwitchOnTriggerGMM_Attach			@sic VB T1s-040202 sic@ WA#NAS4467
14		+ts_RRC_ConnEst(tsc_CellA, est_Reg, registration)			
15		+It_AuthFailure_Steps_3To7			@sic VB ER1562 sic@
16		+It_Activate_CellB			Step 9
17		+ts_AT_TriggerGMM_Attach			Step 10
18		+It_AuthFailure_Steps_11To13			
19		+ts_VerifyNoAccess (20)			Step 14
20		+ts_VerifyNoAccess (30)			Step 15
21		+ts_AT_TriggerGMM_Attach			Step 16
22		+ts_VerifyNoAccess (30)			Step 17
23		(tcv_CellInfoA.cellConfig := cell_NoDPCH, tcv_CellInfoB.cellConfig := cell_DCH_StandAloneSRB_NoConn)			WA#NAS4465
It_AuthFailure_Steps_3To7					
24		Dc ? RRC_DataInd (tcv_Start = RRC_Detached, ...)	car_PS_InitDirectTransfer(tsc_CellDedicated, tsc_PS)		Step 3. ATTACH REQUEST

5 Branches executed in test case 12.6.1.3.3

The test case implementation executed the PS branch for NMO_I, UE_OpMode A with Integrity activated, Ciphering disabled, and AutoAttach off.

6 Execution Log Files

6.1 Nokia 6630 3G UE

The Nokia 6630 passed this test case on Rohde & Schwarz 3G System Simulator CRTU-W. The documentation below is enclosed as evidence of the successful test case run [1]:

- **Execution log files 12_6_1_3_3_Logs-Nokia\Index.html**
This execution log files in HTML format show the dynamic behaviour of the test in a tabular view and in message sequence chart (MSC) view. All message contents are fully decoded and listed in hexadecimal format. Preliminary verdicts and the final test case verdict are listed in the log file.
- **PICS/PIXIT file 12_6_1_3_3-pics-pixit-Nokia.txt**
Text file containing all PICS/PIXIT parameters used for testing.

6.2 Motorola A845 3G UE

The Motorola A845 passed this test case on Rohde & Schwarz 3G System Simulator CRTU-W. The documentation below is enclosed as evidence of the successful test case run [1]:

- **Execution log files 12_6_1_3_3_Logs-MotorolaIndex.html**
This execution log files in HTML format show the dynamic behaviour of the test in a tabular view and in message sequence chart (MSC) view. All message contents are fully decoded and listed in hexadecimal format. Preliminary verdicts and the final test case verdict are listed in the log file.
- **PICS/PIXIT file 12_6_1_3_3-pics-pixit-Motorola.txt**
Text file containing all PICS/PIXIT parameters used for testing.

7 References

- [1] **T1s040652**
This archive comprises HTML Execution log files, PICS/PIXIT files and the TTCN MP file

CR-Form-v7	
CHANGE REQUEST	
# 34.123-3 CR 1069 # rev - #	Current version: 3.7.0 #

For **HELP** on using this form, see bottom of this page or look at the pop-up text over the # symbols.

Proposed change affects: UICC apps ME Radio Access Network Core Network

Title:	# Addition of RRC test case 8.3.2.13 to RRC ATS V3.7.0		
Source:	# Rohde & Schwarz		
Work item code:	# N/A	Date:	# 08/10/2004
Category:	# B	Release:	# R99
	Use <u>one</u> of the following categories:		Use <u>one</u> of the following releases:
	F (correction)		2 (GSM Phase 2)
	A (corresponds to a correction in an earlier release)		R96 (Release 1996)
	B (addition of feature),		R97 (Release 1997)
	C (functional modification of feature)		R98 (Release 1998)
	D (editorial modification)		R99 (Release 1999)
	Detailed explanations of the above categories can be found in 3GPP TR 21.900 .		Rel-4 (Release 4)
			Rel-5 (Release 5)
			Rel-6 (Release 6)

Reason for change:	# To add verified GCF package 3 RRC test case 8.3.2.13 to the approved RRC ATS V3.7.0
Summary of change:	# This document lists all changes applied to test case 8.3.2.13 required for approval. See detailed change description for further information.
Consequences if not approved:	# Test case will not be added to ATS

Clauses affected:	# N/A										
Other specs affected:	<table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td style="width: 20px; text-align: center;">Y</td> <td style="width: 20px; text-align: center;">N</td> </tr> <tr> <td style="text-align: center;">#</td> <td style="text-align: center;">X</td> </tr> <tr> <td style="text-align: center;">#</td> <td style="text-align: center;">X</td> </tr> <tr> <td style="text-align: center;">#</td> <td style="text-align: center;">X</td> </tr> </table>	Y	N	#	X	#	X	#	X	Other core specifications	#
Y	N										
#	X										
#	X										
#	X										
		Test specifications	#								
		O&M Specifications	#								
Other comments:	#										

How to create CRs using this form:

Comprehensive information and tips about how to create CRs can be found at <http://www.3gpp.org/specs/CR.htm>. Below is a brief summary:

- 1) Fill out the above form. The symbols above marked # contain pop-up help information about the field that they are closest to.
- 2) Obtain the latest version for the release of the specification to which the change is proposed. Use the MS Word "revision marks" feature (also known as "track changes") when making the changes. All 3GPP specifications can be downloaded from the 3GPP server under <ftp://ftp.3gpp.org/specs/> For the latest version, look for the directory name with the latest date e.g. 2001-03 contains the specifications resulting from the March 2001 TSG meetings.

- 3) With "track changes" disabled, paste the entire CR form (use CTRL-A to select it) into the specification just in front of the clause containing the first piece of changed text. Delete those parts of the specification which are not relevant to the change request.

Title: Changes to test case 8.3.2.13 required for approval
Source: Rohde & Schwarz
Agenda Item: TTCN Issues
Document for: Approval
Contact: Thomas Moosburger
thomas.moosburger@rsd.rohde-schwarz.com
Tel. +49 89 4129 11731

1 Overview

This document lists all the changes needed to correct problems in the TTCN implementation of test case 8.3.2.13 which is part of the RRC test suite. Only essential changes to the TTCN are applied and documented in section 4.

With these changes applied the test case can be demonstrated to run with one or more 3G UEs (see section 6). Execution log files are provided as evidence.

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3 Verification Test Summary

Test Case: TC_8_3_2_13
Test Group: RRC\RRC_URAUupdate.
ATS Version: iWD-TVB2003-03_D04wk37 + essential modifications
System Simulator used: Rohde & Schwarz 3G system simulator CRTU-W
UE used: Nokia 6630
Verification Status: PASS

4 Corrections required for test case 8.3.2.13

4.1 Introduction

This section describes the changes required to make test case 8.3.2.13 run correctly with a 3G UE. All modifications are marked with label **WA#RRC<number>** for RRC related changes in the TTCN comments column of the enclosed ATS [1].

The ATS version used as basis was RRC_wk37.mp which is part of the iWD-TVB2003-03_D04wk37 release. This ATS, provided by MCC160 contains GCF package 1 to 4 test cases.

4.2 c_SIB3_HCS_Sing (WA#RRC4475)

Test step name	c_SIB3_HCS_Sing
Reason for change	According to the prose the value should be 35. $(17*2)+1$
Summary of change	Changed s_SearchHCS value to 17 in c_SIB3_HCS_Sing
Source of change	New change
Label	WA#RRC4475

ASN.1 Type Constraint Declaration	
Constraint Name:	c_SIB3_HCS_Sing (p_CellId : INTEGER ,p_Priority:HCS_PRIO)
Group:	
Type Name:	SysInfoType3
Derivation Path:	
Encoding Variation:	
Comments:	@SIC_NAPP. WA#RRC4475,
Constraint Value	
<pre>{ sib4indicator TRUE, cellIdentity INT_TO_BIT(p_CellId, 28), cellSelectReselectInfo { mappingInfo OMIT, cellSelectQualityMeasure cpich_RSCP : NULL, modeSpecificInfo fdd : { s_Intrasearch 8, s_Intersearch 0, s_SearchHCS 17, rat_List { rat_Identifier gsm, s_SearchRAT -16, s_HCS_RAT OMIT, s_Limit_SearchRAT 0 }}, q_QualMin -20, q_RxlevMin -58 -- (IE value * 2) + 1 }, }</pre>	

4.3 c_SIB4_HCS_Sing (WA#RRC4476)

Test step name	c_SIB4_HCS_Sing
Reason for change	According to the prose the value should be 35. (17*2)+1
Summary of change	Changed s_SearchHCS value to 17 in c_SIB4_HCS_Sing
Source of change	New change
Label	WA#RRC4476

Constraint Name:	c_SIB4_HCS_Sing (p_CellId : INTEGER ,p_Priority:HCS_PRIO)
Group:	
Type Name:	SysInfoType4
Derivation Path:	
Encoding Variation:	
Comments:	@SIC_NAPP.WA#RRC4476,
Constraint Value	
<pre>{ cellIdentity INT_TO_BIT(p_CellId, 28), cellSelectReselectInfo { mappingInfo OMIT, cellSelectQualityMeasure cpich_RSCP : NULL, modeSpecificInfo fdd : { s_Intrasearch 8, s_Intersearch 0, s_SearchHCS 17, rat_List { rat_Identifier gsm, s_SearchRAT -16, s_HCS_RAT OMIT, s_Limit_SearchRAT 0 }}, q_QualMin -20, q_RxlevMin -58 -- (IE value * 2) + 1 }, }</pre>	

4.4 ts_SendDefSysInfo_WithoutSIB3_4_Initialise (WA#RRC4440)

Test step name	ts_SendDefSysInfo_WithoutSIB3_4_Initialise
Reason for change	The Sib3 and 4 are modified in the the test case 8.3.2.13, but the test step

ts_UTRAN_GERAN_Paralnit(p_CellId) over writes the SIB 3 and SIB 4.

Sib 11/12 are also initialised in the test cases

Summary of change Created a new test step ts_SendDefSysInfo_WithoutSIB3_4_Initialise without + ts_UTRAN_GERAN_Paralnit(p_CellId)

Removed the initialisation of Sib11/12

Source of change New change

Label WA#RRC4440

Test Step	
Test Step Id:	ts_SendDefSysInfo_WithoutSIB3_4_Initialise (p_CellId: INTEGER)
Test Step Group Ref:	BasicM_SysInfoHandling_Steps/Default/
Objective:	To broadcast default system infomation.
Defaults:	InitOtherwiseFail
Comments:	WA#RRC4440
Behaviour Description	
1	+ts_CellDependentPara(p_CellId)
2	+ts_InitializeSIB2AndSIB18(tcv_TmpCellInfo)
3	[px_RAT = fdd]
4	+ts_SendNoSegDefSchedul(p_CellId)
5	+ts_SendSIB1 (cb_SIB1_Def(tcv_TmpCellInfo), p_CellId, tsc_Now)
6	+ts_SendSIB2 (tcv_SIB2 , p_CellId, tsc_Now)
7	+ts_SendSIB3(tcv_SIB3, p_CellId, tsc_Now)
8	+ts_SendSIB4(tcv_SIB4, p_CellId, tsc_Now)
9	+ts_SendSIB5(cb_SIB5_Def(tcv_TmpCellInfo), p_CellId, tsc_Now)
10	+ts_SendSIB6(cb_SIB6_Def(tcv_TmpCellInfo), p_CellId, tsc_Now)
11	+ts_SendSIB7(c_SIB7_Def, p_CellId, tsc_Now)
12	+ts_SendSIB11(tcv_SIB11, p_CellId, tsc_Now)
13	+ts_SendSIB12(tcv_SIB12, p_CellId, tsc_Now)
14	+ts_SendSIB18(tcv_SIB18, p_CellId, tsc_Now)
15	+ts_SendSB1_DefSchedul(tcv_SB1, p_CellId, tsc_Now)
16	+ts_SendMIB(tcv_MIB, p_CellId, tsc_Now)
17	ERR 1 [px_RAT = tdd]
18	ERR 2 [TRUE]

4.5 tc_8_3_2_13 (WA#RRC4548)

Test step name tc_8_3_2_13

Reason for change To simplify the test sequence

Summary of change Added HCS priority as a parameter when test step It_CreateCells is called (in line 4 18 and 19)

Source of change New change

Label WA#RRC4548

...	Behaviour Description	Constraint Ref	...	Comments
1	START t_Guard			
2	[px_RAT=fdd]			FDD specific behaviour
3	+It_InitVariables			Initial Test Case Variables
4	+It_CreateCells(tsc_CellA,6)			Configure lower tester WA#RRC4548
5	+ts_IdleUpdated(tsc_CellA)			Idle Update and bring UE to CELL_DCH state and release the connection again
6	+ts_AT_InitConnection (tsc_CellA)			
7	+ ts_RRC_ConnEstPS_MO_P5_P6 (tsc_CellA)			
8	+ ts_RRC_NAS_SessionActPS_MO_P9_P10 (tsc_CellA)			
9	+ ts_RRC_RAB_EstPS_MO_P13_P14 (tsc_CellA)			
10	TB S (tcv_TestBody:=TRUE)		(P)	
11	+ts_TransitToURA_PCH_P17_P18 (tsc_CellA)			Step 1. Bring UE to URA_PCH status
12	+it_TestBody			
13	+ ts_C5_CheckURA_PCH (tsc_CellA)			
14	TB E (tcv_TestBody:=FALSE)			
15	+po_ConnectionAndSS_Rel (tsc_CellA)			Postamble
16	E [px_RAT=tdd]		I	TDD specific behaviour
17	E [TRUE]		I	
	It_TestBody			
18	+It_CreateCells(tsc_CellB, 7)			Create Cell B step 2; WA#RRC4548
19	+It_CreateCells(tsc_CellC, 7)			Create Cell C step 2; WA#RRC4548
20	START t_WaitS(40)			

4.6 tc_8_3_2_13: It_TestBody (WA#RRC4549)

Test step name tc_8_3_2_13: It_TestBody

Reason for change To simplify the test case

Summary of change Used the new local test step +It_ReceiveURA_Update (Ö ..) in line 27 & 35

Source of change New change

Label WA#RRC4549

24		START t_WaitS(40)		
25	TB F2	TM ? RLC_TR_DATA_IND CANCEL t_WaitS	car_URA_Update(? , tsc_RB0, cr_108_URA_Update (? , ?, noError:NULL))	(F) URA Update is recvd after expiry of penalty timer
26	TB P2	? TIMEOUT t_WaitS		(P)
27	TB P3	+It_ReceiveURA_Update (tsc_CellC)		Step 5 . UE sends URA UPDATE with "URA update cause" set to "ChangeofURA". WA#RRC 4549
35	TB P4	+It_ReceiveURA_Update (tsc_CellB)		Step 8 . UE sends URA UPDATE with "URA update cause" set to "ChangeofURA". WA#RRC4549

4.7 tc_8_3_2_13: It_TestBody (WA#RRC4388)

Test step name tc_8_3_2_13: It_TestBody

Reason for change To make sure that the URA update confirm message is sent before the power level changes.

Summary of change Added 500msec. delay.

Source of change New change

Label WA#RRC4388

4.8 tc_8_3_2_13: It_TestBody (WA#RRC4477)

Test step name tc_8_3_2_13: It_TestBody
Reason for change According to the prose the power of Cell C must be -73.
Summary of change Changed the attenuation to 13
Source of change New change
Label WA#RRC4477

4.9 tc_8_3_2_13: It_TestBody (WA#RRC4550)

Test step name tc_8_3_2_13: It_TestBody
Reason for change Cell B will only have a better Ranking then Cell C after the penalty time has expired therefore URA update message should not be received during penalty time
Summary of change Added 40 sec timer to catch URA Update message if received
Source of change New change
Label WA#RRC4550

26	TB P2	? TIMEOUT t_WaitS		(P)
27	TB P3	+It_ReceiveURA_Update (tsc_CellC)		Step 5 . UE sends URA UPDATE with "URA update cause" set to "ChangeofURA". WA#RRC 4549
28		UM I RLC_UM_DATA_REQ	cas_URA_UpdateCnf (tsc_CellC, tsc_RB0, cs_108_URA_UpdateCnfC CCH(tcv_CellIndInfo.dl_IntegrityC heckInfo, tcv_RRC_Ti, tcv_CellInfoA.uRNTI, OMIT, OMIT, ura_PCH, OMIT))	Step 6 ;SS sends URA UPDATE CONFIRM
29		+ts_RRC_Delay(500)		WA#RRC4388
30		+ts_SetAttenuationLevel (tsc_CellB, 10)		Step 7; Set Atte as per table 8.3.2.13-1 of T2
31		+ts_SetAttenuationLevel (tsc_CellC, 13)		Step 7; Set Atte as per table 8.3.2.13-1 of T2 WA#RRC4477
32		START t_WaitS(40)		WA#RRC4550
33	TB P2	TM ? RLC_TR_DATA_IND CANCEL t_WaitS	car_URA_Update(?, tsc_RB0, cr_108_URA_Update (?, ?, noError:NULL))	(F) URA Update is recvd after expiry of penalty timer WA#RRC4550
34	TB P2	? TIMEOUT t_WaitS		(P) WA#RRC4550
35	TB P4	+It_ReceiveURA_Update (tsc_CellB)		Step 8 . UE sends URA UPDATE with "URA update cause" set to "ChangeofURA". WA#RRC4549
36		+ts_SetAttenuationLevel (tsc_CellB, 20)		Step 9; Set Atte as per table 8.3.2.13-1 of T0
37		+ts_SetAttenuationLevel (tsc_CellC, 20)		Step 9; Set Atte as per table 8.3.2.13-1 of T0

4.10 tc_8_3_2_13: It_TestBody (WA#RRC4499)

Test step name tc_8_3_2_13: It_TestBody

Reason for change To Update the Drx on the SS

Summary of change Added (tcv_CellInfoA.dRX_CycleLength.uTRAN_DRX_CycleLength := 3)

Source of change New change

Label WA#RRC4499

38	TB P5	TM ? RLC_TR_DATA_IND CANCEL T_WaitMS	car_URA_Update(tsc_CellA, tsc_RB0, cr_108_URA_Update (tcv_CellInfoA.uRNTI, changeOfURA, noError:NULL))	(P) Step 10 . UE sends URA UPDATE with "URA update cause" set to "ChangeofURA".
39		UM ! RLC_UM_DATA_REQ	cas_URA_UpdateCnf (tsc_CellA, tsc_RB0, cs_108_URA_UpdateCnfCCH(tcv_CellInfo.dl_IntegrityCheckInfo, tcv_RRC_Ti, tcv_CellInfoA.uRNTI, OMIT, OMIT, ura_PCH, OMIT))	Step 11 ;SS sends URA UPDATE CONFIRM
40		(tcv_CellInfoA.dRX_CycleLength.uTRAN_DRX_CycleLength := 3)		WA#RRC4499
It_InitVariables				

4.11 tc_8_3_2_13: It_InitVariables (WA#RRC4551)

Test step name tc_8_3_2_13: It_InitVariables

Reason for change To remove unnecessary initialisation

Summary of change removed tcv_SIB3 := c_SIB3_HCS_Sing (tsc_CellA, 6),
tcv_SIB4 := c_SIB4_HCS_Sing (tsc_CellA, 6) as this is also initialised in It_CreateCells.

Source of change New change

Label WA#RRC4551

4.12 tc_8_3_2_13 It_CreateCells (WA#RRC4552)

Test step name tc_8_3_2_13: It_CreateCells

Reason for change To simplify the test case

Summary of change Modified the test step It_CreateCells to include HCS priority parameter, to initialise SIB_11 and 12 before sending Sys info and included ts_SendDefSysInfo_WithoutSIB3_4_Initialise. Removed ts_SysInfoModifySIB11_12

Source of change New change

Label WA#RRC4552

4.13 tc_8_3_2_13 It_ReceiveURA_Update (WA#RRC4553)

Test step name tc_8_3_2_13: It_ReceiveURA_Update

Reason for change To simplify the test case

Summary of change Introduced new local test step to catch the URA Update messages.

Source of change New change

Label WA#RRC4553

It_InitVariables			
41	+ts_RRC_InitVariablesPS (cell_FACH)		Initial Test Case Variables
42	(tcv_CellInfoB.attenuationLevel := tsc_AttLevToPower80_dBm, tcv_CellInfoC.attenuationLevel := tsc_AttLevToPower80_dBm)		
43	(tcv_CellInfoC.ura_Identity:='0000000000000010B')		Set URA-ID-2 to Cell C, init SIB3 and SIB4 to HCS WA#RRC4551
It_InitSIB11_12			
44	(tcv_SIB11:=c_SIB11_HCS_Sing (tcv_CellInfoA, tcv_CellInfoB, tcv_CellInfoC), tcv_SIB12:=c_SIB12_HCS_Sing (tcv_CellInfoA, tcv_CellInfoB, tcv_CellInfoC))		Initialise SIB11 and SIB12 for HCS
It_CreateCells(p_CellID:INTEGER ; p_Priority : HCS_PRIO)			
45	(tcv_SIB3:=c_SIB3_HCS_Sing(p_CellID,p_Priority), tcv_SIB4:=c_SIB4_HCS_Sing(p_CellID,p_Priority))		WA#RRC4552
46	+ts_SS_CreateCellFACH (p_CellID)		Configure lower tester
47	+It_InitSIB11_12		
48	+ts_SendDefSysInfo_WithoutSIB3_4_Initialise(p_CellID)		
It_ReceiveURA_Update (p_CellID : INTEGER)			
49	START t_WaitS (40)		WA#RRC4553
50	TB ? TIMEOUT t_WaitS		(F)
51	TM ? RLC_TR_DATA_IND PS CANCEL t_WaitS	car_URA_Update(p_CellID, tsc_RB0, cr_108_URA_Update (tcv_CellInfoA.uRNTI, changeOfURA, noError:NULL))	(P) UE sends URA UPDATE with "URA update cause" set to "ChangeofURA".

4.14 tc_8_3_2_13 (WA#RRC4559)

Test step name tc_8_3_2_13: Line 20 (Step 3 in prose)

Reason for change The penalty time is set to 40s in SIB11. The waiting timer is set to 40s at line 20.

In the expected sequence of the prose at step 3 it is said that the UE shall remain camped on Cell 1 and in URA_PCH state even after expiry of Penalty time.

To verify this condition the waiting timer should higher than 40s, otherwise we don't check the UE behaviour after expiry of the penalty time.

Summary of change Set the waiting timer to 60s.

Source of change New change

Label WA#RRC4559

It_TestBody			
18	+It_CreateCells(tsc_CellB, 7)		Create Cell B step 2; WA#RRC4548
19	+It_CreateCells(tsc_CellC, 7)		Create Cell C step 2; WA#RRC4548
20	START t_WaitS(60)		WA#RRC4559
21	TBF1 TM ? RLC_TR_DATA_IND CANCEL t_WaitS	car_URA_Update(?, tsc_RB0, cr_108_URA_Update (?, ?, noError:NULL))	(F) Check no URA update received after expiry of Penalty time
22	TBP1 ? TIMEOUT t_WaitS		(P)

5 Branches executed in test case 8.3.2.13

The test case implementation executed the CS and PS branch with Integrity activated, Ciphering disabled, and AutoAttach Off.

6 Execution Log Files

6.1 Nokia 6630 3G UE

The Nokia 6630 passed this test case on Rohde & Schwarz 3G System Simulator CRTU-W. The documentation below is enclosed as evidence of the successful test case run [1]:

- **Execution log files 8_3_2_13_Logs-Nokia-PS\Index.html**
These execution log files in HTML format show the dynamic behaviour of the test in a tabular view and in message sequence chart (MSC) view. All message contents are fully decoded and listed in hexadecimal format. Preliminary verdicts and the final test case verdict are listed in the log file.

PICS/PIXIT file 8_3_2_13-pics-pixit-Nokia-PS.html

HTML file containing all PICS/PIXIT parameters used for testing the CS & PS mode

7 References

- [1] **T1s040654**
This archive comprises HTML Execution log files, PICS/PIXIT files and the TTCN MP file

CR-Form-v7

CHANGE REQUEST

34.123-3 CR 1070 # rev **-** # Current version: **3.7.0**

For **HELP** on using this form, see bottom of this page or look at the pop-up text over the # symbols.

Proposed change affects: UICC apps# ME Radio Access Network Core Network

Title:	# Addition of P4 test case 8.1.3.4 to the RRC ATS V3.7.0		
Source:	# Racal Instruments Wireless Solutions, an Aeroflex Company		
Work item code:	# N/A	Date:	# 8/10/2004
Category:	# B	Release:	# Rel-99
	Use <u>one</u> of the following categories:		Use <u>one</u> of the following releases:
	F (correction)		2 (GSM Phase 2)
	A (corresponds to a correction in an earlier release)		R96 (Release 1996)
	B (addition of feature),		R97 (Release 1997)
	C (functional modification of feature)		R98 (Release 1998)
	D (editorial modification)		R99 (Release 1999)
	Detailed explanations of the above categories can be found in 3GPP TR 21.900 .		Rel-4 (Release 4)
			Rel-5 (Release 5)
			Rel-6 (Release 6)

Reason for change:	# To add the GCF package 4 RRC test case 8.1.3.4 to the approved RRC ATS V3.7.0
Summary of change:	# This document lists all the changes applied to the test case 8.1.3.4 required for approval. See detailed change description for further information..
Consequences if not approved:	# Test case will not be added to the ATS

Clauses affected:	# 8.1.3.4												
Other specs affected:	<table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td style="width: 20px; text-align: center;">Y</td> <td style="width: 20px; text-align: center;">N</td> </tr> <tr> <td style="text-align: center;">#</td> <td style="text-align: center;">X</td> </tr> </table> Other core specifications # 34.123-3 <table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td style="width: 20px; text-align: center;">X</td> <td style="width: 20px; text-align: center;">#</td> </tr> <tr> <td style="text-align: center;">#</td> <td style="text-align: center;">X</td> </tr> </table> Test specifications <table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td style="width: 20px; text-align: center;">#</td> <td style="width: 20px; text-align: center;">X</td> </tr> <tr> <td style="text-align: center;">#</td> <td style="text-align: center;">X</td> </tr> </table> O&M Specifications	Y	N	#	X	X	#	#	X	#	X	#	X
Y	N												
#	X												
X	#												
#	X												
#	X												
#	X												
Other comments:	# No impact on 34.123-1.												

How to create CRs using this form:

Comprehensive information and tips about how to create CRs can be found at <http://www.3gpp.org/specs/CR.htm>. Below is a brief summary:

- 1) Fill out the above form. The symbols above marked # contain pop-up help information about the field that they are closest to.
- 2) Obtain the latest version for the release of the specification to which the change is proposed. Use the MS Word "revision marks" feature (also known as "track changes") when making the changes. All 3GPP specifications can be

downloaded from the 3GPP server under <ftp://ftp.3gpp.org/specs/> For the latest version, look for the directory name with the latest date e.g. 2001-03 contains the specifications resulting from the March 2001 TSG meetings.

- 3) With "track changes" disabled, paste the entire CR form (use CTRL-A to select it) into the specification just in front of the clause containing the first piece of changed text. Delete those parts of the specification which are not relevant to the change request.

Title: Changes to test case 8.1.3.4 required for approval
Source: Racal Instruments Wireless Solutions, an Aeroflex Company
Document for: Email Approval
Contact: **Kundan Sehmbey**
kundan.sehmbey@aeroflex.com
Tel. +44 1628 610639

1 Overview

This document gives details of the changes made to TTCN implementation for test case 8.1.3.4, which is part of RRC iWD_wk37 test suite. Please see section 6 for log information. Changes are made so that it can be executed with one or more 3G UE.

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3 Verification Test Summary

Test Case: tc_8_1_3_4
Test Group: RRC
ATS Version: iWD_wk37
System Simulator used: Racal Instruments Wireless Solution 6401 AIME/CT
UE used: Nokia 3G UE 6630 (and 7600)
Verification Status: PASS

4 Corrections required for test case 8.1.3.4

4.1 Introduction

The TTCN ATS used is RRC iWD_wk37.mp which is part of the iWD-TV2003-03_D04wk37 release.

4.2 Change 1 - Test Case tc_8_1_3_4

Reason for change A delay is needed to ensure transmission of RRC Connection Release Message before applying the CMAC TFCI Restriction to disallow transmission on SRBs

Summary of change +ts_RRC_Delay (80) is called after RRC Connection Release is sent (Line 14)

Test Case					
Test Case Id:	tc_8_1_3_4				
Test Group Reference:	RRC/RRC_ConnRelease/				
Purpose:	To confirm that the UE releases all its radio resources and enters idle mode when the UE does not succeed in transmitting the RRC CONNECTION RELEASE COMPLETE message using acknowledged mode to the SS (i.e. the UE-RLC does not receive an acknowledgement for the transmission of the RRC CONNECTION RELEASE COMPLETE message from SS.).				
Configuration:					
Defaults:	RRC_Def1				
Comments:					
Nr	Label	Behaviour Description	Constraint Ref	Verdict	Comments
1		START t_Guard			

2		[px_RAT=fdd]			FDD specific behaviour
3		+ts_RRC_InitVariables (cell_FACH)			
4		+ts_SS_CreateCellFACH (tsc_Cella)			Configure lower tester
5		+ts_SendDefSysInfo (tsc_Cella)			Sends the default system information in Cella
6		+ts_IdleUpdated (tsc_Cella)			Idle Update and bring UE to CELL_FACH state and release the connection again
7		+ ts_GotoState6_2_Or6_4_MO (tsc_Cella)			
8	TBS	(tcv_TestBody:=TRUE)			
9		+ lt_TestBody			
10	TBE	(tcv_TestBody:=FALSE)			
11		+po_ConnectionAndSS_Rel (tsc_Cella)			Release the channels that are configured in the SS.
12	ERR1	[px_RAT=tdd]		I	TDD specific behaviour
13	ERR2	[TRUE]		I	
lt_TestBody					
14		UM ! RLC_UM_DATA_REQ	cas_RRC_ConnRelDCCH (tsc_CellDedicated , tsc_RB1, cs_RRC_ConnRelDCCH_Cau (tcv_CellIndInfo.dl_IntegrityCheckInfo, tcv_RRC_Ti,OMIT, normalEvent))		step 2: SS ask to disconnect the radio link
15		+ts_RRC_Delay (80)			
16		-_+ts_SetSS_DisableAck (tsc_Cella)			To Disable SS response STATUS PDU of RLC for the message from UE in AM mode
17		-_START t_WaitS			
18	TBF1	-_? TIMEOUT t_WaitS		(F)	
19	TBP1	-_AM?RLC_AM_DATA_IND CANCEL t_WaitS	car_RRC_ConnRelCmpl (tsc_CellDedicated , tsc_RB2, cbr_108_RRC_ConnRelCmpl (tcv_RRC_Ti))	(P)	step 3: UE response RRC Connection Release Complete in AM mode, but SS ignores it and doesn't transmit a STATUS PDU of RLC for this message, UE shall releases its all radio resources and enter idle mode
20		-_ (tcv_CellInfoA.cellConfig := cell_FACH_NoConn)			
21		-_+ts_SetSS_EnableAck (tsc_Cella)			Enable SS to response ACK of RLC for the message come from UE in AM mode)
22		+ts_RRC_Delay(tsc_WaitBeforePaging)			Give delay for the UE to enter Idle and to read all SIB infos
23		-_+ ts_CRLC_RelReconfSRB (tsc_Cella)			RLC entities to reconfig and to assign correct RLC SeqNum
24		-_+ ts_CI_CheckIdleMode (tsc_Cella)			step 4 and step 5
Detailed Comment:					

5 Branches executed in test case 8.1.3.4

Test case was executed with pc_CS=TRUE, pc_PS=TRUE with px_CN_DomainTested to both cs_domain and ps_domain.

6 Execution Log Files

The Nokia 3G UE 6630 (and 7600) have been used and test case passed on the Racal Instruments Wireless Solution 6401 AIME/CT Test platform. Nokia 6630 logs of the successful test case execution is enclosed in T1s040650[2].

7 References

[1]	RRC iWD_wk37.mp
[2]	T1s040650[2].zip Attachment containing the successful log.

CR-Form-v7

CHANGE REQUEST

34.123-3 CR 1071 # rev - # Current version: **3.7.0**

For **HELP** on using this form, see bottom of this page or look at the pop-up text over the # symbols.

Proposed change affects: UICC apps ME Radio Access Network Core Network

Title:	# Addition of P4 test case 8.3.7.13 to IR_U ATS v3.7.0		
Source:	# Racal Instruments Wireless Solutions, an Aeroflex Company		
Work item code:	# TEI	Date:	# 4/10/04
Category:	# B	Release:	# R99
	Use <u>one</u> of the following categories:		Use <u>one</u> of the following releases:
	F (correction)		2 (GSM Phase 2)
	A (corresponds to a correction in an earlier release)		R96 (Release 1996)
	B (addition of feature),		R97 (Release 1997)
	C (functional modification of feature)		R98 (Release 1998)
	D (editorial modification)		R99 (Release 1999)
	Detailed explanations of the above categories can be found in 3GPP TR 21.900 .		Rel-4 (Release 4)
			Rel-5 (Release 5)
			Rel-6 (Release 6)

Reason for change:	# To add verified GCF Package 4 test case 8.3.7.13 to the approved ATS V3.7.0		
Summary of change:	# This document lists all changes applied to test case 8.3.7.13 required for approval.		
Consequences if not approved:	# Test case will not be added to ATS		

Clauses affected:	# 8.3.7.13										
Other specs affected:	<table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td style="width: 20px; text-align: center;">Y</td> <td style="width: 20px; text-align: center;">N</td> </tr> <tr> <td style="text-align: center;">#</td> <td style="text-align: center;">X</td> </tr> <tr> <td style="text-align: center;">X</td> <td style="text-align: center;">#</td> </tr> <tr> <td style="text-align: center;">#</td> <td style="text-align: center;">X</td> </tr> </table>	Y	N	#	X	X	#	#	X	Other core specifications	# 34.123-3
Y	N										
#	X										
X	#										
#	X										
		Test specifications									
		O&M Specifications									
Other comments:	# No impact on 34.123-1.										

How to create CRs using this form:

Comprehensive information and tips about how to create CRs can be found at <http://www.3gpp.org/specs/CR.htm>. Below is a brief summary:

- 1) Fill out the above form. The symbols above marked # contain pop-up help information about the field that they are closest to.
- 2) Obtain the latest version for the release of the specification to which the change is proposed. Use the MS Word "revision marks" feature (also known as "track changes") when making the changes. All 3GPP specifications can be downloaded from the 3GPP server under <ftp://ftp.3gpp.org/specs/>. For the latest version, look for the directory name with the latest date e.g. 2001-03 contains the specifications resulting from the March 2001 TSG meetings.

- 3) With "track changes" disabled, paste the entire CR form (use CTRL-A to select it) into the specification just in front of the clause containing the first piece of changed text. Delete those parts of the specification which are not relevant to the change request.

Title: Changes to test case 8.3.7.13 required for approval
Source: Racal Instruments Wireless Solutions
Document for: Approval
Contact: **Kundan Sehmbey**
kundan.sehmbey@aeroflex.com
Tel. +44 1628 610639

1 Overview

This document gives details of the changes made to TTCN implementation for test case 8.3.7.13, which is part of IR_U test suite. Minimum changes are made so that it can be executed with one or more 3G UE.

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4.2	Presentation of the modifications.....	5
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3 Verification Test Summary

Test Case: tc_8_3_7_13
Test Group: IR_U/ ISHO_UTRAN_ToGSM/
ATS Version: IR_U_wk37 + modifications
System Simulator used: Racal Instruments Wireless Solution 6401 AIME/CT
UE used: Nokia 3G UE 7600
Verification Status: PASS

4 Corrections required for test case 8.3.7.13

4.1 Introduction

This documents lists the changes made to test case 8_3_7_13 to make it work with 3G UE. The changes made are given a change label and are explained in the following session.

4.2 Presentation of the modifications

The changes done are described below in tables, and are also supported by **screenshots** taken from the relevant parts of changed TTCN objects in TTCN.GR format.

The tables used in the following session is described below with an example below

Table 1: Example Change Table

TTCN object	<i>tc_8_3_7_13</i>
Reference ATS	<i>IR_U_wk37.mp</i>
Change Label	<i>RACAL#IR_U0185</i>
Reason for change	<i><Textual description of change reason>.</i>
Summary of change	<i><Textual description of performed changes></i>
Other affected objects	<i>< other fields affected> (optional)</i>
ETSI comment	
Racal conclusion	

TTCN object: Identifier(s) of one or more TTCN objects having a global context in the TTCN ATS. Typically only one TTCN object occurs. More than one object is listed only, when:

- a) All objects belong to the same TTCN Object Class; and
- b) All objects are either created, or are modified in the same systematic way; and
- c) No other change is proposed for the listed objects.

- Reference ATS:** ETSI ATS containing the referred TTCN object(s), relative to which the current change description applies.
- Change Label:** Textual identifier starting with the fixed string *“RACAL#IR_Ui*, followed by a 4-digit number (e.g. *RACAL#IR_U 0185*). A Change Label is assigned when a particular problem is recognized during the verification work. More than one TTCN Object may be affected by the proposed solution to this problem.
- Reason for change:** Textual description of the reason why the change is proposed.
- Summary of change:** Short description of what is proposed for change.
- Other affected objects:** List of one or more fields, pointing to other TTCN objects having assigned the same Change Label, i.e. all other objects being affected by the problem-giving rise to the current Change Label.
- ETSI comment:** ETSI colleagues giving a dedicated reply to the current CR document may use this field.
- RACAL conclusion:** Filled by the Racal Instruments Wireless Solution when ETSI answer does not indicate acceptance of the change request.

4.3 Modifications

4.3.1 ts_RRC_Delay

TTCN object	ts_8_3_7_13
Reference ATS	IR_U_wk37.mp[2]
Change Label	RACAL#IR_U0185
Reason for change	UE does cell update as the delay is too long
Summary of change	The RRC delay at line no 32 after RRC Security procedure reduced to 1000ms from 3000ms
Other affected objects	
ETSI comment	
Racal conclusion	

4.3.2 ts_RRC_Delay before Stop_SRB3

TTCN object	ts_8_3_7_13
Reference ATS	IR_U_wk37.mp[2]
Change Label	RACAL#IR_U0186
Reason for change	SRB3 is stopped even before acknowledging the Authentication message on SRB3. This makes the UE not to send Setup message after Handover.
Summary of change	Added a RRC delay of 100ms before calling ts_Stop_SRB3 at line no 29
Other affected objects	
ETSI comment	
Racal conclusion	

4.3.3 tcv_RR_Subchannel2

TTCN object	ts_8_3_7_13
Reference ATS	IR_U_wk37.mp[2]
Change Label	RACAL#IR_U0187
Reason for change	SDCCH 8 has got a valid sub channel number but TTCN sends/expect invalid subchannel value of 15.
Summary of change	In line no 43, 44, 48, 49 changed the hard coded value of 15 by tcv_RR_Subchannel2
Other affected objects	
ETSI comment	
Racal conclusion	

4.3.4 tcv_RR_Subchannel

TTCN object	ts_8_3_7_13
Reference ATS	IR_U_wk37.mp[2]
Change Label	RACAL#IR_U0188
Reason for change	SDCCH 4 has got a valid sub channel number but TTCN sends/expect invalid subchannel value of 15.
Summary of change	In line no 60 changed the hard coded value of 15 by tcv_RR_Subchannel2
Other affected objects	
ETSI comment	
Racal conclusion	

4.3.5 ts_G_ReceiveOptSuspend

TTCN object	ts_8_3_7_13
Reference ATS	IR_U_wk37.mp[2]
Change Label	RACAL#IR_U0189
Reason for change	GPRS Suspension Request is not handled in the test case.
Summary of change	In line no 50 after Handover Complete message added ts_G_ReceiveOptSuspend(tsc_G_Trchld1 , tcv_RR_ChannelType2)
Other affected objects	
ETSI comment	
Racal conclusion	

4.3.6 ts_SetCellCfg

TTCN object	ts_8_3_7_13
Reference ATS	IR_U_wk37.mp[2]
Change Label	RACAL#IR_U0190
Reason for change	Cell state not updated after Handover procedure
Summary of change	Added ts_SetCellCfg (tsc_CellA, cell_DCH_StandAloneSRB_NoConn) after It_SubTest in It_LocalTest
Other affected objects	
ETSI comment	
Racal conclusion	

4.3.7 ts_G_Ciphering_Mode_Setting

TTCN object	ts_G_Ciphering_Mode_Setting
Reference ATS	IR_U_wk37.mp[2]
Change Label	RACAL#IR_U0191
Reason for change	UMTS related pixit parameter is used to check ciphering on/off on GSM side
Summary of change	Changed the condition from px_CipheringOnOff to px_GSM_CipheringOnOff at line no 1
Other affected objects	Most of the InterRAT test cases
ETSI comment	
Racal conclusion	

4.3.8 ts_U2GCellChange_RAUpdate

TTCN object	ts_U2GCellChange_RAUpdate
Reference ATS	IR_U_wk37.mp[2]
Change Label	RACAL#IR_U0192
Reason for change	RAU and LAU procedures are done at post-amble
Summary of change	Removed ts_U2GCellChange_RAUpdate after Handover at line no 54
Other affected objects	
ETSI comment	
Racal conclusion	

4.4 Changes referred to from previous CRs

N/A

5 Branches executed in test case 8.3.7.13

This test case executed with pc_CS = TRUE and pc_PS = TRUE

6 Execution Log Files

The Nokia 3G UE 7600 passed this test case in CSPA mode on the Racal Instrument Wireless Solution 6401 AIME/CT. Log of the successful test case execution is enclosed in T1s040639.zip [1]

7 References

- | | |
|-----|---|
| [1] | T1s040639.zip
Attachment containing the Successful log and the TTCN MP file for <i>tc_8_3_7_13</i> . |
| [2] | <i>IR_U_wk37.mp</i>
ETSI <i>IR_U</i> ATS version of week 37. |

CR-Form-v7

CHANGE REQUEST

34.123-3 CR 1072 # rev - # Current version: **3.7.0**

For **HELP** on using this form, see bottom of this page or look at the pop-up text over the # symbols.

Proposed change affects: UICC apps# ME Radio Access Network Core Network

Title:	# Addition of P4 test case 8.3.7.7 to IR_U ATS v3.7.0		
Source:	# Racal Instruments Wireless Solutions, an Aeroflex Company		
Work item code:	# TEI	Date:	# 4/10/04
Category:	# B	Release:	# R99
	Use <u>one</u> of the following categories:		Use <u>one</u> of the following releases:
	F (correction)		2 (GSM Phase 2)
	A (corresponds to a correction in an earlier release)		R96 (Release 1996)
	B (addition of feature),		R97 (Release 1997)
	C (functional modification of feature)		R98 (Release 1998)
	D (editorial modification)		R99 (Release 1999)
	Detailed explanations of the above categories can be found in 3GPP TR 21.900 .		Rel-4 (Release 4)
			Rel-5 (Release 5)
			Rel-6 (Release 6)

Reason for change:	# To add verified GCF package 4 RRC test case 8.3.7.7 to the approved IR_U ATS V3.7.0.
Summary of change:	# This document lists all changes applied to test case 8.3.7.7 required for approval.
Consequences if not approved:	# Test case will not be added to ATS

Clauses affected:	# 8.3.7.7										
Other specs affected:	<table border="1" style="display: inline-table; border-collapse: collapse; text-align: center;"> <tr> <td>Y</td> <td>N</td> </tr> <tr> <td><input type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> </tr> <tr> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td><input type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> </tr> </table>	Y	N	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Other core specifications	#
Y	N										
<input type="checkbox"/>	<input checked="" type="checkbox"/>										
<input checked="" type="checkbox"/>	<input type="checkbox"/>										
<input type="checkbox"/>	<input checked="" type="checkbox"/>										
		Test specifications	#								
		O&M Specifications	# 34.123-3								
Other comments:	# No impact on 34.123-1.										

How to create CRs using this form:

Comprehensive information and tips about how to create CRs can be found at <http://www.3gpp.org/specs/CR.htm>. Below is a brief summary:

- 1) Fill out the above form. The symbols above marked # contain pop-up help information about the field that they are closest to.
- 2) Obtain the latest version for the release of the specification to which the change is proposed. Use the MS Word "revision marks" feature (also known as "track changes") when making the changes. All 3GPP specifications can be

downloaded from the 3GPP server under <ftp://ftp.3gpp.org/specs/> For the latest version, look for the directory name with the latest date e.g. 2001-03 contains the specifications resulting from the March 2001 TSG meetings.

- 3) With "track changes" disabled, paste the entire CR form (use CTRL-A to select it) into the specification just in front of the clause containing the first piece of changed text. Delete those parts of the specification which are not relevant to the change request.

Title: Changes to test case 8.3.7.7 required for approval
Source: Racal Instruments Wireless Solutions
Document for: Approval
Contact: **Kundan Sehmbey**
kundan.sehmbey@aeroflex.com
Tel. +44 1628 610639

1 Overview

This document gives details of the changes made to TTCN implementation for test case 8.3.7.7, which is part of IR_U test suite. Minimum changes are made so that it can be executed with one or more 3G UE.

2 Table of Contents

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4.2	Presentation of the modifications	5
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4.3.1	lt_SubTest	7
4.4	Changes referred to from previous CRs	8
5	Branches executed in test case 8.3.7.7	9
6	Execution Log Files	9
7	References	9

3 Verification Test Summary

Test Case: tc_8_3_7_7
Test Group: IR_U/ ISHO_UTRAN_ToGSM/
ATS Version: IR_U_wk37 + modifications
System Simulator used: Racal Instruments Wireless Solution 6401 AIME/CT
UE used: Nokia 3G UE 7600
Verification Status: PASS

4 Corrections required for test case 8.3.7.7

4.1 Introduction

This documents lists the changes made to test case 8_3_7_7 to make it work with 3G UE. The changes made are given a change label and are explained in the following session.

4.2 Presentation of the modifications

The changes done are described below in tables, and are also supported by **screenshots** taken from the relevant parts of changed TTCN objects in TTCN.GR format.

The tables used in the following session is described below with an example below

Table 1: Example Change Table

TTCN object	<i>tc_8_3_7_7</i>
Reference ATS	<i>IR_U_wk37.mp</i>
Change Label	<i>RACAL#IR_U0150</i>
Reason for change	<i><Textual description of change reason>.</i>
Summary of change	<i><Textual description of performed changes></i>
Other affected objects	<i>< other fields affected> (optional)</i>
ETSI comment	
Racal conclusion	

TTCN object: Identifier(s) of one or more TTCN objects having a global context in the TTCN ATS. Typically only one TTCN object occurs. More than one object is listed only, when:

- All objects belong to the same TTCN Object Class; and
- All objects are either created, or are modified in the same systematic way; and
- No other change is proposed for the listed objects.

Reference ATS: ETSI ATS containing the referred TTCN object(s), relative to which the current change description applies.

Change Label: Textual identifier starting with the fixed string *®RACAL#IR_Ui*, followed by a 4-digit number (e.g. *RACAL#IR_U 0150*). A Change Label is assigned when a particular problem is recognized during the verification work. More than one TTCN Object may be affected by the proposed solution to this problem.

Reason for change: Textual description of the reason why the change is proposed.

Summary of change: Short description of what is proposed for change.

Other affected objects: List of one or more fields, pointing to other TTCN objects having assigned the same Change Label, i.e. all other objects being affected by the problem-giving rise to the current Change Label.

ETSI comment: ETSI colleagues giving a dedicated reply to the current CR document may use this field.

RACAL conclusion: Filled by the Racal Instruments Wireless Solution when ETSI answer does not indicate acceptance of the change request.

4.3 Modifications

4.3.1 It_SubTest

TTCN object	ts_8_3_7_7
Reference ATS	IR_U_wk37.mp[2]
Change Label	RACAL#IR_U0180
Reason for change	Handover Access Burst are expected even before Handover Request is sent
Summary of change	Changed the order of messages in It_SubTest
Other affected objects	
ETSI comment	
Racal conclusion	

It_SubTest				
35		AM ! RLC_HandoverReq	cabs_RLC_HandoverReq(tsc_CellDedicated, tsc_RB2, cs_G_HandoverFromUTRAN_CommandGSM(o_HO_PER_Encoding(cbs_InterSystemHandoverToGSM(tcv_CellIndInfo.dl_IntegrityCheckInfo,cb_HandoverFromUTRANCommand_GSM(tcv_RRC_Ti,c_RAB_Info,tcv_FreqBand))),o_TTCN_HO_CommandToBitstring(tcv_GSM_HO_Cmd))	step 3 Sending the handover Command.
36		G_L2 ?G_L2_ACCESS_IND	cabr_G_L2_ACCESS_IND(tsc_GSM_Cella,tsc_G_TrchId1,9,15,?,?)	step 5 Access burst received 1st time
37		G_L2 ?G_L2_ACCESS_IND	cabr_G_L2_ACCESS_IND(tsc_GSM_Cella,tsc_G_TrchId1,9,15,?,?)	step 6 Access burst received 2nd time
38		+ts_GSM_SetCellPowerLevel2Ch(tsc_GSM_Cella,tsc_PhyCh0,tsc_G_TrchId1,tsc_ChPwrLvl_Low)		step 7 The power level of target cell is kept very low.
39		START t_T3124		
40	LOOP 1	? TIMEOUT t_T3124		Wait till Timer expires
41	TBP1	AM ? RLC_AM_DATA_IND	car_InterSystemHandoverFailure(tsc_CellDedicated,tsc_RB2,cbr_InterSystemHandoverFailure(tcv_RRC_Ti,physicalChannelFailure:NULL))	step 11 Receiving handover failure
42		G_L2 ?G_L2_ACCESS_IND	cabr_G_L2_ACCESS_IND(tsc_GSM_Cella,tsc_G_TrchId1,9,15,?,?)	Access burst received
43		->LOOP1		
It_FreqBand				

4.4 Changes referred to from previous CRs

N/A

5 Branches executed in test case 8.3.7.7

This test case executed with pc_CS = TRUE and pc_PS = TRUE

6 Execution Log Files

The Nokia 3G UE 7600 passed this test case in CSPA mode on the Racal Instrument Wireless Solution 6401 AIME/CT. Log of the successful test case execution is enclosed in T1s040641.zip [1]

7 References

[1]	T1s040641.zip Attachment containing the Successful log and the TTCN MP file for <i>tc_8_3_7_7</i> .
[2]	<i>IR_U_wk37.mp</i> ETSI <i>IR_U</i> ATS version of week 37.

CR-Form-v7

CHANGE REQUEST

34.123-3 CR 1073 # rev - # Current version: **3.7.0**

For **HELP** on using this form, see bottom of this page or look at the pop-up text over the # symbols.

Proposed change affects: UICC apps ME Radio Access Network Core Network

Title:	# Addition of NAS test case 12.9.8 to NAS ATS V3.7.0		
Source:	# Rohde & Schwarz		
Work item code:	# N/A	Date:	# 23/09/2004
Category:	# B	Release:	# R99
	Use <u>one</u> of the following categories:		Use <u>one</u> of the following releases:
	F (correction)		2 (GSM Phase 2)
	A (corresponds to a correction in an earlier release)		R96 (Release 1996)
	B (addition of feature),		R97 (Release 1997)
	C (functional modification of feature)		R98 (Release 1998)
	D (editorial modification)		R99 (Release 1999)
	Detailed explanations of the above categories can be found in 3GPP TR 21.900 .		Rel-4 (Release 4)
			Rel-5 (Release 5)
			Rel-6 (Release 6)

Reason for change:	# To add verified GCF package 4 NAS test case 12.9.8 to the approved NAS ATS V3.7.0		
Summary of change:	#		
Consequences if not approved:	# Test case will not be added to ATS		

Clauses affected:	# N/A						
Other specs affected:	<table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td style="width: 20px; text-align: center;">Y</td> <td style="width: 20px; text-align: center;">N</td> </tr> <tr> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> </tr> </table>	Y	N	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Other core specifications	#
Y	N						
<input type="checkbox"/>	<input checked="" type="checkbox"/>						
	<input type="checkbox"/>	Test specifications	#				
	<input type="checkbox"/>	O&M Specifications	#				
Other comments:	#						

How to create CRs using this form:

Comprehensive information and tips about how to create CRs can be found at <http://www.3gpp.org/specs/CR.htm>. Below is a brief summary:

- 1) Fill out the above form. The symbols above marked # contain pop-up help information about the field that they are closest to.
- 2) Obtain the latest version for the release of the specification to which the change is proposed. Use the MS Word "revision marks" feature (also known as "track changes") when making the changes. All 3GPP specifications can be downloaded from the 3GPP server under <ftp://ftp.3gpp.org/specs/> For the latest version, look for the directory name with the latest date e.g. 2001-03 contains the specifications resulting from the March 2001 TSG meetings.

- 3) With "track changes" disabled, paste the entire CR form (use CTRL-A to select it) into the specification just in front of the clause containing the first piece of changed text. Delete those parts of the specification which are not relevant to the change request.

Title: Approval of test case 12.9.8
Source: Rohde & Schwarz
Agenda Item: TTCN Issues
Document for: Approval
Contact: Thomas Moosburger
thomas.moosburger@rsd.rohde-schwarz.com
Tel. +49 89 4129 11731

1 Overview

This document lists the various branches & execution details needed to verify the TTCN implementation of test case 12.9.8 is part of the NAS test suite.

With no changes applied the test case can be demonstrated to run with one or more 3G UEs (see section 5). Execution log files are provided as evidence.

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3 Verification Test Summary

Test Case: TC_12_9_8
Test Group: GMM/ ServiceRequest_procedures
ATS Version: iWD-TVB2003-03_D04wk37+ essential modifications
System Simulator used: Rohde & Schwarz 3G system simulator CRTU-W
UE used: Nokia 6630 and Motorola A845
Verification Status: PASS

4 Branches executed in test case 12.9.8

The test case implementation executed the PS branch for NMO_I, UE_OpMode A with Integrity activated, Ciphering disabled, and AutoAttach off.

5 Execution Log Files

5.1 Nokia 6630 3G UE

The Nokia 6630 passed this test case on Rohde & Schwarz 3G System Simulator CRTU-W. The documentation below is enclosed as evidence of the successful test case run [1]:

- **Execution log files 12_9_8_Logs-Nokia\Index.html**
This execution log files in HTML format show the dynamic behaviour of the test in a tabular view and in message sequence chart (MSC) view. All message contents are fully decoded and listed in hexadecimal format. Preliminary verdicts and the final test case verdict are listed in the log file.
- **PICS/PIXIT file 12_9_8-pics-pixit-Nokia.txt**
Text file containing all PICS/PIXIT parameters used for testing.

5.2 Motorola A845 3G UE

The Motorola passed this test case on Rohde & Schwarz 3G System Simulator CRTU-W. The documentation below is enclosed as evidence of the successful test case run [1]:

- **Execution log files 12_9_8_Logs-Motorola\Index.html**
This execution log files in HTML format show the dynamic behaviour of the test in a tabular view and in message sequence chart (MSC) view. All message contents are fully decoded and listed in hexadecimal format. Preliminary verdicts and the final test case verdict are listed in the log file.
- **PICS/PIXIT file 12_9_8-pics-pixit-Motorola.txt**
Text file containing all PICS/PIXIT parameters used for testing.

6 References

- [1] **T1s040614**
This archive comprises HTML Execution log files, PICS/PIXIT files and the TTCN MP file

CR-Form-v7

CHANGE REQUEST

34.123-3 CR 1074 # rev - # Current version: **3.7.0**

For **HELP** on using this form, see bottom of this page or look at the pop-up text over the # symbols.

Proposed change affects: UICC apps ME Radio Access Network Core Network

Title:	# Addition of NAS test case 12.4.1.4d1 to NAS ATS V3.7.0		
Source:	# Rohde & Schwarz		
Work item code:	# N/A	Date:	# 28/09/2004
Category:	# B	Release:	# R99
	Use <u>one</u> of the following categories:		Use <u>one</u> of the following releases:
	F (correction)		2 (GSM Phase 2)
	A (corresponds to a correction in an earlier release)		R96 (Release 1996)
	B (addition of feature),		R97 (Release 1997)
	C (functional modification of feature)		R98 (Release 1998)
	D (editorial modification)		R99 (Release 1999)
	Detailed explanations of the above categories can be found in 3GPP TR 21.900 .		Rel-4 (Release 4)
			Rel-5 (Release 5)
			Rel-6 (Release 6)

Reason for change:	# To add verified GCF package 4 NAS test case 12.4.1.4d1 to the approved NAS ATS V3.7.0
Summary of change:	# This document lists all changes applied to test case 12.4.1.4d1 required for approval. See detailed change description for further information.
Consequences if not approved:	# Test case will not be added to ATS

Clauses affected:	# N/A										
Other specs affected:	<table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td style="width: 20px; text-align: center;">Y</td> <td style="width: 20px; text-align: center;">N</td> </tr> <tr> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> </tr> <tr> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> </tr> <tr> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> </tr> </table>	Y	N	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Other core specifications	#
Y	N										
<input type="checkbox"/>	<input checked="" type="checkbox"/>										
<input type="checkbox"/>	<input checked="" type="checkbox"/>										
<input type="checkbox"/>	<input checked="" type="checkbox"/>										
		Test specifications									
		O&M Specifications									
Other comments:	#										

How to create CRs using this form:

Comprehensive information and tips about how to create CRs can be found at <http://www.3gpp.org/specs/CR.htm>. Below is a brief summary:

- 1) Fill out the above form. The symbols above marked # contain pop-up help information about the field that they are closest to.
- 2) Obtain the latest version for the release of the specification to which the change is proposed. Use the MS Word "revision marks" feature (also known as "track changes") when making the changes. All 3GPP specifications can be downloaded from the 3GPP server under <ftp://ftp.3gpp.org/specs/> For the latest version, look for the directory name with the latest date e.g. 2001-03 contains the specifications resulting from the March 2001 TSG meetings.

- 3) With "track changes" disabled, paste the entire CR form (use CTRL-A to select it) into the specification just in front of the clause containing the first piece of changed text. Delete those parts of the specification which are not relevant to the change request.

Title: Changes to test case 12.4.1.4d1 required for approval
Source: Rohde & Schwarz
Agenda Item: TTCN Issues
Document for: Approval
Contact: Thomas Moosburger
thomas.moosburger@rsd.rohde-schwarz.com
Tel. +49 89 4129 11731

1 Overview

This document lists all the changes needed to correct problems in the TTCN implementation of test case 12.4.1.4d1 which is part of the NAS test suite. Only essential changes to the TTCN are applied and documented in section 4.

With these changes applied the test case can be demonstrated to run with one or more 3G UEs (see section 6). Execution log files are provided as evidence.

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3 Verification Test Summary

Test Case: TC_12_4_1_4d1
Test Group: GMM/ ServiceRequest_procedures
ATS Version: iWD-TVB2003-03_D04wk31 + essential modifications
System Simulator used: Rohde & Schwarz 3G system simulator CRTU-W
UE used: Nokia 7600 & Motorola A845
Verification Status: PASS

4 Corrections required for test case 12.4.1.4d1

4.1 Introduction

This section describes the changes required to make test case 12.4.1.4d1 run correctly with a 3G UE. All modifications are marked with label **WA#NAS<number>** for NAS related changes in the TTCN comments column of the enclosed ATS [1].

The ATS version used as basis was NAS_wk31.mp which is part of the iWD-TVB2003-03_D04wk31 release. This is the most recent ATS provided by MCC160 which contains GCF package 1 to 4 test cases.

The enclosed ATS [1] contains a number of additional changes (see list below) in common test steps which are required for other tests, but which are not applicable to test case 12.4.1.4d1:

WA#NAS4395, WA#NAS4426 & WA#NAS4427

4.2 tc_12_4_1_4d1

4.2.1 WA#NAS4558

Test step name	tc_12_4_1_4d1 : lt_TestBody
Reason for change	According to the prose, in Step 39, no Location/Routing Area update should be received
Summary of change	Removed TTCN Rows 28-30
Source of change	New change
Label	WA#NAS4558

Test Case				
Test Case Id:	tc_12_4_1_4d1			
Test Group Reference:	GMM/Routing_Area Updating/PS_only_RAU/			
Purpose:	To test the behaviour of the UE if the network rejects the routing area updating with cause 'Roaming not allowed in this area'.			
Configuration:				
Defaults:	NAS_OtherwiseFail			
Comments:	@SIC_NAPP Initial conditions - SS : Three cells operating in network operation mode II - UE : The UE has a valid IMSI WA#NAS4558 WA#NAS4603			
...	La...	Behaviour Description	Constraint Ref	Comments
1		START t_Guard(300)		
2		+ts_InitVariables		
3		(tcv_CellInfoA.mcc := tsc_MCC_2, tcv_CellInfoA.nmo := tsc_NMO_II, tcv_CellInfoB.attenuationLevel := tsc_AttenuationSuitableNeighbourCell, tcv_CellInfoB.mcc := tsc_MCC_2, tcv_CellInfoB.nmo := tsc_NMO_II, tcv_CellInfoB.lac := tsc_LAC_2)		Test case specific cell settings
4		+ ts_MMI_SetOpModeA		
5		+ts_GMM_Config_CellA_CellB		Configure cell A and cell B

4.2.2 WA#NAS4658

Test step name tc_12_4_1_4d1 : It_TestBody

Reason for change Incorrect Detach procedure expected in cell B. As Cell B will be in the forbidden list due to the Routing Area Update being Reject in Cell B (It_RARej_Steps_9To10).

Summary of change Replaced "ts_MM_IMSI_Detach" in Line 32 with "+ts_SS_SwitchCellPowerLevels (tsc_CellA, tsc_CellB) and +ts_GMM_DetachOnSwitchOff(tsc_CellA)" after line 31

Source of change New change

Label WA#NAS4658

28		+ It_ActivateCellB_Step38		Step 38
29		+ts_VerifyNoAccess (30)		Step 39
30		+ts_PS_Paging_PTMSI (tsc_CellB, tcv_RRC_PagingCau)		Step 40
31		+ts_VerifyNoAccess (10)		Step 41
32		+ts_SS_SwitchCellPowerLevels (tsc_CellA, tsc_CellB)		WA#NAS4658
33		+ts_GMM_DetachOnSwitchOff(tsc_CellA)		WA#NAS4658

4.2.3 WA#NAS4591

Test step name tc_12_4_1_4d1

Reason for change Incorrect test step used for a NMO_II test case

Summary of change Replaced test step "ts_GMM_CombinedAttachReject" with "ts_GMM_AttachReject"

Source of change New change

Label WA#NAS4591

2	+ts_InitVariables		
3	(tcv_CellInfoA.mcc := tsc_MCC_2, tcv_CellInfoA.nmno := tsc_NMO_II, tcv_CellInfoB.attenuationLevel := tsc_AttenuationSuitableNeighbourCell, tcv_CellInfoB.mcc := tsc_MCC_2, tcv_CellInfoB.nmno := tsc_NMO_II, tcv_CellInfoB.lac := tsc_LAC_2)		Test case specific cell settings
4	+ts_MM_SetOpModeA		
5	+ts_GMM_Config_CellA_CellB		Configure cell A and cell B
6	+ts_GMM_AttachReject(tsc_CellA)		Invalidate temporary USIM parameters WA#NAS4591
7	+ts_GMM_SwitchOff_AfterPSRejection(tsc_CellA, tcv_CellInfoA.attFlag)		

4.2.4 WA#NAS4646

Test step name tc_12_4_1_4d1 : It_Attach_Steps_3To6

Reason for change According to the prose, TMSI status has not been explicitly mentioned as not to be expected. Moreover an AutoAttach UE would send an Attach request message with tmsistatus information based on previous registrations. Therefore TMSI status should not be expected as invalid.

Summary of change Replaced "ts_MM_RegistrationHandleAttachReqIMSI_NoTS" with "ts_MM_RegistrationHandleAttachReqIMSI"

Source of change New change

Label WA#NAS4646

It_Attach_Steps_3To6			
32	+ts_MM_RegistrationHandleAttachReqIMSI(tsc_CellA)		Step 3-4. CS registration If UE Operation mode A. Handle the receipt of ATTACH REQ @sic VB Handle Attach req during CS registration sic@ WA#NAS4646
33	+ts_GMM_AuthenticateAndStartIntegrityProtection(tsc_CellA)		

4.2.5 WA#NAS4559

Test step name tc_12_4_1_4d1 : It_RARej_Steps_9To10

Reason for change Missing RRC Connection Establishment test step

Summary of change Added "ts_RRC_ConnEst"

Source of change New change

Label WA#NAS4559

It_RARej_Steps_9To10		
37	+ts_RRC_ConnEst (tsc_CellB, est_Reg, registration)	WA#NAS4559
38	+ ts_MM_RegistrationRAU_TMSI_ifOpModeA (tsc_CellB, px_TMSI_Def)	Step 8a
39	+ It_HandleRAU_Req	
40	TBP1 [(tcv_TmpRAU_ReqPDU.updateType = (c_GMM_UpdateTypeRA_Updating)) AND (tcv_TmpRAU_ReqPDU.oldRAI = (c_RAI_v(tcv_CellInfoA.mcc, tcv_CellInfoA.mnc, tcv_CellInfoA.lac, tcv_CellInfoA.rac))) AND (tcv_TmpRAU_ReqPDU.oldPTMSI_Signature = (c_PTMSI_Signature (px_PTMSI_Sig2))) AND (tcv_TmpRAU_ReqPDU.gprsCiphKeySeqNo = (c_CiphKeySeqNum(tcv_P_S_KeySeq)))]	(P) Step 9 check the contents of the received ROUTING AREA UPDATING REQUEST

4.2.6 WA#NAS4560

Test step name tc_12_4_1_4d1 : It_Attach_Steps_19To23
Reason for change Missing RRC Connection Establishment test step
Summary of change Added "ts_RRC_ConnEst"
Source of change New change
Label WA#NAS4560

It_Attach_Steps_19To23		
44	+ts_RRC_ConnEst (tsc_CellA, est_Reg, registration)	WA#NAS4560
45	+ ts_MM_RegistrationRAU_TMSI_ifOpModeA (tsc_CellA, px_TMSI_Def)	Step 19
46	+ It_HandleRAU_Req	

5 Branches executed in test case 12.4.1.4d1

The test case implementation executed the PS branch for NMO_II, UE_OpMode A with Integrity activated, Ciphering disabled, AutoAttach off.

6 Execution Log Files

6.1 Nokia 7600

The Nokia 7600 passed this test case on Rohde & Schwarz 3G System Simulator CRTU-W. The documentation below is enclosed as evidence of the successful test case run [1]:

- Execution log files 12_4_1_4d1_Logs-Nokia\Index.html**
 These execution log files in HTML format show the dynamic behaviour of the test in a tabular view and in message sequence chart (MSC) view. All message contents are fully decoded and listed in hexadecimal format. Preliminary verdicts and the final test case verdict are listed in the log file.

- **PICS/PIXIT file 12_4_1_4d1-pics-pixit-Nokia.html**
HTML file containing all PICS/PIXIT parameters used for testing the PS mode

6.2 Motorola A845

The Motorola A845 passed this test case on Rohde & Schwarz 3G System Simulator CRTU-W. The documentation below is enclosed as evidence of the successful test case run [1]:

- **Execution log files 12_4_1_4d1_Logs-MotorolaIndex.html**
These execution log files in HTML format show the dynamic behaviour of the test in a tabular view and in message sequence chart (MSC) view. All message contents are fully decoded and listed in hexadecimal format. Preliminary verdicts and the final test case verdict are listed in the log file.
- **PICS/PIXIT file 12_4_1_4d1-pics-pixit-Motorola.html**
HTML file containing all PICS/PIXIT parameters used for testing the PS mode

7 References

- [1] **T1s040578**
This archive comprises HTML Execution log files, PICS/PIXIT files and the TTCN MP file

CR-Form-v7

CHANGE REQUEST

34.123-3 CR 1075 # rev - # Current version: **3.7.0**

For **HELP** on using this form, see bottom of this page or look at the pop-up text over the # symbols.

Proposed change affects: UICC apps# ME Radio Access Network Core Network

Title:	# Addition of P2 test case 6.2.1.9 to IR_U ATS v3.7.0		
Source:	# Racal Instruments Wireless Solutions, an Aeroflex Company		
Work item code:	# TEI	Date:	# 28/09/04
Category:	# B	Release:	# R99
	Use <u>one</u> of the following categories:		Use <u>one</u> of the following releases:
	F (correction)		2 (GSM Phase 2)
	A (corresponds to a correction in an earlier release)		R96 (Release 1996)
	B (addition of feature),		R97 (Release 1997)
	C (functional modification of feature)		R98 (Release 1998)
	D (editorial modification)		R99 (Release 1999)
	Detailed explanations of the above categories can be found in 3GPP TR 21.900 .		Rel-4 (Release 4)
			Rel-5 (Release 5)
			Rel-6 (Release 6)

Reason for change:	# To add verified GCF Package 2 Idle Mode test case 6.2.1.9 to the approved ATS V3.7.0
Summary of change:	# This document lists all changes applied to test case 6.2.1.9 required for approval.
Consequences if not approved:	# Test case will not be added to ATS

Clauses affected:	# 6.2.1.9								
Other specs affected:	<table style="display: inline-table; border-collapse: collapse;"> <tr> <td style="border: 1px solid black; padding: 2px;">Y</td> <td style="border: 1px solid black; padding: 2px;">N</td> </tr> <tr> <td style="border: 1px solid black; padding: 2px;">#</td> <td style="border: 1px solid black; padding: 2px;">X</td> </tr> <tr> <td style="border: 1px solid black; padding: 2px;">X</td> <td style="border: 1px solid black; padding: 2px;">#</td> </tr> <tr> <td style="border: 1px solid black; padding: 2px;">#</td> <td style="border: 1px solid black; padding: 2px;">X</td> </tr> </table> Other core specifications # Test specifications # O&M Specifications #	Y	N	#	X	X	#	#	X
Y	N								
#	X								
X	#								
#	X								
Other comments:	# No impact on 34.123-1.								

How to create CRs using this form:

Comprehensive information and tips about how to create CRs can be found at <http://www.3gpp.org/specs/CR.htm>. Below is a brief summary:

- 1) Fill out the above form. The symbols above marked # contain pop-up help information about the field that they are closest to.
- 2) Obtain the latest version for the release of the specification to which the change is proposed. Use the MS Word "revision marks" feature (also known as "track changes") when making the changes. All 3GPP specifications can be

downloaded from the 3GPP server under <ftp://ftp.3gpp.org/specs/> For the latest version, look for the directory name with the latest date e.g. 2001-03 contains the specifications resulting from the March 2001 TSG meetings.

- 3) With "track changes" disabled, paste the entire CR form (use CTRL-A to select it) into the specification just in front of the clause containing the first piece of changed text. Delete those parts of the specification which are not relevant to the change request.

Title: Changes to test case 6.2.1.9 required for approval
Source: Racal Instruments Wireless Solutions
Document for: Approval
Contact: **Kundan Sehmbey**
kundan.sehmbey@aeroflex.com
Tel. +44 1628 610639

1 Overview

This document gives details of the changes made to TTCN implementation for test case 6.2.1.9, which is part of IR_U test suite. Minimum changes are made so that it can be executed with one or more 3G UE.

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3 Verification Test Summary

Test Case: tc_6_2_1_9
Test Group: IR_U/ DualIdleMode /
ATS Version: IR_U_wk37 + modifications
System Simulator used: Racal Instruments Wireless Solution 6401 AIME/CT
UE used: Nokia 3G UE 7600
Verification Status: PASS

4 Corrections required for test case 6.2.1.9

4.1 Introduction

This documents lists the changes made to test case 6_2_1_9 to make it work with 3G UE. The changes made are given a change label and are explained in the following session.

4.2 Presentation of the modifications

The changes done are described below in tables, and are also supported by **screenshots** taken from the relevant parts of changed TTCN objects in TTCN.GR format.

The tables used in the following session is described below with an example below

Table 1: Example Change Table

TTCN object	<i>tc_6_2_1_9</i>
Reference ATS	<i>IR_U_wk37.mp</i>
Change Label	<i>RACAL#IR_U0101</i>
Reason for change	<i><Textual description of change reason>.</i>
Summary of change	<i><Textual description of performed changes></i>
Other affected objects	<i>< other fields affected> (optional)</i>
ETSI comment	
Racal conclusion	

TTCN object: Identifier(s) of one or more TTCN objects having a global context in the TTCN ATS. Typically only one TTCN object occurs. More than one object is listed only, when:

- a) All objects belong to the same TTCN Object Class; and
- b) All objects are either created, or are modified in the same systematic way; and
- c) No other change is proposed for the listed objects.

- Reference ATS:** ETSI ATS containing the referred TTCN object(s), relative to which the current change description applies.
- Change Label:** Textual identifier starting with the fixed string *“RACAL#IR_Ui*, followed by a 4-digit number (e.g. *RACAL#IR_U 0101*). A Change Label is assigned when a particular problem is recognized during the verification work. More than one TTCN Object may be affected by the proposed solution to this problem.
- Reason for change:** Textual description of the reason why the change is proposed.
- Summary of change:** Short description of what is proposed for change.
- Other affected objects:** List of one or more fields, pointing to other TTCN objects having assigned the same Change Label, i.e. all other objects being affected by the problem-giving rise to the current Change Label.
- ETSI comment:** ETSI colleagues giving a dedicated reply to the current CR document may use this field.
- RACAL conclusion:** Filled by the Racal Instruments Wireless Solution when ETSI answer does not indicate acceptance of the change request.

4.3 Modifications

4.3.1 Preamble

TTCN object	ts_6_2_1_9
Reference ATS	<i>IR_U_wk37.mp[2]</i>
Change Label	RACAL#IR_U0120
Reason for change	With current implementation SIM LOCI has to be updated to PLMN 7 every time before executing the test case.
Summary of change	Did Normal Registration when only PLMN 7 is present then UE is switched off and then switched on again after all there cells are created
Other affected objects	
ETSI comment	
Racal conclusion	

4		+ts_SS_CreateCellFACH (tsc_CellA)	
5		+ts_SendDefSysInfo_PLMN_RAT(tsc_CellA)	
6		+ts_MMI_Cmd ("Please switch on the UE")	
7		(tcv_UE_SwitchedOn := TRUE)	
8		+ts_NormalRegistration (tsc_CellA)	
9		+ts_DetachOnSwitchOff_FACH(tsc_CellA)	
10		+ts_SS_CreateCellFACH(tsc_CellC)	

4.3.2 ts_DetachOnSwitchOff_FACH

TTCN object	ts_DetachOnSwitchOff_FACH
Reference ATS	<i>IR_U_wk37.mp[2]</i>
Change Label	RACAL# <i>IR_U0121</i>
Reason for change	Test step to handle Detach when UE is in Cell_FACH state
Summary of change	Created a new TS ts_DetachOnSwitchOff_FACH based on ts_DetachOnSwitchOff
Other affected objects	All 6.2.1.x test cases
ETSI comment	
Racal conclusion	



ts_DetachOnSwitchOff_FACH.html

4.3.3 ts_MM_IMSI_Detach_FACH

TTCN object	ts_MM_IMSI_Detach_FACH
Reference ATS	<i>IR_U_wk37.mp[2]</i>
Change Label	RACAL# <i>IR_U0122</i>
Reason for change	Test step to handle IMSI Detach when UE is in Cell_FACH state and CS only
Summary of change	Created a new TS ts_MM_IMSI_Detach_FACH based on ts_MM_IMSI_Detach
Other affected objects	
ETSI comment	
Racal conclusion	



ts_MM_IMSI_Detach_FACH.html

4.3.4 CSPS

TTCN object	ts_6_2_1_9
Reference ATS	<i>IR_U_wk37.mp[2]</i>
Change Label	RACAL# <i>IR_U0123</i>
Reason for change	If UE is in CSPS mode then UE will do RAU procedure in the new cell but, current implementation doesn't support that
Summary of change	Added a check for CSPS and handled RAU message in It_SubTest1
Other affected objects	
ETSI comment	
Racal conclusion	

It_SubTest1					
41		G_L2 ? G_L2_ACCESS_IND (tcv_ChRequest := G_L2_ACCESS_IND.burst, tcv_RR_RFN := G_L2_ACCESS_IND.rfn)	cabr_G_L2_AC CESS_IND (tsc _GSM_CellA, tsc _PhyCh0, 1, ?, ?, c_G_Channel Req_LocUpdate)	(P)	PLMN 8 Sele
42		+ts_GSM_RegistrationWithoutRRConReq (tsc_GSM_CellA)			
43		+po_GSM_SS_CellRelease (tsc_GSM_CellA)			cell switched
44		TM?RLC_TR_DATA_IND (tcv_InitialUE_Id := RLC_TR_DA TA_IND.tM_message.uL_CCCH_Message.message.rrcConn nectionRequest.initialUE_Identity) CANCEL t_Idle	car_RRC_Conn Req (tsc_CellC , tsc_RB0, cbr_108_RRC _ConnReq(?))	(P)	PLMN 9 Sele
45		[pc_PS = TRUE]			
46		+ts_RAUWithoutRRCConReq(tsc_CellC,tsc_CellA)			
47		+ts_SS_Rel (tsc_CellC)			cell switched
48		[pc_CS = TRUE]			
49		+ts_RegistrationWithoutRRCConReq (tsc_CellC)			cell switched
50		+ts_SS_Rel (tsc_CellC)			
51		TM?RLC_TR_DATA_IND (tcv_InitialUE_Id := RLC_TR_DAT A_IND.tM_message.uL_CCCH_Message.message.rrcConn nectionRequest.initialUE_Identity) CANCEL t_Idle	car_RRC_Conn Req (tsc_CellC , tsc_RB0, cbr_108_RRC _ConnReq(?))	(P)	PLMN 9 Sele
52		[pc_PS = TRUE]			
53		+ts_RAUWithoutRRCConReq(tsc_CellC,tsc_CellA)			
54		+ts_SS_Rel (tsc_CellC)			cell switched

4.3.5 ts_RAUWithoutRRCConReq

TTCN object	ts_RAUWithoutRRCConReq
Reference ATS	<i>IR_U_wk37.mp[2]</i>
Change Label	RACAL# <i>IR_U0124</i>
Reason for change	There is no TS to handle RAU procedure without RRC Connection Request
Summary of change	Created a new TS to handle RAU procedure without RRC Connection Request
Other affected objects	
ETSI comment	
Racal conclusion	



ts_RAUWithoutRRCConReq.html

4.3.6 ts_GMM_RAU_Accept

TTCN object	ts_GMM_RAU_Accept
Reference ATS	<i>IR_U_wk37.mp[2]</i>
Change Label	RACAL# <i>IR_U0125</i>
Reason for change	There is no TS to handle generic Update Type
Summary of change	Created a TS where the Update Type is extracted from the RAU Request message and then to use it in RAU Accept message
Other affected objects	
ETSI comment	
Racal conclusion	



ts_GMM_RAU_Accept.html

4.3.7 tcv_ROUTINGAREAUPDATEREQUEST

TTCN object	tc_6_2_1_9
Reference ATS	<i>IR_U_wk37.mp[2]</i>
Change Label	RACAL# <i>IR_U0126</i>
Reason for change	Variable to hold ROUTINGAREAUPDATEREQUEST message
Summary of change	Created new tcv to hold ROUTINGAREAUPDATEREQUEST
Other affected objects	
ETSI comment	
Racal conclusion	

4.3.8 tcv_UpdateResultValue

TTCN object	tcv_UpdateResultValue
Reference ATS	<i>IR_U_wk37.mp[2]</i>
Change Label	RACAL# <i>IR_U0127</i>
Reason for change	Variable to hold the Update Result based on what Update type received on Request
Summary of change	Created a new tcv to store the Update Result Value
Other affected objects	
ETSI comment	
Racal conclusion	

4.3.9 c_UpdateResult_v

TTCN object	c_UpdateResult_v
Reference ATS	IR_U_wk37.mp[2]
Change Label	RACAL#IR_U0128
Reason for change	Generic constraint for Update Result
Summary of change	New constraint created with Update Result Value as input parameter
Other affected objects	
ETSI comment	
Racal conclusion	

4.3.10 ts_NAS_Registration

TTCN object	ts_NAS_Registration
Reference ATS	IR_U_wk37.mp[2]
Change Label	RACAL#IR_U0129
Reason for change	Not handling pc_AutomaticAttachSwitchON
Summary of change	Removed It_CS_PS, It_RRC_ConnRel and It_GMM_Registration, It_RRC_ConnRel below the conditions for pc_CS AND pc_PS and pc_Ps respectively. Replaced them with ts_GMM_IdleUpdated_WO_RRC_Con_Req
Other affected objects	
ETSI comment	
Racal conclusion	



ts_NAS_Registration.html

4.3.11 ts_GMM_IdleUpdated_WO_RRC_Con_Req

TTCN object	ts_GMM_IdleUpdated_WO_RRC_Con_Req
Reference ATS	IR_U_wk37.mp[2]
Change Label	RACAL#IR_U0130
Reason for change	No test step to handle GMM attach procedure without RRC Connection Request
Summary of change	Created a new test step based on ts_GMM_IdleUpdated without RRC Connection Request
Other affected objects	
ETSI comment	
Racal conclusion	



ts_GMM_IdleUpdated_WO_RRC_Con_Req.html

4.4 Changes referred to from previous CRs

N/A

5 Branches executed in test case 6.2.1.9

Test case was executed with pc_cs set to TRUE and pc_ps set to TRUE.

6 Execution Log Files

The Nokia 3G UE 7600 passed this test case in CSPA mode on the Racal Instrument Wireless Solution 6401 AIME/CT. Log of the successful test case execution is enclosed in T1s040605.zip [1]

7 References

[1]	T1s040605.zip Attachment containing the Successful log and the TTCN MP file for tc_6_2_1_9.
[2]	<i>IR_U_wk37.mp</i> ETSI IR_U_wk37 ATS version of week 37

CR-Form-v7

CHANGE REQUEST

⌘ **34.123-3 CR 1076** ⌘ rev **3.7.0** ⌘ Current version: **3.7.0** ⌘

For **HELP** on using this form, see bottom of this page or look at the pop-up text over the ⌘ symbols.

Proposed change affects: UICC apps ME Radio Access Network Core Network

Title:	⌘ Addition of GCF P4 test case 12.2.1.5b ATS V3.7.0		
Source:	⌘ Anritsu Ltd		
Work item code:	⌘ N/A	Date:	⌘ 20/09/2004
Category:	⌘ B	Release:	⌘ R99
	<i>Use one of the following categories:</i> F (correction) A (corresponds to a correction in an earlier release) B (addition of feature), C (functional modification of feature) D (editorial modification) Detailed explanations of the above categories can be found in 3GPP TR 21.900 .		<i>Use one of the following releases:</i> 2 (GSM Phase 2) R96 (Release 1996) R97 (Release 1997) R98 (Release 1998) R99 (Release 1999) Rel-4 (Release 4) Rel-5 (Release 5) Rel-6 (Release 6)

Reason for change:	⌘ To introduce test case 12.2.1.5b ATS V3.7.0		
Summary of change:	⌘ 1 table added in iWD-TVB2003-03_D04wk34, table modified in iWD-TVB2003-03_D04wk34 for details see below		
Consequences if not approved:	⌘ Test case will fail with Conformant UE		

Clauses affected:	⌘ N/A										
Other specs affected:	<table border="1" style="display: inline-table; border-collapse: collapse; text-align: center;"> <tr> <td style="width: 20px;">Y</td> <td style="width: 20px;">N</td> </tr> <tr> <td style="width: 20px;"><input type="checkbox"/></td> <td style="width: 20px;"><input checked="" type="checkbox"/></td> </tr> <tr> <td style="width: 20px;"><input type="checkbox"/></td> <td style="width: 20px;"><input checked="" type="checkbox"/></td> </tr> <tr> <td style="width: 20px;"><input type="checkbox"/></td> <td style="width: 20px;"><input checked="" type="checkbox"/></td> </tr> </table>	Y	N	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Other core specifications Test specifications O&M Specifications	⌘
Y	N										
<input type="checkbox"/>	<input checked="" type="checkbox"/>										
<input type="checkbox"/>	<input checked="" type="checkbox"/>										
<input type="checkbox"/>	<input checked="" type="checkbox"/>										
Other comments:	⌘										

How to create CRs using this form:

Comprehensive information and tips about how to create CRs can be found at <http://www.3gpp.org/specs/CR.htm>. Below is a brief summary:

- 1) Fill out the above form. The symbols above marked ⌘ contain pop-up help information about the field that they are closest to.
- 2) Obtain the latest version for the release of the specification to which the change is proposed. Use the MS Word "revision marks" feature (also known as "track changes") when making the changes. All 3GPP specifications can be downloaded from the 3GPP server under <ftp://ftp.3gpp.org/specs/> For the latest version, look for the directory name with the latest date e.g. 2001-03 contains the specifications resulting from the March 2001 TSG meetings.

- 3) With "track changes" disabled, paste the entire CR form (use CTRL-A to select it) into the specification just in front of the clause containing the first piece of changed text. Delete those parts of the specification which are not relevant to the change request.

TSG-T WG 1 E-Mail 2004

T1-040595

01 Jan - 31 Dec 2004

Title	Introducing test case 12.2.1.5b ATS V3.7.0
Source	Anritsu
Agenda Item	N/A
Document for	Approval
Contact	Dan Fox (Anritsu) dan.fox@eu.anritsu.com Tel: +44 1582 433357

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1 Overview

This document details the changes needed introduce test case 12.2.1.5b ATS V3.7.0 With these changes applied the test case can be demonstrated to run on at least one independent UE implementations. Only essential fixes to the TTCN are applied. This test case has been tested according to the configuration stated below:-

Reference document	TS 34.123-1 version 5.8.0 TS34.108 version 5.1.0
Referenced CRs	None
Based ATS suite	iWD-TVB2003-03_D04wk34
Integrity	Enabled
Ciphering	Disabled
Path tested	PS

2 Tables added to iWD-TVB2003-03_D04wk34

2.1 car_PS_InitDirectTransfer_12215b

Reason for Change: Since the second iATTACH REQi (Step 10) is on same RRC Connection, START value will be OMITED by the UE.

Summary of Change: Defined new Constraint i car_PS_InitDirectTransfer_12215b i to handle OMIT.

ASP Constraint Declaration		
Constraint Name:	car_PS_InitDirectTransfer_12215b (p_CellId: INTEGER; p_Rb :SS_RB_Identity; p_Pdu : PDU)	
Group:		
ASP Name:	RRC_DataInd	
Derivation Path:		
Comments:	The ASP is used to indicate the receipt of the NAS PDU message using acknowledged operation (NAS <- RRC).	
Parameter Name	Element Value	Comments
cellId	p_CellId	
rB_Id	p_Rb	
ch	-	GERAN only
sapId	-	GERAN only
cN_Domain	tsc_SS_PS_Domain	
start	OMIT	Was ?
msg	p_Pdu	

3 Tables Modified to iWD-TVB2003-03_D04wk34

3.1 tc_12_2_1_5b

Reason for Change: Since the DETACH Type for Step 6 is re-attach required , UE send Attach Req immediately after step 7. But at this time SS is configuring according to step 8, hence the test case fails.

Summary of Change: Moved Line no. 17 (1t_ChangePowerStep8) to line number 24

lt_TestBody				
13	(tcv_TestBody := TRUE)		(P)	
14	+ts_Page7E_SwitchOnTriggerGMM_Attach			December 5, 2004
15	+ts_RRC_ConnEst (tsc_Cella, est_Reg, registration)			
16	+lt_AttachDetach_Steps_4To7			
	[FALSE]			
17	-+ lt_ChangePowerStep8			
	[TRUE]			
18	+lt_Steps_10To11			ATTACH REQUEST ATTACH REJECT
19	+lt_Steps_13To20			ATTACH ACCEPT ATTACH COMPLETE
20	+ts_GMM_DetachOnSwitchOff (tsc_CellID)			Steps 11 and 12

lt_AttachDetach_Steps_4To7				
21	Dc ? RRC_DataInd (tcv_Start := RRC_DataInd.start)	car_PS_InitDirectTransfer (tsc_CellDedicated, tsc_RB3, cr_AttachReq (c_GMM_AttachTypePS_Only, c_MobileIdPTMSI_lv_Def, c_RAI_Def_v, tcv_PS_KeySeq))		Step 4. ATTACH REQUEST
22	+ ts_SS_SecurityDownloadStart (ps_domain, tcv_Start)			
23	Dc! RRC_DataReq	ca_PS_DataReq(tsc_CellDedicated, tsc_RB3, cs_AttachAcc6(c_GMM_AttachResultPS_Only, c_RAI_Def_v, c_PTMSI_Signature (px_PTMSI_SigDef), c_MobileIdPTMSI (px_PTMSI_Def), c_GMM_MobileIdTMSI (px_TMSI_Def), c_EquivalentPLMN (tcv_CellInfoD.mcc, tcv_CellInfoD.mnc)))		Step5. ATTACH ACCEPT)
24	+ lt_ChangePowerStep8			
25	Dc ! RRC_DataReq	ca_PS_DataReq(tsc_CellDedicated, tsc_RB3, cs_DetachReqMT (c_DetachTypeReAttRequired))		Step 6. DETACH REQUEST
26	-Dc? RRC_DataInd	car_PS_UplinkDirectTransfer (tsc_CellDedicated, tsc_RB3, cr_DetachAcc)		Step 7. DETACH ACCEPT

3.2 lt_AttachDetach_Steps_4To7 and lt_Steps_10To11

Reason for Change: Since line no. 17 (lt_ChangePowerStep8) was moved to line number 24, line no. 26 (+ts_RRC_ConnRel(tsc_CellA, cell_Dch)) and line no. 27 (+ts_RRC_ConnEst(tsc_CellA, est_Reg,registration)) are no longer needed. Also as per TS 34123-1-580 RRC Connection Rel is NOT required after step 7.

Summary of change: Removed line 26 and 27

lt_AttachDetach_Steps_4To7			
21	Dc ? RRC_DataInd (tcv_Start := RRC_DataInd.start)	car_PS_InitDirectTransfer (tsc_CellDedicated, tsc_RB3, cr_AttachReq (c_GMM_AttachTypePS_Only, c_MobileIdPTMSI_lv_Def, c_RAI_Def_v, tcv_PS_KeySeq))	Step 4. ATTACH REQUEST - Attach type is combined PS/CS or PS attach while IMSI attached - MobileId P-TMSI-1 - RAI-1
22	+ ts_SS_SecurityDownloadStart (ps_domain, tcv_Start)		
23			
24			
25	-Dc ? RRC_DataInd	car_PS_UplinkDirectTransfer (tsc_CellDedicated, tsc_RB3, cr_DetachAcc)	Step 7. DETACH ACCEPT
	[FALSE]		
26	+ts_RRC_ConnRel(tsc_CellA, cell_Dch)		
	[TRUE]		
lt_Steps_10To11			
	[FALSE]		
27	+ts_RRC_ConnEst(tsc_CellA, est_Reg, registration)		
	[TRUE]		
28	Dc ? RRC_DataInd (tcv_Start := RRC_DataInd.start)	car_PS_InitDirectTransfer_12215b (tsc_CellDedicated, tsc_RB3, cr_AttachReq (c_GMM_AttachTypePS_Only,	Step 10. ATTACH REQUEST

		c_MobileIdPTMSI_lv_Def, c_RAI_Def_v, tcv_PS_KeySeq))	
--	--	--	--

3.3 lt_AttachDetach_Steps_4To7

Reason for Change: Step 4a,4b,4c were NOT implemented in TTCN.

Summary of change: Added i+ ts_GMM_AuthenticateAndStartIntegrityProtection (tsc_CellA)i at line number 23.

lt_AttachDetach_Steps_4To7			
21	Dc ? RRC_DataInd (tcv_Start := RRC_DataInd.start)	car_PS_InitDirectTransfer (tsc_CellDedicated, tsc_RB3, cr_AttachReq (c_GMM_AttachTypePS_Only, c_MobileIdPTMSI_lv_Def, c_RAI_Def_v, tcv_PS_KeySeq))	Step 4. ATTACH REQUEST - Attach type is combined PS/CS or PS attach while IMSI attached - MobileId P-TMSI-1 - RAI-1
22	+ ts_SS_SecurityDownloadStart (ps_domain, tcv_Start)		
23	-De ! RRC_DataReq (tcv_AssignedPTMSI := px_PTMSI_Def, tcv_Assigned_PTMSI_Sig := px_PTMSI_SigDef, tcv_AssignedTMSI := px_TMSI_Def)	ea_PS_DataReq(tsc_CellDedicated, tsc_RB3, es_AttachAcc6(e_GMM_AttachResultPS_Only, e_RAI_Def_v, e_PTMSI_Signature (px_PTMSI_SigDef), e_MobileIdPTMSI (px_PTMSI_Def), e_GMM_MobileIdTMSI (px_TMSI_Def), e_EquivalentPLMN (tcv_CellInfoD.mcc, tcv_CellInfoD.mnc)))	Step 5. ATTACH ACCEPT @sic VB e-PLMN sic@
23	+ <u>ts_GMM_AuthenticateAndStartIntegrityProtection</u> (tsc_CellA)		

3.4 lt_Steps_10To11

Reason for Change : Newly deifned constraint `car_PS_InitDirectTransfer_12215b` was used in line number 28.

Summary of change: Replaced contrait `car_PS_InitDirectTransfer` with `car_PS_InitDirectTransfer_12215b`.

lt_Steps_10To11			
27	<code>+ts_RRC_ConnEst(tsc_CellA, est_Reg, registration)</code>		
28	<code>Dc ? RRC_DataInd (tcv_Start := RRC_DataInd.start)</code>	<code>car_PS_InitDirectTransfer</code> <code>car_PS_InitDirectTransfer_12215b (tsc_CellDedicated, tsc_RB3, cr_AttachReq (c_GMM_AttachTypePS_Only, c_MobileIdPTMSI_lv_Def, c_RAI_Def_v, tcv_PS_KeySeq))</code>	Step 10. ATTACH REQUEST - Attach type is 'PS attach' - MobileId P-TMSI-1 - RAI-1 - PTMSI-1 signature
29	<code>+ ts_SS_SecurityDownloadStart (ps_domain, tcv_Start)</code>		

3.5 lt_Steps_13To20

Reason for Change: As Security mode is not performed , PS key sequence would be reset by the UE.

Summary of change: Added `(tcv_PS_KeySeq := '111'B)`

lt_Steps_13To20			
41	<code>(tcv_PS_KeySeq := '111'B)</code>		
42	<code>+ ts_MM_RegistrationHandleAttachReqIMSI (tsc_CellD)</code>		Step 13-15. CS registration: If UE Operation mode A. Handle the

			receipt of ATTACH REQ @sic VB Handle Attach req during CS registration @sic
43	+ ts_GMM_AuthenticateAndStartIntegrityProtection (tsc_CellD)		Steps 16 to 18
44	Dc ! RRC_DataReq	ca_PS_DataReq (tsc_CellDedicated, tsc_RB3, cs_AttachAcc6 (c_GMM_AttachResultPS_Only, c_RAI_v (tcv_CellInfoD.mcc, tcv_CellInfoD.mnc, tcv_CellInfoD.lac, tcv_CellInfoD.rac), c_PTMSI_SignatureDef, c_MobileIdPTMSI_Def, - , c_EquivalentPLMN (tcv_CellInfoA.mcc, tcv_CellInfoA.mnc)))	Step 19. ATTACH ACCEPT - Attach result 'PS attach' - RAI-2 of Cell B - P-TMSI-1 signature - MobileId P-TMSI-1 - omit TMSI @sic VB e- PLMN sic@
45	Dc ? RRC_DataInd	car_PS_UplinkDirectTransfer (tsc_CellDedicated, tsc_RB3, cr_AttachComplete)	Step 20. ATTACH COMPLETE
46	+ts_RRC_ConnRel(tsc_CellD, cell_Dch)		

3.6 lt_AttachDetach_Steps_4To7

Reason for Change: As per TS 34123-1-580 Step 5 (ATTACH ACCEPT) should NOT have px_PTMSI_SigDef, px_PTMSI_Def and px_TMSI_Def.

Summary of change: Removed px_PTMSI_SigDef, px_PTMSI_Def and px_TMSI_Def from iATTACH ACCEPT i pdu.

lt_AttachDetach_Steps_4To7			
21	Dc ? RRC_DataInd (tcv_Start := RRC_DataInd.start)	car_PS_InitDirectTransfer (tsc_CellDedicated, tsc_RB3, cr_AttachReq (c_GMM_AttachTypePS_Only, c_MobileIdPTMSI_lv_Def, c_RAI_Def_v, tcv_PS_KeySeq))	Step 4. ATTACH REQUEST
22	+ ts_SS_SecurityDownloadStart (ps_domain, tcv_Start)		
23	Dc ! RRC_DataReq	ca_PS_DataReq(tsc_CellDedicated,	Step 5-

	<pre>(tev_AssignedPTMSI := px_PTMSI_Def, tev_Assigned_PTMSI_Sig := px_PTMSI_SigDef, tev_AssignedTMSI := px_TMSI_Def)</pre>	<pre>tsc_RB3, es_AttachAcc6(e_GMM_AttachResultPS_Only, e_RAI_Def_v, e_PTMSI_Signature (px_PTMSI_SigDef), e_MobileIdPTMSI (px_PTMSI_Def), e_GMM_MobileIdTMSI (px_TMSI_Def), e_EquivalentPLMN (tev_CellInfoD.mcc, tev_CellInfoD.mnc))})</pre>	<pre>ATTACH ACCEPT @sic VB e- PLMN sic@</pre>
23	Dc! RRC_DataReq	<pre>ca_PS_DataReq(tsc_CellDedicated, tsc_RB3, cs_AttachAcc6(c_GMM_AttachResultPS_Only, c_RAI_Def_v, -, -, -, c_EquivalentPLMN (tcv_CellInfoD.mcc, tcv_CellInfoD.mnc)))</pre>	<pre>Step5. ATTACH ACCEPT @sic VB e- PLMN sic@</pre>
24	<u>Dc ! RRC_DataReq</u>	<pre>ca_PS_DataReq(tsc_CellDedicated, tsc_RB3, cs_DetachReqMT (c_DetachTypeReAttRequired))</pre>	<pre>Step 6. DETACH REQUEST))</pre>
25	-Dc ? RRC_DataInd	<pre>car_PS_UplinkDirectTransfer (tsc_CellDedicated, tsc_RB3, cr_DetachAcc)</pre>	<pre>Step 7. DETACH ACCEPT</pre>

CR-Form-v7
CHANGE REQUEST
⌘ 34.123-3 CR 1077 ⌘ rev <input type="text"/> ⌘ Current version: 3.7.0 ⌘

For **HELP** on using this form, see bottom of this page or look at the pop-up text over the ⌘ symbols.

Proposed change affects: UICC apps ME Radio Access Network Core Network

Title:	⌘ Addition of GCF P4 test case 12.9.7c ATS V3.7.0		
Source:	⌘ Anritsu Ltd		
Work item code:	⌘ N/A	Date:	⌘ 13/09/2004
Category:	⌘ B	Release:	⌘ R99
	Use <u>one</u> of the following categories: F (correction) A (corresponds to a correction in an earlier release) B (addition of feature), C (functional modification of feature) D (editorial modification) Detailed explanations of the above categories can be found in 3GPP TR 21.900 .		Use <u>one</u> of the following releases: 2 (GSM Phase 2) R96 (Release 1996) R97 (Release 1997) R98 (Release 1998) R99 (Release 1999) Rel-4 (Release 4) Rel-5 (Release 5) Rel-6 (Release 6)

Reason for change:	⌘ To introduce test case 12.9.7c ATS V3.7.0		
Summary of change:	⌘ 1 table modified in iWD-TVB2003-03_D04wk34, for details see below		
Consequences if not approved:	⌘ Test case will fail with Conformant UE		

Clauses affected:	⌘ N/A										
Other specs affected:	<table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td style="padding: 2px;">Y</td> <td style="padding: 2px;">N</td> </tr> <tr> <td style="padding: 2px;"><input type="checkbox"/></td> <td style="padding: 2px;"><input checked="" type="checkbox"/></td> </tr> <tr> <td style="padding: 2px;"><input type="checkbox"/></td> <td style="padding: 2px;"><input checked="" type="checkbox"/></td> </tr> <tr> <td style="padding: 2px;"><input type="checkbox"/></td> <td style="padding: 2px;"><input checked="" type="checkbox"/></td> </tr> </table>	Y	N	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Other core specifications Test specifications O&M Specifications	⌘ <input type="text"/>
Y	N										
<input type="checkbox"/>	<input checked="" type="checkbox"/>										
<input type="checkbox"/>	<input checked="" type="checkbox"/>										
<input type="checkbox"/>	<input checked="" type="checkbox"/>										
Other comments:	⌘ <input type="text"/>										

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- 1) Fill out the above form. The symbols above marked ⌘ contain pop-up help information about the field that they are closest to.
- 2) Obtain the latest version for the release of the specification to which the change is proposed. Use the MS Word "revision marks" feature (also known as "track changes") when making the changes. All 3GPP specifications can be downloaded from the 3GPP server under <ftp://ftp.3gpp.org/specs/> For the latest version, look for the directory name with the latest date e.g. 2001-03 contains the specifications resulting from the March 2001 TSG meetings.
- 3) With "track changes" disabled, paste the entire CR form (use CTRL-A to select it) into the specification just in front of the clause containing the first piece of changed text. Delete those parts of the specification which are not relevant to the change request.

Title	Introducing test case 12.9.7c ATS V3.7.0
Source	Anritsu
Agenda Item	N/A
Document for	Approval
Contact	Dan Fox (Anritsu) dan.fox@eu.anritsu.com Tel: +44 1582 433357

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1 Overview

This document details the changes needed introduce test case 12.9.7c ATS V3.7.0 With these changes applied the test case can be demonstrated to run on at least one independent UE implementations. Only essential fixes to the TTCN are applied. This test case has been tested according to the configuration stated below:-

Reference document	TS 34.123-1 version 5.8.0 TS34.108 version 5.1.0
Referenced CRs	None
Based ATS suite	iWD-TVB2003-03_D04wk34
Integrity	Enabled
Ciphering	Disabled
Path tested	PS

2 Tables added to iWD-TVB2003-03_D04wk34

None

3 Tables Modified to iWD-TVB2003-03_D04wk34

3.1 tc_12_9_7c

Reason for Change: As per TS 34123-1-580 all three cells should be operating in network operation mode II

Summary of change: Changed tsc_NMO_I to tsc_NMO_II for CellA, CellB and CellD as below

Test Case					
Test Case Id:		tc_12_9_7c			
Test Group Reference:		GMM/ServiceRequest_procedures/			
Purpose:		To test the behaviour of the UE when the network rejects the service request procedure with cause 'Roaming not allowed in this location area'.			
Configuration:					
Defaults:		NAS_OtherwiseFail			
Comments:		@SIC_NAPP Initial conditions - SS : Three cells operating in network operation mode II - UE : The UE has a validP-TMSI, P_TMSI signature, RAI and GPRS ciphering key sequence number Mapping of the cells from the prose to the TTCN: - Cell A -> Cell A - Cell B -> Cell B - Cell C -> Cell D @sic VB T1-040044 sic@			
Nr	Label	Behaviour Description	Constraint Ref	Verdict	Comments
1		START t_Guard (300)			
2		+ts_InitVariables			
3		 -(tev_NumOfPLMN := 2, tev_CellInfoA.nmo := tsc_NMO_I, tev_CellInfoB.attenuationLevel := tsc_AttenuationNonSuitableNeighbourCell, tev_CellInfoB.nmo := tsc_NMO_I, tev_CellInfoB.rac := tsc_RAC_2, tev_CellInfoB.attFlag := tsc_AttOff, tev_CellInfoB.t3212 := tsc_T3212_0, tev_CellInfoD.nmo := tsc_NMO_I, tev_CellInfoD.mcc := tsc_MCC_2, tev_CellInfoD.attFlag := tsc_AttOff, tev_CellInfoD.t3212 := tsc_T3212_0, 			 Test case specific cell settings @sic VB attFlag shall be set to Off in all cells sic@

		tcv_CellInfoD.attenuationLevel := tsc_AttenuationNonSuitableNeighbourCell			
4		(tcv_NumOfPLMN := 2, tcv_CellInfoA.nmo := tsc_NMO_II, tcv_CellInfoB.attenuationLevel := tsc_AttenuationNonSuitableNeighbourCell, tcv_CellInfoB.nmo := tsc_NMO_II, tcv_CellInfoB.rac := tsc_RAC_2, tcv_CellInfoB.attFlag := tsc_AttOff, tcv_CellInfoB.t3212 := tsc_T3212_0, tcv_CellInfoD.nmo := tsc_NMO_II, tcv_CellInfoD.mcc := tsc_MCC_2, tcv_CellInfoD.attFlag := tsc_AttOff, tcv_CellInfoD.t3212 := tsc_T3212_0, tcv_CellInfoD.attenuationLevel := tsc_AttenuationNonSuitableNeighbourCell)			Test case specific cell settings @sic VB attFlag shall be set to Off in all cells sic@
5		+ ts_GMM_SetOpModeC_OrA			The UE is set in UE operation mode A if supported, otherwise it is set to UE operation mode

3.2 tc_12_9_7c

Reason for Change: CellB was NOT configured and local tree `ilt_ActivateCellB` was trying to activate an unconfigured CellB.

Summary of change: Changed cell configuration `its_GMM_Config_CellA_CellDi` to `its_GMM_Config_CellA_CellB_CellDi`

Test Case	
Test Case Id:	tc_12_9_7c
Test Group Reference:	GMM/ServiceRequest_procedures/
Purpose:	To test the behaviour of the UE when the network rejects the service request procedure with cause 'Roaming not allowed in this location area'.
Configuration:	
Defaults:	NAS_OtherwiseFail
Comments:	...

Nr	Label	Behaviour Description	Constraint Ref	Verdict	Comments
1		START t_Guard (300)			
2		+ts_InitVariables			
3		...			
4		...			
5		+ ts_GMM_SetOpModeC_OrA			The UE is set in UE operation mode A if supported, otherwise it is set to UE operation mode C.
6		+ts_GMM_Config_CellA_CellD			Configure cell A and cell B
7		<u>+ts_GMM_Config_CellA_CellB_CellD</u>			<u>Configure cell A, cell B and cell D</u>
8		+ts_IdleUpdated (tsc_CellA)			
9		(tcv_CellInfoA.attFlag := tsc_AttOff, tcv_CellInfoA.t3212 := tsc_T3212_0)			@sic VB attFlag shall be set to Off in all cells sic@

3.3 lt_Attach_Steps_4To6

Reason for Change: As per TS 34123-1-580 step 4, Attach Type should be PS Attach.

Summary of change: Changed ic_GMM_AttachTypeCombinedCS_PSi to ic_GMM_AttachTypePS_Onlyi

lt_Attach_Steps_4To6			
27	+ts_RRC_ConnEst (tsc_CellA, est_Reg, registration)		
28	Dc ? RRC_DataInd (tcv_Start := RRC_DataInd.start)	car_PS_InitDirectTransfer(tsc_CellDedicated, tsc_RB3, cr_AttachReq (e_GMM_AttachTypeCombinedCS_PS, <u>c_GMM_AttachTypePS_Only,</u> c_MobileIdPTMSI_lv_Def, c_RAI_Def_v, tcv_PS_KeySeq))	ATTACH REQUEST (paramters assigned in Idle Updated procedure - Attach type isCombined-PS/ IMSI-attach' <u>is PS-ATTACH'</u> - MobileId P-TMSI 1 - RAI-1 - PTMSI-1 signature
29	+ ts_SS_SecurityDownloadStart (ps_domain, tcv_Start)		
30	+ ts_RRC_Security (tsc_CellA, tcv_PS_AuthCK, tcv_PS_AuthIK, tcv_AuthKcGSM, FALSE, ps_domain)		

3.4 lt_Attach_Steps_4To6

Reason for Change: As per TS 34123-1-580 step 5, Attach result should be PS only Attached.

Summary of change: Changed ic_GMM_AttachResultCombinedCS_PSi to ic_GMM_AttachResultPS_Onlyi

lt_Attach_Steps_4To6			
27	+ts_RRC_ConnEst (tsc_CellA, est_Reg, registration)		
28	...		
29	...		
30	...		
31	Dc ! RRC_DataReq	ca_PS_DataReq(tsc_CellDedicated, tsc_RB3, cs_AttachAcc(e_GMM_AttachResultCombinedCS_PS, <u>c_GMM_AttachResultPS_Only,</u> c_RAI_Def_v, -, -, -))	ATTACH ACCEPT - Attach result is Combined-PS/ IMSI-PS only attach' - RAI default (RAI-1)

3.5 lt_RejSteps_8To9

Reason for Change: As per TS 34123-1-580 step 7, UE initiates PS call.

Summary of change: Modified iRRC Connection Estf cause to est_MO and originationInteractiveCall.

lt_RejSteps_8To9			
43	+ts_RRC_ConnEst(tsc_CellA, est_Reg, ?)		
44	+ts_RRC_ConnEst(tsc_CellA, est_MO, originatingInteractiveCall)		+ts_RRC_ConnEst(tsc_CellA, est_Reg, ?)
45	Dc ? RRC_DataInd (tcv_Start := RRC_DataInd.start)	car_PS_InitDirectTransfer (tsc_CellDedicated, tsc_RB3, cr_ServiceRequest (c_ServiceTypeSignalling, c_MobileIdPTMSI_lv (tcv_AssignedPTMSI), tcv_PS_KeySeq))	Step 8. SERVICE REQUEST - Service type is 'Signalling' - Mobile Id is current P-TMSI
46	+ ts_SS_SecurityDownloadStart (ps_domain, tcv_Start)		

3.6 lt_Attach_Steps_14To16

Reason for Change: After sending RAU Accept, tcv_AssignedPTMSI, tcv_Assigned_PTMSI_Sig, and tcv_AssignedTMSI should be updated with newly assigned px_PTMSI_2, px_PTMSI_Sig2 and px_TMSI_2 respectively to handle Detach Req at step 18

Summary of change: Assigned px_PTMSI_2 to tcv_AssignedPTMSI, px_PTMSI_Sig2 to tcv_Assigned_PTMSI_Sig and px_TMSI_2 to tcv_AssignedTMSI as below.

lt_Attach_Steps_14To16				
33	+ts_RRC_ConnEst (tsc_CellD, est_Reg, registration)			
34	+ ts_MM_RegistrationRAU_IfOpModeA (tsc_CellD)			@sic VB Handling parallel cs registration and ps routing area update si
35	+ lt_HandleRAU_ReqStep14			
36	+ts_GMM_AuthenticateAndStartIntegrityProtection (tsc_CellD)			
37	Dc ! RRC_DataReq	ca_PS_DataReq(tsc_CellDedicated, tsc_RB3, es_RA_UpdAcc3 (e_GMM_UpdateResultRA_Updated, e_RAI_v(tcv_CellInfoD.mcc, tcv_CellInfoD.mnc, tcv_CellInfoD.lac, tcv_CellInfoD.rac), e_PTMSI_Signature (px_PTMSI_Sig2), e_MobileIdPTMSI (px_PTMSI_2), e_GMM_MobileIdTMSI (px_TMSI_2)))		Step 15. RA UPDATE ACC - Update result is 'RA Updated' - RAI corresponding to cell D - P-TMSI-2 - P-TMSI signature 2 - TMSI 2
37	<u>Dc ! RRC_DataReq (tcv_AssignedPTMSI := px_PTMSI_2, tcv_Assigned_PTMSI_Sig := px_PTMSI_Sig2, tcv_AssignedTMSI := px_TMSI_2)</u>	<u>ca_PS_DataReq(tsc_CellDedicated, tsc_RB3, cs_RA_UpdAcc3 (c_GMM_UpdateResultRA_Updated, c_RAI_v(tcv_CellInfoD.mcc, tcv_CellInfoD.mnc, tcv_CellInfoD.lac, tcv_CellInfoD.rac), c_PTMSI_Signature (px_PTMSI_Sig2), c_MobileIdPTMSI (px_PTMSI_2), c_GMM_MobileIdTMSI (px_TMSI_2)))</u>		<u>Step 15. RA UPDATE ACC - Update result is 'RA Updated' - RAI corresponding to cell D - P-TMSI-2 - P-TMSI signature 2 - TMSI 2</u>
38	Dc ? RRC_DataInd	car_PS_UplinkDirectTransfer (tsc_CellDedicated, tsc_RB3, cs_RA_UpdComplete)		Step 16. RA UPDATE COMPLETE

3.7 lt_RejSteps_8To9

Reason for Change: As per TS 34123-1-580 step 8 and step 9, SERVICE REJECT should be sent immediately after SERVICE REQUEST.

Summary of change: Removed `ts_RRC_Security` as below.

lt_RejSteps_8To9			
44	<code>+ts_RRC_ConnEst(tsc_CellA, est_MO, originatingInteractiveCall)</code>		<code>+ts_RRC_ConnEst(tsc_CellA, est_Reg, ?)</code>
45	<code>Dc ? RRC_DataInd (tcv_Start := RRC_DataInd.start)</code>	<code>car_PS_InitDirectTransfer (tsc_CellDedicated, tsc_RB3, cr_ServiceRequest (c_ServiceTypeSignalling, c_MobileIdPTMSI_lv (tcv_AssignedPTMSI), tcv_PS_KeySeq))</code>	Step 8. SERVICE REQUEST - Service type is 'Signalling' - Mobile Id is current P-TMSI
46	<code>+ ts_SS_SecurityDownloadStart (ps_domain, tcv_Start)</code>		
47	<code>[FALSE]</code>		
48	<code>-+ ts_RRC_Security (tsc_CellA, tcv_PS_AuthCK, tcv_PS_AuthIK, tcv_AuthKcGSM, FALSE, ps_domain)</code>		
49	<code>[TRUE]</code>		
50	<code>Dc ! RRC_DataReq</code>	<code>ca_PS_DataReq (tsc_CellDedicated, tsc_RB3, cs_ServiceReject ('0D'))</code>	Step 9. SERVICE REJECT - reject cause = 'Roaming not allowed in this location area' (TS 24.008 clause 10.5.5.14)
51	<code>+ts_RRC_ConnRel (tsc_CellA, cell_Dch)</code>		

3.8 ts_AT_OrgPS_Call

Reason for Change: AT cmd CNF was not handled in TTCN for the its_AT_OrgPS_Call. Because of which the last AT cmd cnf at step 7 i.e. AT+CGACT=1,1 was still in Ut queue. Which caused Step 17 MMI cmd to fail.

Summary of change: Added iUt ? AT_CmdCnf at line number 8 and 12 as below.

Test Step Id:	ts_AT_OrgPS_Call (p_CellId : INTEGER)				
Test Step Group Ref:	L3M_UT_Steps/				
Objective:	To originate a PDP Context from the UE.				
Defaults:	UT_OtherwiseFail				
Comments:					
<hr/>					
Nr	Label	Behaviour Description	Constraint Ref	Verdict	Comments
1		[pc_AT_SupportToInit_PS_Call = TRUE]			USE complete set of AT commands.
2		+ts_AT_SetQoS			@sic Tls-04XXXX-QOS min QOS Removed sic@
3		+ lt_AssignAT_Cmd			
4		Ut ! AT_CmdReq	ca_AT_CmdReq (tcv_AT_Cmd)		
5		Ut ? AT_CmdCnf	ca_AT_CmdCnf		
6		(tcv_AT_Cmd := "AT+CGACT=1,1<CR>")			ACTIVATE PDP CONTEXT message for MO
7		Ut ! AT_CmdReq	ca_AT_CmdReq (tcv_AT_Cmd)		
8		Ut ? AT_CmdCnf	ca_AT_CmdCnf		
9		[pc_AT_SupportToInit_PS_Call = FALSE]			USE only CGACT to initiate a call...
10		(tcv_AT_Cmd := "AT+CGACT=1,1<CR>")			ACTIVATE PDP CONTEXT message for MO
11		Ut ! AT_CmdReq	ca_AT_CmdReq (tcv_AT_Cmd)		

12		<u>Ut ? AT_CmdCnf</u>	<u>ca_AT_CmdCnf</u>		
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CR-Form-v7
CHANGE REQUEST
⌘ 34.123-3 CR 1078 ⌘ rev <input type="text"/> ⌘ Current version: <input type="text" value="3.7.0"/> ⌘

For **HELP** on using this form, see bottom of this page or look at the pop-up text over the ⌘ symbols.

Proposed change affects: UICC apps ME Radio Access Network Core Network

Title:	⌘ Addition of GCF P4 test case 8.2.2.31 to RRC ATS V3.7.0		
Source:	⌘ Anritsu Ltd		
Work item code:	⌘ N/A	Date:	⌘ 09/08/04
Category:	⌘ B	Release:	⌘ R99
	<i>Use <u>one</u> of the following categories:</i> F (correction) A (corresponds to a correction in an earlier release) B (addition of feature), C (functional modification of feature) D (editorial modification) Detailed explanations of the above categories can be found in 3GPP TR 21.900 .		<i>Use <u>one</u> of the following releases:</i> 2 (GSM Phase 2) R96 (Release 1996) R97 (Release 1997) R98 (Release 1998) R99 (Release 1999) Rel-4 (Release 4) Rel-5 (Release 5) Rel-6 (Release 6)

Reason for change:	⌘ Introduction of GCF P2 RRC 8.2.2.31
Summary of change:	⌘ 2 table modified in iWD-TVB2003-03_D04wk34
Consequences if not approved:	⌘ Test case will not be introduced.

Clauses affected:	⌘ N/A								
Other specs affected:	<table border="1" style="display: inline-table; border-collapse: collapse; text-align: center;"> <tr> <td style="width: 20px;">Y</td> <td style="width: 20px;">N</td> </tr> <tr> <td style="width: 20px;"><input type="checkbox"/></td> <td style="width: 20px;"><input checked="" type="checkbox"/></td> </tr> <tr> <td style="width: 20px;"><input type="checkbox"/></td> <td style="width: 20px;"><input checked="" type="checkbox"/></td> </tr> <tr> <td style="width: 20px;"><input type="checkbox"/></td> <td style="width: 20px;"><input checked="" type="checkbox"/></td> </tr> </table> Other core specifications ⌘ <input type="text"/> Test specifications ⌘ <input type="text"/> O&M Specifications ⌘ <input type="text"/>	Y	N	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Y	N								
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<input type="checkbox"/>	<input checked="" type="checkbox"/>								
Other comments:	⌘ <input type="text"/>								

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- 3) With "track changes" disabled, paste the entire CR form (use CTRL-A to select it) into the specification just in front of the clause containing the first piece of changed text. Delete those parts of the specification which are not relevant to the change request.

Title: Introduction of test case tc_8_2_2_31 required for approval
Source: Anritsu Ltd.
Agenda Item: TTCN Issues
Document for: Approval
Contact: Dan Fox (Anritsu) dan.fox@eu.anritsu.com
Tel: +44 1582 433357

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1 Overview

This document details the changes needed to introduce test case 8.2.2.31 to ATS 3.7.0. With these changes applied the test case can be demonstrated to run on at least one independent UE implementation. Only essential fixes to the TTCN are applied. This test case has been tested according to the configuration stated below:-

Reference document	TS 34.123-1 version 5.8.0 TS34.108 version 5.10.0
Referenced CRs	T1-040442
Based ATS suite	iWD-TVB2003-03_D04wk34
Integrity	Enabled
Ciphering	Disabled
Path tested	PS

2 New Tables Added

None

3 Tables Modified

3.1 tc_8_2_2_31

Reason for change

1. Preamble ñ (Line 7) No requirement in the prose for the UE to initiate PS MT call
2. Prior to Step 3 ñ (Line 21) Missing Cell F secondary scrambling code assignment and Cell F UL Frequency Assignment (i.e. inconsistent to the prose Specific Message Content)
3. After Step 3 ñ (Line 24) Missing delay to allow radioBearerReconfiguration PDU to be transmitted prior to cell_FACH to cell cell_DCH reconfiguration

Summary of Change

1. Changed preamble from pr_GotoState6_11_MT_NewSIB1 to pr_GotoState6_11_MO_NewSIB1 ñ (Line 7 & 8)
2. Added Missing Cell F secondary scrambling code assignment and Cell F UL Frequency Assignment as appropriate ñ (Line 21 & 22)
3. Added delay as required - (Line 24)

Test Case					
Test Case Id: tc_8_2_2_31					
Test Group Reference: RRC/RRC_RB_Reconfig/					
Purpose: 1. To confirm that the UE transits from CELL_FACH to CELL_DCH according to the RADIO BEARER RECONFIGURATION message. 2. To confirm that the UE transmits RADIO BEARER RECONFIGURATION COMPLETE message on the uplink DCH using AM RLC on a dedicated physical channel in a different frequency.					
Configuration:					
Defaults: RRC_Def1					
Comments: @SIC_NAPP					
Nr	Label	Behaviour Description	Constraint Ref	Verdict	Comments
1		START t_Guard			
2		{px_RAT=fdd}			FDD specific behaviour
3		+ts_RRC_InitVariablesPS (cell_FACH)			
4		+lt_SetPowerLevels			
5		(tcv_SIB1 := cb_SIB1_Def (tcv_CellInfoA))			@sic OG 19/05/04 T1-040941 sic@
6		(tcv_SIB1.ue_ConnTimersAndConstants.t_312 := 2)			@sic OG 19/05/04 T1-040941 sic@ T312 = 2s
7		+pr_GotoState6_11_MT_NewSIB1 (tsc_CellA, tcv_SIB1)			@sic OG 19/05/04 T1-040941 sic@
8		+pr_GotoState6_11_MO_NewSIB1 (tsc_CellA, tcv_SIB1)			@sic OG 19/05/04 T1-040941 sic@ +pr_GotoState6_11_MT_NewSIB1 (tsc_CellA, tcv_SIB1)
9		+ts_SS_CreateCellFACH (tsc_CellF)			
10		+ts_SetAttenuationLevel (tsc_CellF, tsc_AttenuationCelloFF)			At T0, CellF is Off @sic OG 25/05/04 T1-040940 sic@
11		(tcv_SIB1 := cb_SIB1_Def (@sic OG 19/05/04 T1-040941 sic@

12		(tcv_SIB1.ue_ConnTimersAndConstants.t_312 := 2)		@sic OG 19/05/04 T1-040941 sic@ T312 = 2s
13		+ts_SendDefSysInfo_NewSIB1 (tsc_CellF, tcv_SIB1)		@sic OG 19/05/04 T1-040941 sic@
14	TBS	(tcv_TestBody:=TRUE)		
15		+lt_TestBody		
16	TBE	(tcv_TestBody:=FALSE)		
17		+po_ConnectionAndSS_Rels		
18	ERR1	[px_RAT=tdd]		TDD specific behaviour
19	ERR2	[TRUE]	I	
lt_TestBody				
20		+ts_SetAttenuationLevel (tsc_CellF, tsc_AttLevToPower60_dBm)		Step 2 @sic OG 25/05/04 T1-040940 sic@
21		(tcv_CellInfoA.dl_DPCH_2ndScrCode := tsc_DL_DPCH_ScrC_2)		
22		(tcv_CellInfoA.dl_DPCH_2ndScrCode := tsc_DL_DPCH_ScrC_2, tcv_CellInfoF.dl_DPCH_2ndScrCode := tsc_DL_DPCH_ScrC_2, tcv_CellInfoF.frequencyInfo := c_FreqInfo (px_UARFCN_D_High - 950 , px_UARFCN_D_High))		(tcv_CellInfoA.dl_DPCH_2ndScrCode := tsc_DL_DPCH_ScrC_2)
23		AM ! RLC_AM_DATA_REQ	cas_RB_Reconfigure (tsc_CellDedicated, tsc_RB2, cbs_108_RB_ReconfigFACH_ToDCH (tcv_CellIndInfo.dl_IntegrityCheckInfo, tcv_RRC_Ti, tcv_CellInfoF.frequencyInfo, tcv_CellInfoF.priScrmCode, tcv_CellInfoF.ul_ScramblingCode))	Step 3
24		+ts_RRC_Delay (tsc_WaitBeforeFACH_Conf)		
25		--ts_HO_ReconfFACH_ToDCH (tsc_CellA, tsc_CellF)		
26		--ts_RRC_ReceiveRB_ReconfigCmpl (tsc_CellF)		Step 4
27		--ts_C3_CheckCellDCH (tsc_CellF)		Step 5
lt_SetPowerLevels				
28		(tcv_CellInfoA.attenuationLevel := tsc_AttLevToPower60_dBm, tcv_CellInfoF.attenuationLevel := tsc_AttLevToPower75_dBm		CellA: serving cell CellB: suitable neighbour cell @sic OG 25/05/04 T1-040940 sic@
Detailed Comment:				

3.2 ts_HO_SS_ReconfFACH_ToDCH

Reason for change

1. Missing Cell F gobal variable assignment in the [tcv_TmpCellInfo.cellConfig = cell_FACH_PS] branch

Summary of Change

1. Added test step ts_SetTmpCellInfo as appropriate ñ (Line 27)

Test Step	
Test Step Id:	ts_HO_SS_ReconfFACH_ToDCH (p_OldCellId, p_NewCellId : INTEGER)

Test Step Group Ref:	RRCM_HO_Steps/
Objective:	To switch cell from FACH to DCH state: 1> reconfigure CMAC in the old cell: CMAC-Reconf (old cell) 2> create DPCH in the new cell: CPHY-RL-Setup (new cell), CPHY-TrCh-Config (new cell), CMAC-Config (Cell-1)
Defaults:	SS_Def

Nr	Label	Behaviour Description	Constraint Ref	Verdict	Comments
1		+ ts_SetTmpCellInfo (p_OldCellId)			
2		[px_RAT = fdd]			
3		CMAC ! CMAC_Config_REQ	ca_CMAC_ReconfigInfoActNow (p_OldCellId , tsc_S_CCPCH1, c_UE_Info (OMIT, OMIT), c_TrChInfoPCH_FACH, c_TrLogMappingPCH_FACH_CellDCH)		map PCH to PCH + Map CCCH to FACH
4		CMAC ? CMAC_Config_CNF	ca_CMAC_CfgCnf (p_OldCellId , tsc_S_CCPCH1)		
5		CMAC ! CMAC_Config_REQ	ca_CMAC_ReconfigInfoActNow (p_OldCellId, tsc_PRACH1, c_UE_Info (OMIT, OMIT), cb_TrChInfoRACH1, cb_TrLogMappingRACH2)		mapping CCCH to FACH
6		CMAC ? CMAC_Config_CNF	ca_CMAC_CfgCnf (p_OldCellId, tsc_PRACH1)		
7		+ lt_ConfigNewcell_DPCH			
8	ERR1	[px_RAT = tdd]		I	
9	ERR2	[TRUE]		I	
lt_ConfigNewcell_DPCH					
10		[(tcv_TmpCellInfo.cellConfig = cell_FACH_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH)]			
11		+ ts_SetTmpCellInfo (p_NewCellId)			
12		[(tcv_TmpCellInfo.cellConfig = cell_FACH_NoDedicated) OR (tcv_TmpCellInfo.cellConfig = cell_NoDPCH)]			
13		CPHY!CPHY_RL_Setup_REQ	ca_DL_DPCH_Info (p_NewCellId, tsc_DL_DPCH1, cb_DL_DPCH_SRB_StandAloneDPCH_Offset (tcv_TmpCellInfo.dl_DPCH_2ndScrCode))		
14		CPHY?CPHY_RL_Setup_CNF	ca_RL_SetupCnf (p_NewCellId, tsc_DL_DPCH1)		
15		CPHY!CPHY_TrCh_Config_REQ	ca_DCH_148_TTI_10_DL_InfoActNow (p_NewCellId, tsc_DL_DPCH1)		
16		CPHY?CPHY_TrCh_Config_CNF	ca_TrChCfGcnf (p_NewCellId, tsc_DL_DPCH1)		
17		CMAC ! CMAC_Config_REQ	ca_CMAC_CfgInfo (tsc_CellDedicated, tsc_DL_DPCH1, c_UE_Info (OMIT, OMIT), c_TrChInfoDL_13_6_StandAlone, c_TrLogMappingDL_4DCCH)		
18		CMAC ? CMAC_Config_CNF	ca_CMAC_CfgCnf (tsc_CellDedicated, tsc_DL_DPCH1)		
19		CPHY!CPHY_RL_Setup_REQ	ca_UL_DPCH_Info (p_NewCellId, tsc_UL_DPCH1, c_UL_DPCH_13_6_StandAlone (tcv_TmpCellInfo.ul_ScramblingCode))		
20		CPHY?CPHY_RL_Setup_CNF	ca_RL_SetupCnf (p_NewCellId, tsc_UL_DPCH1)		
21		CPHY!CPHY_TrCh_Config_REQ	ca_DCH_148_TTI_10_UL_InfoActNow (p_NewCellId, tsc_UL_DPCH1)		
22		CPHY?CPHY_TrCh_Config_CNF	ca_TrChCfGcnf (p_NewCellId, tsc_UL_DPCH1)		
23		CMAC ! CMAC_Config_REQ	ca_CMAC_CfgInfo (tsc_CellDedicated, tsc_UL_DPCH1, c_UE_Info (OMIT, OMIT), c_TrChInfoUL_13_6_StandAlone, c_TrLogMappingUL_4DCCH)		
24		CMAC ? CMAC_Config_CNF	ca_CMAC_CfgCnf (tsc_CellDedicated, tsc_UL_DPCH1)		
25	ERR1	[TRUE]		I	
26		[tcv_TmpCellInfo.cellConfig = cell_FACH_PS]			
27		+ ts_SetTmpCellInfo (p_NewCellId)			
28		-CPHY!CPHY_RL_Setup_REQ	ca_DL_DPCH_Info (p_NewCellId, tsc_DL_DPCH1, cb_DL_DPCH_64k_PS_DPCH_Offset (c_DL_CommonInformationRB_SetUpDPCH_Offset (tsc_DL_DPCH1_SFP_64k_PS), tcv_TmpCellInfo.dl_DPCH_2ndScrCode))		
29		-CPHY?CPHY_RL_Setup_CNF	ca_RL_SetupCnf (p_NewCellId, tsc_DL_DPCH1)		
30		-CPHY!CPHY_TrCh_Config_REQ	ca_TrChCfGInfo (p_NewCellId, tsc_DL_DPCH1, c_TrChConfigTypeDCH_NoSHO, c_DCH_336_148_DL_InfoActNow)		
31		-CPHY?CPHY_TrCh_Config_CNF	ca_TrChCfGcnf (p_NewCellId, tsc_DL_DPCH1)		
32		-CMAC ! CMAC_Config_REQ	ca_CMAC_CfgInfo (tsc_CellDedicated, tsc_DL_DPCH1, c_UE_Info (OMIT, OMIT), c_TrChInfoDL_336_148, c_TrLogMappingDL_4DCCH_1DTCH_PS)		
33		-CMAC ? CMAC_Config_CNF	ca_CMAC_CfgCnf (tsc_CellDedicated, tsc_DL_DPCH1)		

34	-CPHY!CPHY_RL_Setup_REQ	ca_UL_DPCH_Info (p_NewCellId, tsc_UL_DPCH1, cb_UL_DPCH_Info (tsc_UL_DPCH_SF_64k_PS, p10_96, tcv_TmpCellInfo.uL_ScramblingCode))		
35	-CPHY?CPHY_RL_Setup_CNF	ca_RL_SetupCnf (p_NewCellId, tsc_UL_DPCH1)		
36	-CPHY!CPHY_TrCH_Config_REQ	ca_TrChCfgInfo (p_NewCellId, tsc_UL_DPCH1,c_TrChConfigTypeDCH_NoSHO, c_DCH_336_148_UL_InfoActNow)		
37	-CPHY?CPHY_TrCH_Config_CNF	ca_TrChCfgCnf (p_NewCellId, tsc_UL_DPCH1)		
38	-CMAC ! CMAC_Config_REQ	ca_CMAC_CfgInfo (tsc_CellDedicated, tsc_UL_DPCH1, c_UE_Info (OMIT, OMIT), c_TrChInfoUL_336_148, c_TrLogMappingUL_4DCCH_1DTCH_PS)		
39	-CMAC ? CMAC_Config_CNF	ca_CMAC_CfgCnf (tsc_CellDedicated, tsc_UL_DPCH1)		
Detailed Comment:				

CR-Form-v7	CHANGE REQUEST
# 34.123-3 CR 1079 # rev - # Current version: 3.7.0 #	

For **HELP** on using this form, see bottom of this page or look at the pop-up text over the # symbols.

Proposed change affects: UICC apps ME Radio Access Network Core Network

Title:	# Addition of RAB Package 4 test case 14.4.2a.3 to RAB ATS V3.7.0		
Source:	# Anite		
Work item code:	# N/A	Date:	# 27/09/04
Category:	# B	Release:	# R99
	Use <u>one</u> of the following categories: F (correction) A (corresponds to a correction in an earlier release) B (addition of feature), C (functional modification of feature) D (editorial modification) Detailed explanations of the above categories can be found in 3GPP TR 21.900 .		Use <u>one</u> of the following releases: 2 (GSM Phase 2) R96 (Release 1996) R97 (Release 1997) R98 (Release 1998) R99 (Release 1999) Rel-4 (Release 4) Rel-5 (Release 5) Rel-6 (Release 6)

Reason for change:	# To add verified GCF package 4 RAB test case 14.4.2a.3 to the approved RAB ATS V3.7.0
Summary of change:	# This document lists all changes applied to test case 14.4.2a.3 required for approval. See detailed change description for further information.
Consequences if not approved:	# Test case will not be added to ATS

Clauses affected:	#								
Other specs affected:	<table border="1" style="display: inline-table; border-collapse: collapse; text-align: center;"> <tr> <td style="padding: 2px 5px;">Y</td> <td style="padding: 2px 5px;">N</td> </tr> <tr> <td style="padding: 2px 5px;"><input type="checkbox"/></td> <td style="padding: 2px 5px;"><input checked="" type="checkbox"/></td> </tr> <tr> <td style="padding: 2px 5px;"><input type="checkbox"/></td> <td style="padding: 2px 5px;"><input checked="" type="checkbox"/></td> </tr> <tr> <td style="padding: 2px 5px;"><input type="checkbox"/></td> <td style="padding: 2px 5px;"><input checked="" type="checkbox"/></td> </tr> </table> Other core specifications # Test specifications # O&M Specifications #	Y	N	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Y	N								
<input type="checkbox"/>	<input checked="" type="checkbox"/>								
<input type="checkbox"/>	<input checked="" type="checkbox"/>								
<input type="checkbox"/>	<input checked="" type="checkbox"/>								
Other comments:	#								

How to create CRs using this form:

Comprehensive information and tips about how to create CRs can be found at <http://www.3gpp.org/specs/CR.htm>. Below is a brief summary:

- 1) Fill out the above form. The symbols above marked # contain pop-up help information about the field that they are closest to.
- 2) Obtain the latest version for the release of the specification to which the change is proposed. Use the MS Word "revision marks" feature (also known as "track changes") when making the changes. All 3GPP specifications can be downloaded from the 3GPP server under <ftp://ftp.3gpp.org/specs/> For the latest version, look for the directory name with the latest date e.g. 2001-03 contains the specifications resulting from the March 2001 TSG meetings.

- 3) With "track changes" disabled, paste the entire CR form (use CTRL-A to select it) into the specification just in front of the clause containing the first piece of changed text. Delete those parts of the specification which are not relevant to the change request.

Title: Changes to test case 14.4.2a.3 required for approval
Source: Anite
Agenda Item: TTCN Issues
Document for: Approval
Contact: Philip Rose
phil.rose @anite.com
Tel. +44 1252 775200

1 Overview

This document lists all the changes needed to correct problems in the TTCN implementation of test case 14.4.2a.3, which is part of the RAB test suite. Only essential changes to the TTCN are applied and documented in section 4.

With these changes applied the test case can be demonstrated to run with one or more 3G UEs (see section 6). Execution log files are provided as evidence.

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3 Verification Test Summary

Test Case: tc_14_4_2a_3
Test Group: RAB/CombinationsOnSCCPCH
ATS Version: iWD-TVB2003-03_D04wk37 + essential modifications
System Simulator used: Anite 3G U-SAT
UE used: Nokia 6630, Sony Ericsson Z1010
Verification Status: PASS

4 Corrections required for test case 14.4.2a.3

4.1 Introduction

This section describes the changes required to make test case 14.4.2a.3 run correctly with a 3G UE. The ATS version used as basis was RAB_wk37.mp, which is part of the iWD-TVB2003-03_D04wk37 release.

The enclosed MP file contains a number of additional changes in common test steps which are required for other test cases, but which are not applicable to test case 14.4.2a.3. (T1s040622, T1s040624)

4.2 Change 1

Test step name	tc_14_4_2a_3
Reason for change	<ol style="list-style-type: none">1. According to 3GPP TS 34.123-1 RAB created should be of Interactive or Background type. In the current TTCN implementation only Interactive type is created.2. Test Step ts_RB_InitTest_3SCCPCH_CTCH_2a always create Interactive type RAB.3. The CRNTI used in Radio Bearer Setup message sent from Test Step ts_SendRB_SetUp_FACH_2SCCPCH_32k is not as per 34.108 default content for Radio Bearer Setup Message.4. The TFC list (c_TFC_Allowed_0_3) used for DL SS restriction is wrong.5. In the TTCN, tcv_CN_Domain is assigned based on the PIXIT px_CN_DomainTested in the test step ts_AssignCN_Domain. As this test case configures PS RAB, tcv_CN_Domain should be assigned to ps_domain independent of PIXIT px_CN_DomainTested.
Summary of change	<ol style="list-style-type: none">1. Added local trees It_Interactive and It_Background to create Interactive and Background type RAB based on the pc_Interactive and pc_Background.2. Test step ts_RB_InitTest_3SCCPCH_CTCH_2a is parameterised to take PagingCause and EstablishmentCause as an input parameter in order to create Interactive and Background RAB. The correct parameters are passed from It_Interactive and It_Background.3. Updated the value of Cell CRNTI with tsc_New_CRNTI ('1010101010101010'B), which will be used while sending the Radio Bearer Setup message to the Mobile in localtree It_Interactive and It_Background.4. In It_Interactive added test steps ts_RRC_ConnRel and ts_GMM_DetachOnSwitchOff to handle Detach from the UE during power off after execution for Interactive RAB.5. Changed the TFC list to c_TFC_Allowed_0_1_3 to be used for DL SS restriction.6. At row 3 of the TTCN, instead of using test step ts_AssignCN_Domain, tcv_CN_Domain is assigned to ps_domain.
Source of change	New change

Before:

Nr	Lab...	Behaviour Description	Comments
1		START t_Guard(300)	
2		+ts_InitVariables	
3		+ts_AssignCN_Domain	Sets domain for testing
4		+ts_RB_InitTest_3SCCPCH_CTCH_2a	
5		+ts_SendRB_SetUp_FACH_3SCCPCH_32k_1_2a(tsc_CellA,tsc_RAB_DefPS,tsc_RAB2_DefPS,tcv_ActTime)	
6		+ts_SetCellCfg (tsc_CellA, cell_FACH_3_SCCPCH_3_FACH_2a_CTCH)	
7		+ts_RB_SubTest_RB20_FACH(tsc_RB_TestData_3024, c_TFC_Allowed_0_1, c_TFC_Allowed_0_3, c_UE_TestLoopMode1_LB_Setup (312, tsc_RB20), 312)	
8		+ts_RB_SubTest_RB24_FACH(tsc_RB_TestData_3024, c_TFC_Allowed_0_1, c_TFC_Allowed_0_3, c_UE_TestLoopMode1_LB_Setup (312, tsc_RB24), 312)	
9	TBE1	(tcv_TestBody := FALSE)	
10		+ts_TC_DeactivateRB_TestMode (tsc_CellA)	Steps 20-21
11		+po_ConnectionAndSS_Rel (tsc_CellA)	

After:

1		START t_Guard(300)	
2		+ts_InitVariables	
3		(tcv_CN_Domain := ps_domain)	Sets domain for testing
4		+lt_Interactive	
5		+lt_Background	
lt_Interactive			
6		[pc_Interactive]	
7		+ts_RB_InitTest_3SCCPCH_CTCH_2a(terminatingInteractiveCall, terminatingInteractiveCall)	
8		(tcv_TmpCellInfo.cRNTI := tsc_New_CRNTI2)	
9		+ts_SendRB_SetUp_FACH_3SCCPCH_32k_1_2a(tsc_CellA,tsc_RAB_DefPS,tsc_RAB2_DefPS,tcv_ActTime)	
10		+ts_SetCellCfg (tsc_CellA, cell_FACH_3_SCCPCH_3_FACH_2a_CTCH)	
11		+ts_RB_SubTest_RB20_FACH(tsc_RB_TestData_3024, c_TFC_Allowed_0_1, c_TFC_Allowed_0_1_3, c_UE_TestLoopMode1_LB_Setup (312, tsc_RB20), 312)	
12		+ts_RB_SubTest_RB24_FACH(tsc_RB_TestData_3024, c_TFC_Allowed_0_1, c_TFC_Allowed_0_1_3, c_UE_TestLoopMode1_LB_Setup (312, tsc_RB24), 312)	
13	TBE1	(tcv_TestBody := FALSE)	
14		+ts_TC_DeactivateRB_TestMode (tsc_CellA)	Steps 20-21
15		+ts_RRC_ConnRel (tsc_CellA , cell_Fach_Dcch)	
16		+ts_GMM_DetachOnSwitchOff(tsc_CellA)	
17		+po_ConnectionAndSS_Rel (tsc_CellA)	
18		[TRUE]	
lt_Background			
19		[pc_Background]	
20		+ts_RB_InitTest_3SCCPCH_CTCH_2a(terminatingBackgroundCall, terminatingBackgroundCall)	
21		(tcv_TmpCellInfo.cRNTI := tsc_New_CRNTI2)	
22		+ts_SendRB_SetUp_FACH_3SCCPCH_32k_1_2a(tsc_CellA,tsc_RAB_DefPS,tsc_RAB2_DefPS,tcv_ActTime)	
23		+ts_SetCellCfg (tsc_CellA, cell_FACH_3_SCCPCH_3_FACH_2a_CTCH)	
24		+ts_RB_SubTest_RB20_FACH(tsc_RB_TestData_3024, c_TFC_Allowed_0_1, c_TFC_Allowed_0_1_3, c_UE_TestLoopMode1_LB_Setup (312, tsc_RB20), 312)	
25		+ts_RB_SubTest_RB24_FACH(tsc_RB_TestData_3024, c_TFC_Allowed_0_1, c_TFC_Allowed_0_1_3, c_UE_TestLoopMode1_LB_Setup (312, tsc_RB24), 312)	
26	TBE1	(tcv_TestBody := FALSE)	
27		+ts_TC_DeactivateRB_TestMode (tsc_CellA)	Steps 20-21
28		+po_ConnectionAndSS_Rel (tsc_CellA)	
29		[TRUE]	

4.3 Change 2

Test step	ts_RB_InitTest_3SCCPCH_CTCH_2a
Reason for change	Test Step ts_RB_InitTest_3SCCPCH_CTCH_2a always create Interactive type RAB.
Summary of change	Test step ts_RB_InitTest_2SCCPCH is parameterised to take PagingCause and EstablishmentCause as an input parameter and the same is passed to test step ts_RRC_PagType1_P_TMSI_Cause and ts_RRC_ConnEst as input parameter at row 6 and 7 respectively
Source of change	New change

Before:

Test Step Id:	ts_RB_InitTest_3SCCPCH_CTCH_2a
Test Step Group Ref:	RB_Steps/Initialization/
Objective:	To setup the environment for PS test cases
Defaults:	RRC_Def1
Comments:	@SIC_NAPP

...	L...	Behaviour Description	Constraint Ref	...	Comments
1		+ts_SS_CreateCell3_SCCPCH_3_FACH_CTCH_2a (tsc_CellA)			Configuration has to be changed
2		+ ts_SetTmpCellInfo (tsc_CellA)			Fetch record corresponding to current cell
3		+ts_SendSysInfoWithSpecialSIB5_And6(tsc_CellA,cb_SIB5_Def_3SCCPCH_1(tcv_TmpCellInfo),cb_SIB6_Def_3SCCPCH(tcv_TmpCellInfo))			
4		+ ts_IdleUpdated (tsc_CellA)			
5	TBS	(tcv_TestBody:=TRUE)			
6		+ts_RRC_PagType1_P_TMSI_Cause (tsc_CellA, p_x_PTMSI_Def, terminatingInteractiveCall,tsc_RB_PCC H)			
7		+ ts_RRC_ConnEst (tsc_CellA, est_MT, terminatingInteractiveCall)			Steps 2-5
8		Dc?RRC_DataInd (tcv_Start := RRC_DataInd.start)	car_PS_InitDirectTransfer (tsc_CellDedicated, tsc_RB3, cr_ServiceRequest(c_ServiceType_v('010'B), c_MobileIdPTMSI_lv(tcv_AssignedPTMSI, ?))		Step 6
9		(tcv_CellIndInfo.start_PS := tcv_Start)			
10		+ts_SS_SecurityDownloadStart (ps_domain, tcv_Start)			
11		+ ts_RRC_Security (tsc_CellA, tcv_PS_AuthCK, tcv_PS_AuthIK, tcv_AuthKcGSM, FALSE, ps_domain)			SECURITY MODE COMMAND SECURITY MODE COMPLETE
12		+ ts_TC_ActivateRB_TestMode (tsc_CellDedicated)			Steps 7-8

After:

Test Step Id:	ts_RB_InitTest_3SCCPCH_CTCH_2a(p_PagCause: PagingCause; p_EstCause: EstablishmentCause)		
Test Step Group Ref:	RB_Steps/Initialization/		
Objective:	To setup the environment for PS test cases		
Defaults:	RRC_Def1		
Comments:	@SIC_NAPP		

...	L...	Behaviour Description	Constraint Ref	...	Comments
1		+ts_SS_CreateCell3_SCCPCH_3_FACH_CTCH_2a (tsc_CellA)			Configuration has to be changed
2		+ ts_SetTmpCellInfo (tsc_CellA)			Fetch record corresponding to current cell
3		+ts_SendSysInfoWithSpecialSIB5_And6(tsc_CellA,cb_SIB5_Def_3SCCPCH_1(tcv_TmpCellInfo),cb_SIB6_Def_3SCCPCH(tcv_TmpCellInfo))			
4		+ ts_IdleUpdated (tsc_CellA)			
5	TBS	(tcv_TestBody:=TRUE)			
6		+ts_RRC_PagType1_P_TMSI_Cause (tsc_CellA, p_x_PTMSI_Def, p_PagCause, tsc_RB_PCCH)			
7		+ ts_RRC_ConnEst (tsc_CellA, est_MT, p_EstCause)			Steps 2-5
8		Dc?RRC_DataInd (tcv_Start := RRC_DataInd.start)	car_PS_InitDirectTransfer (tsc_CellDedicated, tsc_RB3, cr_ServiceRequest(c_ServiceType_v('010'B), c_MobileIdPTMSI_liv(tcv_AssignedPTMSI), ?))		Step 6
9		(tcv_CellIndInfo.start_PS := tcv_Start)			
10		+ts_SS_SecurityDownloadStart (ps_domain, tcv_Start)			
11		+ ts_RRC_Security (tsc_CellA, tcv_PS_AuthCK, tcv_PS_AuthIK, tcv_AuthKcGSM, FALSE, ps_domain)			SECURITY MODE COMMAND SECURITY MODE COMPLETE
12		+ ts_TC_ActivateRB_TestMode (tsc_CellDedicated)			Steps 7-8

4.4 Change 3

Test step	ts_SS_CreateCell3_SCCPCH_3_FACH_CTCH_2a
Reason for change	<ol style="list-style-type: none"> At row 5 ts_SS_2FACH_CCCH_BCCH_DCCH_DTCH_SCCPCH3_Cfg_2a test step is sued to configure 3rd SCCPCH. As per 34.108 section 6.1.2 timing offset for 3 SCCPCH should be 90 and channelization code should be sf64:1. In the TTCN it is set as 0 and sf64:2. At row 8 ts_SS_RB_2ndPCCH_Cfg is used which configures tsc_RB_PCCH2 for PCCH.
Summary of change	<ol style="list-style-type: none"> Created a new test step ts_SS_2FACH_CCCH_BCCH_DCCH_DTCH_SCCPCH3_Cfg2_2a which is similar to ts_SS_2FACH_CCCH_BCCH_DCCH_DTCH_SCCPCH3_Cfg_2a except for the Channelization Code and timing offset of sf64:1 and 90. The new test step is required as ts_SS_2FACH_CCCH_BCCH_DCCH_DTCH_SCCPCH3_Cfg_2a is used for test case 14.4.2a.2. At row 8 instead of its_SS_RB_2ndPCCH_Cfgi call its_SS_RB_PCCH_Cfgi
Source of change	New change

Before:

4	+ts_SS_2FACH_CCCH_BCCH_CTCH_Cfg(p_CellId)			
5	+ts_SS_2FACH_CCCH_BCCH_DCCH_DTCH_SCCPCH3_Cfg_2a(p_CellId)			
6	+ts_SS_RACH_CCCH_DCCH_DTCH_Cfg_2a (p_CellId)			
7	+ts_SS_RB_BCCH_BCH_Cfg(p_CellId)			
8	+ts_SS_RB_2ndPCCH_Cfg(p_CellId)			
9	+ts_SS_RB0_Cfg(p_CellId)			

After:

4	+ts_SS_2FACH_CCCH_BCCH_CTCH_Cfg(p_CellId)		
5	+ts_SS_2FACH_CCCH_BCCH_DCCH_DTCH_SCCPCH3_Cfg2_2a(p_CellId)		
6	+ts_SS_RACH_CCCH_DCCH_DTCH_Cfg_2a(p_CellId)		
7	+ts_SS_RB_BCCH_BCH_Cfg(p_CellId)		
8	+ts_SS_RB_PCCH_Cfg(p_CellId)		
9	+ts_SS_RB0_Cfg(p_CellId)		

4.5 Change 4

Test step	ts_SS_2FACH_CCCH_BCCH_DCCH_DTCH_SCCPCH3_Cfg2_2a
Reason for change	At row 5 ts_SS_2FACH_CCCH_BCCH_DCCH_DTCH_SCCPCH3_Cfg_2a test step is sued to configure 3 rd SCCPCH. As per 34.108 section 6.1.2 timing offset for 3 SCCPCH should be 90 and channelization code should be sf64:1. In the TTCN it is set as 0 and sf64:2.
Summary of change	New test is added
Source of change	New change

Test Step Id:	ts_SS_2FACH_CCCH_BCCH_DCCH_DTCH_SCCPCH3_Cfg2_2a (p_CellId : INTEGER)
Test Step Group Ref:	RB_Steps/Initialization/
Objective:	To configure a secondary CCPCH (tsc_S_CCPCH3), then connect 2 FACH's to the secondary CCPCH. Finally to map CCCH,DCCH1,DCCH2,DCCH3,DCCH4, BCCH(for BCCH_FACH) to FACH1 and DTCH to FACH2.
Defaults:	SS_Def
Comments:	@SIC_NAPP one secondary CCPCH(tsc_S_CCPCH2) for FACH. CCCH,DCCH1, DCCH2,DCCH3,DCCH4,BCCH (for BCCH_FACH) mapping to FAC H1, and DTCH to FACH2.

Nr	Label	Behaviour Description	Constraint Ref	...	Comments
1		+ ts_SetTmpCellInfo (p_CellId)			
2		[px_RAT = fdd]			
3		CPHYICPHY_RL_Setup_REQ	ca_sCCPCH_Info (p_CellId, tsc_S_CCPCH3, tsc_S_CCPCH_2ndScrCode, tsc_S_CCPCH1_ChC, tcv_TmpCellInfo.slotFormatsCCPCH1, (tcv_TmpCellInfo.powersCCPCH1),90)		s-CCPCH1
4		CPHY?CPHY_RL_Setup_CNF	ca_RL_SetupCnf(p_CellId, tsc_S_CCPCH3)		
5		CPHYICPHY_TrCH_Config_REQ	ca_2_FACH_BCCH_DCCH_CCCH_DTCH_InfoAct Now (p_CellId, tsc_S_CCPCH3)		connect FACH3 and 4to s-CCPCH3
6		CPHY ? CPHY_TrCH_Config_CNF	ca_TrChCfgCnf (p_CellId, tsc_S_CCPCH3)		
7		CMAC ! CMAC_Config_REQ	ca_CMAC_CfgInfo (p_CellId, tsc_S_CCPCH3, c_UE_Info (tcv_TmpCellInfo.uRNTI, tcv_TmpCellInfo.cRNTI), c_TrChInfoFACH_BCCH_CCCH_DCCH_PS, c_TLogMappingFACH_BCCH_DCCH_CCCH_PS_2a)		map CCCH, BCCH, DTCH C-RNTI and U-RNTI are required.
8		CMAC ? CMAC_Config_CNF	ca_CMAC_CfgCnf(p_CellId, tsc_S_CCPCH3)		
9	ERR1	[px_RAT = tdd]			
10	ERR2	[TRUE]			

4.6 Change 5

Test step	ts_SendRB_SetUp_FACH_3SCCPCH_32k_1_2a
Reason for change	<ol style="list-style-type: none"> 1. Radio Bearer Setup message sent is not correct. 2. In the Radio Bearer Setup message new CRNTI value of '1010101010101010'B is sent. The same value needs to be updated in the SS.
Summary of change	<ol style="list-style-type: none"> 1. Created a new Constraint cbs_RB_SetUpFACH_PS_2SCCPCH_2a and the same is used at row 1. Please refer to attached Draft Prose CR for the same (T1-041512). 2. Added a delay of 50ms at row 2 between Sending of Radio Bearer Setup message and Configuration on new CRNTI on the SS send. 3. Created a new test step ts_CMAC_New_RNTI_Reconf_3SCCPCH_CTCH_2a and is called at row 4.
Source of change	New change

Before:

1		+ ts_SetTmpCellInfo (p_CellId)		
2		AM ! RLC_AM_DATA_REQ	<pre>cas_RB_SetUpAM_WithCnf(tsc_CellDedicated, tsc_RB2, OMIT, cs_RRC_RB_SetUp(tcv_CellIndInfo.dl_IntegrityCheckInfo, tcv_RRC_Ti, OMIT, cell_FACH, OMIT, cb_RAB_InfoListAM2_No_Pdcp_2a (c_ReEstTimerT315, p_RAB_Id, p_RAB_Id2), c_UL_CommTrChInfo_AM0To1(c_PowerOffsetInfoBelow64k) , c_UL_AddReconfTransChInfoListFACH_PS, c_DL_CommonTransChInfo_AM_0_4, c_DL_AddReconfTransChInfoListFACH_PS_2SCCPCH_Cnfg2, c_DL_InformationPerRL_FACH(tcv_TmpCellInfo.priScrmCode), OMIT, OMIT, OMIT)))</pre>	@sic RASH T1 s040438 sic@
3	TS P	+ ts_RRC_ReceiveRB_SetupCmpl (p_CellId , cell_FACH_3_SCCPCH_3_FACH_2a_CTCH)		cell_FACH_3_SCCPCH need to be used

After:

1		+ ts_SetTmpCellInfo (p_CellId)		
2		AM ! RLC_AM_DATA_REQ	<pre>cas_RB_SetUpAM (tsc_CellDedicated, tsc_RB2, cbs_RB_SetUpFACH_PS_2SCCPCH_2a (tcv_CellIndInfo.dl_IntegrityCheckInfo, tcv_RRC_Ti, p_RAB_Id, p_RAB_Id2, tcv_TmpCellInfo.cRNTI))</pre>	
3		+ ts_RRC_Delay (50)		
4		+ts_CMAC_New_RNTI_Reconf_3SCCPCH_CTCH_2a (FALSE, p_CellId, tcv_TmpCellInfo.uRNTI, tcv_TmpCellInfo.cRNTI)		
5	TSP	+ ts_RRC_ReceiveRB_SetupCmpl (p_CellId , cell_FACH_3_SCCPCH_3_FACH_2a_CTCH)		cell_FACH_3_SCCPCH need to be used

New Constraint:

ASN.1 PDU Constraint Declaration	
Constraint Name:	cbs_RB_SetUpFACH_PS_2SCCPCH_2a (p_IntegrityInfo : IntegrityCheckInfo;p_RRC_Ti : RRC_TransactionIdentifier; p_RAB_Id : BITSTRING;p_RAB_Id2 : BITSTRING; p_NewC_RNTI : C_RNTI)
Group:	
PDU Name:	DL_DCCH_Message
Derivation Path:	
Encoding Rule Name:	
Encoding Variation:	
Comments:	Defined in TS 34.123-1 annex A condition A.6

Constraint Value
<pre> { integrityCheckInfo p_IntegrityInfo, message radioBearerSetup: r3 : { radioBearerSetup_r3 { rrc_TransactionIdentifier p_RRC_Ti, integrityProtectionModelInfo OMIT, cipheringModelInfo OMIT, activationTime OMIT, new_U_RNTI OMIT, new_C_RNTI p_NewC_RNTI , rrc_StateIndicator cell_FACH, utran_DRX_CycleLengthCoeff OMIT, cn_InformationInfo OMIT, srb_InformationSetupList OMIT, rab_InformationSetupList cb_RAB_InfoListAM2_No_Pdcp_2a (c_ReEstTimerT315, p_RAB_Id,p_RAB_Id2), rb_InformationAffectedList OMIT , ul_CommonTransChInfo c_UL_CommTrChInfoDCH_PS_64k, ul_deletedTransChInfoList OMIT, ul_AddReconfTransChInfoList c_UL_AddReconfTransChInfoListDCH_PS_64k, modeSpecificTransChInfo fdd:{ cpch_SetID OMIT, addReconfTransChDRAC_Info OMIT }, dl_CommonTransChInfo c_DL_CommonTransChInfoDCH (c_TFCS_Cmpl0_1_2_3_4_5_6_7_8_9_Rx), dl_DeletedTransChInfoList OMIT, dl_AddReconfTransChInfoList c_DL_AddReconfTransChInfoListDCH_PS_64k, frequencyInfo OMIT, maxAllowedUL_TX_Power OMIT, ul_ChannelRequirement OMIT, modeSpecificPhysChInfo fdd:{ dl_PDSCH_Information OMIT }, dl_CommonInformation OMIT , dl_InformationPerRL_List OMIT }, v3a0NonCriticalExtensions { radioBearerSetup_v3a0Ext { new_DSCH_RNTI OMIT }, laterNonCriticalExtensions OMIT } } } </pre>

New TestStep:

Test Step Id:	ts_CMAC_New_RNTI_Reconf_3SCCPCH_CTCH_2a(p_urmti:BOOLEAN; p_CellId : INTEGER; p_U_RNTI : U_RNTI; p_C_RNTI : BITSTRING)
Test Step Group Ref:	RB_Steps/RB_Configuration/
Objective:	econfigure MAC when a new U_RNTI or C_RNTI is assigned to UE.
Defaults:	SS_Def
Comments:	U-RNTI and C-RNTI are not required on DPCH. U-RNTI and C-RNTI is necessary when DCCH/DTCH mapped on S-CCPCH. C-RNTI is necessary when DCCH/DTCH mapped on PRACH.

Nr	...	Behaviour Description	Constraint Ref	...	Comments
1		+ ts_SetTmpCellInfo (p_CellId)			
2		+ ts_CRLC_ReconfRLC_Size (p_urmti)			
3		+ It_CMAC_Reconf (p_urmti)			
It_CMAC_Reconf (p_urmti: BOOLEAN)					
4		[p_urmti]			
5		CMAC ! CMAC_Config_REQ	ca_CMAC_CfgInfo (p_CellId , tsc_S_CCPCH3 , c_UE_Info (tcv_TmpCellInfo.uRNTI , OMIT) , c_TrChInfoFACH_BCCH_CCCH_DCCH_PS , c_TrLogMappingFACH_BCCH_DCCH_CCCH_PS_2a)		map CCCH, BCCH, DTCH U-RNTI are required.
6		CMAC ? CMAC_Config_CNF	ca_CMAC_CfgCnf(p_CellId , tsc_S_CCPCH3)		
7		[NOT p_urmti]			
8		CMAC ! CMAC_Config_REQ	ca_CMAC_ReconfInfoActNow (p_CellId , tsc_PRACH1 , c_UE_Info (OMIT , p_C_RNTI) , cb_TrChInfoRACH1 , c_TrLogMappingRACH_2_DTCH)		SS has valid C-RNTI, U-RNTI is not valid Only C-RNTI is required on PRACH
9		CMAC ? CMAC_Config_CNF	ca_CMAC_CfgCnf (p_CellId , tsc_PRACH1)		
10		CMAC ! CMAC_Config_REQ	ca_CMAC_CfgInfo (p_CellId , tsc_S_CCPCH3 , c_UE_Info (OMIT , tcv_TmpCellInfo.cRNTI) , c_TrChInfoFACH_BCCH_CCCH_DCCH_PS , c_TrLogMappingFACH_BCCH_DCCH_CCCH_PS_2a)		map CCCH, BCCH, DTCH C-RNTI are required.
11		CMAC ? CMAC_Config_CNF	ca_CMAC_CfgCnf(p_CellId , tsc_S_CCPCH3)		

4.7 Change 6

Test step	cb_RAB_InfoListAM2_No_Pdcp_2a
Reason for change	<p>1) In the Radio Bearer Setup message UL and DL logicalChannelIdentityi is set to OMIT in rb_MappinInfo for each RB. This is wrong. As per 25.331 section 8.6.4.8 RB mapping info</p> <p>1> if, as a result of the message this IE is included in, several radio bearers can be mapped onto the same transport channel, and the IE "Logical Channel Identity" was not included in the RB mapping info of any of those radio bearers for a multiplexing option on that transport channel or the same "Logical Channel Identity" was used more than once in the RB mapping info of those radio bearers for the multiplexing options on that transport channel:</p> <p>2> set the variable INVALID_CONFIGURATION to TRUE.</p> <p>Thus UL and DL logicalChannelIdentityi needs to be set in rb_MappingInfo.</p> <p>2) In RLC Size list only rlc_SizeIndex2 should be given.</p>
Summary of change	<p>a. In the constraint changed UL and DL logicalChannelIdentityi to tsc_UL_DTCH1 and tsc_DL_DTCH1 for RB 20 respectively and to tsc_UL_DTCH4 and tsc_DL_DTCH4 for RB24 respectively.</p> <p>b. Removed rlc_SizeIndex1 from RLC size list.</p>
Source of change	New change

Before:


```

rb_InformationSetupList
{{ --RB_InformationSetupList
rb_Identity tsc_RB20,
pdcpcp_Info OMIT,
rlc_InfoChoice rlc_Info : c_RLC_InfoAM_Def,
rb_MappingInfo
{
  --RB_MappingOption
  ul_LogicalChannelMappings oneLogicalChannel:
  {
    ul_TransportChannelType dch: tsc_UL_DCH1,
    logicalChannelIdentity OMIT,
    rlc_SizeList configured :NULL,
    mac_LogicalChannelPriority 8
  },
  dl_LogicalChannelMappingList
  {{
    dl_TransportChannelType dch: tsc_DL_DCH1,
    logicalChannelIdentity OMIT
  }}
},
  --RB_MappingInfo
  ul_LogicalChannelMappings oneLogicalChannel:
  { --UL_LogicalChannelMapping,
    ul_TransportChannelType rach: NULL,
    logicalChannelIdentity tsc_UL_DTCH1,
    rlc_SizeList explicitList : {{ rlc_SizeIndex 1 }, { rlc_SizeIndex 2 } },
    mac_LogicalChannelPriority 8
  },
}
}

```

```

-----
{{ --RB_InformationSetupList
rb_Identity tsc_RB24,
pdcpcp_Info OMIT,
rlc_InfoChoice rlc_Info : c_RLC_InfoAM_Def,
rb_MappingInfo
{
  --RB_MappingOption
  ul_LogicalChannelMappings oneLogicalChannel:
  {
    ul_TransportChannelType dch: tsc_UL_DCH1,
    logicalChannelIdentity OMIT,
    rlc_SizeList configured :NULL,
    mac_LogicalChannelPriority 8
  },
  dl_LogicalChannelMappingList
  {{
    dl_TransportChannelType dch: tsc_DL_DCH1,
    logicalChannelIdentity OMIT
  }}
},
  --RB_MappingInfo
  ul_LogicalChannelMappings oneLogicalChannel:
  { --UL_LogicalChannelMapping,
    ul_TransportChannelType rach: NULL,
    logicalChannelIdentity tsc_UL_DTCH4,
    rlc_SizeList explicitList : {{ rlc_SizeIndex 1 }, { rlc_SizeIndex 2 } },
    mac_LogicalChannelPriority 8
  },
}
}

```

After:

```

rb_InformationSetupList
{{ --RB_InformationSetupList
rb_Identity tsc_RB20,
pdcp_Info OMIT,
rlc_InfoChoice rlc_Info : c_RLC_InfoAM_Def,
rb_MappingInfo
{
  --RB_MappingOption
  ul_LogicalChannelMappings oneLogicalChannel:
  {
    ul_TransportChannelType dch: tsc_UL_DCH1,
    logicalChannelIdentity tsc_UL_DTCH1,
    rlc_SizeList configured : NULL,
    mac_LogicalChannelPriority 8
  },
  dl_LogicalChannelMappingList
  {{
    dl_TransportChannelType dch: tsc_DL_DCH1,
    logicalChannelIdentity tsc_DL_DTCH1
  }}
},
  --RB_MappingInfo
  ul_LogicalChannelMappings oneLogicalChannel:
  { --UL_LogicalChannelMapping,
    ul_TransportChannelType rach: NULL,
    logicalChannelIdentity tsc_UL_DTCH1,
    rlc_SizeList explicitList : { { rlc_SizeIndex 2 } },
    mac_LogicalChannelPriority 8
  },
}
}

```

```

{{ --RB_InformationSetupList
rb_Identity tsc_RB24,
pdcp_Info OMIT,
rlc_InfoChoice rlc_Info : c_RLC_InfoAM_Def,
rb_MappingInfo
{
  --RB_MappingOption
  ul_LogicalChannelMappings oneLogicalChannel:
  {
    ul_TransportChannelType dch: tsc_UL_DCH1,
    logicalChannelIdentity tsc_UL_DTCH4,
    rlc_SizeList configured : NULL,
    mac_LogicalChannelPriority 8
  },
  dl_LogicalChannelMappingList
  {{
    dl_TransportChannelType dch: tsc_DL_DCH1,
    logicalChannelIdentity tsc_DL_DTCH4
  }}
},
  --RB_MappingInfo
  ul_LogicalChannelMappings oneLogicalChannel:
  { --UL_LogicalChannelMapping,
    ul_TransportChannelType rach: NULL,
    logicalChannelIdentity tsc_UL_DTCH4,
    rlc_SizeList explicitList : { { rlc_SizeIndex 2 } },
    mac_LogicalChannelPriority 8
  },
}
}

```

4.8 Change 7

Test step	ts_RB_SubTest_RB24_FACH
Reason for change	In this test step instead of <code>itsc_CellA</code> , <code>itsc_CellDedicated</code> needs to be used.
Summary of change	At row 1,2,4,5,6,9 replaced <code>itsc_CellA</code> with <code>itsc_CellDedicated</code> .
Source of change	New change

Before:

1	AM ! RLC_AM_DATA_REQ	cas_TranportFormatCombCtrlAM (tsc_CellA, tsc_RB2, cbs_TransportFormatCombCtrl (tcv_CellIndInfo.d IntegrityCheckInfo, tcv_RRC_TI, p_TFC_UL))	Step 11
2	+ ts_TC_CloseUE_TestLoop (tsc_CellA) tsc_UE_TestLoopMode1, p_TestLoopModeSetup)		Steps 12-13
3	(tcv_RB_Data1 := o_GetMostSignificantBits (p_Data , p_DataLength))		
4	+ts_SS_TFC_Restriction_FACH (tsc_CellA, p_TFC_UL , p_TFC_DL)		
5	AM ! RLC_AM_TestDataReq START t_Dly	cas_RLC_AM_DataReq (tsc_CellA, tsc_RB24, c_TrD_Data(tcv_RB_Data1))	Step 14
6	AM ? RLC_AM_TestDataInd CANCEL t_Dly	car_RLC_AM_DataInd (tsc_CellA, tsc_RB24, c_TrD_Data(tcv_RB_Data1))	Step 15
7	+ ts_TC_OpenUE_TestLoop(tsc_CellDedicated)		Step 16-17
8	?TIMEOUT t_Dly		(F)
9	+ ts_TC_OpenUE_TestLoop(tsc_CellA)		Step 16-17

After:

1	AM ! RLC_AM_DATA_REQ	cas_TranportFormatCombCtrlAM (tsc_CellDedicated, tsc_RB2, cbs_TransportFormatCombCtrl (tcv_CellIndInfo.d IntegrityCheckInfo, tcv_RRC_TI, p_TFC_UL))	Step 11
2	+ ts_TC_CloseUE_TestLoop (tsc_CellDedicated, tsc_UE_TestLoopMode1, p_TestLoopModeSetup)		Steps 12-13
3	(tcv_RB_Data1 := o_GetMostSignificantBits (p_Data , p_DataLength))		
4	+ts_SS_TFC_Restriction_FACH (tsc_CellDedicated, p_TFC_UL, p_TFC_DL)		
5	AM ! RLC_AM_TestDataReq START t_Dly	cas_RLC_AM_DataReq (tsc_CellDedicated, tsc_RB24, c_TrD_Data(tcv_RB_Data1))	Step 14
6	AM ? RLC_AM_TestDataInd CANCEL t_Dly	car_RLC_AM_DataInd (tsc_CellDedicated, tsc_RB24, c_TrD_Data(tcv_RB_Data1))	Step 15
7	+ ts_TC_OpenUE_TestLoop(tsc_CellDedicated)		Step 16-17
8	?TIMEOUT t_Dly		(F)
9	+ ts_TC_OpenUE_TestLoop(tsc_CellDedicated)		Step 16-17

4.9 Change 8

Test step	ts_RRC_ConnEst
Reason for change	Need to handle cell RB Config type cell_FACH_3_SCCPCH_3_FACH_2a_CTCH_NoConn in this test step at row 10 and 16
Summary of change	<ol style="list-style-type: none"> Added RB Config type cell_FACH_3_SCCPCH_3_FACH_2a_CTCH_NoConn at row 10. Changed Cell state to cell_FACH_3_SCCPCH_3_FACH_2a_CTCH at row 16.
Source of change	New change

Before:

10	[(tcv_TmpCellInfo.cellConfig = cell_FACH_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_BMC_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_2_P RACH_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_2_SCCPCH_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_2SCCPCH_StandAlonePCH_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_MAC_SRB_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_4_FACH_Cnfg1_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_4_FACH_Cnfg2_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_3_FACH_CTCH_NoConn)]			
11	UMIRLC_UM_DATA_REQ	cas_RRC_ConnSetup(p_CellId, tsc_RB0, cbs_108_RRC_ConnSetupFACH (tcv_InitialUE_Id, tcv_RRC_Ti, tcv_TmpCellInfo.priScrmCode , tcv_TmpCellInfo.uRNTI , tcv_TmpCellInfo.cRNTI, tcv_TmpCellInfo.uL_ScramblingCode))		
12	[tcv_TmpCellInfo.cellConfig = cell_FACH_NoConn]			
13	+ ts_SetCellCfg (p_CellId, cell_FACH)			1.

After:

It_Send_ConnSetup				
10	[(tcv_TmpCellInfo.cellConfig = cell_FACH_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_BMC_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_2_P RACH_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_2_SCCPCH_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_2SCCPCH_StandAlonePCH_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_MAC_SRB_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_4_FACH_Cnfg1_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_4_FACH_Cnfg2_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_3_FACH_CTCH_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_2SCCPCH_StandAlonePCH_2a_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_3_FACH_2a_CTCH_NoConn))			
11	UMIRLC_UM_DATA_REQ	cas_RRC_ConnSetup(p_CellId, tsc_RB0, cbs_108_RRC_ConnSetupFACH (tcv_InitialUE_Id, tcv_RRC_Ti, tcv_TmpCellInfo.priScrmCode , tcv_TmpCellInfo.uRNTI , tcv_TmpCellInfo.cRNTI, tcv_TmpCellInfo.uL_ScramblingCode))		
12	[tcv_TmpCellInfo.cellConfig = cell_FACH_NoConn]			
13	+ ts_SetCellCfg (p_CellId, cell_FACH)			1.
14	[tcv_TmpCellInfo.cellConfig = cell_FACH_2SCCPCH_StandAlonePCH_2a_NoConn]			
15	+ ts_SetCellCfg (p_CellId, cell_FACH_2SCCPCH_StandAlonePCH_2a)			
16	[tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_3_FACH_2a_CTCH_NoConn]			
17	+ ts_SetCellCfg (p_CellId, cell_FACH_3_SCCPCH_3_FACH_2a_CTCH)			

4.10 Change 9

Test step	ts_SS_DownloadSecurityKey
Reason for change	At row 3 and 12 check for tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_3_FACH_2a_CTCH needs to be added.
Summary of change	At row 3 and 12 added a check for tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_3_FACH_2a_CTCH.
Source of change	New change

After:

1	+ ts_SetTmpCellInfo (p_CellId)		
2	[px_CipheringOnOff]		
3	[(tcv_TmpCellInfo.cellConfig = cell_FACH_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_NoDedicated) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_PS) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_BMC) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_BMC_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_2_PRACH_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_2_PRACH) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_2_SCCPCH_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_2_SCCPCH) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_2_SCCPCH_StandAlonePCH_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_2_SCCPCH_StandAlonePCH_2a) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_2_SCCPCH_StandAlonePCH) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_2_SCCPCH_StandAlonePCH_PS) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_4_FACH_Cnfg1_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_4_FACH_Cnfg2_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_3_FACH_CTCH_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_4_FACH_Cnfg1) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_4_FACH_Cnfg2) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_3_FACH_CTCH) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_3_FACH_2a_CTCH)]	Cell FACH	
4	+ It_DownloadKeyCRLC (tcv_HFN, p_KC, p_IK)		

11	[NOT px_CipheringOnOff]		
12	[(tcv_TmpCellInfo.cellConfig = cell_FACH_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_NoDedicated) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_PS) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_BMC) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_BMC_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_2_PRACH_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_2_PRACH) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_2_SCCPCH_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_2_SCCPCH) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_2_SCCPCH_StandAlonePCH_NoConn) OR (tcv _TmpCellInfo.cellConfig = cell_FACH_2_SCCPCH_StandAlonePCH_2a) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_2_SCCPCH_StandAlonePCH) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_2_SCCPCH_StandAlonePCH_PS) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_4_FACH_Cnfg1_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_4_FACH_Cnfg2_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_3_FACH_CTCH_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_4_FACH_Cnfg1) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_4_FACH_Cnfg2) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_3_FACH_CTCH) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_3_FACH_2a_CTCH)]	Cell FACH @sic ER1926 sic@	
13	+ It_DownloadKeyCRLC (tcv_HFN, OMIT, p_IK)		

4.11 Change 10

Test case Variable	ts_RRC_ReceiveConnSetupCmpl
Reason for change	At row 7 check for tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_3_FACH_2a_CTCH is missing
Summary of change	At row 7 added a check for tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_3_FACH_2a_CTCH.
Source of change	New change

After:

7	<pre> [(tcv_TmpCellInfo.cellConfig = cell_FACH_NoConn) OR (tcw_TmpCellInfo.cellConfig = cell_FACH) OR (tcw_TmpCellInfo.cellConfig = cell_FACH_BMC_NoConn) OR (tcw_TmpCellInfo.cellConfig = cell_FACH_BMC) OR (tcw_TmpCellInfo.cellConfig = cell_FACH_2_PRACH_NoConn) OR (tcw_TmpCellInfo.cellConfig = cell_FACH_2_PRACH) OR (tcw_TmpCellInfo.cellConfig = cell_FACH_2_SCCPCH_NoConn) OR (tcw_TmpCellInfo.cellConfig = cell_FACH_2_SCCPCH) OR (tcw_TmpCellInfo.cellConfig = cell_FACH_MAC_SRB_NoConn) OR (tcw_TmpCellInfo.cellConfig = cell_FACH_MAC_SRB) OR (tcw_TmpCellInfo.cellConfig = cell_FACH_MAC_SRB0_NoConn) OR (tcw_TmpCellInfo.cellConfig = cell_FACH_MAC_SRB0) OR (tcw_TmpCellInfo.cellConfig = cell_FACH_2SCCPCH_StandAlonePCH_NoC onn) OR (tcw_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_4_FACH_Cnfg1_NoC onn) OR (tcw_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_4_FACH_Cnfg1) OR (tcw_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_4_FACH_Cnfg2_NoC onn) OR (tcw_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_4_FACH_Cnfg2)OR (tcw_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_3_FACH_CTCH_NoC onn) OR (tcw_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_3_FACH_CTCH)OR (tcw_TmpCellInfo.cellConfig = cell_FACH_2SCCPCH_StandAlonePCH_NoC onn) OR (tcw_TmpCellInfo.cellConfig = cell_FACH_2SCCPCH_StandAlonePCH) OR (tcw_TmpCellInfo.cellConfig = cell_FACH_2SCCPCH_StandAlonePCH_2a) OR (tcw_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_3_FACH_2a_CTCH)] </pre>		@sic Draft 14.4.2.1 sic@
8	START t_WaitMS		

4.12 Change 11

Test case Variable	ts_SS_PrepareCellRRC_ConnEst
Reason for change	At row 2 check for tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_3_FACH_2a_CTCH_NoConn is missing
Summary of change	At row 2 added a check for tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_3_FACH_2a_CTCH_NOConn.
Source of change	New change

After:

1	+ ts_SetTmpCellInfo (p_CellId)		
2	<pre> [(tcv_TmpCellInfo.cellConfig = cell_DCH_StandAloneSRB_NoConn) OR (tcw_TmpCellInfo.cellConfig = cell_FACH_NoConn) OR (tcw_TmpCellInfo.cellConfig = cell_FACH_BMC_NoConn) OR (tcw_TmpCellInfo.cellConfig = cell_FACH_2_PRACH_NoConn) OR (tcw_TmpCellInfo.cellConfig = cell_FACH_2_SCCPCH_NoConn) OR (tcw_TmpCellInfo.cellConfig = cell_FACH_2SCCPCH_StandAlonePCH_NoConn) OR (tcw_TmpCellInfo.cellConfig = cell_FACH_2SCCPCH_StandAlonePCH_2a_NoConn) O R (tcw_TmpCellInfo.cellConfig = cell_FACH_MAC_SRB_NoConn) OR (tcw_TmpCellInfo.cellConfig = cell_DCH_MAC_SRB_NoConn) OR (tcw_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_4_FACH_Cnfg1_NoConn) OR (tcw_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_4_FACH_Cnfg2_NoConn) OR (tcw_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_3_FACH_CTCH_NoConn) OR (tcw_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_3_FACH_2a_CTCH_NoConn)] </pre>		0
3	[tcv_TmpCellInfo.cellConfig = cell_NoDPCH]		1

4.13 Change 12

Test case Variable	ts_GMM_IdleUpdated
Reason for change	At row 117 check for tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_3_FACH_2a_CTCH is missing
Summary of change	At row 117 added a check for tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_3_FACH_2a_CTCH.
Source of change	New change

After:

It_RRC_ConnRel				
117	[(tcv_TmpCellInfo.cellConfig = cell_FACH) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_2SCCPCH_StandAlonePCH) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_2SCCPCH_StandAlonePCH_2a) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_2_PRACH) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_2_SCCPCH)OR (tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_4_FACH_Cnfg1) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_4_FACH_Cnfg2)OR (tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_3_FACH_CTCH) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_3_FACH_2a_CTCH)]			
118	+ ts_RRC_ConnRel (p_CellId, cell_Fach_Dcch)			

4.14 Change 13

Test step	po_ConnectionAndSS_Rel
Reason for change	At row 6 check for tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_3_FACH_2a_CTCH_NoConn and at row 8 check for tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_3_FACH_2a_CTCH needs to be added.
Summary of change	At row 6 check for tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_3_FACH_2a_CTCH_NoConn and at row 8 check for tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_3_FACH_2a_CTCH is added.
Source of change	New change

After:

It_Send_RRC_ConnectionRelease			
6	<pre> ((tcv_TmpCellInfo.cellConfig = cell_DCH_StandAloneSRB_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_BMC_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_NoDPCH) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_NoDedicated) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_2_PRACH_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_2_SCCPCH_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_2_SCCPCH_StandAlonePCH_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_2_SCCPCH_StandAlonePCH_2a_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_MAC_SRB_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_DCH_MAC_SRB_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_MAC_SRB0_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_4_FACH_Cnfg1_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_4_FACH_Cnfg2_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_3_FACH_CTCH_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_3_FACH_2a_CTCH_NoConn)) </pre>		3.
7	[TRUE]		4.
8	<pre> ((tcv_TmpCellInfo.cellConfig = cell_FACH) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_PS) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_BMC) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_2_PRACH) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_2_SCCPCH) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_MAC_SRB) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_MAC_SRB0) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_2_SCCPCH_StandAlonePCH) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_2_SCCPCH_StandAlonePCH_2a) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_2_SCCPCH_StandAlonePCH_PS_2a) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_2_SCCPCH_StandAlonePCH_PS) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_4_FACH_Cnfg1) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_4_FACH_Cnfg2) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_3_FACH_CTCH) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_3_FACH_2a_CTCH)) </pre>		1.@sic Draft 1 4.4.2.1 sic@
9	UMIRLC_UM_DATA_REQ	cas_RRC_ConnRelDCCH (tsc_Cell Dedicated, tsc_RB1, cs_108_RRC_	

4.15 Change 14

Test step	ts_RRC_ConnRel
Reason for change	At row 36 check for tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_3_FACH_2a_CTCH needs to be added.
Summary of change	At row 36 check for tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_3_FACH_2a_CTCH is added.
Source of change	New change

After:

33	[tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_3_FACH_CTCH]			
34	+ ts_CRLC_RelReconfSRB (p_CellId)			
35	+ ts_SetCellCfg (p_CellId, cell_FACH_3_SCCPCH_3_FACH_CTCH_NoConn)			
36	(tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_3_FACH_2a_CTCH]			
37	+ ts_CRLC_RelReconfSRB (p_CellId)			
38	+ ts_SetCellCfg (p_CellId, cell_FACH_3_SCCPCH_3_FACH_2a_CTCH_NoConn)			

4.16 Change 15

Test step	ts_RRC_ConnRel_AfterSwitchOff
Reason for change	At row 36 check for tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_3_FACH_2a_CTCH needs to be added.
Summary of change	At row 36 check for tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_3_FACH_2a_CTCH is added.
Source of change	New change

After:

33	[tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_3_FACH_CTCH]		
34	+ ts_CRlc_RelReconfSRB (p_CellId)		
35	+ ts_SetCellCfg (p_CellId, cell_FACH_3_SCCPCH_3_FACH_CTCH_NoConn)		
36	[tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_3_FACH_2a_CTCH]		
37	+ ts_CRlc_RelReconfSRB (p_CellId)		
38	+ ts_SetCellCfg (p_CellId, cell_FACH_3_SCCPCH_3_FACH_2a_CTCH_NoConn)		

4.17 Change 16

Test step	ts_SS_TFC_Restriction_FACH
Reason for change	At row 1 check for tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_3_FACH_2a_CTCH needs to be added.
Summary of change	At row 1 check for tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_3_FACH_2a_CTCH is added.
Source of change	New change

After:

1	[(tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_4_FACH_Cnfg1) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_3_FACH_CTCH) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_3_FACH_2a_CTCH)]		
2	CMAC ! CMAC_Restriction_REQ	ca_CMARestrictReq(p_cellId,tsc_S_CCPCH3, c_TFC_Restriction_DL(p_TFC_DL))	
3	CMAC ? CMAC_Restriction_CNF	ca_CMARestrictCnf(p_cellId,tsc_S_CCPCH3)	

4.18 Change 17

Test step	ts_CRlc_GetRLC_SeqNumSecurity
Reason for change	At row 10 check for tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_3_FACH_2a_CTCH needs to be added.
Summary of change	At row 10 check for tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_3_FACH_2a_CTCH is added.
Source of change	New change

After:

9	CRlc ? CRlc_SequenceNumber_CNF (tcv_RLC_SeqNumDL_RB4 := CRlc_SequenceNumber_CNF.count_C_LSB_DL)	car_GetRLC_SeqNum (tsc_CellDedicated, tsc_RB4)	
10	[(((tcv_TmpCellInfo.cellConfig = cell_DCH_64KPS_RAB_SRB) OR (tcv_TmpCellInfo.cellConfig = cell_PDCP_AM_RAB) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_PS) OR ((tcv_TmpCellInfo.cellConfig = cell_Two_DTCH_CS_PS) OR (tcv_TmpCellInfo.cellConfig = cell_Four_DTCH_CS_PS)) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_2SCCPCH_StandAlonePCH_PS) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_4_FACH_Cnfg1) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_4_FACH_Cnfg2) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_3_FACH_CTCH) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_2SCCPCH_StandAlonePCH_2a) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_3_FACH_2a_CTCH))) AND (tcv_CellInfo.recentSecureDomain = ps_domain)]		
11	CRlc ! CRlc_SequenceNumber_REQ	cas_GetRLC_SeqNum (tsc_CellDedicated, tsc_RB20)	
12	CRlc ? CRlc_SequenceNumber_CNF (tcv_RLC_SeqNumDL_RB20 := CRlc_SequenceNumber_CNF.count_C_LSB_DL)	car_GetRLC_SeqNum (tsc_CellDedicated, tsc_RB20)	

4.19 Change 18

Test step	ts_CRlc_DL_CipherCfgRB
Reason for change	At row 11 check for p_RbType = cell_FACH_3_SCCPCH_3_FACH_2a_CTCH needs to be added.
Summary of change	At row 11 check for p_RbType = cell_FACH_3_SCCPCH_3_FACH_2a_CTCH is added.

Source of change	New change
------------------	------------

After:

11	[(p_RbType = cell_FACH_3_SCCPCH_3_FACH_2a_CTCH) OR (p_RbType = cell_FACH_3_SCCPCH_4_FACH_2a_Cnfg1) OR (p_RbType = cell_FACH_2SCCPCH_StandAlonePCH_PS_2a) OR (p_RbType = cell_FACH_3_SCCPCH_3_FACH_2a_CTCH)]	@sic New RAB complete addition sic@
12	+ It_RLC_Activate (tsc_RB20, tcv_RLC_SeqNumDL_RB20)	
13	+ It_RLC_Activate (tsc_RB24, tcv_RLC_SeqNumDL_RB24)	

4.20 Change 19

Test Step	ts_SS_Rel
Reason for change	At row 312 and 313 cell ID used should be ip_CellId instead of itsc_CellDedicated.
Summary of change	At row 312 and 313 replaced itsc_CellDedicated with ip_CellId.
Source of change	New change

Before:

308	[(tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_3_FACH_2a_CTCH_NoCon n) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_3_FACH_2a_CTCH)]	@sic New RAB complete addition sic@
309	+ It_RelSRB1_4	
310	+ ts_CRLC_Rel (tsc_CellDedicated, tsc_RB20)	
311	+ ts_CRLC_Rel (tsc_CellDedicated, tsc_RB24)	
312	+ ts_CRLC_Rel (tsc_CellDedicated, tsc_RB30)	
313	+ ts_CRLC_Rel (tsc_CellDedicated, tsc_RB29)	
314	+ ts_CRLC_Rel (p_CellId, tsc_RB_BCCH_FACH)	

After:

308	[(tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_3_FACH_2a_CTCH_NoCon n) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_3_FACH_2a_CTCH)]	@sic New RAB complete addition sic@
309	+ It_RelSRB1_4	
310	+ ts_CRLC_Rel (tsc_CellDedicated, tsc_RB20)	
311	+ ts_CRLC_Rel (tsc_CellDedicated, tsc_RB24)	
312	+ ts_CRLC_Rel (ip_CellId, tsc_RB30)	
313	+ ts_CRLC_Rel (ip_CellId, tsc_RB29)	
314	+ ts_CRLC_Rel (p_CellId, tsc_RB_BCCH_FACH)	

Branches executed in test case 14.4.2a.3

The test case implementation executed the combined CS/PS branch with integrity activated and ciphering disabled.

5 Execution Log Files

5.1 Nokia 6630

The Nokia 6630 passed this test case on the Anite 3G U-SAT system. The documentation below is enclosed as evidence of the successful test case run [1]:

➤ **Test Case Execution log file tc_14_4_2a_3_Nokia.txt:**

In the log file (in txt format) the complete test case execution can be seen. All message contents are fully decoded and can be verified. Preliminary verdicts and the final test case verdict can be seen in the log file.

5.2 Sony Ericsson Z1010

The Sony Ericsson Z1010 passed this test case on the Anite 3G U-SAT system. The documentation below is enclosed as evidence of the successful test case run [1]:

➤ **Test Case Execution log file tc_14_4_2a_3_SonyEricsson.txt:**

In the log file (in txt format) the complete test case execution can be seen. All message contents are fully decoded and can be verified. Preliminary verdicts and the final test case verdict can be seen in the log file.

6 References

- [1] **T1s040627:** This archive comprises text format execution log file and the TTCN MP file.

CR-Form-v7

CHANGE REQUEST

34.123-3 CR 1080 # rev - # Current version: **3.7.0**

For **HELP** on using this form, see bottom of this page or look at the pop-up text over the # symbols.

Proposed change affects: UICC apps ME Radio Access Network Core Network

Title:	# Addition of RAB Package 4 test case 14.4.2a.2 to RAB ATS V3.7.0		
Source:	# Anite		
Work item code:	# N/A	Date:	# 27/09/04
Category:	# B	Release:	# R99
	Use <u>one</u> of the following categories:		Use <u>one</u> of the following releases:
	F (correction)		2 (GSM Phase 2)
	A (corresponds to a correction in an earlier release)		R96 (Release 1996)
	B (addition of feature),		R97 (Release 1997)
	C (functional modification of feature)		R98 (Release 1998)
	D (editorial modification)		R99 (Release 1999)
	Detailed explanations of the above categories can be found in 3GPP TR 21.900 .		Rel-4 (Release 4)
			Rel-5 (Release 5)
			Rel-6 (Release 6)

Reason for change:	# To add verified GCF package 4 RAB test case 14.4.2a.2 to the approved RAB ATS V3.7.0
Summary of change:	# This document lists all changes applied to test case 14.4.2a.2 required for approval. See detailed change description for further information.
Consequences if not approved:	# Test case will not be added to ATS

Clauses affected:	#				
Other specs affected:	#				
	<table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td style="width: 20px; text-align: center;">Y</td> <td style="width: 20px; text-align: center;">N</td> </tr> <tr> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> </tr> </table> Other core specifications	Y	N	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Y	N				
<input type="checkbox"/>	<input checked="" type="checkbox"/>				
	<table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td style="width: 20px; text-align: center;">Y</td> <td style="width: 20px; text-align: center;">N</td> </tr> <tr> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> </tr> </table> Test specifications	Y	N	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Y	N				
<input type="checkbox"/>	<input checked="" type="checkbox"/>				
	<table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td style="width: 20px; text-align: center;">Y</td> <td style="width: 20px; text-align: center;">N</td> </tr> <tr> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> </tr> </table> O&M Specifications	Y	N	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Y	N				
<input type="checkbox"/>	<input checked="" type="checkbox"/>				
Other comments:	#				

How to create CRs using this form:

Comprehensive information and tips about how to create CRs can be found at <http://www.3gpp.org/specs/CR.htm>. Below is a brief summary:

- 1) Fill out the above form. The symbols above marked # contain pop-up help information about the field that they are closest to.
- 2) Obtain the latest version for the release of the specification to which the change is proposed. Use the MS Word "revision marks" feature (also known as "track changes") when making the changes. All 3GPP specifications can be downloaded from the 3GPP server under <ftp://ftp.3gpp.org/specs/> For the latest version, look for the directory name with the latest date e.g. 2001-03 contains the specifications resulting from the March 2001 TSG meetings.

- 3) With "track changes" disabled, paste the entire CR form (use CTRL-A to select it) into the specification just in front of the clause containing the first piece of changed text. Delete those parts of the specification which are not relevant to the change request.

Title: Changes to test case 14.4.2a.2 required for approval
Source: Anite
Agenda Item: TTCN Issues
Document for: Approval
Contact: Philip Rose
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1 Overview

This document lists all the changes needed to correct problems in the TTCN implementation of test case 14.4.2a.2, which is part of the RAB test suite. Only essential changes to the TTCN are applied and documented in section 4.

With these changes applied the test case can be demonstrated to run with one or more 3G UEs (see section 6). Execution log files are provided as evidence.

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3 Verification Test Summary

Test Case: tc_14_4_2a_2
Test Group: RAB/CombinationsOnSCCPCH
ATS Version: iWD-TVB2003-03_D04wk37 + essential modifications
System Simulator used: Anite 3G U-SAT
UE used: Nokia 6630, Motorola A835
Verification Status: PASS

4 Corrections required for test case 14.4.2a.2

4.1 Introduction

This section describes the changes required to make test case 14.4.2a.2 run correctly with a 3G UE. The ATS version used as basis was RAB_wk37.mp, which is part of the iWD-TVB2003-03_D04wk37 release.

The enclosed MP file contains a number of additional changes in common test steps which are required for other test cases, but which are not applicable to test case 14.4.2a.2. (T1s040622, T1s040626)

4.2 Change 1

Test step name	tc_14_4_2a_2
Reason for change	<ol style="list-style-type: none">1. According to 3GPP TS 34.123-1 RAB created should be of Interactive or Background type. In the current TTCN implementation only Interactive type is created.2. Test Step ts_RB_InitTest_3SCCPCH always create Interactive type RAB.3. The CRNTI used in Radio Bearer Setup message sent from Test Step ts_SendRB_SetUp_FACH_3SCCPCH_32k_2a is not as per 34.108 default content for Radio Bearer Setup Message.4. The TFC list (c_TFC_Allowed_0_3) used for DL SS restriction is wrong.5. In the TTCN, tcv_CN_Domain is assigned based on the PIXIT px_CN_DomainTested in the test step ts_AssignCN_Domain. As this test case configures PS RAB, tcv_CN_Domain should be assigned to ps_domain independent of PIXIT px_CN_DomainTested.
Summary of change	<ol style="list-style-type: none">1. Added local trees lt_Interactive and lt_Background to create Interactive and Background type RAB based on the pc_Interactive and pc_Background.2. Test step ts_RB_InitTest_3SCCPCH_2a is parameterised to take PagingCause and EstablishmentCause as an input parameter in order to create Interactive and Background RAB. The correct parameters are passed from lt_Interactive and lt_Background.3. Updated the value of Cell CRNTI with tsc_New_CRNTI2 ('1010101010101010'B), which will be used while sending the Radio Bearer Setup message to the Mobile in localtree lt_Interactive and lt_Background.4. In lt_Interactive added test steps ts_RRC_ConnRel and ts_GMM_DetachOnSwitchOff to handle Detach from the UE during power off after execution for Interactive RAB.5. Changed the TFC list to c_TFC_Allowed_0_1_3 to be used for DL SS restriction.6. At row 3 of the TTCN, instead of using test step ts_AssignCN_Domain, tcv_CN_Domain is assigned to ps_domain.
Source of change	New change

Before:

0	START t_Guard(300)		
1	+ts_InitVariables		
2	+ts_AssignCN_Domain		Sets domain for testing
3	+ts_RB_InitTest_3SCCPCH_2a		
4	+ts_SendRB_SetUp_FACH_3SCCPCH_32k_2a(tsc_CellA,tsc_RAB_DefPS,tsc_RAB2_DefPS,tcv_ActTime)		
5	+ts_RB_SubTest_RB20_FACH(tsc_RB_TestData_3024, c_TFC_Allowed_0_1, c_TFC_Allowed_0_3, c_UE_TestLoopMode1_LB_Setup (312, tsc_RB20), 312)		
6	+ts_RB_SubTest_RB24_FACH(tsc_RB_TestData_3024, c_TFC_Allowed_0_1, c_TFC_Allowed_0_3, c_UE_TestLoopMode1_LB_Setup (312, tsc_RB24), 312)		
7	TBE1 (tcv_TestBody := FALSE)		
8	+ts_TC_DeactivateRB_TestMode (tsc_CellA)		Steps 20-21
9	+po_ConnectionAndSS_Rel (tsc_CellA)		

After:

1	START t_Guard(300)		
2	+ts_InitVariables		
3	(tcv_CN_Domain := ps_domain)		Sets domain for testing
4	+It_Interactive		
5	+It_Background		
It_Interactive			
6	[pc_Interactive]		
7	+ts_RB_InitTest_3SCCPCH_2a(terminatingInteractiveCall, terminatingInteractiveCall)		
8	(tcv_CellInfoA.cRNNTI := tsc_New_CRNTI2)		
9	+ts_SendRB_SetUp_FACH_3SCCPCH_32k_2a(tsc_CellA,tsc_RAB_DefPS,tsc_RAB2_DefPS,tcv_ActTime)		
10	+ts_RB_SubTest_RB20_FACH(tsc_RB_TestData_3024, c_TFC_Allowed_0_1, c_TFC_Allowed_0_1_3, c_UE_TestLoopMode1_LB_Setup (312, tsc_RB20), 312)		
11	+ts_RB_SubTest_RB24_FACH(tsc_RB_TestData_3024, c_TFC_Allowed_0_1, c_TFC_Allowed_0_1_3, c_UE_TestLoopMode1_LB_Setup (312, tsc_RB24), 312)		
12	TBE1 (tcv_TestBody := FALSE)		
13	+ts_TC_DeactivateRB_TestMode (tsc_CellA)		Steps 20-21
14	+ts_RRC_ConnRel (tsc_CellA, cell_Fach_Dcch)		
15	+ts_GMM_DetachOnSwitchOff(tsc_CellA)		
16	+po_ConnectionAndSS_Rel (tsc_CellA)		
17	[TRUE]		
It_Background			
18	[pc_Background]		
19	+ts_RB_InitTest_3SCCPCH_2a(terminatingBackgroundCall, terminatingBackgroundCall)		
20	(tcv_CellInfoA.cRNNTI := tsc_New_CRNTI2)		
21	+ts_SendRB_SetUp_FACH_3SCCPCH_32k_2a(tsc_CellA,tsc_RAB_DefPS,tsc_RAB2_DefPS,tcv_ActTime)		
22	+ts_RB_SubTest_RB20_FACH(tsc_RB_TestData_3024, c_TFC_Allowed_0_1, c_TFC_Allowed_0_1_3, c_UE_TestLoopMode1_LB_Setup (312, tsc_RB20), 312)		
23	+ts_RB_SubTest_RB24_FACH(tsc_RB_TestData_3024, c_TFC_Allowed_0_1, c_TFC_Allowed_0_1_3, c_UE_TestLoopMode1_LB_Setup (312, tsc_RB24), 312)		
24	TBE1 (tcv_TestBody := FALSE)		
25	+ts_TC_DeactivateRB_TestMode (tsc_CellA)		Steps 20-21
26	+po_ConnectionAndSS_Rel (tsc_CellA)		
27	[TRUE]		

4.3 Change 2

Test step	ts_RB_InitTest_3SCCPCH_2a
Reason for change	<ol style="list-style-type: none"> 1. Test Step ts_RB_InitTest_3SCCPCH_2a always create Interactive type RAB. 2. In this test step the cell created based on the PIXIT px_PTMSI_Def assigned to UE at the beginning of the test case in order to know UE will select which SCCPCH. However at the beginning of the Test case it is not known which is the initial UE Identity UE has. Thus to overcome this issue for the idle update the cell is created as per the system information mentioned in 34.108 section 6.1.0b. Later System Information is modified as per section 6.1.3 of 34.108 and UE is Paged for the same. Finally Cell is Reconfigured based on the TMSI/P-TMSI and URNTI assigned to the mobile during Idle update
Summary of change	<ol style="list-style-type: none"> 1. Test step ts_RB_InitTest_3SCCPCH_2a is parameterised to take PagingCause and EstablishmentCause as an input parameter and the same is passed to test step ts_RRC_PagType1_P_TMSI_Cause and ts_RRC_ConnEst as input parameter. 2. Added a new local Tree It_ReconfigureCell, which is used to reconfigure the cell based on System Information specified in 34.108 section 6.1.3 based on the TMSI/P-TMSI and URNTI assigned to the Mobile during Idle Update.

	3. In order to modify the cell as per the new configuration two new test steps are added: ts_SS_ModifyCell3_SCCPCH_4_FACH_Cnfg1_2a and ts_SS_ModifyCell3_SCCPCH_4_FACH_Cnfg2_2a.
Source of change	New change

Before:

Test Step Id:	ts_RB_InitTest_3SCCPCH_2a				
Test Step Group Ref:	RB_Steps/Initialization/				
Objective:	To setup the environment for PS test cases				
Defaults:	RRC_Def1				
Comments:	@SIC_NAPP				
...	...	Behaviour Description	Constraint Ref	...	Comments
1		{ (BIT_TO_INT(o_OctToBit(px_PTMSI_Def))MOD 2) = 0]			
2		+ts_SS_CreateCell3_SCCPCH_4_FACH_Cnfg1_2a (tsc_CellA)			
3		(tcv_CellCnfg :=1)			
4		+It_NextSteps			
5		{ (BIT_TO_INT(o_OctToBit(px_PTMSI_Def))MOD 2) = 1]			
6		+ts_SS_CreateCell3_SCCPCH_4_FACH_Cnfg2_2a (tsc_CellA)			
7		(tcv_CellCnfg :=2)			
8		+It_NextSteps			
It_NextSteps					
9		+ ts_SetTmpCellInfo (tsc_CellA)			Fetch record corresponding to current cell
10		+ts_SendDefSysInfo_withoutSIB6 (tsc_CellA)			
11		+ ts_IdleUpdated (tsc_CellA)			
12	TB S1	(tcv_TestBody:=TRUE)			
13		+ts_RRC_PagType1_P_TMSI_Cause (tsc_CellA, px_PTMSI_Def, terminatingInteractiveCall ,tsc_RB_PCCH)			
14		+ ts_RRC_ConnEst (tsc_CellA, est_MT, terminatingInteractiveCall)			Steps 2-5
15		Dc?RRC_DataInd (tcv_Start := RRC_DataInd.start)	car_PS_InitDirectTransfer (tsc_CellDedicated, tsc_RB3, cr_ServiceRequest(c_ServiceType_v("010'B), c_MobileIdPTMSI_lv(tcv_AssignedPTMSI, ?))		Step 6
16		(tcv_CellIndInfo.start_PS := tcv_Start)			
17		+ts_SS_SecurityDownloadStart (ps_domain, tcv_Start)			
18		+ ts_RRC_Security (tsc_CellA, tcv_PS_AuthCK, tcv_PS_AuthIK, tcv_AuthKcGSM, FALSE, ps_domain)			SECURITY MODE COMPLETE
19		+ ts_TC_ActivateRB_TestMode (tsc_CellDedicated)			Steps 7-8

After:

...	La...	Behaviour Description	Constraint Ref	...	Comments
1		+ts_SS_CreateCellFACH (tsc_CellA)			Configuration has to be changed
2		+ ts_SetTmpCellInfo (tsc_CellA)			Fetch record corresponding to current cell
3		+ts_SendDefSysInfo_withoutSIB6_3SCCPCH (tsc_CellA)			
4		+ ts_IdleUpdated (tsc_CellA)			
5		+ts_SendModifiedSIB5_withoutSIB6_3SCCPCH(tsc_CellA)			
6		+It_ReConfigureCell			
7	TBS1	(tcv_TestBody:=TRUE)			
8		+ts_RRC_PagType1_P_TMSI_Cause (tsc_CellA, px_PTMSI_Def, p_PagingCause, tsc_RB_PCCH)			
9		+ ts_RRC_ConnEst (tsc_CellA, est_MT, p_EstablishmentCause)			Steps 2-5
10		Dc?RRC_DataInd (tcv_Start := RRC_DataInd.start)	car_PS_InitDirectTransfer (tsc_CellDedicated, tsc_RB3, cr_ServiceRequest(c_ServiceType_v('010'B), c_MobileIdPTMSI_w(tcv_AssignedPTMSI, ?))		Step 6
11		(tcv_CellIndInfo.start_PS := tcv_Start)			
12		+ts_SS_SecurityDownloadStart (ps_domain, tcv_Start)			
13		+ ts_RRC_Security (tsc_CellA, tcv_PS_AuthCK, tcv_PS_AuthIK, tcv_AuthKcGSM, FALSE, ps_domain)			SECURITY MODE COMMAND SECURITY MODE COMPLETE
14		+ ts_TC_ActivateRB_TestMode (tsc_CellDedicated)			Steps 7-8
		It_ReConfigureCell			
15		+ts_RRC_Delay(5000)			Give delay for UE to listen to new configuration
16		+It_ReleaseCell			
17		+It_ModifyCell			

It_ReleaseCell			
18	+ ts_CRLC_Rel (tsc_CellA, tsc_RB0)		
19	+ ts_CRLC_Rel (tsc_CellA, tsc_RB_BCCH_FACH)		
20	+ ts_CRLC_Rel (tsc_CellDedicated, tsc_RB20)		
21	+ ts_CRLC_Rel (tsc_CellDedicated, tsc_RB1)		
22	+ ts_CRLC_Rel (tsc_CellDedicated, tsc_RB2)		
23	+ ts_CRLC_Rel (tsc_CellDedicated, tsc_RB3)		
24	+ ts_CRLC_Rel (tsc_CellDedicated, tsc_RB4)		
25	+ ts_CMAC_Rel (tsc_CellA, tsc_PRACH1)		
26	+ ts_CPHY_TrChRelNonDch (tsc_CellA, tsc_PRACH1)		
27	+ ts_SS_StopRL (tsc_CellA, tsc_AICH1)		
28	+ ts_SS_StopRL (tsc_CellA, tsc_PRACH1)		
29	+ ts_CRLC_Rel (tsc_CellA, tsc_RB_PCCH)		
30	+ ts_CMAC_Rel (tsc_CellA, tsc_S_CCPCH1)		
31	+ ts_CPHY_TrChRelNonDch (tsc_CellA, tsc_S_CCPCH1)		
32	+ ts_SS_StopRL (tsc_CellA, tsc_PICH1)		
33	+ ts_SS_StopRL (tsc_CellA, tsc_S_CCPCH1)		
It_ModifyCell			
34	[pc_CS]		
35	[(BIT_TO_INT(o_OctToBit(px_TMSI_Def))MOD 2) = 0]		
36	[(BIT_TO_INT(o_BitstringConcat(tcv_CellInfoA.uRNTI.smc_Identity,tcv_CellInfoA.uRNTI.s_RNTI,12,20))MOD 2) = 1]		
37	+ts_SS_ModifyCell3_SCCPCH_4_FACH_Cnfg1_2a (tsc_CellA)		
38	(tcv_CellCnfg :=1)		
39	[(BIT_TO_INT(o_BitstringConcat(tcv_CellInfoA.uRNTI.smc_Identity,tcv_CellInfoA.uRNTI.s_RNTI,12,20))MOD 2) = 0]		
40	(tcv_CellInfoA.uRNTI.s_RNTI := '00000000000000000000000000000001'B)		
41	+ts_SS_ModifyCell3_SCCPCH_4_FACH_Cnfg1_2a (tsc_CellA)		
42	(tcv_CellCnfg :=1)		
43	[(BIT_TO_INT(o_OctToBit(px_TMSI_Def))MOD 2) = 1]		
44	[(BIT_TO_INT(o_BitstringConcat(tcv_CellInfoA.uRNTI.smc_Identity,tcv_CellInfoA.uRNTI.s_RNTI,12,20))MOD 2) = 0]		
45	+ts_SS_ModifyCell3_SCCPCH_4_FACH_Cnfg2_2a (tsc_CellA)		
46	(tcv_CellCnfg :=2)		
47	[(BIT_TO_INT(o_BitstringConcat(tcv_CellInfoA.uRNTI.smc_Identity,tcv_CellInfoA.uRNTI.s_RNTI,12,20))MOD 2) = 1]		
48	(tcv_CellInfoA.uRNTI.s_RNTI := '00000000000000000000000000000000'B)		
49	+ts_SS_ModifyCell3_SCCPCH_4_FACH_Cnfg2_2a (tsc_CellA)		
50	(tcv_CellCnfg :=2)		
51	[pc_PS]		
52	[(BIT_TO_INT(o_OctToBit(px_PTMSI_Def))MOD 2) = 0]		
53	[(BIT_TO_INT(o_BitstringConcat(tcv_CellInfoA.uRNTI.smc_Identity,tcv_CellInfoA.uRNTI.s_RNTI,12,20))MOD 2) = 1]		
54	+ts_SS_ModifyCell3_SCCPCH_4_FACH_Cnfg1_2a (tsc_CellA)		
55	(tcv_CellCnfg :=1)		
56	[(BIT_TO_INT(o_BitstringConcat(tcv_CellInfoA.uRNTI.smc_Identity,tcv_CellInfoA.uRNTI.s_RNTI,12,20))MOD 2) = 0]		
57	(tcv_CellInfoA.uRNTI.s_RNTI := '00000000000000000000000000000001'B)		
58	+ts_SS_ModifyCell3_SCCPCH_4_FACH_Cnfg1_2a (tsc_CellA)		
59	(tcv_CellCnfg :=1)		
60	[(BIT_TO_INT(o_OctToBit(px_PTMSI_Def))MOD 2) = 1]		
61	[(BIT_TO_INT(o_BitstringConcat(tcv_CellInfoA.uRNTI.smc_Identity,tcv_CellInfoA.uRNTI.s_RNTI,12,20))MOD 2) = 0]		
62	+ts_SS_ModifyCell3_SCCPCH_4_FACH_Cnfg2_2a (tsc_CellA)		
63	(tcv_CellCnfg :=2)		
64	[(BIT_TO_INT(o_BitstringConcat(tcv_CellInfoA.uRNTI.smc_Identity,tcv_CellInfoA.uRNTI.s_RNTI,12,20))MOD 2) = 1]		
65	(tcv_CellInfoA.uRNTI.s_RNTI := '00000000000000000000000000000000'B)		
66	+ts_SS_ModifyCell3_SCCPCH_4_FACH_Cnfg2_2a (tsc_CellA)		
67	(tcv_CellCnfg :=2)		
68	[TRUE]		I

New Test Step:

Test Step					
Test Step Id:	ts_SS_ModifyCell3_SCCPCH_4_FACH_Cnfg1_2a (p_CellId:INTEGER)				
Test Step Group Ref:	RB_Steps/Initialization/				
Objective:	To create the cell with 3 SCCPCHs				
	map PCCH to PCH to SCCPCH1 map BCCH and CCCH to FACH1 and DTCH to FACH2 and inturn map FACH1 and FACH2 to SCCPCH2 map BCCH,CCCH,DCCH,to FACH3 and map DTCH to FACH3 and inturn map FACH3 and FACH4 to SCCPCH3				
Defaults:	SS_Def				
Comments:	@SIC_NAPP				
...	L...	Behaviour Description	Constraint Ref	...	Comments
1		+ ts_SS_FirstSCCPCH_PCH_PCCH_Cfg(p_CellId)			PCH->SCCPCH1
2		+ts_SS_2FACH_CCCH_BCCH_DTCH_SCCPCH2_Cfg_2a(p_CellId)			(BCCH,CCCH,->FACH1 , DTCH->FACH2) --->SCCPCH2
3		+ts_SS_2FACH_CCCH_BCCH_DCCH_DTCH_SCCPCH3_Cfg_2a(p_CellId)			(BCCH,CCCH,DCCH -> FACH3 , DTCH->FACH4) ---> SCCPCH3
4		+ts_SS_RACH_CCCH_DCCH_DTCH_Cfg_2a (p_CellId)			
5		+ts_SS_RB_PCCH_Cfg(p_CellId)			
6		+ts_SS_RB0_Cfg(p_CellId)			
7		+ts_SS_RB29_Cfg(p_CellId)			
8		+ts_SS_RB1_ToRB4_Cfg			
9		+ts_SS_RB_BCCH_FACH_Cfg(p_CellId)			RB9 is on BCCH-FACH
10		+ts_SS_RB_BCCH_FACH_RAB_Cfg(p_CellId)			RB9 is on BCCH-FACH
11		+ts_SS_RB20_AM_24_AM_Cfg			
12		+ts_SS_RB22_AM_23_AM_Cfg			
13		+ ts_SetCellCfg (p_CellId, cell_FACH_3_SCCPCH_4_FACH_2a_Cnfg1_NoConn)			

New Test Step:

Test Step					
Test Step Id:	ts_SS_ModifyCell3_SCCPCH_4_FACH_Cnfg2_2a (p_CellId:INTEGER)				
Test Step Group Ref:	RB_Steps/Initialization/				
Objective:	To create the cell with 3 SCCPCHs				
	map PCCH to PCH to SCCPCH1 map BCCH and CCCH to FACH1 and DTCH to FACH2 and inturn map FACH1 and FACH2 to SCCPCH2 map BCCH,CCCH,DCCH,to FACH3 and map DTCH to FACH3 and inturn map FACH3 and FACH4 to SCCPCH3				
Defaults:	SS_Def				
Comments:	@SIC_NAPP				
...	L...	Behaviour Description	Constraint Ref	...	Comments
1		+ ts_SS_FirstSCCPCH_PCH_PCCH_Cfg(p_CellId)			PCH->SCCPCH1
2		+ts_SS_2FACH_CCCH_BCCH_DTCH_SCCPCH3_Cfg_2a(p_CellId)			(BCCH,CCCH,->FACH1 , DTCH->FACH2) --->SCCPCH2
3		+ts_SS_2FACH_CCCH_BCCH_DCCH_DTCH_SCCPCH2_Cfg_2a(p_CellId)			(BCCH,CCCH,DCCH -> FACH3 , DTCH->FACH4) ---> SCCPCH3
4		+ts_SS_RACH_CCCH_DCCH_DTCH_Cfg_2a (p_CellId)			
5		+ts_SS_RB_PCCH_Cfg(p_CellId)			
6		+ts_SS_RB0_Cfg(p_CellId)			
7		+ts_SS_RB29_Cfg(p_CellId)			
8		+ts_SS_RB1_ToRB4_Cfg			
9		+ts_SS_RB_BCCH_FACH_Cfg(p_CellId)			RB9 is on BCCH-FACH
10		+ts_SS_RB_BCCH_FACH_RAB_Cfg(p_CellId)			RB9 is on BCCH-FACH
11		+ts_SS_RB20_AM_24_AM_Cfg			
12		+ts_SS_RB22_AM_23_AM_Cfg			
13		+ ts_SetCellCfg (p_CellId, cell_FACH_3_SCCPCH_4_FACH_2a_Cnfg2_NoConn)			

4.4 Change 3

Test step	ts_SS_2FACH_CCCH_BCCH_DTCH_SCCPCH3_Cfg_2a
Reason for change	As per 34.108 section 6.1.3 timing offset for 3 SCCPCH should be 90. In the TTCN it is set as 0.
Summary of change	At row 3 of the test step replaced itcv_TmpCellInfo.timingsCCPCH1î with î90î
Source of change	New change

Before:

2	[px_RAT = fdd]		
3	CPHYICPHY_RL_Setup_REQ	ca_sCCPCH_Info (p_CellId, tsc_S_CCPCH3, tsc_S_CCPCH_2ndScrCode, tsc_S_CCPCH3_ChC, tcv_TmpCellInfo.slotFormatsCCPCH1, (tcv_TmpCellInfo.powersCCPCH1), (tcv_TmpCellInfo.timingsCCPCH1))	s-CCPCH1
4	CPHY?CPHY_RL_Setup_CNF	ca_RL_SetupCnf(p_CellId, tsc_S_CCPCH3)	

After:

2	[px_RAT = fdd]		
3	CPHYICPHY_RL_Setup_REQ	ca_sCCPCH_Info (p_CellId, tsc_S_CCPCH3, tsc_S_CCPCH_2ndScrCode, tsc_S_CCPCH3_ChC, tcv_TmpCellInfo.slotFormatsCCPCH1, (tcv_TmpCellInfo.powersCCPCH1), 90)	s-CCPCH1
4	CPHY?CPHY_RL_Setup_CNF	ca_RL_SetupCnf(p_CellId, tsc_S_CCPCH3)	

4.5 Change 4

Test step	ts_SS_2FACH_CCCH_BCCH_DCCH_DTCH_SCCPCH3_Cfg_2a
Reason for change	As per 34.108 section 6.1.3 timing offset for 3 SCCPCH should be 90. In the TTCN it is set as 0.
Summary of change	At row 3 of the test step replaced itcv_TmpCellInfo.timingsCCPCH1 with i90i
Source of change	New change

Before:

2	[px_RAT = fdd]		
3	CPHYICPHY_RL_Setup_REQ	ca_sCCPCH_Info (p_CellId, tsc_S_CCPCH3, tsc_S_CCPCH_2ndScrCode, tsc_S_CCPCH3_ChC, tcv_TmpCellInfo.slotFormatsCCPCH1, (tcv_TmpCellInfo.powersCCPCH1), (tcv_TmpCellInfo.timingsCCPCH1))	s-CCPCH1
4	CPHY?CPHY_RL_Setup_CNF	ca_RL_SetupCnf(p_CellId, tsc_S_CCPCH3)	

After:

2	[px_RAT = fdd]		
3	CPHYICPHY_RL_Setup_REQ	ca_sCCPCH_Info (p_CellId, tsc_S_CCPCH3, tsc_S_CCPCH_2ndScrCode, tsc_S_CCPCH3_ChC, tcv_TmpCellInfo.slotFormatsCCPCH1, (tcv_TmpCellInfo.powersCCPCH1), 90)	s-CCPCH1
4	CPHY?CPHY_RL_Setup_CNF	ca_RL_SetupCnf(p_CellId, tsc_S_CCPCH3)	

4.6 Change 5

Test step	ts_SS_2FACH_CCCH_BCCH_DCCH_DTCH_SCCPCH2_Cfg_2a
Reason for change	As per 34.108 section 6.1.3 channelization code used for SCCPCH 2 should be sf64:1. In TTCN it is used as sf64:2
Summary of change	At row 3, replaced itsc_S_CCPCH2_ChC with itsc_S_CCPCH2_DL_ChC
Source of change	New change

Before:

2	[px_RAT = fdd]		
3	CPHYICPHY_RL_Setup_REQ	ca_sCCPCH_Info (p_CellId, tsc_S_CCPCH2, tsc_S_CCPCH_2ndScrCode, (tsc_S_CCPCH2_ChC), tcv_TmpCellInfo.slotFormatsCCPCH1, (tcv_TmpCellInfo.powersCCPCH1), tcv_TmpCellInfo.timingsCCPCH1)	s-CCPCH1
4	CPHY?CPHY_RL_Setup_CNF	ca_RL_SetupCnf(p_CellId, tsc_S_CCPCH2)	

After:

2	[px_RAT = fdd]		
3	CPHYICPHY_RL_Setup_REQ	ca_sCCPCH_Info (p_CellId, tsc_S_CCPCH2, tsc_S_CCPCH_2ndScrCode, (tsc_S_CCPCH2_DL_ChC), tcv_TmpCellInfo.slotFormatsCCPCH1, (tcv_TmpCellInfo.powersCCPCH1), tcv_TmpCellInfo.timingsCCPCH1)	s-CCPCH1
4	CPHY?CPHY_RL_Setup_CNF	ca_RL_SetupCnf(p_CellId, tsc_S_CCPCH2)	

4.7 Change 6

Test step	ts_SendRB_SetUp_FACH_3SCCPCH_32k_2a
Reason for change	<ol style="list-style-type: none"> 1. Radio Bearer Setup message sent is not correct. 2. In the Radio Bearer Setup message new CRNTI value of '1010101010101010'B is sent. The same value needs to be updated in the SS. 3. No Need to Modify the cell for the mapping info. 4. At row 3 and 9 call to test step ts_CPHY_ActTime is not required.
Summary of change	<ol style="list-style-type: none"> 1. Created a new Constraint cbs_RB_SetUpFACH_PS_2SCCPCH_2a and the same is used at row 1. Please refer to attached Draft Prose CR for the same (T1-041512). 2. Added a delay of 50ms at row 2 between Sending of Radio Bearer Setup message and Configuration on new CRNTI on the SS send. 3. Created a new test step ts_CMAC_New_RNTI_Reconf_3SCCPCH_2a and is called at row 4 and 9. 4. Removed call to test step ts_SS_Modify3_SCCPCH_4_FACH_2a_Cnfg1 and ts_SS_Modify3_SCCPCH_4_FACH_2a_Cnfg2. 5. At row 3 and 9 call to test step ts_CPHY_ActTime is removed.
Source of change	New change

Before:

1	+ ts_SetTmpCellInfo (p_CellId)			
2	[tcv_CellCnfg = 1]			
3	+ ts_CPHY_ActTime (p_CellId, tsc_S_CCPCH3, 1)			
4	AM!RLC_AM_DATA_REQ	cas_RB_SetUpAM_WithCnfg(tsc_CellDedicated, tsc_RB2, OMIT, cs_RRC_RB_SetUp(tcv_CellIndInfo.dl_IntegrityCheckInfo, tcv_RRC_Ti, OMIT, cell_FACH, OMIT, cb_RAB_InfoListAM2_No_Pdcp_2a (c_ReEstTimerT315, p_RAB_Id, p_RAB_Id2), c_UL_CommTrChInfo_AM0To1(c_PowerOffsetInfoBelow64k) , c_UL_AddReconfTransChInfoListFACH_PS, c_DL_CommonTransChInfo_AM_0_4, c_DL_AddReconfTransChInfoListFACH_PS_2SCCPCH_Cnfg1, c_DL_InformationPerRL_FACH(tcv_TmpCellInfo.priScrmCode), OMIT, OMIT, OMIT))	@S ic RA SH T1 s0 40 43 8 sic @	
5	+ts_SS_Modify3_SCCPCH_4_FACH_Cnfg1_2a (tsc_CellA)			
6	TS + ts_RRC_ReceiveRB_SetupCmpl (p_CellId , cell_FACH_3_P1 SCCPCH_4_FACH_2a_Cnfg1)			
7	+ ts_SetCellCnfg (tsc_CellA, cell_FACH_3_SCCPCH_4_FACH_2a_Cnfg1)			
8	[tcv_CellCnfg = 2]			
9	+ ts_CPHY_ActTime (p_CellId, tsc_S_CCPCH2, 1)			

10	AM !RLC_AM_DATA_REQ	<pre> cas_RB_SetUpAM_WithCnt(tsc_CellDedicated, tsc_RB2, OMIT, cs_RRC_RB_SetUp(tcv_CellIndInfo.dl_IntegrityCheckInfo, tcv_RRC_TI, OMIT, cell_FACH, OMIT, cb_RAB_InfoListAM2_No_Pdcp_2a (c_ReEstTimerT314, p_RAB_Id, p_RAB_Id2), c_UL_CommTrChInfo_AM0To1(c_PowerOffsetInfoBelow64k) , c_UL_AddReconfTransChInfoListFACH_PS, c_DL_CommonTransChInfo_AM_0_4, c_DL_AddReconfTransChInfoListFACH_PS_2SCCPCH_Cnfg2, c_DL_InformationPerRL_FACH(tcv_TmpCellInfo.priScrmCode), OMIT, OMIT, OMIT)) </pre>		
11	+ts_SS_Modify3_SCCPCH_4_FACH_Cnfg2_2a(p_CellId)			
12	TS P2 +ts_RRC_ReceiveRB_SetupCmpl (p_CellId , cell_FACH_3_SCCPCH_4_FACH_2a_Cnfg2)			
13	+ts_SetCellCfg (tsc_CellA, cell_FACH_3_SCCPCH_4_FACH_2a_Cnfg2)			

After:

1	+ts_SetTmpCellInfo (p_CellId)			
2	AM !RLC_AM_DATA_REQ	<pre> cas_RB_SetUpAM (tsc_CellDedicated, tsc_RB2, cbs_RB_SetUpFACH_PS_2SCCPCH_2a (tcv_CellIndInfo.dl_IntegrityCheckInfo, tcv_RRC_TI, p_RAB_Id, p_RAB_Id2, tcv_TmpCellInfo.cRNTI)) </pre>		
3	+ts_RRC_Delay (50)			
4	+ts_CMAC_New_RNTI_Reconf_3SCCPCH_2a (FALSE, p_CellId, tcv_TmpCellInfo.uRNTI, tcv_TmpCellInfo.cRNTI)			
5	TSP1 +ts_RRC_ReceiveRB_SetupCmpl (p_CellId , tcv_TmpCellInfo.cellConfig)			

New Constraint:

ASN.1 PDU Constraint Declaration	
Constraint Name:	cbs_RB_SetUpFACH_PS_2SCCPCH_2a (p_IntegrityInfo : IntegrityCheckInfo;p_RRC_Ti : RRC_TransactionIdentifier; p_RAB_Id : BITSTRING;p_RAB_Id2 : BITSTRING; p_NewC_RNTI : C_RNTI)
Group:	
PDU Name:	DL_DCCH_Message
Derivation Path:	
Encoding Rule Name:	
Encoding Variation:	
Comments:	Defined in TS 34.123-1 annex A condition A.6

Constraint Value
<pre> { integrityCheckInfo p_IntegrityInfo, message radioBearerSetup: r3 : { radioBearerSetup_r3 { rrc_TransactionIdentifier p_RRC_Ti, integrityProtectionModelInfo OMIT, cipheringModelInfo OMIT, activationTime OMIT, new_U_RNTI OMIT, new_C_RNTI p_NewC_RNTI , rrc_StateIndicator cell_FACH, utran_DRX_CycleLengthCoeff OMIT, cn_InformationInfo OMIT, srb_InformationSetupList OMIT, rab_InformationSetupList cb_RAB_InfoListAM2_No_Pdcp_2a (c_ReEstTimerT315, p_RAB_Id,p_RAB_Id2), rb_InformationAffectedList OMIT , ul_CommonTransChInfo c_UL_CommTrChInfoDCH_PS_64k, ul_deletedTransChInfoList OMIT, ul_AddReconfTransChInfoList c_UL_AddReconfTransChInfoListDCH_PS_64k, modeSpecificTransChInfo fdd:{ cpch_SetID OMIT, addReconfTransChDRAC_Info OMIT }, dl_CommonTransChInfo c_DL_CommonTransChInfoDCH (c_TFCS_Cmpl0_1_2_3_4_5_6_7_8_9_Rx), dl_DeletedTransChInfoList OMIT, dl_AddReconfTransChInfoList c_DL_AddReconfTransChInfoListDCH_PS_64k, frequencyInfo OMIT, maxAllowedUL_TX_Power OMIT, ul_ChannelRequirement OMIT, modeSpecificPhysChInfo fdd:{ dl_PDSCH_Information OMIT }, dl_CommonInformation OMIT , dl_InformationPerRL_List OMIT }, v3a0NonCriticalExtensions { radioBearerSetup_v3a0Ext { new_DSCH_RNTI OMIT }, laterNonCriticalExtensions OMIT } } } </pre>

New TestStep:

Test Step Id:	ts_CMAC_New_RNTI_Reconf_3SCCPCH_2a (p_urmti:BOOLEAN; p_CellId : INTEGER; p_U_RNTI : U_RNTI; p_C_RNTI : BITSTRING)
Test Step Group Ref:	NewTestSteps/
Objective:	Reconfigure MAC when a new U_RNTI or C_RNTI is assigned to UE.
Defaults:	SS_Def
Comments:	U-RNTI and C-RNTI are not required on DPCH. U-RNTI and C-RNTI is necessary when DCCH/DTCH mapped on S-CCPCH. C-RNTI is necessary when DCCH/DTCH mapped on PRACH.

Nr	Behaviour Description	Constraint Ref	Comments
1	+ ts_SetTmpCellInfo (p_CellId)		
2	+ ts_CRLC_ReconfRLC_Size (p_urmti)		
3	+ It_CMAC_Reconf (p_urmti)		
It_CMAC_Reconf (p_urmti : BOOLEAN)			
4	[p_urmti]		
5	[(tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_4_FACH_2a_Cnfg1)]		
6	CMAC ! CMAC_Config_REQ	ca_CMAC_ReconfigInfoActNow (p_CellId , tsc_S_CCPCH3, c_U E_Info(p_U_RNTI, OMIT), c_TrChInfoFACH_BCCH_CCCH_DCC H_PS, c_TrLogMappingFACH_BCCH_DCCH_CCCH_PS_2a)	SS has valid U-RNTI, C-R NTI is not valid
7	CMAC ? CMAC_Config_CNF	ca_CMAC_CfgCnf (p_CellId , tsc_S_CCPCH3)	
8	[(tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_4_FACH_2a_Cnfg2)]		
9	CMAC ! CMAC_Config_REQ	ca_CMAC_ReconfigInfoActNow (p_CellId , tsc_S_CCPCH2, c_U E_Info(p_U_RNTI, OMIT), c_TrChInfoFACH_BCCH_CCCH_DCC H_SCCPCH2_PS, c_TrLogMappingFACH_BCCH_DCCH_CCCH _SCCPCH2_PS_2a)	SS has valid U-RNTI, C-R NTI is not valid
10	CMAC ? CMAC_Config_CNF	ca_CMAC_CfgCnf (p_CellId , tsc_S_CCPCH2)	
11	[NOT p_urmti]		
12	[(tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_4_FACH_2a_Cnfg1)]		
13	CMAC ! CMAC_Config_REQ	ca_CMAC_ReconfigInfoActNow (p_CellId , tsc_PRACH1, c_UE_I nfo (OMIT, p_C_RNTI), cb_TrChInfoRACH1, c_TrLogMappingRAC H_2_DTCH)	SS has valid C-RNTI, U-R NTI is not valid Only C-RNTI is required o n PRACH
14	CMAC ? CMAC_Config_CNF	ca_CMAC_CfgCnf (p_CellId , tsc_PRACH1)	
15	CMAC ! CMAC_Config_REQ	ca_CMAC_ReconfigInfoActNow (p_CellId , tsc_S_CCPCH3, c_U E_Info(OMIT, p_C_RNTI), c_TrChInfoFACH_BCCH_CCCH_DCC H_PS, c_TrLogMappingFACH_BCCH_DCCH_CCCH_PS_2a)	
16	CMAC ? CMAC_Config_CNF	ca_CMAC_CfgCnf (p_CellId , tsc_S_CCPCH3)	
17	[(tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_4_FACH_2a_Cnfg2)]		
18	CMAC ! CMAC_Config_REQ	ca_CMAC_ReconfigInfoActNow (p_CellId , tsc_PRACH1, c_UE_I nfo (OMIT, p_C_RNTI), cb_TrChInfoRACH1, c_TrLogMappingRAC H_2_DTCH)	SS has valid C-RNTI, U-R NTI is not valid Only C-RNTI is required o n PRACH
19	CMAC ? CMAC_Config_CNF	ca_CMAC_CfgCnf (p_CellId , tsc_PRACH1)	
20	CMAC ! CMAC_Config_REQ	ca_CMAC_ReconfigInfoActNow (p_CellId , tsc_S_CCPCH2, c_U E_Info(OMIT, p_C_RNTI), c_TrChInfoFACH_BCCH_CCCH_DCC H_SCCPCH2_PS, c_TrLogMappingFACH_BCCH_DCCH_CCCH _SCCPCH2_PS_2a)	
21	CMAC ? CMAC_Config_CNF	ca_CMAC_CfgCnf (p_CellId , tsc_S_CCPCH2)	
22	[TRUE]		

4.8 Change 7

Test step	cb_RAB_InfoListAM2_No_Pdcp_2a
Reason for change	<p>1) In the Radio Bearer Setup message UL and DL <code>logicalChannelIdentity</code> is set to OMIT in <code>rb_MappingInfo</code> for each RB. This is wrong. As per 25.331 section 8.6.4.8 RB mapping info</p> <p>1> if, as a result of the message this IE is included in, several radio bearers can be mapped onto the same transport channel, and the IE "Logical Channel Identity" was not included in the RB mapping info of any of those radio bearers for a multiplexing option on that transport channel or the same "Logical Channel Identity" was used more than once in the RB mapping info of those radio bearers for the multiplexing options on that transport channel:</p> <p>2> set the variable INVALID_CONFIGURATION to TRUE. Thus UL and DL <code>logicalChannelIdentity</code> needs to be set in <code>rb_MappingInfo</code>.</p> <p>2) In RLC Size list only <code>rlc_SizeIndex2</code> should be given.</p>
Summary of change	<p>a. In the constraint changed UL and DL <code>logicalChannelIdentity</code> to <code>tsc_UL_DTCH1</code> and <code>tsc_DL_DTCH1</code> for RB 20 respectively and to <code>tsc_UL_DTCH4</code> and <code>tsc_DL_DTCH4</code> for RB24 respectively.</p> <p>b. Removed <code>rlc_SizeIndex1</code> from RLC size list.</p>

Source of change

New change

Before:

```

rb_InformationSetupList
{{ --RB_InformationSetupList
  rb_Identity tsc_RB20,
  pdcp_Info OMIT,
  rlc_InfoChoice rlc_Info : c_RLC_InfoAM_Def,
  rb_MappingInfo
  {
    { --RB_MappingOption
      ul_LogicalChannelMappings oneLogicalChannel:
      {
        ul_TransportChannelType dch: tsc_UL_DCH1,
        logicalChannelIdentity OMIT,
        rlc_SizeList configured :NULL,
        mac_LogicalChannelPriority 8
      },
      dl_LogicalChannelMappingList
      {{
        dl_TransportChannelType dch: tsc_DL_DCH1,
        logicalChannelIdentity OMIT
      }}
    },
    { --RB_MappingInfo
      ul_LogicalChannelMappings oneLogicalChannel:
      { --UL_LogicalChannelMapping,
        ul_TransportChannelType rach: NULL,
        logicalChannelIdentity tsc_UL_DTCH1,
        rlc_SizeList explicitList : { ( rlc_SizeIndex 1 ), { rlc_SizeIndex 2 } },
        mac_LogicalChannelPriority 8
      },

```

```

-----
{{ --RB_InformationSetupList
  rb_Identity tsc_RB24,
  pdcp_Info OMIT,
  rlc_InfoChoice rlc_Info : c_RLC_InfoAM_Def,
  rb_MappingInfo
  {
    { --RB_MappingOption
      ul_LogicalChannelMappings oneLogicalChannel:
      {
        ul_TransportChannelType dch: tsc_UL_DCH1,
        logicalChannelIdentity OMIT,
        rlc_SizeList configured :NULL,
        mac_LogicalChannelPriority 8
      },
      dl_LogicalChannelMappingList
      {{
        dl_TransportChannelType dch: tsc_DL_DCH1,
        logicalChannelIdentity OMIT
      }}
    },
    { --RB_MappingInfo
      ul_LogicalChannelMappings oneLogicalChannel:
      { --UL_LogicalChannelMapping,
        ul_TransportChannelType rach: NULL,
        logicalChannelIdentity tsc_UL_DTCH4,
        rlc_SizeList explicitList : { ( rlc_SizeIndex 1 ), { rlc_SizeIndex 2 } },
        mac_LogicalChannelPriority 8
      },

```

After:

```

rb_InformationSetupList
{{ --RB_InformationSetupList
rb_Identity tsc_RB20,
pdcp_Info OMIT,
rlc_InfoChoice rlc_Info : c_RLC_InfoAM_Def,
rb_MappingInfo
{
  --RB_MappingOption
  ul_LogicalChannelMappings oneLogicalChannel:
  {
    ul_TransportChannelType dch: tsc_UL_DCH1,
    logicalChannelIdentity tsc_UL_DTCH1,
    rlc_SizeList configured : NULL,
    mac_LogicalChannelPriority 8
  },
  dl_LogicalChannelMappingList
  {{
    dl_TransportChannelType dch: tsc_DL_DCH1,
    logicalChannelIdentity tsc_DL_DTCH1
  }}
},
  --RB_MappingInfo
  ul_LogicalChannelMappings oneLogicalChannel:
  { --UL_LogicalChannelMapping,
    ul_TransportChannelType rach: NULL,
    logicalChannelIdentity tsc_UL_DTCH1,
    rlc_SizeList explicitList : { { rlc_SizeIndex 2 } },
    mac_LogicalChannelPriority 8
  },
}
}

```

```

{{ --RB_InformationSetupList
rb_Identity tsc_RB24,
pdcp_Info OMIT,
rlc_InfoChoice rlc_Info : c_RLC_InfoAM_Def,
rb_MappingInfo
{
  --RB_MappingOption
  ul_LogicalChannelMappings oneLogicalChannel:
  {
    ul_TransportChannelType dch: tsc_UL_DCH1,
    logicalChannelIdentity tsc_UL_DTCH4,
    rlc_SizeList configured : NULL,
    mac_LogicalChannelPriority 8
  },
  dl_LogicalChannelMappingList
  {{
    dl_TransportChannelType dch: tsc_DL_DCH1,
    logicalChannelIdentity tsc_DL_DTCH4
  }}
},
  --RB_MappingInfo
  ul_LogicalChannelMappings oneLogicalChannel:
  { --UL_LogicalChannelMapping,
    ul_TransportChannelType rach: NULL,
    logicalChannelIdentity tsc_UL_DTCH4,
    rlc_SizeList explicitList : { { rlc_SizeIndex 2 } },
    mac_LogicalChannelPriority 8
  },
}
}

```

4.9 Change 8

Test step	ts_RB_SubTest_RB24_FACH
Reason for change	In this test step instead of itsc_CellAî, itsc_CellDedicatedî needs to be used.
Summary of change	At row 1,2,4,5,6,9 replaced itsc_CellAî with itsc_CellDedicatedî.
Source of change	New change

Before:

1	AM ! RLC_AM_DATA_REQ	cas_TransportFormatCombCtrlAM (tsc_CellA, tsc_RB2, cbs_TransportFormatCombCtrl (tcv_CellIndInfo.d l_IntegrityCheckInfo, tcv_RRC_TI, p_TFC_UL))	Step 11
2	+ ts_TC_CloseUE_TestLoop (tsc_CellA) tsc_UE_TestL oopMode1, p_TestLoopModeSetup)		Steps 12-13
3	(tcv_RB_Data1 := o_GetMostSignificantBits (p_Data , p_DataLength))		
4	+ts_SS_TFC_Restriction_FACH (tsc_CellA, p_TFC_UL , p_TFC_DL)		
5	AM ! RLC_AM_TestDataReq START t_Dly	cas_RLC_AM_DataReq ((tsc_CellA) tsc_RB24, c _TrD_Data(tcv_RB_Data1))	Step 14
6	AM ? RLC_AM_TestDataInd CANCEL t_Dly	car_RLC_AM_DataInd ((tsc_CellA) tsc_RB24, c_T (P) rD_Data(tcv_RB_Data1))	Step 15
7	+ ts_TC_OpenUE_TestLoop(tsc_CellDedicated)		Step 16-17
8	?TIMEOUT t_Dly		(F)
9	+ ts_TC_OpenUE_TestLoop(tsc_CellA)		Step 16-17

After:

1	AM ! RLC_AM_DATA_REQ	cas_TransportFormatCombCtrlAM (tsc_CellDedicated, tsc_RB2, cbs_TransportFormatCombCtrl (tcv_CellIndInfo.d l_IntegrityCheckInfo, tcv_RRC_TI, p_TFC_UL))	Step 11
2	+ ts_TC_CloseUE_TestLoop (tsc_CellDedicated) tsc_ UE_TestLoopMode1, p_TestLoopModeSetup)		Steps 12-13
3	(tcv_RB_Data1 := o_GetMostSignificantBits (p_Data , p_DataLength))		
4	+ts_SS_TFC_Restriction_FACH (tsc_CellDedicated) p_ TFC_UL, p_TFC_DL)		
5	AM ! RLC_AM_TestDataReq START t_Dly	cas_RLC_AM_DataReq ((tsc_CellDedicated) tsc _RB24, c_TrD_Data(tcv_RB_Data1))	Step 14
6	AM ? RLC_AM_TestDataInd CANCEL t_Dly	car_RLC_AM_DataInd ((tsc_CellDedicated) tsc_F (P) B24, c_TrD_Data(tcv_RB_Data1))	Step 15
7	+ ts_TC_OpenUE_TestLoop(tsc_CellDedicated)		Step 16-17
8	?TIMEOUT t_Dly		(F)
9	+ ts_TC_OpenUE_TestLoop(tsc_CellDedicated)		Step 16-17

4.10 Change 9

Test step	ts_SS_DownloadSecurityKey
Reason for change	At row 3 and 12 check for cell state cell_FACH_3_SCCPCH_4_FACH_2a_Cnfg1 and cell_FACH_3_SCCPCH_4_FACH_2a_Cnfg2
Summary of change	At row 3 and 12 added check for the above cell states.
Source of change	New change

After:

1	+ ts_SetTmpCellInfo (p_CellId)		
2	[px_CipheringOnOff]		
3	<pre> [(tcv_TmpCellInfo.cellConfig = cell_FACH_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_NoDedicated) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_PS) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_BMC) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_BMC_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_2_PRACH_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_2_PRACH) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_2_SCCPCH_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_2_SCCPCH) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_2SCCPCH_StandAlonePCH_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_2SCCPCH_StandAlonePCH_2a) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_2SCCPCH_StandAlonePCH) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_2SCCPCH_StandAlonePCH_PS) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_4_FACH_Cnfg1_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_4_FACH_Cnfg2_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_3_FACH_CTCH_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_4_FACH_Cnfg1) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_4_FACH_Cnfg2) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_3_FACH_CTCH) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_3_FACH_2a_CTCH) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_4_FACH_2a_Cnfg1) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_4_FACH_2a_Cnfg2)] </pre>		Cell FACH
4	+ It_DownloadKeyCRLC (tcv_HFN, p_KC, p_IK)		
11	[NOT px_CipheringOnOff]		
12	<pre> [(tcv_TmpCellInfo.cellConfig = cell_FACH_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_NoDedicated) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_PS) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_BMC) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_BMC_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_2_PRACH_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_2_PRACH) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_2_SCCPCH_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_2_SCCPCH) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_2SCCPCH_StandAlonePCH_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_2SCCPCH_StandAlonePCH_2a) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_2SCCPCH_StandAlonePCH) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_2SCCPCH_StandAlonePCH_PS) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_4_FACH_Cnfg1_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_4_FACH_Cnfg2_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_3_FACH_CTCH_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_4_FACH_Cnfg1) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_4_FACH_Cnfg2) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_3_FACH_CTCH) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_3_FACH_2a_CTCH) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_4_FACH_2a_Cnfg1) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_4_FACH_2a_Cnfg2)] </pre>		Cell FACH @sic ER1926 sic@
13	+ It_DownloadKeyCRLC (tcv_HFN, OMIT, p_IK)		

4.11 Change 10

Test step	ts_RRC_ConnEst
Reason for change	Need to handle cell RB Config type cell_FACH_3_SCCPCH_4_FACH_2a_Cnfg1_NoConn and cell_FACH_3_SCCPCH_4_FACH_2a_Cnfg2_NoConn in this test step at row 10 and 16
Summary of change	<ol style="list-style-type: none"> Added RB Config type cell_FACH_3_SCCPCH_4_FACH_2a_Cnfg1_NoConn and cell_FACH_3_SCCPCH_4_FACH_2a_Cnfg2_NoConn at row 10. Changed Cell state to cell_FACH_3_SCCPCH_4_FACH_2a_Cnfg1 and cell_FACH_3_SCCPCH_4_FACH_2a_Cnfg2 at row 19 and 21.
Source of change	New change

Before:

10	[(tcv_TmpCellInfo.cellConfig = cell_FACH_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_BMC_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_2_PRACH_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_2_SCCPCH_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_2SCCPCH_StandAlonePCH_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_MAC_SRB_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_4_FACH_Cnfg1_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_4_FACH_Cnfg2_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_3_FACH_CTCH_NoConn)]			
11	UMIRLC_UM_DATA_REQ	cas_RRC_ConnSetup(p_CellId, tsc_RB0, cbs_108_RRC_ConnSetupFACH (tcv_InitialUE_Id, tcv_RRC_Ti, tcv_TmpCellInfo.priScrmCode , tcv_TmpCellInfo.uRNTI , tcv_TmpCellInfo.cRNTI, tcv_TmpCellInfo.uL_ScramblingCode))		
12	[tcv_TmpCellInfo.cellConfig = cell_FACH_NoConn]			
13	+ ts_SetCellCfg (p_CellId, cell_FACH)			1.

After:

It_Send_ConnSetup				
10	[(tcv_TmpCellInfo.cellConfig = cell_FACH_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_BMC_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_2_PRACH_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_2_SCCPCH_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_2SCCPCH_StandAlonePCH_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_MAC_SRB_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_4_FACH_Cnfg1_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_4_FACH_Cnfg2_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_3_FACH_CTCH_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_2SCCPCH_StandAlonePCH_2a_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_3_FACH_2a_CTCH_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_4_FACH_2a_Cnfg1_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_4_FACH_2a_Cnfg2_NoConn)]			
11	UMIRLC_UM_DATA_REQ	cas_RRC_ConnSetup(p_CellId, tsc_RB0, cbs_108_RRC_ConnSetupFACH (tcv_InitialUE_Id, tcv_RRC_Ti, tcv_TmpCellInfo.priScrmCode , tcv_TmpCellInfo.uRNTI , tcv_TmpCellInfo.cRNTI, tcv_TmpCellInfo.uL_ScramblingCode))		
12	[tcv_TmpCellInfo.cellConfig = cell_FACH_NoConn]			
13	+ ts_SetCellCfg (p_CellId, cell_FACH)			1.
14	[tcv_TmpCellInfo.cellConfig = cell_FACH_2SCCPCH_StandAlonePCH_2a_NoConn]			
15	+ ts_SetCellCfg (p_CellId, cell_FACH_2SCCPCH_StandAlonePCH_2a)			
16	[tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_3_FACH_2a_CTCH_NoConn]			
17	+ ts_SetCellCfg (p_CellId, cell_FACH_3_SCCPCH_3_FACH_2a_CTCH)			
18	[tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_4_FACH_2a_Cnfg1_NoConn]			
19	+ ts_SetCellCfg (p_CellId, cell_FACH_3_SCCPCH_4_FACH_2a_Cnfg1)			
20	[tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_4_FACH_2a_Cnfg2_NoConn]			
21	+ ts_SetCellCfg (p_CellId, cell_FACH_3_SCCPCH_4_FACH_2a_Cnfg2)			
22	[tcv_TmpCellInfo.cellConfig = cell_FACH_BMC_NoConn]			

4.12 Change 11

Test case Variable	ts_RRC_ReceiveConnSetupCmpl
Reason for change	At row 7 check for tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_4_FACH_2a_Cnfg1 and cell_FACH_3_SCCPCH_4_FACH_2a_Cnfg2 is missing
Summary of change	At row 7 added a check for tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_4_FACH_2a_Cnfg1 and cell_FACH_3_SCCPCH_4_FACH_2a_Cnfg2.
Source of change	New change

After:

6	+ It_GetHFN		
7	<pre> [(tcv_TmpCellInfo.cellConfig = cell_FACH_NoConn) OR (tcvc_TmpCellInfo.cellConfig = cell_FACH) OR (tcvc_TmpCellInfo.cellConfig = cell_FACH_BMC_NoConn) OR (tcvc_TmpCellInfo.cellConfig = cell_FACH_BMC) OR (tcvc_TmpCellInfo.cellConfig = cell_FACH_2_PRACH_NoConn) OR (tcvc_TmpCellInfo.cellConfig = cell_FACH_2_PRACH) OR (tcvc_TmpCellInfo.cellConfig = cell_FACH_2_SCCPCH_NoConn) OR (tcvc_TmpCellInfo.cellConfig = cell_FACH_2_SCCPCH) OR (tcvc_TmpCellInfo.cellConfig = cell_FACH_MAC_SRB_NoConn) OR (tcvc_TmpCellInfo.cellConfig = cell_FACH_MAC_SRB) OR (tcvc_TmpCellInfo.cellConfig = cell_FACH_MAC_SRB0_NoConn) OR (tcvc_TmpCellInfo.cellConfig = cell_FACH_MAC_SRB0) OR (tcvc_TmpCellInfo.cellConfig = cell_FACH_2SCCPCH_StandAlonePCH_NoConn) OR (tcvc_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_4_FACH_Cnfg1_NoConn) OR (tcvc_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_4_FACH_Cnfg1) OR (tcvc_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_4_FACH_Cnfg2_NoConn) OR (tcvc_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_4_FACH_Cnfg2) OR (tcvc_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_3_FACH_CTCH_NoConn) OR (tcvc_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_3_FACH_CTCH) OR (tcvc_TmpCellInfo.cellConfig = cell_FACH_2SCCPCH_StandAlonePCH_NoConn) OR (tcvc_TmpCellInfo.cellConfig = cell_FACH_2SCCPCH_StandAlonePCH) OR (tcvc_TmpCellInfo.cellConfig = cell_FACH_2SCCPCH_StandAlonePCH_2a) OR (tcvc_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_3_FACH_2a_CTCH) OR (tcvc_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_4_FACH_2a_Cnfg1) OR (tcvc_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_4_FACH_2a_Cnfg2)] </pre>		@sic D raft 14. 4.2.1 s ic@
8	START t_WaitMS		
9	TS ? TIMEOUT t_WaitMS		(F)
F2			

4.13 Change 12

Test case Variable	ts_SS_PrepareCellRRC_ConnEst
Reason for change	At row 2 check for tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_4_FACH_2a_Cnfg1_NoConn and cell_FACH_3_SCCPCH_4_FACH_2a_Cnfg2_NoConn is missing
Summary of change	At row 2 added a check for tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_4_FACH_2a_Cnfg1_NoConn and cell_FACH_3_SCCPCH_4_FACH_2a_Cnfg2_NoConn.
Source of change	New change

After:

1	+ ts_SetTmpCellInfo (p_CellId)		
2	<pre> [(tcv_TmpCellInfo.cellConfig = cell_DCH_StandAloneSRB_NoConn) OR (tcvc_TmpCellInfo.cellConfig = cell_FACH_NoConn) OR (tcvc_TmpCellInfo.cellConfig = cell_FACH_BMC_NoConn) OR (tcvc_TmpCellInfo.cellConfig = cell_FACH_2_PRACH_NoConn) OR (tcvc_TmpCellInfo.cellConfig = cell_FACH_2_SCCPCH_NoConn) OR (tcvc_TmpCellInfo.cellConfig = cell_FACH_2SCCPCH_StandAlonePCH_NoConn) OR (tcvc_TmpCellInfo.cellConfig = cell_FACH_2SCCPCH_StandAlonePCH_2a_NoConn) OR (tcvc_TmpCellInfo.cellConfig = cell_FACH_MAC_SRB_NoConn) OR (tcvc_TmpCellInfo.cellConfig = cell_DCH_MAC_SRB_NoConn) OR (tcvc_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_4_FACH_Cnfg1_NoConn) OR (tcvc_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_4_FACH_Cnfg2_NoConn) OR (tcvc_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_3_FACH_CTCH_NoConn) OR (tcvc_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_3_FACH_2a_CTCH_NoConn) OR (tcvc_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_4_FACH_2a_Cnfg1_NoConn) OR (tcvc_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_4_FACH_2a_Cnfg2_NoConn)] </pre>		0
3	[tcv_TmpCellInfo.cellConfig = cell_NoDPCH]		1

4.14 Change 13

Test case Variable	ts_GMM_IdleUpdated
Reason for change	At row 117 check for tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_4_FACH_2a_Cnfg1 and cell_FACH_3_SCCPCH_4_FACH_2a_Cnfg2 is missing
Summary of change	At row 117 added a check for tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_4_FACH_2a_Cnfg1 and cell_FACH_3_SCCPCH_4_FACH_2a_Cnfg2.

Source of change	New change
------------------	------------

After:

It_RRC_ConnRel			
11	[(tcv_TmpCellInfo.cellConfig = cell_FACH) OR		
7	(tcv_TmpCellInfo.cellConfig = cell_FACH_2SCCPCH_StandAlonePCH) OR		
	(tcv_TmpCellInfo.cellConfig = cell_FACH_2SCCPCH_StandAlonePCH_2a) OR		
	(tcv_TmpCellInfo.cellConfig = cell_FACH_2_PRACH) OR		
	(tcv_TmpCellInfo.cellConfig = cell_FACH_2_SCCPCH)OR		
	(tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_4_FACH_Cnfg1) OR		
	(tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_4_FACH_Cnfg2)OR		
	(tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_3_FACH_CTCH) OR		
	(tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_3_FACH_2a_CTCH) OR		
	(tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_4_FACH_2a_Cnfg1) OR		
	(tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_4_FACH_2a_Cnfg2)]		
11	+ ts_RRC_ConnRel (p_CellId, cell_Fach_Dcch)		
8			
11	[tcv_TmpCellInfo.cellConfig <=> cell_FACH]		
9			

4.15 Change 14

Test step	po_ConnectionAndSS_Rel
Reason for change	At row 6 check for tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_4_FACH_2a_Cnfg1_NoConn and cell_FACH_3_SCCPCH_4_FACH_2a_Cnfg2_NoConn and at row 8 check for tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_4_FACH_2a_Cnfg1 and cell_FACH_3_SCCPCH_4_FACH_2a_Cnfg2 needs to be added.
Summary of change	At row 6 and 8 check above Cell Config type is added.
Source of change	New change

After:

It_Send_RRC_ConnectionRelease			
6	[(tcv_TmpCellInfo.cellConfig = cell_DCH_StandAloneSRB_NoConn) OR		3.
	(tcv_TmpCellInfo.cellConfig = cell_FACH_NoConn) OR		
	(tcv_TmpCellInfo.cellConfig = cell_FACH_BMC_NoConn) OR		
	(tcv_TmpCellInfo.cellConfig = cell_NoDPCH) OR		
	(tcv_TmpCellInfo.cellConfig = cell_FACH_NoDedicated) OR		
	(tcv_TmpCellInfo.cellConfig = cell_FACH_2_PRACH_NoConn) OR		
	(tcv_TmpCellInfo.cellConfig = cell_FACH_2_SCCPCH_NoConn) OR		
	(tcv_TmpCellInfo.cellConfig = cell_FACH_2SCCPCH_StandAlonePCH_NoConn) OR		
	(tcv_TmpCellInfo.cellConfig = cell_FACH_2SCCPCH_StandAlonePCH_2a_NoConn) OR		
	(tcv_TmpCellInfo.cellConfig = cell_FACH_MAC_SRB_NoConn) OR		
	(tcv_TmpCellInfo.cellConfig = cell_DCH_MAC_SRB_NoConn) OR		
	(tcv_TmpCellInfo.cellConfig = cell_FACH_MAC_SRB0_NoConn) OR		
	(tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_4_FACH_Cnfg1_NoConn) OR		
	(tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_4_FACH_Cnfg2_NoConn) OR		
	(tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_3_FACH_CTCH_NoConn) OR		
	(tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_3_FACH_2a_CTCH_NoConn) OR		
	(tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_4_FACH_2a_Cnfg1_NoConn) OR		
	(tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_4_FACH_2a_Cnfg2_NoConn)]		
7	[TRUE]		4.
8	[(tcv_TmpCellInfo.cellConfig = cell_FACH) OR		1.@sic
	(tcv_TmpCellInfo.cellConfig = cell_FACH_PS) OR		Draft 1
	(tcv_TmpCellInfo.cellConfig = cell_FACH_BMC) OR		4.4.2.1
	(tcv_TmpCellInfo.cellConfig = cell_FACH_2_PRACH) OR		sic@
	(tcv_TmpCellInfo.cellConfig = cell_FACH_2_SCCPCH) OR		
	(tcv_TmpCellInfo.cellConfig = cell_FACH_MAC_SRB) OR		
	(tcv_TmpCellInfo.cellConfig = cell_FACH_MAC_SRB0) OR		
	(tcv_TmpCellInfo.cellConfig = cell_FACH_2SCCPCH_StandAlonePCH)OR		
	(tcv_TmpCellInfo.cellConfig = cell_FACH_2SCCPCH_StandAlonePCH_2a) OR		
	(tcv_TmpCellInfo.cellConfig = cell_FACH_2SCCPCH_StandAlonePCH_PS_2a) OR		
	(tcv_TmpCellInfo.cellConfig = cell_FACH_2SCCPCH_StandAlonePCH_PS)OR		
	(tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_4_FACH_Cnfg1) OR		
	(tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_4_FACH_Cnfg2)OR		
	(tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_3_FACH_CTCH) OR		
	(tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_3_FACH_2a_CTCH) OR		
	(tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_4_FACH_2a_Cnfg1) OR		
	(tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_4_FACH_2a_Cnfg2)]		

4.16 Change 15

Test step	ts_RRC_ConnRel
Reason for change	At row 39 check for tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_4_FACH_2a_Cnfg1 and cell_FACH_3_SCCPCH_4_FACH_2a_Cnfg2 needs to be added.
Summary of change	At row 39 check for tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_4_FACH_2a_Cnfg1 and cell_FACH_3_SCCPCH_4_FACH_2a_Cnfg2 is added.
Source of change	New change

After:

37	+ ts_CRLC_RelReconfSRB (p_CellId)			
38	+ ts_SetCellCfg (p_CellId, cell_FACH_3_SCCPCH_3_FACH_2a_CTCH_NoConn)			
39	[tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_4_FACH_2a_Cnfg1]			
40	+ ts_CRLC_RelReconfSRB (p_CellId)			
41	+ ts_SetCellCfg (p_CellId, cell_FACH_3_SCCPCH_4_FACH_2a_Cnfg1_NoConn)			
42	[tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_4_FACH_2a_Cnfg2]			
43	+ ts_CRLC_RelReconfSRB (p_CellId)			
44	+ ts_SetCellCfg (p_CellId, cell_FACH_3_SCCPCH_4_FACH_2a_Cnfg2_NoConn)			

4.17 Change 16

Test step	ts_RRC_ConnRel_AfterSwitchOff
Reason for change	At row 39 check for tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_4_FACH_2a_Cnfg1 and cell_FACH_3_SCCPCH_4_FACH_2a_Cnfg2 needs to be added.
Summary of change	At row 39 check for tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_4_FACH_2a_Cnfg1 and cell_FACH_3_SCCPCH_4_FACH_2a_Cnfg2 is added.
Source of change	New change

After:

37	+ ts_CRLC_RelReconfSRB (p_CellId)			
38	+ ts_SetCellCfg (p_CellId, cell_FACH_3_SCCPCH_3_FACH_2a_CTCH_NoConn)			
39	[tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_4_FACH_2a_Cnfg1]			
40	+ ts_CRLC_RelReconfSRB (p_CellId)			
41	+ ts_SetCellCfg (p_CellId, cell_FACH_3_SCCPCH_4_FACH_2a_Cnfg1_NoConn)			
42	[tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_4_FACH_2a_Cnfg2]			
43	+ ts_CRLC_RelReconfSRB (p_CellId)			
44	+ ts_SetCellCfg (p_CellId, cell_FACH_3_SCCPCH_4_FACH_2a_Cnfg2_NoConn)			

4.18 Change 17

Test step	ts_SS_TFC_Restriction_FACH
Reason for change	At row 1 check for cell_FACH_3_SCCPCH_4_FACH_2a_Cnfg1 and at row 5 check for cell_FACH_3_SCCPCH_4_FACH_2a_Cnfg2 needs to be added.
Summary of change	Added Check at row 1 and 5.
Source of change	New change

After:

1	[(tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_4_FACH_Cnfg1) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_3_FACH_CTCH) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_3_FACH_2a_CTCH) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_4_FACH_2a_Cnfg1)]		
2	CMAC ! CMAC_Restriction_REQ	ca_CMAC_RestrictReq(p_cellId,tsc_S_CCPCH3, c_TFC_Restriction_DL(p_TFC_DL))	
3	CMAC ? CMAC_Restriction_CNF	ca_CMAC_RestrictCnf(p_cellId,tsc_S_CCPC H3)	
4	+It_UL_Restrict		
5	[(tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_4_FACH_Cnfg2) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_2SCCPCH_StandAlonePCH_PS) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_2SCCPCH_StandAlonePCH_PS_2a) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_4_FACH_2a_Cnfg2)]		
6	CMAC ! CMAC_Restriction_REQ	ca_CMAC_RestrictReq(p_cellId,tsc_S_CCP CH2, c_TFC_Restriction_DL(p_TFC_DL))	
7	CMAC ? CMAC_Restriction_CNF	ca_CMAC_RestrictCnf(p_cellId,tsc_S_CCPC H2)	

4.19 Change 18

Test step	ts_RRC_ReceiverRB_SetupCmpl
Reason for change	At row 46 check for cell_FACH_3_SCCPCH_4_FACH_2a_Cnfg2 is incorrect as for this RB Config type RB created are RB 20 and RB24. Thus a check for this RB Config Type is required at row 56.
Summary of change	Removed check at row 46 and added at row 56.
Source of change	New change

Before:

46	[(p_RbType = cell_PDCP_AM_UM_RAB) OR (p_RbType = cell_FACH_3_SCCPCH_4_FACH_2a_Cnfg2)]		@sic New RAB config sic@
47	+ It_CRLC_SecurityConfig (tcv_CellIndInfo.start_PS, p_KC)		
48	(tcv_RLC_SeqNumDL_RB20 := 0, tcv_RLC_SeqNumDL_RB21 := 0)		
49	+ ts_CRLC_DL_CipherCfgRB (tcv_CellIndInfo.dL_CipherMode , p_RbType ,notInc)		@sic T1-031732 sic@
50	+ ts_CRLC_UL_CipherCfg_RAB (tcv_CN_Domain,cs_RB_ActTimeInfoList20_21 (0, 0),notInc)		@sic T1-031732 sic@
51	[(p_RbType = cell_PDCP_UM_RAB)]		
52	+ It_CRLC_SecurityConfig (tcv_CellIndInfo.start_PS, p_KC)		
53	(tcv_RLC_SeqNumDL_RB21 := 0)		
54	+ ts_CRLC_DL_CipherCfgRB (tcv_CellIndInfo.dL_CipherMode , p_RbType ,notInc)		@sic T1-031732 sic@
55	+ ts_CRLC_UL_CipherCfg_RAB (tcv_CN_Domain,cs_RB_ActTimeInfoList21 (0),notInc)		@sic T1-031732 sic@
56	[(p_RbType = cell_FACH_3_SCCPCH_3_FACH_2a_CTCH) OR (p_RbType = cell_FACH_3_SCCPCH_4_FACH_2a_Cnfg1) OR (p_RbType = cell_FACH_2SCCPCH_StandAlonePCH_PS_2a)]		@sic New RAB config sic@
57	+ It_CRLC_SecurityConfig (tcv_CellIndInfo.start_PS, p_KC)		
58	(tcv_RLC_SeqNumDL_RB20 := 0, tcv_RLC_SeqNumDL_RB24 := 0)		
59	+ ts_CRLC_DL_CipherCfgRB (tcv_CellIndInfo.dL_CipherMode , p_RbType ,notInc)		
60	+ ts_CRLC_UL_CipherCfg_RAB (tcv_CN_Domain,cs_RB_ActTimeInfoList20_24 (0, 0),notInc)		

After:

46	[(p_RbType = cell_PDCP_AM_UM_RAB)]		@sic New RAB config sic@
47	+ It_CRLC_SecurityConfig (tcv_CellIndInfo.start_PS, p_KC)		
48	(tcv_RLC_SeqNumDL_RB20 := 0, tcv_RLC_SeqNumDL_RB21 := 0)		
49	+ ts_CRLC_DL_CipherCfgRB (tcv_CellIndInfo.dL_CipherMode , p_RbType ,notInc)		@sic T1-031732 sic@
50	+ ts_CRLC_UL_CipherCfg_RAB (tcv_CN_Domain,cs_RB_ActTimeInfoList20_21 (0, 0),notInc)		@sic T1-031732 sic@
51	[(p_RbType = cell_PDCP_UM_RAB)]		
52	+ It_CRLC_SecurityConfig (tcv_CellIndInfo.start_PS, p_KC)		
53	(tcv_RLC_SeqNumDL_RB21 := 0)		
54	+ ts_CRLC_DL_CipherCfgRB (tcv_CellIndInfo.dL_CipherMode , p_RbType ,notInc)		@sic T1-031732 sic@
55	+ ts_CRLC_UL_CipherCfg_RAB (tcv_CN_Domain,cs_RB_ActTimeInfoList21 (0),notInc)		@sic T1-031732 sic@
56	[(p_RbType = cell_FACH_3_SCCPCH_3_FACH_2a_CTCH) OR (p_RbType = cell_FACH_3_SCCPCH_4_FACH_2a_Cnfg1) OR (p_RbType = cell_FACH_3_SCCPCH_4_FACH_2a_Cnfg2) OR (p_RbType = cell_FACH_2SCCPCH_StandAlonePCH_PS_2a)]		@sic New RAB config sic@
57	+ It_CRLC_SecurityConfig (tcv_CellIndInfo.start_PS, p_KC)		
58	(tcv_RLC_SeqNumDL_RB20 := 0, tcv_RLC_SeqNumDL_RB24 := 0)		
59	+ ts_CRLC_DL_CipherCfgRB (tcv_CellIndInfo.dL_CipherMode , p_RbType ,notInc)		
60	+ ts_CRLC_UL_CipherCfg_RAB (tcv_CN_Domain,cs_RB_ActTimeInfoList20_24 (0, 0),notInc)		

4.20 Change 19

Test step	ts_CRLC_DL_CipherCfgRB
Reason for change	At row 5 check for cell_FACH_3_SCCPCH_4_FACH_2a_Cnfg2 is incorrect as for this RB Config type RB created are RB 20 and RB24. Thus a check for this RB Config Type is required at row 11.
Summary of change	Removed check at row 5 and added at row 11.
Source of change	New change

Before:

5	[(p_RbType = cell_PDCP_AM_UM_RAB) OR (p_RbType = cell_FACH_3_SCCPCH_4_FACH_2a_Cnfg2)]	@sic New RAB config sic@
6	+ It_RLC_Activate (tsc_RB20, tcv_RLC_SeqNumDL_RB20)	
7	+ It_RLC_Activate (tsc_RB21, tcv_RLC_SeqNumDL_RB21)	
8	[(p_RbType = cell_DCH_2AM_PS) OR (p_RbType = cell_DCH_2_PS_Call)]	
9	+ It_RLC_Activate (tsc_RB20, tcv_RLC_SeqNumDL_RB20)	
10	+ It_RLC_Activate (tsc_RB22, tcv_RLC_SeqNumDL_RB22)	
11	[(p_RbType = cell_FACH_3_SCCPCH_3_FACH_2a_CTCH) OR (p_RbType = cell_FACH_3_SCCPCH_4_FACH_2a_Cnfg1) OR (p_RbType = cell_FACH_2SCCPCH_StandAlonePCH_PS_2a)]	@sic New RAB config sic@
12	+ It_RLC_Activate (tsc_RB20, tcv_RLC_SeqNumDL_RB20)	
13	+ It_RLC_Activate (tsc_RB24, tcv_RLC_SeqNumDL_RB24)	

After:

5	[(p_RbType = cell_PDCP_AM_UM_RAB)]	@sic New RAB config sic@
6	+ It_RLC_Activate (tsc_RB20, tcv_RLC_SeqNumDL_RB20)	
7	+ It_RLC_Activate (tsc_RB21, tcv_RLC_SeqNumDL_RB21)	
8	[(p_RbType = cell_DCH_2AM_PS) OR (p_RbType = cell_DCH_2_PS_Call)]	
9	+ It_RLC_Activate (tsc_RB20, tcv_RLC_SeqNumDL_RB20)	
10	+ It_RLC_Activate (tsc_RB22, tcv_RLC_SeqNumDL_RB22)	
11	[(p_RbType = cell_FACH_3_SCCPCH_3_FACH_2a_CTCH) OR (p_RbType = cell_FACH_3_SCCPCH_4_FACH_2a_Cnfg1) OR (p_RbType = cell_FACH_3_SCCPCH_4_FACH_2a_Cnfg2) OR (p_RbType = cell_FACH_2SCCPCH_StandAlonePCH_PS_2a) OR (p_RbType = cell_FACH_3_SCCPCH_3_FACH_2a_CTCH)]	@sic New RAB config sic@
12	+ It_RLC_Activate (tsc_RB20, tcv_RLC_SeqNumDL_RB20)	
13	+ It_RLC_Activate (tsc_RB24, tcv_RLC_SeqNumDL_RB24)	

4.21 Change 20

Test step	ts_SS_Rel
Reason for change	At row 287 cell ID used for the release of tsc_RB29 should be CellId_A instead of tsc_CellDedicated
Summary of change	At row 287 replaced tsc_CellDedicated with ip_CellId
Source of change	New change

Before:

281	[(tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_4_FACH_2a_Cnfg1_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_4_FACH_2a_Cnfg1) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_4_FACH_2a_Cnfg2_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_4_FACH_2a_Cnfg2)]	@sic New RAB complete a ddition sic@
282	+ It_RelSRB1_4	
283	+ ts_CRLC_Rel (tsc_CellDedicated, tsc_RB20)	
284	+ ts_CRLC_Rel (tsc_CellDedicated, tsc_RB22)	
285	+ ts_CRLC_Rel (tsc_CellDedicated, tsc_RB23)	
286	+ ts_CRLC_Rel (tsc_CellDedicated, tsc_RB24)	
287	+ ts_CRLC_Rel (tsc_CellDedicated, tsc_RB29)	
288	+ ts_CRLC_Rel (p_CellId, tsc_RB_BCCH_FACH)	

After:

281	[(tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_4_FACH_2a_Cnfg1_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_4_FACH_2a_Cnfg1) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_4_FACH_2a_Cnfg2_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_4_FACH_2a_Cnfg2)]		@sic New RAB complete addition sic@
282	+ It_RelSRB1_4		
283	+ ts_CRLC_Rel (tsc_CellDedicated, tsc_RB20)		
284	+ ts_CRLC_Rel (tsc_CellDedicated, tsc_RB22)		
285	+ ts_CRLC_Rel (tsc_CellDedicated, tsc_RB23)		
286	+ ts_CRLC_Rel (tsc_CellDedicated, tsc_RB24)		
287	+ ts_CRLC_Rel (p_CellId, tsc_RB29)		
288	+ ts_CRLC_Rel (p_CellId, tsc_RB_BCCH_FACH)		

Branches executed in test case 14.4.2a.2

The test case implementation executed the combined CS/PS branch with integrity activated and ciphering disabled.

5 Execution Log Files

5.1 Nokia 6630

The Nokia 6630 passed this test case on the Anite 3G U-SAT system. The documentation below is enclosed as evidence of the successful test case run [1]:

➤ **Test Case Execution log file tc_14_4_2a_2_Nokia.txt:**

In the log file (in txt format) the complete test case execution can be seen. All message contents are fully decoded and can be verified. Preliminary verdicts and the final test case verdict can be seen in the log file.

5.2 Motorola A835

The Motorola A835 passed this test case on the Anite 3G U-SAT system. The documentation below is enclosed as evidence of the successful test case run [1]:

➤ **Test Case Execution log file tc_14_4_2a_2_Motorola.txt:**

In the log file (in txt format) the complete test case execution can be seen. All message contents are fully decoded and can be verified. Preliminary verdicts and the final test case verdict can be seen in the log file.

6 References

- [1] **T1s040625:** This archive comprises text format execution log file and the TTCN MP file.

CR-Form-v7	
<h2 style="margin: 0;">CHANGE REQUEST</h2>	
# 34.123-3 CR 1081 # rev - #	Current version: 3.7.0 #

For **HELP** on using this form, see bottom of this page or look at the pop-up text over the # symbols.

Proposed change affects: UICC apps ME Radio Access Network Core Network

Title:	# Addition of RAB Package 4 test case 14.4.2a.1 to RAB ATS V3.7.0		
Source:	# Anite		
Work item code:	# N/A	Date:	# 27/09/04
Category:	# B	Release:	# R99
	Use <u>one</u> of the following categories:		Use <u>one</u> of the following releases:
	F (correction)		2 (GSM Phase 2)
	A (corresponds to a correction in an earlier release)	R96 (Release 1996)	
	B (addition of feature),	R97 (Release 1997)	
	C (functional modification of feature)	R98 (Release 1998)	
	D (editorial modification)	R99 (Release 1999)	
	Detailed explanations of the above categories can be found in 3GPP TR 21.900 .		Rel-4 (Release 4)
			Rel-5 (Release 5)
			Rel-6 (Release 6)

Reason for change:	# To add verified GCF package 4 RAB test case 14.4.2a.1 to the approved RAB ATS V3.7.0
Summary of change:	# This document lists all changes applied to test case 14.4.2a.1 required for approval. See detailed change description for further information.
Consequences if not approved:	# Test case will not be added to ATS

Clauses affected:	#					
Other specs affected:	#					
	<table border="1" style="display: inline-table; border-collapse: collapse; text-align: center;"> <tr> <td style="width: 20px;">Y</td> <td style="width: 20px;">N</td> </tr> <tr> <td><input type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> </tr> </table> Other core specifications	Y	N	<input type="checkbox"/>	<input checked="" type="checkbox"/>	#
Y	N					
<input type="checkbox"/>	<input checked="" type="checkbox"/>					
	<input checked="" type="checkbox"/> Test specifications	#				
	<input checked="" type="checkbox"/> O&M Specifications	#				
Other comments:	#					

How to create CRs using this form:

Comprehensive information and tips about how to create CRs can be found at <http://www.3gpp.org/specs/CR.htm>. Below is a brief summary:

- 1) Fill out the above form. The symbols above marked # contain pop-up help information about the field that they are closest to.
- 2) Obtain the latest version for the release of the specification to which the change is proposed. Use the MS Word "revision marks" feature (also known as "track changes") when making the changes. All 3GPP specifications can be downloaded from the 3GPP server under <ftp://ftp.3gpp.org/specs/> For the latest version, look for the directory name with the latest date e.g. 2001-03 contains the specifications resulting from the March 2001 TSG meetings.

- 3) With "track changes" disabled, paste the entire CR form (use CTRL-A to select it) into the specification just in front of the clause containing the first piece of changed text. Delete those parts of the specification which are not relevant to the change request.

Title: Changes to test case 14.4.2a.1 required for approval
Source: Anite
Agenda Item: TTCN Issues
Document for: Approval
Contact: Philip Rose
phil.rose @anite.com
Tel. +44 1252 775200

1 Overview

This document lists all the changes needed to correct problems in the TTCN implementation of test case 14.4.2a.1, which is part of the RAB test suite. Only essential changes to the TTCN are applied and documented in section 4.

With these changes applied the test case can be demonstrated to run with one or more 3G UEs (see section 6). Execution log files are provided as evidence.

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3 Verification Test Summary

Test Case: tc_14_4_2a_1
Test Group: RAB/CombinationsOnSCCPCH
ATS Version: iWD-TVB2003-03_D04wk37 + essential modifications
System Simulator used: Anite 3G U-SAT
UE used: Nokia 6630, Sony Ericsson Z1010
Verification Status: PASS

4 Corrections required for test case 14.4.2a.1

4.1 Introduction

This section describes the changes required to make test case 14.4.2a.1 run correctly with a 3G UE. The ATS version used as basis was RAB_wk37.mp, which is part of the iWD-TVB2003-03_D04wk37 release.

The enclosed MP file contains a number of additional changes in common test steps which are required for other test cases, but which are not applicable to test case 14.4.2a.1. (T1s040624, T1s040626)

4.2 Change 1

Test step name	tc_14_4_2a_1
Reason for change	<ol style="list-style-type: none">1. According to 3GPP TS 34.123-1 RAB created should be of Interactive or Background type. In the current TTCN implementation only Interactive type is created.2. Test Step ts_RB_InitTest_2aSCCPCH always create Interactive type RAB.3. The CRNTI used in Radio Bearer Setup message sent from Test Step ts_SendRB_SetUp_FACH_2SCCPCH_32k_2a is not as per 34.108 default content for Radio Bearer Setup Message.4. The TFC list (c_TFC_Allowed_0_3) used for DL SS restriction is wrong.5. In the TTCN, tcv_CN_Domain is assigned based on the PIXIT px_CN_DomainTested in the test step ts_AssignCN_Domain. As this test case configures PS RAB, tcv_CN_Domain should be assigned to ps_domain independent of PIXIT px_CN_DomainTested.6. Test Step ts_CalculateActTime is called to calculate Activation Time. The calculated activation time is not used in the test case. Thus call to this test step can be removed.
Summary of change	<ol style="list-style-type: none">1. Added local trees It_Interactive and It_Background to create Interactive and Background type RAB based on the pc_Interactive and pc_Background.2. Test step ts_RB_InitTest_2aSCCPCH is parameterised to take PagingCause and EstablishmentCause as an input parameter in order to create Interactive and Background RAB. The correct parameters are passed from It_Interactive and It_Background.3. Updated the value of Cell CRNTI with tsc_New_CRNTI ('1010101010101010'B), which will be used while sending the Radio Bearer Setup message to the Mobile in localtree It_Interactive and It_Background.4. In It_Interactive added test steps ts_RRC_ConnRel and ts_GMM_DetachOnSwitchOff to handle Detach from the UE during power off after execution for Interactive RAB.5. Changed the TFC list to c_TFC_Allowed_0_1_3 to be used for DL SS restriction.6. At row 3 of the TTCN, instead of using test step ts_AssignCN_Domain, tcv_CN_Domain is assigned to ps_domain.

	7. Removed call to test step ts_CalculateActTime from the test case body.
Source of change	New change

Before:

1	START t_Guard(300)		
2	+ts_InitVariables		
3	+ts_AssignCN_Domain		Sets domain for testing
4	+ts_RB_InitTest_2aSCCPCH		Configure SS and Activate the test mode
5	+ ts_CalculateActTime (tsc_CellA)		
6	+ts_SendRB_SetUp_FACH_2SCCPCH_32k_2a (tsc_CellA, tsc_RAB_DefPS, tsc_RAB2_DefPS, tcv_ActTime)		
7	+ ts_SetCellCfg (tsc_CellA, cell_FACH_2SCCPCH_StandAlonePCH_PS_2a)		
8	+ ts_RB_SubTest_RB20_FACH(tsc_RB_TestData_3024, c_TFC_Allowed_0_1, c_TFC_Allowed_0_3, c_UE_TestLoopMode1_LB_Setup (312, tsc_RB20), 312)		
9	+ ts_RB_SubTest_RB24_FACH(tsc_RB_TestData_3024, c_TFC_Allowed_0_1, c_TFC_Allowed_0_3, c_UE_TestLoopMode1_LB_Setup (312, tsc_RB24), 312)		
10	TBE1 (tcv_TestBody := FALSE)		
11	+ ts_TC_DeactivateRB_TestMode (tsc_CellA)		Steps 20-21
12	+ po_ConnectionAndSS_Rel (tsc_CellA)		

After:

1	START t_Guard(300)		
2	+ts_InitVariables		
3	(tcv_CN_Domain :=ps_domain)		Sets domain for testing
4	+It_Interactive		
5	+It_Background		
It_Interactive			
6	[pc_Interactive]		
7	+ts_RB_InitTest_2aSCCPCH(terminatingInteractiveCall,terminatingInteractiveCall)		Configure SS and Activate the test mode
8	(tcv_CellInfoAcRNTI := tsc_New_CRNTI2)		
9	+ts_SendRB_SetUp_FACH_2SCCPCH_32k_2a (tsc_CellA, tsc_RAB_DefPS, tsc_RAB2_DefPS, tcv_ActTime)		
10	+ ts_SetCellCfg (tsc_CellA, cell_FACH_2SCCPCH_StandAlonePCH_PS_2a)		
11	+ ts_RB_SubTest_RB20_FACH(tsc_RB_TestData_3024, c_TFC_Allowed_0_1, c_TFC_Allowed_0_1_3, c_UE_TestLoopMode1_LB_Setup (312, tsc_RB20), 312)		
12	+ ts_RB_SubTest_RB24_FACH(tsc_RB_TestData_3024, c_TFC_Allowed_0_1, c_TFC_Allowed_0_1_3, c_UE_TestLoopMode1_LB_Setup (312, tsc_RB24), 312)		
13	TBE1 (tcv_TestBody := FALSE)		
14	+ ts_TC_DeactivateRB_TestMode (tsc_CellA)		Steps 20-21
15	+ts_RRC_ConnRel (tsc_CellA, cell_Fach_Dch)		
16	+ts_GMM_DetachOnSwitchOff(tsc_CellA)		
17	+ po_ConnectionAndSS_Rel (tsc_CellA)		
18	[TRUE]		
It_Background			
19	[pc_Background]		
20	+ts_RB_InitTest_2aSCCPCH(terminatingBackgroundCall,terminatingBackgroundCall)		Configure SS and Activate the test mode
21	(tcv_CellInfoAcRNTI := tsc_New_CRNTI2)		
22	+ts_SendRB_SetUp_FACH_2SCCPCH_32k_2a (tsc_CellA, tsc_RAB_DefPS, tsc_RAB2_DefPS, tcv_ActTime)		
23	+ ts_SetCellCfg (tsc_CellA, cell_FACH_2SCCPCH_StandAlonePCH_PS_2a)		
24	+ ts_RB_SubTest_RB20_FACH(tsc_RB_TestData_3024, c_TFC_Allowed_0_1, c_TFC_Allowed_0_1_3, c_UE_TestLoopMode1_LB_Setup (312, tsc_RB20), 312)		
25	+ ts_RB_SubTest_RB24_FACH(tsc_RB_TestData_3024, c_TFC_Allowed_0_1, c_TFC_Allowed_0_1_3, c_UE_TestLoopMode1_LB_Setup (312, tsc_RB24), 312)		
26	TBE1 (tcv_TestBody := FALSE)		
27	+ ts_TC_DeactivateRB_TestMode (tsc_CellA)		Steps 20-21
28	+ po_ConnectionAndSS_Rel (tsc_CellA)		
29	[TRUE]		

4.3 Change 2

Test step	ts_RB_InitTest_2aSCCPCH
Reason for change	<ol style="list-style-type: none"> 1. Test Step ts_RB_InitTest_2aSCCPCH always create Interactive type RAB. 2. As per 34.123-3 in case of 2 SCPPCH SIB scheduling used be as per section 8.4.4.1. Please refer to attached Draft Prose CR for the same(T1-041512). 3. Wrong RB ID for PCCH is used for this test case while sending Paging message..
Summary of change	<ol style="list-style-type: none"> 1. Test step ts_RB_InitTest_2aSCCPCH is parameterised to take PagingCause and EstablishmentCause as an input parameter and the same is passed to test step ts_RRC_PagType1_P_TMSI_Cause and ts_RRC_ConnEst as input parameter at

	<p>row 6 and 7 respectively</p> <ol style="list-style-type: none">2. At row 3 use step ts_SendSysInfo_2SCCPCH in place of ts_SendSysInfoWithSpecialSIB5_And6.3. At row 6 instead of tsc_RB_PCCH use tsc_RB_PCCH2 to send the Paging Type 1 message.
Source of change	New change

Before:

Test Step Id:	ts_RB_InitTest_2aSCCPCH
Test Step Group Ref:	RB_Steps/Initialization/
Objective:	To setup the environment for PS test cases
Defaults:	RRC_Def1
Comments:	@SIC_NAPP

I...	L...	Behaviour Description	Constraint Ref	...	Comments
0		+ts_SS_CreateCell2_SCCPCH_StandAlonePCH_2a (tsc_CellA)			Configuration has to be changed
1		+ ts_SetTmpCellInfo (tsc_CellA)			Fetch record corresponding to current cell
2		+ts_SendSysInfoWithSpecialSIB5_And6(tsc_CellA,cb_SIB5_Def_2SCCPCH(tcv_TmpCellInfo),cb_SIB6_Def_2SCCPCH(tcv_TmpCellInfo))			
3		+ ts_IdleUpdated (tsc_CellA)			
4	TBS	(tcv_TestBody:=TRUE)			
5		+ts_RRC_PagType1_P_TMSI_Cause (tsc_CellA, px_PTMSI_Def, terminatingInteractiveCall,tsc_RB_PCCH)			
6		+ ts_RRC_ConnEst (tsc_CellA, est_MT, terminatingInteractiveCall)			Steps 2-5
7		Dc?RRC_DataInd (tcv_Start := RRC_DataInd.start)	car_PS_InitDirectTransfer (tsc_CellDedicated, tsc_RB3, cr_ServiceRequest(c_ServiceType_v('010'B), c_MobileIDPTMSI_lv(tcv_AssignedPTMSI), ?))		Step 6
8		(tcv_CellIndInfo.start_PS := tcv_Start)			
9		+ts_SS_SecurityDownloadStart (ps_domain, tcv_Start)			
10		+ts_RRC_Security (tsc_CellA, tcv_PS_AuthCK, tcv_PS_AuthIK, tcv_AuthKcGSM, FALSE, ps_domain)			SECURITY MODE COMMAND SECURITY MODE COMPLETE
11		+ ts_TC_ActivateRB_TestMode (tsc_CellDedicated)			Steps 7-8

After:

Test Step Id:	ts_RB_InitTest_2aSCCPCH(p_PagCause: PagingCause; p_EstCause: EstablishmentCause)
Test Step Group Ref:	RB_Steps/Initialization/
Objective:	To setup the environment for PS test cases
Defaults:	RRC_Def1
Comments:	@SIC_NAPP

Nr	La...	Behaviour Description	Constraint Ref	...	Comments
1		+ts_SS_CreateCell2_SCCPCH_StandAlonePCH_2a (tsc_CellA)			Configuration has to be changed
2		+ ts_SetTmpCellInfo (tsc_CellA)			Fetch record corresponding to current cell
3		+ts_SendSysInfo_2SCCPCH(tsc_CellA,cb_SIB5_Def_2SCCPCH(tcv_TmpCellInfo))			
4		+ ts_IdleUpdated (tsc_CellA)			
5	TBS	(tcv_TestBody:=TRUE)			
6		+ts_RRC_PagType1_P_TMSI_Cause (tsc_CellA, px_PTMSI_Def,p_PagCause,tsc_RB_PCCH2)			
7		+ ts_RRC_ConnEst (tsc_CellA, est_MT, p_EstCause)			Steps 2-5
8		Dc?RRC_DataInd (tcv_Start := RRC_DataInd.start)	car_PS_InitDirectTransfer (tsc_CellDedicated, tsc_RB3, cr_ServiceRequest(c_ServiceType_v('010'B), c_MobileIDPTMSI_lv(tcv_AssignedPTMSI), ?))		Step 6

4.4 Change 3

Test step	ts_SS_2FACH_CCCH_DCCH_BCCH_DTCH_Cfg_2a
Reason for change	In case the SCCPCH carrying FACH only, PICH is also configured. This is not

	required.
Summary of change	Removed configuration for tsc_PICH2 for tsc_S_CCPCH2 from row 9 and 10.
Source of change	New change

Before:

8		CMAC ? CMAC_Config_CNF	ca_CMAC_CfgCnf(p_CellId, tsc_S_CCPCH2)	
9		CPHY?CPHY_RL_Setup_REQ	ca_PICH_Info2 (p_CellId, c_PichInfo, (tcv_TmpCellInfo.powerPICH),tsc_S_CCPCH2)	PICH
10		CPHY?CPHY_RL_Setup_CNF	ca_RL_SetupCnf(p_CellId, tsc_PICH2)	
11	ERR1	[px_RAT = tdd]		
12	ERR2	[TRUE]		

After:

8		CMAC ? CMAC_Config_CNF	ca_CMAC_CfgCnf(p_CellId, tsc_S_CCPCH2)	
9	ERR1	[px_RAT = tdd]		
10	ERR2	[TRUE]		

4.5 Change 4

Test step	RB_ConfigType
Reason for change	For this test case different RB Config type is required.
Summary of change	Added two new RB Config type: cell_FACH_2SCCPCH_StandAlonePCH_2a_NoConn (59), cell_FACH_2SCCPCH_StandAlonePCH_2a (60)
Source of change	New change

ASN.1 Type Definition	
Type Name:	RB_ConfigType
Group:	
Encoding Variation:	
Comments:	
Type Definition	
<pre> ENUMERATED { cell_NotConfigured (0), -- Configurations on DPCH cell_DCH_StandAloneSRB_NoConn (1), 0.. cell_Two_DTCH_CS_PS_Init (57), cell_Four_DTCH_CS_PS_Init (58), cell_FACH_2SCCPCH_StandAlonePCH_2a_NoConn (59), cell_FACH_2SCCPCH_StandAlonePCH_2a (60) } </pre>	

4.6 Change 5

Test step	ts_SS_CreateCell2_SCCPCH_StandAlonePCH_2a
Reason for change	<ol style="list-style-type: none"> In this test step RB21 is configured instead of RB24. Cell Config type is set to cell_FACH_2SCCPCH_StandAlonePCH_NoConn , which is wrong.
Summary of change	<ol style="list-style-type: none"> At row 10 and 11 called a single test step ts_SS_RB20_AM_24_AM_Cfg. At row 12 changed Cell Config type to cell_FACH_2SCCPCH_StandAlonePCH_2a_NoConn.
Source of change	New change

Before:

10	+ts_SS_RB_BCCH_FACH_Cfg(p_CellId)		
11	+ts_SS_RB20_AM_PS_Cfg (320)		
12	+ts_SS_RB21_AM_UL_DL_Cfg (320)		
13	+ts_SetCellCfg (p_CellId, cell_FACH_2SCCPCH_StandAlonePCH_NoConn)		

After:

10	+ts_SS_RB_BCCH_FACH_Cfg(p_CellId)		
11	+ts_SS_RB20_AM_24_AM_Cfg		
12	+ts_SetCellCfg (p_CellId, cell_FACH_2SCCPCH_StandAlonePCH_2a_NoConn)		

4.7 Change 6

Test step	c_TrLogMappingFACH_PS_2a
Reason for change	In this constraint: <ul style="list-style-type: none"> 1. Wrong rB_Identity of ìtsc_RB_BCCHî is used for logical channel carrying BCCH data mapped to FACH. 2. Wrong logicalChannelType of ìdCCHî is used for logical Channel tsc_DL_CCCH5.
Summary of change	Following changes are done: <ul style="list-style-type: none"> 1. Changed rB_Identity from ìtsc_RB_BCCHî to ìtsc_RB_BCCH_FACHî 2. Changed logicalChannelType from ìdCCHî to ìcCCHî to tsc_DL_CCCH5.
Source of change	New change

Before:

```

trchid tsc_FACH1,
trCH_LogCHMappingList{
{
logicalChannel_Mapping dl_LogicalChannelMapping : {
macHeaderManipulation normalMacHeader,
dl_TransportChannelType fach,
logicalChannelIdentity tsc_BCCH6,
logicalChannelType bCCH,
rlc_SizeList configured : NULL,
mac_LogicalChannelPriority 1
},
rB_Identity tsc_RB_BCCH
},
{
logicalChannel_Mapping dl_LogicalChannelMapping : {
macHeaderManipulation normalMacHeader,
dl_TransportChannelType fach,
logicalChannelIdentity tsc_DL_CCCH5,
logicalChannelType dCCH,
rlc_SizeList configured : NULL,
mac_LogicalChannelPriority 1
},
rB_Identity tsc_RB0
},
}

```

After:

```

trchid tsc_FACH1,
trCH_LogCHMappingList{
{
logicalChannel_Mapping dl_LogicalChannelMapping :{
macHeaderManipulation normalMacHeader,
dl_TransportChannelType fach,
logicalChannelIdentity tsc_BCCH6,
logicalChannelType bCCH,
rlc_SizeList configured : NULL,
mac_LogicalChannelPriority 1
},
rB_Identity tsc_RB_BCCH_FACH
},
{
logicalChannel_Mapping dl_LogicalChannelMapping :{
macHeaderManipulation normalMacHeader,
dl_TransportChannelType fach,
logicalChannelIdentity tsc_DL_CCCH5,
logicalChannelType cCCH,
rlc_SizeList configured : NULL,
mac_LogicalChannelPriority 1
},
rB_Identity tsc_RB0
},
},

```

4.8 Change 7

Test step	ts_SendRB_SetUp_FACH_2SCCPCH_32k_2a
Reason for change	<ol style="list-style-type: none"> 1. Radio Bearer Setup message sent is not correct. 2. In the Radio Bearer Setup message new CRNTI value of '1010101010101010'B is sent. The same value needs to be updated in the SS.
Summary of change	<ol style="list-style-type: none"> 1. Created a new Constraint cbs_RB_SetUpFACH_PS_2SCCPCH_2a and the same is used at row 1. Please refer to attached Draft Prose CR for the same(T1-041512). 2. Added a delay of 50ms at row 2 between Sending of Radio Bearer Setup message and Configuration on new CRNTI on the SS send. 3. Created a new test step ts_CMAC_New_RNTI_Reconf_2SCCPCH_2a and is called at row 4.
Source of change	New change

Before:

1		+ ts_SetTmpCellInfo (p_CellId)		
2		AM ! RLC_AM_DATA_REQ	<pre>cas_RB_SetUpAM_WithCnf(tsc_CellDedicated, tsc_RB2, OMIT, cs_RRC_RB_SetUp(tcv_CellIndInfo.dl_IntegrityCheckInfo, tcv _RRC_Ti, OMIT, cell_FACH, OMIT, cb_RAB_InfoListAM2_No_Pdcp_2a (c_ReEstTimerT315, p_RAB_Id,p_RAB_ Id2), c_UL_CommTrChInfo_AM0to1(c_Power OffsetInfoBelow64k) , c_UL_AddReconfTransChInfoListFACH_P S, c_DL_CommonTransChInfo_AM_0_4, c_DL_AddReconfTransChInfoListFACH_PS _2SCCPCH_Cnfg1, c_DL_InformationPerRL_FACH(tcv_TmpC ellInfo.priScrmCode), OMIT, OMIT, OMIT))</pre>	@sic RASH T1s040438 sic@
3	TSP	+ ts_RRC_ReceiveRB_SetupCmpl (p_CellId , cell_FACH_2S CCPCH_StandAlonePCH_PS_2a)		

After:

1		+ ts_SetTmpCellInfo (p_CellId)		
2		AM ! RLC_AM_DATA_REQ	<pre>cas_RB_SetUpAM (tsc_CellDedicated, tsc_RB2, cbs_RB_SetUpFACH_PS_2SCCPCH_2a (tcv_CellIndInfo.dl_IntegrityCheckInfo, tcv_RRC_Ti, p_RAB_Id, p_RAB_Id2, tcv_TmpCellInfo.cRNTI))</pre>	
3		+ ts_RRC_Delay (50)		
4		+ts_CMAC_New_RNTI_Reconf_2SCCPCH_2a (FALSE, p_CellId, tcv_TmpCellInfo. uRNTI,tcv_TmpCellInfo.cRNTI)		
5	TS P	+ ts_RRC_ReceiveRB_SetupCmpl (p_CellId , cell_FACH_2SCCPCH_StandAlon ePCH_PS_2a)		

New Constraint:

ASN.1 PDU Constraint Declaration	
Constraint Name:	cbs_RB_SetUpFACH_PS_2SCCPCH_2a (p_IntegrityInfo : IntegrityCheckInfo;p_RRC_Ti : RRC_TransactionIdentifier; p_RAB_Id : BITSTRING;p_RAB_Id2 : BITSTRING; p_NewC_RNTI : C_RNTI)
Group:	
PDU Name:	DL_DCCH_Message
Derivation Path:	
Encoding Rule Name:	
Encoding Variation:	
Comments:	Defined in TS 34.123-1 annex A condition A.6
Constraint Value	
<pre> { integrityCheckInfo p_IntegrityInfo, message radioBearerSetup: r3 : { radioBearerSetup_r3 { rrc_TransactionIdentifier p_RRC_Ti, integrityProtectionModelInfo OMIT, cipheringModelInfo OMIT, activationTime OMIT, new_U_RNTI OMIT, new_C_RNTI p_NewC_RNTI , rrc_StateIndicator cell_FACH, utran_DRX_CycleLengthCoeff OMIT, cn_InformationInfo OMIT, srb_InformationSetupList OMIT, rab_InformationSetupList cb_RAB_InfoListAM2_No_Pdcp_2a (c_ReEstTimerT315, p_RAB_Id,p_RAB_Id2), rb_InformationAffectedList OMIT , ul_CommonTransChInfo c_UL_CommTrChInfoDCH_PS_64k, ul_deletedTransChInfoList OMIT, ul_AddReconfTransChInfoList c_UL_AddReconfTransChInfoListDCH_PS_64k, modeSpecificTransChInfo fdd:{ cpch_SetID OMIT, addReconfTransChDRAC_Info OMIT }, dl_CommonTransChInfo c_DL_CommonTransChInfoDCH (c_TFCS_Cmpl0_1_2_3_4_5_6_7_8_9_Rx), dl_DeletedTransChInfoList OMIT, dl_AddReconfTransChInfoList c_DL_AddReconfTransChInfoListDCH_PS_64k, frequencyInfo OMIT, maxAllowedUL_TX_Power OMIT, ul_ChannelRequirement OMIT, modeSpecificPhysChInfo fdd:{ dl_PDSCH_Information OMIT }, dl_CommonInformation OMIT , dl_InformationPerRL_List OMIT }, v3a0NonCriticalExtensions { radioBearerSetup_v3a0ext { new_DSCH_RNTI OMIT }, laterNonCriticalExtensions OMIT } } } </pre>	

New Test Step:

Test Step Id:	ts_CMAC_New_RNTI_Reconf_2SCCPCH_2a(p_urmti:BOOLEAN; p_CellId : INTEGER; p_U_RNTI : U_RNTI; p_C_RNTI : BIT STRING)
Test Step Group Ref:	BasicM_SS_Configuration_Steps/
Objective:	Reconfigure MAC when a new U_RNTI or C_RNTI is assigned to UE.
Defaults:	SS_Def
Comments:	U-RNTI and C-RNTI are not required on DPCH. U-RNTI and C-RNTI is necessary when DCCH/DTCH mapped on S-CCPCH. C-RNTI is necessary when DCCH/DTCH mapped on PRACH.

Nr	...	Behaviour Description	Constraint Ref	...	Comments
1		+ ts_SetTmpCellInfo (p_CellId)			
2		+ ts_CRLC_ReconfRLC_Size (p_urmti)			
3		+ It_CMAC_Reconf (p_urmti)			
It_CMAC_Reconf (p_urmti: BOOLEAN)					
4		[p_urmti]			
5		CMAC ! CMAC_Config_REQ	ca_CMAC_ReconfigInfoActNow (p_CellId , tsc_S_CCPCH1, c_UE_Info(p_U_RNTI, OMIT), c_TrChInfoFACH_PS, c_TrLogMappingFACH_PS_2a)		SS has valid U-RNTI, C-RNTI is not valid
6		CMAC ? CMAC_Config_CNF	ca_CMAC_CfgCnf (p_CellId , tsc_S_CCPCH2)		
7		[NOT p_urmti]			
8		CMAC ! CMAC_Config_REQ	ca_CMAC_ReconfigInfoActNow (p_CellId , tsc_PRACH1, c_UE_Info (OMIT, p_C_RNTI), cb_TrChInfoRACH1, c_TrLogMappingRACH_2_DTCH)		SS has valid C-RNTI, U-RNTI is not valid Only C-RNTI is required on PRACH
9		CMAC ? CMAC_Config_CNF	ca_CMAC_CfgCnf (p_CellId , tsc_PRACH1)		
10		CMAC ! CMAC_Config_REQ	ca_CMAC_ReconfigInfoActNow (p_CellId , tsc_S_CCPCH2, c_UE_Info(OMIT, p_C_RNTI), c_TrChInfoFACH_PS, c_TrLogMappingFACH_PS_2a)		
11		CMAC ? CMAC_Config_CNF	ca_CMAC_CfgCnf (p_CellId , tsc_S_CCPCH2)		

4.9 Change 8

Test step	cb_RAB_InfoListAM2_No_Pdcp_2a
Reason for change	<p>1) In the Radio Bearer Setup message UL and DL <code>logicalChannelIdentity</code> is set to OMIT in <code>rb_MappingInfo</code> for each RB. This is wrong. As per 25.331 section 8.6.4.8 RB mapping info</p> <p>1> if, as a result of the message this IE is included in, several radio bearers can be mapped onto the same transport channel, and the IE "Logical Channel Identity" was not included in the RB mapping info of any of those radio bearers for a multiplexing option on that transport channel or the same "Logical Channel Identity" was used more than once in the RB mapping info of those radio bearers for the multiplexing options on that transport channel:</p> <p>2> set the variable <code>INVALID_CONFIGURATION</code> to TRUE. Thus UL and DL <code>logicalChannelIdentity</code> needs to be set in <code>rb_MappingInfo</code>.</p> <p>2) In RLC Size list only <code>rlc_SizeIndex2</code> should be given.</p>
Summary of change	<p>1) In the constraint changed UL and DL <code>logicalChannelIdentity</code> to <code>tsc_UL_DTCH1</code> and <code>tsc_DL_DTCH1</code> for RB 20 respectively and to <code>tsc_UL_DTCH4</code> and <code>tsc_DL_DTCH4</code> for RB24 respectively.</p> <p>2) Removed <code>rlc_SizeIndex1</code> from RLC size list.</p>
Source of change	New change

Before:

```

rb_InformationSetupList
{{ --RB_InformationSetupList
rb_Identity tsc_RB20,
pdcpcp_Info OMIT,
rlc_InfoChoice rlc_Info : c_RLC_InfoAM_Def,
rb_MappingInfo
{
  --RB_MappingOption
  ul_LogicalChannelMappings oneLogicalChannel:
  {
    ul_TransportChannelType dch: tsc_UL_DCH1,
    logicalChannelIdentity OMIT,
    rlc_SizeList configured :NULL,
    mac_LogicalChannelPriority 8
  },
  dl_LogicalChannelMappingList
  {{
    dl_TransportChannelType dch: tsc_DL_DCH1,
    logicalChannelIdentity OMIT
  }}
},
  --RB_MappingInfo
  ul_LogicalChannelMappings oneLogicalChannel:
  { --UL_LogicalChannelMapping,
    ul_TransportChannelType rach: NULL,
    logicalChannelIdentity tsc_UL_DTCH1,
    rlc_SizeList explicitList : {{ rlc_SizeIndex 1 }, { rlc_SizeIndex 2 } },
    mac_LogicalChannelPriority 8
  },
}

```

```

-----
{{ --RB_InformationSetupList
rb_Identity tsc_RB24,
pdcpcp_Info OMIT,
rlc_InfoChoice rlc_Info : c_RLC_InfoAM_Def,
rb_MappingInfo
{
  --RB_MappingOption
  ul_LogicalChannelMappings oneLogicalChannel:
  {
    ul_TransportChannelType dch: tsc_UL_DCH1,
    logicalChannelIdentity OMIT,
    rlc_SizeList configured :NULL,
    mac_LogicalChannelPriority 8
  },
  dl_LogicalChannelMappingList
  {{
    dl_TransportChannelType dch: tsc_DL_DCH1,
    logicalChannelIdentity OMIT
  }}
},
  --RB_MappingInfo
  ul_LogicalChannelMappings oneLogicalChannel:
  { --UL_LogicalChannelMapping,
    ul_TransportChannelType rach: NULL,
    logicalChannelIdentity tsc_UL_DTCH4,
    rlc_SizeList explicitList : {{ rlc_SizeIndex 1 }, { rlc_SizeIndex 2 } },
    mac_LogicalChannelPriority 8
  },
}

```

After:

```

rb_InformationSetupList
{{ --RB_InformationSetupList
rb_Identity tsc_RB20,
pdcp_Info OMIT,
rlc_InfoChoice rlc_Info : c_RLC_InfoAM_Def,
rb_MappingInfo
{
  --RB_MappingOption
  ul_LogicalChannelMappings oneLogicalChannel:
  {
    ul_TransportChannelType dch: tsc_UL_DCH1,
    logicalChannelIdentity tsc_UL_DTCH1,
    rlc_SizeList configured : NULL,
    mac_LogicalChannelPriority 8
  },
  dl_LogicalChannelMappingList
  {{
    dl_TransportChannelType dch: tsc_DL_DCH1,
    logicalChannelIdentity tsc_DL_DTCH1
  }}
},
  --RB_MappingInfo
  ul_LogicalChannelMappings oneLogicalChannel:
  { --UL_LogicalChannelMapping,
    ul_TransportChannelType rach: NULL,
    logicalChannelIdentity tsc_UL_DTCH1,
    rlc_SizeList explicitList : { { rlc_SizeIndex 2 } },
    mac_LogicalChannelPriority 8
  },
}
}

```

```

{{ --RB_InformationSetupList
rb_Identity tsc_RB24,
pdcp_Info OMIT,
rlc_InfoChoice rlc_Info : c_RLC_InfoAM_Def,
rb_MappingInfo
{
  --RB_MappingOption
  ul_LogicalChannelMappings oneLogicalChannel:
  {
    ul_TransportChannelType dch: tsc_UL_DCH1,
    logicalChannelIdentity tsc_UL_DTCH4,
    rlc_SizeList configured : NULL,
    mac_LogicalChannelPriority 8
  },
  dl_LogicalChannelMappingList
  {{
    dl_TransportChannelType dch: tsc_DL_DCH1,
    logicalChannelIdentity tsc_DL_DTCH4
  }}
},
  --RB_MappingInfo
  ul_LogicalChannelMappings oneLogicalChannel:
  { --UL_LogicalChannelMapping,
    ul_TransportChannelType rach: NULL,
    logicalChannelIdentity tsc_UL_DTCH4,
    rlc_SizeList explicitList : { { rlc_SizeIndex 2 } },
    mac_LogicalChannelPriority 8
  },
}
}

```

4.10 Change 9

Test step	ts_RB_SubTest_RB24_FACH
Reason for change	In this test step instead of itsc_CellAî, itsc_CellDedicatedî needs to be used.
Summary of change	At row 1,2,4,5,6,9 replaced itsc_CellAî with itsc_CellDedicatedî.
Source of change	New change

Before:

1	AM ! RLC_AM_DATA_REQ	cas_TransportFormatCombCtrlAM (tsc_CellA, tsc_RB2, cbs_TransportFormatCombCtrl (tcv_CellIndInfo.d IntegrityCheckInfo, tcv_RRC_TI, p_TFC_UL))	Step 11
2	+ ts_TC_CloseUE_TestLoop (tsc_CellA) tsc_UE_TestLoopMode1, p_TestLoopModeSetup)		Steps 12-13
3	(tcv_RB_Data1 := o_GetMostSignificantBits (p_Data , p_DataLength))		
4	+ts_SS_TFC_Restriction_FACH (tsc_CellA, p_TFC_UL , p_TFC_DL)		
5	AM ! RLC_AM_TestDataReq START t_Dly	cas_RLC_AM_DataReq (tsc_CellA, tsc_RB24, c_TrD_Data(tcv_RB_Data1))	Step 14
6	AM ? RLC_AM_TestDataInd CANCEL t_Dly	car_RLC_AM_DataInd (tsc_CellA, tsc_RB24, c_TrD_Data(tcv_RB_Data1))	Step 15
7	+ ts_TC_OpenUE_TestLoop(tsc_CellDedicated)		Step 16-17
8	?TIMEOUT t_Dly		(F)
9	+ ts_TC_OpenUE_TestLoop(tsc_CellA)		Step 16-17

After:

1	AM ! RLC_AM_DATA_REQ	cas_TransportFormatCombCtrlAM (tsc_CellDedicated, tsc_RB2, cbs_TransportFormatCombCtrl (tcv_CellIndInfo.d IntegrityCheckInfo, tcv_RRC_TI, p_TFC_UL))	Step 11
2	+ ts_TC_CloseUE_TestLoop (tsc_CellDedicated, tsc_UE_TestLoopMode1, p_TestLoopModeSetup)		Steps 12-13
3	(tcv_RB_Data1 := o_GetMostSignificantBits (p_Data , p_DataLength))		
4	+ts_SS_TFC_Restriction_FACH (tsc_CellDedicated, p_TFC_UL, p_TFC_DL)		
5	AM ! RLC_AM_TestDataReq START t_Dly	cas_RLC_AM_DataReq (tsc_CellDedicated, tsc_RB24, c_TrD_Data(tcv_RB_Data1))	Step 14
6	AM ? RLC_AM_TestDataInd CANCEL t_Dly	car_RLC_AM_DataInd (tsc_CellDedicated, tsc_RB24, c_TrD_Data(tcv_RB_Data1))	Step 15
7	+ ts_TC_OpenUE_TestLoop(tsc_CellDedicated)		Step 16-17
8	?TIMEOUT t_Dly		(F)
9	+ ts_TC_OpenUE_TestLoop(tsc_CellDedicated)		Step 16-17

4.11 Change 10

Test step	ts_RRC_ConnEst
Reason for change	Need to handle cell RB Config type cell_FACH_2SCCPCH_StandAlonePCH_2a_NoConn in this test step at row 10 and 14
Summary of change	<ol style="list-style-type: none"> Added RB Config type cell_FACH_2SCCPCH_StandAlonePCH_2a_NoConn at row 10. Changed Cell state to cell_FACH_2SCCPCH_StandAlonePCH_2a at row 14.
Source of change	New change

Before:

10	[(tcv_TmpCellInfo.cellConfig = cell_FACH_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_BMC_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_2_P_RACH_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_2_SCCPCH_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_2SCCPCH_StandAlonePCH_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_MAC_SRB_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_4_FACH_Cnfg1_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_4_FACH_Cnfg2_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_3_FACH_CTCH_NoConn)]			
11	UMIRLC_UM_DATA_REQ	cas_RRC_ConnSetup(p_CellId, tsc_RB0, cbs_108_RRC_ConnSetupFACH (tcv_InitialUE_Id, tcv_RRC_Ti, tcv_TmpCellInfo.priScrmCode , tcv_TmpCellInfo.uRNTI , tcv_TmpCellInfo.cRNTI, tcv_TmpCellInfo.uL_ScramblingCode))		
12	[tcv_TmpCellInfo.cellConfig = cell_FACH_NoConn]			
13	+ ts_SetCellCfg (p_CellId, cell_FACH)			1.

After:

0	[(tcv_TmpCellInfo.cellConfig = cell_FACH_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_BMC_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_2_P_RACH_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_2_SCCPCH_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_2SCCPCH_StandAlonePCH_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_MAC_SRB_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_4_FACH_Cnfg1_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_4_FACH_Cnfg2_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_3_FACH_CTCH_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_2SCCPCH_StandAlonePCH_2a_NoConn)]			
1	UMIRLC_UM_DATA_REQ	cas_RRC_ConnSetup(p_CellId, tsc_RB0, cbs_108_RRC_ConnSetupFACH (tcv_InitialUE_Id, tcv_RRC_Ti, tcv_TmpCellInfo.priScrmCode , tcv_TmpCellInfo.uRNTI , tcv_TmpCellInfo.cRNTI, tcv_TmpCellInfo.uL_ScramblingCode))		
2	[tcv_TmpCellInfo.cellConfig = cell_FACH_NoConn]			
3	+ ts_SetCellCfg (p_CellId, cell_FACH)			1.
2	[tcv_TmpCellInfo.cellConfig = cell_FACH_2SCCPCH_StandAlonePCH_2a_NoConn]			
3	+ ts_SetCellCfg (p_CellId, cell_FACH_2SCCPCH_StandAlonePCH_2a)			

4.12 Change 11

Test case Variable	ts_RRC_ReceiveConnSetupCmpl
Reason for change	At row 7 check for tcv_TmpCellInfo.cellConfig = cell_FACH_2SCCPCH_StandAlonePCH_2a needs to be added.
Summary of change	At row 7 added a check for tcv_TmpCellInfo.cellConfig = cell_FACH_2SCCPCH_StandAlonePCH_2a.
Source of change	New change

After:

7	<pre> [(tcv_TmpCellInfo.cellConfig = cell_FACH_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_BMC_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_BMC) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_2_PRACH_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_2_PRACH) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_2_SCCPCH_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_2_SCCPCH) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_MAC_SRB_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_MAC_SRB) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_MAC_SRB0_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_MAC_SRB0) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_2SCCPCH_StandAlonePC H_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_4_FACH_Cnf g1_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_4_FACH_Cnf g1) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_4_FACH_Cnf g2_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_4_FACH_Cnf g2) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_3_FACH_CT CH_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_3_FACH_CT CH) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_2SCCPCH_StandAlonePC H_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_2SCCPCH_StandAlonePC H) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_2SCCPCH_StandAlonePC H_2a)] </pre>		@sic Draft 14.4.2.1 sic@
8	START t_WaitMS		

4.13 Change 12

Test case Variable	ts_SS_DownloadSecurityKey
Reason for change	At row 3 and 12 check for tcv_TmpCellInfo.cellConfig = cell_FACH_2SCCPCH_StandAlonePCH_2a needs to be added.
Summary of change	At row 3 and 12 added a check for tcv_TmpCellInfo.cellConfig = cell_FACH_2SCCPCH_StandAlonePCH_2a.
Source of change	New change

After:

2	[px_CipheringOnOff]		
3	<pre> [(tcv_TmpCellInfo.cellConfig = cell_FACH_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_NoDedicated) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_PS) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_BMC) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_BMC_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_2_PRACH_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_2_PRACH) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_2_SCCPCH_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_2_SCCPCH) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_2SCCPCH_StandAlonePCH_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_2SCCPCH_StandAlonePCH_2a) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_2SCCPCH_StandAlonePCH) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_2SCCPCH_StandAlonePCH_PS) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_4_FACH_Cnfg1_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_4_FACH_Cnfg2_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_3_FACH_CTCH_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_4_FACH_Cnfg1) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_4_FACH_Cnfg2) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_3_FACH_CTCH)] </pre>		Cell FAC H
4	+ It_DownloadKeyCRLC (tcv_HFN, p_KC, p_IK)		

11	[NOT px_CipheringOnOff]		
12	<pre> [(tcv_TmpCellInfo.cellConfig = cell_FACH_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_NoDedicated) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_PS) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_BMC) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_BMC_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_2_PRACH_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_2_PRACH) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_2_SCCPCH_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_2_SCCPCH) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_2SCCPCH_StandAlonePCH_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_2SCCPCH_StandAlonePCH_2a) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_2SCCPCH_StandAlonePCH) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_2SCCPCH_StandAlonePCH_PS) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_4_FACH_Cnfg1_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_4_FACH_Cnfg2_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_3_FACH_CTCH_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_4_FACH_Cnfg1) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_4_FACH_Cnfg2) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_3_FACH_CTCH)] </pre>		Cell FAC H @sic ER1 926 sic@
13	+ It_DownloadKeyCRLC (tcv_HFN, OMIT, p_IK)		

4.14 Change 13

Test case Variable	ts_GMM_IdleUpdated
Reason for change	At row 117 check for tcv_TmpCellInfo.cellConfig = cell_FACH_2SCCPCH_StandAlonePCH_2a needs to be added.
Summary of change	At row 117 added a check for tcv_TmpCellInfo.cellConfig = cell_FACH_2SCCPCH_StandAlonePCH_2a.
Source of change	New change

After:

It_RRC_ConnRel			
11	[(tcv_TmpCellInfo.cellConfig = cell_FACH) OR		
7	(tcv_TmpCellInfo.cellConfig = cell_FACH_2SCCPCH_StandAlonePCH) OR		
	(tcv_TmpCellInfo.cellConfig = cell_FACH_2SCCPCH_StandAlonePCH_2a) OR		
	(tcv_TmpCellInfo.cellConfig = cell_FACH_2_PRACH) OR		
	(tcv_TmpCellInfo.cellConfig = cell_FACH_2_SCCPCH)OR		
	(tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_4_FACH_Cnfg1) OR		
	(tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_4_FACH_Cnfg2)OR		
	(tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_3_FACH_CTCH)]		
11	+ ts_RRC_ConnRel (p_CellId, cell_Fach_Dcch)		
8			

4.15 Change 14

Test case Variable	ts_CRLC_GetRLC_SeqNumSecurity
Reason for change	At row 10 check for tcv_TmpCellInfo.cellConfig = cell_FACH_2SCCPCH_StandAlonePCH_2a needs to be added.
Summary of change	At row 10 added a check for tcv_TmpCellInfo.cellConfig = cell_FACH_2SCCPCH_StandAlonePCH_2a.
Source of change	New change

After:

9	CRLC ? CRLC_SequenceNumber_CNF (tcv_RLC_SeqNumDL_RB4 := CRLC_SequenceNumber_CNF.count_C_L SB_DL)	car_GetRLC_SeqNum (tsc_CellDedicated, tsc_RB4)	
10	[((tcv_TmpCellInfo.cellConfig = cell_DCH_64kPS_RAB_SRB) OR (tcv_TmpCellInfo.cellConfig = cell_PDCP_AM_RAB) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_PS) OR ((tcv_TmpCellInfo.cellConfig = cell_Two_DTCH_CS_PS)) OR ((tcv_TmpCellInfo.cellConfig = cell_Four_DTCH_CS_PS)) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_2SCCPCH_StandAlonePCH_PS) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_4_FACH_Cnfg1) O R (tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_4_FACH_Cnfg2)OR (tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_3_FACH_CTCH) O R (tcv_TmpCellInfo.cellConfig = cell_FACH_2SCCPCH_StandAlonePCH_2a) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_3_FACH_2a_CTCH)) AND (tcv_CellIndInfo.recentSecureDomain = ps_domain)]		
11	CRLC ! CRLC_SequenceNumber_REQ	cas_GetRLC_SeqNum (tsc_CellDedicated, tsc_RB20)	
12	CRLC ? CRLC_SequenceNumber_CNF (tcv_RLC_SeqNumDL_RB20 := CRLC_SequenceNumber_CNF.count_C_ LSB_DL)	car_GetRLC_SeqNum (tsc_CellDedicated, tsc_RB20)	

4.16 Change 15

Test step	po_ConnectionAndSS_Rel
Reason for change	At row 6 check for tcv_TmpCellInfo.cellConfig = cell_FACH_2SCCPCH_StandAlonePCH_2a_NoConn and at row 8 check for tcv_TmpCellInfo.cellConfig = cell_FACH_2SCCPCH_StandAlonePCH_2a and cell_FACH_2SCCPCH_StandAlonePCH_PS_2a needs to be added.
Summary of change	At row 6 check for tcv_TmpCellInfo.cellConfig = cell_FACH_2SCCPCH_StandAlonePCH_2a_NoConn and at row 8 check for tcv_TmpCellInfo.cellConfig = cell_FACH_2SCCPCH_StandAlonePCH_2a and cell_FACH_2SCCPCH_StandAlonePCH_PS_2a is added.
Source of change	New change

After:

It_Send_RRC_ConnectionRelease			
6	<pre>((tcv_TmpCellInfo.cellConfig = cell_DCH_StandAloneSRB_NoConn) OR (tcvc_TmpCellInfo.cellConfig = cell_FACH_NoConn) OR (tcvc_TmpCellInfo.cellConfig = cell_FACH_BMC_NoConn) OR (tcvc_TmpCellInfo.cellConfig = cell_NoDPCH) OR (tcvc_TmpCellInfo.cellConfig = cell_FACH_NoDedicated) OR (tcvc_TmpCellInfo.cellConfig = cell_FACH_2_PRACH_NoConn) OR (tcvc_TmpCellInfo.cellConfig = cell_FACH_2_SCCPCH_NoConn) OR (tcvc_TmpCellInfo.cellConfig = cell_FACH_2SCCPCH_StandAlonePCH_NoConn) OR (tcvc_TmpCellInfo.cellConfig = cell_FACH_2SCCPCH_StandAlonePCH_2a_NoConn) OR (tcvc_TmpCellInfo.cellConfig = cell_FACH_MAC_SRB_NoConn) OR (tcvc_TmpCellInfo.cellConfig = cell_DCH_MAC_SRB_NoConn) OR (tcvc_TmpCellInfo.cellConfig = cell_FACH_MAC_SRB0_NoConn) OR (tcvc_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_4_FACH_Cnfg1_NoConn) OR (tcvc_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_4_FACH_Cnfg2_NoConn)OR (tcvc_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_3_FACH_CTCH_NoConn)]</pre>		3.
7	[TRUE]		4.
8	<pre>((tcvc_TmpCellInfo.cellConfig = cell_FACH) OR (tcvc_TmpCellInfo.cellConfig = cell_FACH_PS) OR (tcvc_TmpCellInfo.cellConfig =cell_FACH_BMC) OR (tcvc_TmpCellInfo.cellConfig = cell_FACH_2_PRACH) OR (tcvc_TmpCellInfo.cellConfig = cell_FACH_2_SCCPCH) OR (tcvc_TmpCellInfo.cellConfig = cell_FACH_MAC_SRB) OR (tcvc_TmpCellInfo.cellConfig = cell_FACH_MAC_SRB0) OR (tcvc_TmpCellInfo.cellConfig = cell_FACH_2SCCPCH_StandAlonePCH)OR (tcvc_TmpCellInfo.cellConfig = cell_FACH_2SCCPCH_StandAlonePCH_2a) OR (tcvc_TmpCellInfo.cellConfig = cell_FACH_2SCCPCH_StandAlonePCH_PS_2a) OR (tcvc_TmpCellInfo.cellConfig = cell_FACH_2SCCPCH_StandAlonePCH_PS)OR (tcvc_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_4_FACH_Cnfg1) OR (tcvc_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_4_FACH_Cnfg2)OR (tcvc_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_3_FACH_CTCH)]</pre>		1.@sic Dr aft 14.4.2. 1 sic@

4.17 Change 16

Test step	ts_RRC_ConnRel
Reason for change	At row 24 check for tcv_TmpCellInfo.cellConfig = cell_FACH_2SCCPCH_StandAlonePCH_2a and cell_FACH_2SCCPCH_StandAlonePCH_PS_2a needs to be added.
Summary of change	At row 24 check for tcv_TmpCellInfo.cellConfig = cell_FACH_2SCCPCH_StandAlonePCH_2a and cell_FACH_2SCCPCH_StandAlonePCH_PS_2a is added.
Source of change	New change

After:

21	[(tcvc_TmpCellInfo.cellConfig = cell_FACH_2SCCPCH_StandAlonePCH) OR (tcvc_TmpCellInfo.cellConfig = cell_FACH_2SCCPCH_StandAlonePCH_PS)]			
22	+ ts_CRLC_RelReconfSRB (p_CellId)			
23	+ ts_SetCellCfg (p_CellId, cell_FACH_2SCCPCH_StandAlonePCH_NoConn)			
24	[(tcvc_TmpCellInfo.cellConfig = cell_FACH_2SCCPCH_StandAlonePCH_2a) OR (tcvc_TmpCellInfo.cellConfig = cell_FACH_2SCCPCH_StandAlonePCH_PS_2a)]			
25	+ ts_CRLC_RelReconfSRB (p_CellId)			
26	+ ts_SetCellCfg (p_CellId, cell_FACH_2SCCPCH_StandAlonePCH_2a_NoConn)			

4.18 Change 17

Test step	ts_RRC_ConnRel_AfterSwitchOff
Reason for change	At row 24 check for tcv_TmpCellInfo.cellConfig = cell_FACH_2SCCPCH_StandAlonePCH_2a and cell_FACH_2SCCPCH_StandAlonePCH_PS_2a needs to be added.
Summary of change	At row 24 check for tcv_TmpCellInfo.cellConfig = cell_FACH_2SCCPCH_StandAlonePCH_2a and cell_FACH_2SCCPCH_StandAlonePCH_PS_2a is added.

Source of change	New change
------------------	------------

After:

21	[(tcv_TmpCellInfo.cellConfig = cell_FACH_2SCCPCH_StandAlonePCH) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_2SCCPCH_StandAlonePCH_PS)]		
22	+ ts_CRLLC_RelReconfSRB (p_CellId)		
23	+ ts_SetCellCfg (p_CellId, cell_FACH_2SCCPCH_StandAlonePCH_NoConn)		
24	[(tcv_TmpCellInfo.cellConfig = cell_FACH_2SCCPCH_StandAlonePCH_2a) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_2SCCPCH_StandAlonePCH_PS_2a)]		
25	+ ts_CRLLC_RelReconfSRB (p_CellId)		
26	+ ts_SetCellCfg (p_CellId, cell_FACH_2SCCPCH_StandAlonePCH_2a_NoConn)		

4.19 Change 18

Test step	ts_GMM_DetachOnSwitchOff
Reason for change	At row 18 check for tcv_TmpCellInfo.cellConfig = cell_FACH_2SCCPCH_StandAlonePCH_2a_NoConn needs to be added
Summary of change	At row 18 check for tcv_TmpCellInfo.cellConfig = cell_FACH_2SCCPCH_StandAlonePCH_2a_NoConn is added.
Source of change	New change

After:

It_Init_RRC_RelStatus			
18	[(tcv_TmpCellInfo.cellConfig = cell_FACH) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_PS) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_BMC) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_2_PRACH) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_2_SCCPCH) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_2SCCPCH_StandAlonePCH) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_2SCCPCH_StandAlonePCH_PS) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_4_FACH_Cnfg1) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_3_FACH_CTCH) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_4_FACH_Cnfg2) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_2SCCPCH_StandAlonePCH_PS_2a) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_4_FACH_2a_Cnfg1) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_4_FACH_2a_Cnfg2) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_3_FACH_2a_CTCH) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_BMC_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_2_PRACH_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_2_SCCPCH_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_MAC_SRB_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_MAC_SRB0_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_2SCCPCH_StandAlonePCH_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_2SCCPCH_StandAlonePCH_2a_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_4_FACH_Cnfg1_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_3_FACH_CTCH_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_4_FACH_Cnfg2_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_4_FACH_2a_Cnfg1_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_4_FACH_2a_Cnfg2_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_3_FACH_2a_CTCH_NoConn)]		
19	(tcv_RRC_RelStatus := cell_Fach_Dcch)		Get CellInfo to be used later

4.20 Change 19

Test step	ts_SS_PrepareCellRRC_ConnEst
Reason for change	At row 2 check for tcv_TmpCellInfo.cellConfig = cell_FACH_2SCCPCH_StandAlonePCH_2a_NoConn needs to be added
Summary of change	At row 2 check for tcv_TmpCellInfo.cellConfig = cell_FACH_2SCCPCH_StandAlonePCH_2a_NoConn is added.
Source of change	New change

After:

1	+ ts_SetTmpCellInfo (p_CellId)		
2	[(tcv_TmpCellInfo.cellConfig = cell_DCH_StandAloneSRB_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_BMC_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_2_PRACH_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_2_SCCPCH_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_2SCCPCH_StandAlonePCH_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_2SCCPCH_StandAlonePCH_2a_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_MAC_SRB_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_DCH_MAC_SRB_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_4_FACH_Cnfg1_NoConn) O R (tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_4_FACH_Cnfg2_NoConn) O R (tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_3_FACH_CTCH_NoConn)]		0
3	[tcv_TmpCellInfo.cellConfig = cell_NoDPCH]		1

4.21 Change 20

Test Step	ts_SS_Rel
Reason for change	In this test step need to handle new RB Config type cell_FACH_2SCCPCH_StandAlonePCH_2a, cell_FACH_2SCCPCH_StandAlonePCH_PS_2a and cell_FACH_2SCCPCH_StandAlonePCH_2a_NoConn
Summary of change	Added the check for these message types at row 96.
Source of change	New change

After:

96	[(tcv_TmpCellInfo.cellConfig = cell_FACH_2SCCPCH_StandAlonePCH_2a_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_2SCCPCH_StandAlonePCH_2a) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_2SCCPCH_StandAlonePCH_PS_2a)]		
97	+ It_RelSRB1_4		
98	+ ts_CRLC_Rel (tsc_CellDedicated, tsc_RB20)		
99	+ ts_CRLC_Rel (tsc_CellDedicated, tsc_RB24)		
100	+ ts_CRLC_Rel (p_CellId, tsc_RB_BCCH_FACH)		
101	+ ts_CRLC_Rel (p_CellId, tsc_RB0)		2.
102	+ ts_CMAC_Rel (p_CellId, tsc_PRACH1)		
103	+ ts_CPHY_TrChRelNonDch (p_CellId, tsc_PRACH1)		
104	+ ts_SS_StopRL (p_CellId, tsc_AICH1)		
105	+ ts_SS_StopRL (p_CellId, tsc_PRACH1)		
106	+ ts_CRLC_Rel (p_CellId, tsc_RB_PCCH2)		3.
107	+ ts_CMAC_Rel (p_CellId, tsc_S_CCPCH1)		
108	+ ts_CPHY_TrChRelNonDch (p_CellId, tsc_S_CCPCH1)		
109	+ ts_SS_StopRL (p_CellId, tsc_PICH1)		
110	+ ts_SS_StopRL (p_CellId, tsc_S_CCPCH1)		
111	+ ts_CMAC_Rel (p_CellId, tsc_S_CCPCH2)		
112	+ ts_CPHY_TrChRelNonDch (p_CellId, tsc_S_CCPCH2)		
113	+ ts_SS_StopRL (p_CellId, tsc_S_CCPCH2)		
114	+ It_Release_BCCH		
115	+ ts_SetCellCfg (p_CellId, cell_NotConfigured)		

4.22 Change 21

Test case Variable	ts_SS_TFC_Restriction_FACH
Reason for change	At row 5 check for tcv_TmpCellInfo.cellConfig = cell_FACH_2SCCPCH_StandAlonePCH_2a needs to be added.
Summary of change	At row 5 added a check for tcv_TmpCellInfo.cellConfig = cell_FACH_2SCCPCH_StandAlonePCH_2a.
Source of change	New change

After:

5	[(tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_4_FACH_Cnfg2) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_2SCCPCH_StandAlonePCH_PS) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_2SCCPCH_StandAlonePCH_PS_2a)		
6	CMAC ! CMAC_Restriction_REQ	ca_CMAC_RestrictReq(p_cellId,tsc_S_CCPCH2,c_TFC_Restriction_DL(p_TFC_DL))	
7	CMAC ? CMAC_Restriction_CNF	ca_CMAC_RestrictCnf(p_cellId,tsc_S_CCPCH2)	
8	+It_UL_Restrict		

Branches executed in test case 14.4.2a.1

The test case implementation executed the combined CS/PS branch with integrity activated and ciphering disabled.

5 Execution Log Files

5.1 Nokia 6630

The Nokia 6630 passed this test case on the Anite 3G U-SAT system. The documentation below is enclosed as evidence of the successful test case run [1]:

➤ **Test Case Execution log file tc_14_4_2a_1_Nokia.txt:**

In the log file (in txt format) the complete test case execution can be seen. All message contents are fully decoded and can be verified. Preliminary verdicts and the final test case verdict can be seen in the log file.

5.2 Sony Ericsson Z1010

The Sony Ericsson Z1010 passed this test case on the Anite 3G U-SAT system. The documentation below is enclosed as evidence of the successful test case run [1]:

➤ **Test Case Execution log file tc_14_4_2a_1_SonyEricsson.txt:**

In the log file (in txt format) the complete test case execution can be seen. All message contents are fully decoded and can be verified. Preliminary verdicts and the final test case verdict can be seen in the log file.

6 References

- [1] **T1s040623:** This archive comprises text format execution log file and the TTCN MP file.

CR-Form-v7

CHANGE REQUEST

№ **34.123-3 CR 1082** № rev - № Current version: **3.7.0** №

For **HELP** on using this form, see bottom of this page or look at the pop-up text over the № symbols.

Proposed change affects: UICC apps ME Radio Access Network Core Network

Title:	№ Addition of RRC Package 4 test case 8.2.3.11 to RRC ATS V3.7.0		
Source:	№ Anite, Racal		
Work item code:	№ N/A	Date:	№ 24/09/04
Category:	№ B	Release:	№ R99
	Use <u>one</u> of the following categories:		Use <u>one</u> of the following releases:
	F (correction)		2 (GSM Phase 2)
	A (corresponds to a correction in an earlier release)	R96 (Release 1996)	
	B (addition of feature),	R97 (Release 1997)	
	C (functional modification of feature)	R98 (Release 1998)	
	D (editorial modification)	R99 (Release 1999)	
	Detailed explanations of the above categories can be found in 3GPP TR 21.900 .		Rel-4 (Release 4)
			Rel-5 (Release 5)
			Rel-6 (Release 6)

Reason for change:	№ To add verified GCF package 4 RRC test case 8.2.3.11 to the approved RRC ATS V3.7.0		
Summary of change:	№ This document lists all changes applied to test case 8.2.3.11 required for approval. See detailed change description for further information.		
Consequences if not approved:	№ Test case will not be added to ATS		

Clauses affected:	№						
Other specs affected:	<table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td style="width: 20px; text-align: center;">Y</td> <td style="width: 20px; text-align: center;">N</td> </tr> <tr> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> </tr> </table>	Y	N	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Other core specifications	№
Y	N						
<input type="checkbox"/>	<input checked="" type="checkbox"/>						
	<input checked="" type="checkbox"/>	Test specifications					
	<input checked="" type="checkbox"/>	O&M Specifications					
Other comments:	№						

How to create CRs using this form:

Comprehensive information and tips about how to create CRs can be found at <http://www.3gpp.org/specs/CR.htm>. Below is a brief summary:

- 1) Fill out the above form. The symbols above marked № contain pop-up help information about the field that they are closest to.
- 2) Obtain the latest version for the release of the specification to which the change is proposed. Use the MS Word "revision marks" feature (also known as "track changes") when making the changes. All 3GPP specifications can be downloaded from the 3GPP server under <ftp://ftp.3gpp.org/specs/> For the latest version, look for the directory name with the latest date e.g. 2001-03 contains the specifications resulting from the March 2001 TSG meetings.

- 3) With "track changes" disabled, paste the entire CR form (use CTRL-A to select it) into the specification just in front of the clause containing the first piece of changed text. Delete those parts of the specification which are not relevant to the change request.

Title: Changes to test case 8.2.3.11 required for approval
Source: Anite
Agenda Item: TTCN Issues
Document for: Approval
Contact: Philip Rose
phil.rose@anite.com
Tel. +44 1252 775200

1 Overview

This document lists all the changes needed to correct problems in the TTCN implementation of test case 8.2.3.11, which is part of the RRC test suite. Only essential changes to the TTCN are applied and documented in section 4.

With these changes applied the test case can be demonstrated to run with one or more 3G UEs (see section 6). Execution log files are provided as evidence.

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3 Verification Test Summary

Test Case: tc_8_2_3_11
Test Group: RRC/RRC_RB_Release
ATS Version: iWD-TVB2003-03_D04wk31 + essential modifications
System Simulator used: Anite 3G U-SAT
UE used: Nokia 7600
Verification Status: PASS

4 Corrections required for test case 8.2.3.11

4.1 Introduction

This section describes the changes required to make test case 8.2.3.11 run correctly with a 3G UE. The ATS version used as basis was RRC_wk31.mp, which is part of the iWD-TVB2003-03_D04wk31 release.

4.2 Change 1

Test step name	It_ReceiveMeasurementReport
Reason for change	A timer is required to avoid indefinite wait for measurement report
Summary of change	A timer t_WaitS is added (line #1) with value 30 sec.
Source of change	New change

Before:

It_ReceiveMeasurementReport				
0	TBP1	AM ? RLC_AM_DATA_IND (tcv_TrafficVolMeas_Results := RLC_AM_DATA_IND.aM_message.uL_DCCH_Message.message.measurementReport.measuredResults.trafficVolumeMeasuredResultsList, tcv_RB_SRB_ReceiveList := { tcv_TrafficVolMeas_Results.[0].rb_Identity, tcv_TrafficVolMeas_Results.[1].rb_Identity, tcv_TrafficVolMeas_Results.[2].rb_Identity, tcv_TrafficVolMeas_Results.[3].rb_Identity, tcv_TrafficVolMeas_Results.[4].rb_Identity})	car_MeasurementReport (tsc_CellDedicated, tsc_RB2, cr_MeasReportTrafficVolume_SRB_RB20)	(P) Measurement report received
1		+ts_CheckRBsInTrafficVolMeas (tcv_RB_SRB_ReceiveList, c_RB_SRB_RAB_List)		

After:

It_ReceiveMeasurementReport				
0		START t_WaitS (30)		
1	TBP1	AM ? RLC_AM_DATA_IND (tcv_TrafficVolMeas_Results := RLC_AM_DATA_IND.aM_message.uL_DCCH_Message.message.measurementReport.measuredResults.trafficVolumeMeasuredResultsList, tcv_RB_SRB_ReceiveList := { tcv_TrafficVolMeas_Results.[0].rb_Identity, tcv_TrafficVolMeas_Results.[1].rb_Identity, tcv_TrafficVolMeas_Results.[2].rb_Identity, tcv_TrafficVolMeas_Results.[3].rb_Identity, tcv_TrafficVolMeas_Results.[4].rb_Identity}) CANCEL t_WaitS	car_MeasurementReport (tsc_CellDedicated, tsc_RB2, cr_MeasReportTrafficVolume_SRB_RB20)	(P) Measurement report received
2		+ts_CheckRBsInTrafficVolMeas (tcv_RB_SRB_ReceiveList, c_RB_SRB_RAB_List)		
1		? TIMEOUT t_WaitS		(F)

4.3 Change 2

Test step name	It_LocalTest
Reason for change	Call to test step ts_CalculateActTime at line #10 is not required as Measurement Control message at line 11 does not use Activation Time.
Summary of change	Removed +ts_CalculateActTime (tsc_CellA) from line #10
Source of change	New change

Before:

It_LocalTest				
0	TBS	(tcv_TestBody:=TRUE)		
1		+ts_CalculateActTime (tsc_CellA)		
2		AM ! RLC_AM_DATA_REQ	cas_MeasurementControl (tsc_CellDedicated, tsc_RB2, cs_MeasurementControlSetupFACH (tcv_CellIndInfo.dI_IntegrityCheckInfo, tcv_RRC_TI, { ue_State all_States }))	Step 0a MEASUREMENT CONTROL @sic OG 11/03/04 ER15 53 sic@
3		+It_ReceiveMeasurementReport		Step 0b

4.4 Change 3

Test step name	lt_LocalTest
Reason for change	A timer is required to avoid indefinite wait for Radio Bearer Release Failure message
Summary of change	A timer t_WaitS is added (after expiry of timer t_T312) with value 30 sec.
Source of change	New change

Before:

5		START t_T312			
6		? TIMEOUT t_T312			
7	TBP2	AM ? RLC_AM_DATA_IND	car_RB_RelFail (tsc_CellDedicated, tsc_RB2, cr_108_RB_RelFail (tcv_RRC_Ti, physicalChannelFailure : NULL))	(P)	step 3
8		+lt_ReceiveMeasurementRepo			Step 4
9	TBE	rt (tcv_TestBody:=FALSE)			

After:

4		START t_T312			
5		? TIMEOUT t_T312			
6		START t_WaitS (30)			
7		? TIMEOUT t_WaitS		(F)	
7	TBP2	AM ? RLC_AM_DATA_IND CANCEL t_WaitS	car_RB_RelFail (tsc_CellDedicated, tsc_RB2, cr_108_RB_RelFail (tcv_RRC_Ti, physicalChannelFailure : NULL))	(P)	step 3
8		+lt_ReceiveMeasurementRepo			Step 4
9	TBE	rt (tcv_TestBody:=FALSE)			

Branches executed in test case 8.2.3.11

The test case implementation executed the combined CS/PS branch with integrity activated and ciphering disabled.

5 Execution Log Files

5.1 Nokia 7600

The Nokia 7600 passed this test case on the Anite 3G U-SAT system. The documentation below is enclosed as evidence of the successful test case run [1]:

6 References

- [1] This archive comprises text format execution log file and the TTCN MP file.

CR-Form-v7	
CHANGE REQUEST	
# 34.123-3 CR 1083 # rev - #	Current version: 3.7.0 #

For **HELP** on using this form, see bottom of this page or look at the pop-up text over the # symbols.

Proposed change affects: UICC apps ME Radio Access Network Core Network

Title:	# Addition of NAS test case 12.4.3.4 to NAS ATS V3.7.0		
Source:	# Rohde & Schwarz		
Work item code:	# N/A	Date:	# 23/09/2004
Category:	# B	Release:	# R99
	Use <u>one</u> of the following categories:		Use <u>one</u> of the following releases:
	F (correction)		2 (GSM Phase 2)
	A (corresponds to a correction in an earlier release)		R96 (Release 1996)
	B (addition of feature),		R97 (Release 1997)
	C (functional modification of feature)		R98 (Release 1998)
	D (editorial modification)		R99 (Release 1999)
	Detailed explanations of the above categories can be found in 3GPP TR 21.900 .		Rel-4 (Release 4)
			Rel-5 (Release 5)
			Rel-6 (Release 6)

Reason for change:	# To add verified GCF package 4 NAS test case 12.4.3.4 to the approved NAS ATS V3.7.0
Summary of change:	# This document lists all changes applied to test case 12.4.3.4 required for approval. See detailed change description for further information.
Consequences if not approved:	# Test case will not be added to ATS

Clauses affected:	# N/A						
Other specs affected:	<table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td style="width: 20px; text-align: center;">Y</td> <td style="width: 20px; text-align: center;">N</td> </tr> <tr> <td style="text-align: center;">#</td> <td style="text-align: center;">X</td> </tr> </table> Other core specifications	Y	N	#	X	#	
Y	N						
#	X						
	<table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td style="text-align: center;">#</td> <td style="text-align: center;">X</td> </tr> </table> Test specifications	#	X	#			
#	X						
	<table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td style="text-align: center;">#</td> <td style="text-align: center;">X</td> </tr> </table> O&M Specifications	#	X	#			
#	X						
Other comments:	#						

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- 3) With "track changes" disabled, paste the entire CR form (use CTRL-A to select it) into the specification just in front of the clause containing the first piece of changed text. Delete those parts of the specification which are not relevant to the change request.

Title: Changes to test case 12.4.3.4 required for approval
Source: Rohde & Schwarz
Agenda Item: TTCN Issues
Document for: Approval
Contact: Thomas Moosburger
thomas.moosburger@rsd.rohde-schwarz.com
Tel. +49 89 4129 11731

1 Overview

This document lists all the changes needed to correct problems in the TTCN implementation of test case 12.4.3.4 which is part of the NAS test suite. Only essential changes to the TTCN are applied and documented in section 4.

With these changes applied the test case can be demonstrated to run with one or more 3G UEs (see section 6). Execution log files are provided as evidence.

2 Table of Contents

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3 Verification Test Summary

Test Case: TC_12_4_3_4
Test Group: GMM/ Routing_Area Updating / Periodic_RAU
ATS Version: iWD-TVB2003-03_D04wk31 + essential modifications
System Simulator used: Rohde & Schwarz 3G system simulator CRTU-W
UE used: Nokia 6630 & Motorola A845
Verification Status: PASS

4 Corrections required for test case 12.4.3.4

4.1 Introduction

This section describes the changes required to make test case 12.4.3.4 run correctly with a 3G UE. All modifications are marked with label **WA#NAS<number>** for NAS related changes in the TTCN comments column of the enclosed ATS [1].

The ATS version used as basis was NAS_wk31.mp which is part of the iWD-TVB2003-03_D04wk31 release. This ATS, provided by MCC160 which GCF package 1 to 4 test cases.

The enclosed ATS [1] contains a number of additional changes (see list below) in common test steps which are required for other tests, but which are not applicable to test case 12.4.3.4:

WA#NAS4395, WA#NAS4426 & WA#NAS4427

4.2 ts_GMM_DetachOnSwitchOff (WA#NAS4453)

Test step name	ts_GMM_DetachOnSwitchOff
Reason for change	PS detach would be performed in an NMO_II test case, if ATT Flag is OFF
Summary of change	Added (tcv_TmpCellInfo.nmo = tsc_NMO_II)
Source of change	New change
Label	WA#NAS4453

2	[pc_SwitchOnOff]		UE can actually be switched off
3	+ts_SetTmpCellInfo (p_CellId)		Get CellInfo to be used later
4	+It_Init_RRC_RelStatus		
5	+ts_MMI_UE_SwitchOff		
6	+ts_RRC_ConnEst(p_CellId, est_MO, detach)		
7	[(tcv_TmpCellInfo.attFlag = tsc_AttOff) AND (tcv_TmpCellInfo.nmo = tsc_NMO_I)]		ATT flag is not set, only GPRS detach is required WA#NAS4453
8	+It_Detach_POnly		
9	+ts_RRC_ConnRel_AfterSwitchOff(p_CellId, tcv_RRC_RelStatus)		
10	[(tcv_UE_OpMode = opModeA) AND (tcv_TmpCellInfo.nmo = tsc_NMO_I)]		If UE is in operation mode A and network mode of operation is I, then run combined PS/C S procedures.
11	+It_Detach_NMO_I		

4.3 ts_MM_RegistrationHandleAttachReqP_TMSI (WA#NAS4648)

Test step name ts_MM_RegistrationHandleAttachReqP_TMSI

Reason for change Incorrect PTMSI expected. Parameterized value in test step should be used instead.

Summary of change Replaced "c_MobileIdPTMSI_lv_Def" with "c_MobileIdPTMSI_lv (p_ptmsi)"

Source of change New change

Label WA#NAS4648

Test Step				
Test Step Id:		ts_MM_RegistrationHandleAttachReqP_TMSI (p_CellId : INTEGER; p_ptmsi : O0_8)		
Test Step Group Ref:		GMM_InternalSteps/		
Objective:		CS registration with a parallel of subsequent receipt of PS ATTACH REQUEST message containing a P-TMSI mobile id.		
Defaults:		NAS_OtherwiseFail		
Comments:		@sic VB ER1595 sic@		
Nr	Label	Behaviour Description	Constraint Ref	Comments
1		[tcv_UE_OpMode = opModeA]		UE Op mode A
2		(tcv_GMM_AttachExpect = TRUE, tcv_GMM_AttachRec := FALSE)		Set flags used by NAS default handler in order to 'catch' a GMM ATTACH REQUEST msg
3		+ts_RRC_ConnEst (p_CellId , est_Reg , registration)		
4		+ts_RegistrationOnCS (p_CellId , px_TMSI_Def)		
5		+ It_HandleAttachReqA		
6		[TRUE]		UE Op mode C
7		+ It_HandleAttachReqC		
It_HandleAttachReqA				
8		(tcv_GMM_AttachExpect := FALSE)		Disable NAS default handler for ATTACH REQUEST
9		[tcv_GMM_AttachRec = TRUE]		ATTACH REQUEST was received and handled by NAS default handler
10		(tcv_Start := tcv_CellIndInfo.start_PS)		
11	TSP1	[(tcv_TmpAttachReqPDU.attachType = (c_GMM_AttachTypePS_Only)) AND (tcv_TmpAttachReqPDU.ptmsiORimsi ∈ (c_MobileIdPTMSI_lv (p_ptmsi))) AND (tcv_TmpAttachReqPDU.gprsCiphKeySeqNo = (c_CiphKeySeqNum (tcv_P_S_KeySeq)))]		(P) Check the contents of ATTACH REQUEST WA#NAS4648

4.4 tc_12_4_3_4

4.4.1 WA#NAS4504

Test step name	tc_12_4_3_4
Reason for change	According to the prose, T3212=infinity ie: T3212=0
Summary of change	Replaced "tsc_T3212_Def" with "tsc_T3212_0"
Source of change	New change
Label	WA#NAS4504

1	START t_Guard(720)		@sic VB ER1543 sic@
2	+ts_InitVariables		
3	(tsc_CellInfoA.nmo := tsc_NMO_II, tcv_CellInfoA.t3212 := tsc_T3212_0)		Test case specific cell settings: network mode of operation II, T3212 set to infinite. WA#NAS4504
4	+ts_MMI_SetOpModeA		
5	+ts_SS_CreateCellIDCH(tsc_CellA)		
6	+ts_SendDefSysInfo(tsc_CellA)		
7	+ts_IdleUpdated(tsc_CellA)		Turn on UE and assign a valid P-TMSI-1, P-TMSI-1 signature and RAI-1.

5 Branches executed in test case 12.4.3.4

The test case implementation executed the PS branch for NMO_II, UE_OpMode A with Integrity activated, Ciphering disabled, AutoAttach off.

6 Execution Log Files

6.1 Nokia 6630

The Nokia 6630 passed this test case on Rohde & Schwarz 3G System Simulator CRTU-W. The documentation below is enclosed as evidence of the successful test case run [1]:

Execution log files 12_4_3_4_Logs-Nokia\Index.html

These execution log files in HTML format show the dynamic behaviour of the test in a tabular view and in message sequence chart (MSC) view. All message contents are fully decoded and listed in hexadecimal format. Preliminary verdicts and the final test case verdict are listed in the log file.

- **PICS/PIXIT file 12_4_3_4-pics-pixit-Nokia.html**
HTML file containing all PICS/PIXIT parameters used for testing the PS mode

6.2 Motorola A845

The Motorola A845 passed this test case on Rohde & Schwarz 3G System Simulator CRTU-W. The documentation below is enclosed as evidence of the successful test case run [1]:

Execution log files 12_4_3_4_Logs-Motorola\Index.html

These execution log files in HTML format show the dynamic behaviour of the test in a tabular view and in message sequence chart (MSC) view. All message contents are fully decoded and listed in hexadecimal format. Preliminary verdicts and the final test case verdict are listed in the log file.

- **PICS/PIXIT file 12_4_3_4-pics-pixit-Motorola.html**
HTML file containing all PICS/PIXIT parameters used for testing the PS mode

7 References

- [1] **T1s040612**
This archive comprises HTML Execution log files, PICS/PIXIT files and the TTCN MP file

CR-Form-v7

CHANGE REQUEST

34.123-3 CR 1084 # rev - # Current version: **3.7.0**

For **HELP** on using this form, see bottom of this page or look at the pop-up text over the # symbols.

Proposed change affects: UICC apps ME Radio Access Network Core Network

Title:	# Addition of NAS test case 12.9.6 to NAS ATS V3.7.0		
Source:	# Rohde & Schwarz		
Work item code:	# N/A	Date:	# 23/09/2004
Category:	# B	Release:	# R99
	Use <u>one</u> of the following categories:		Use <u>one</u> of the following releases:
	F (correction)		2 (GSM Phase 2)
	A (corresponds to a correction in an earlier release)		R96 (Release 1996)
	B (addition of feature),		R97 (Release 1997)
	C (functional modification of feature)		R98 (Release 1998)
	D (editorial modification)		R99 (Release 1999)
	Detailed explanations of the above categories can be found in 3GPP TR 21.900 .		Rel-4 (Release 4)
			Rel-5 (Release 5)
			Rel-6 (Release 6)

Reason for change:	# To add verified GCF package 4 NAS test case 12.9.6 to the approved NAS ATS V3.7.0
Summary of change:	# This document lists all changes applied to test case 12.9.6 required for approval. See detailed change description for further information.
Consequences if not approved:	# Test case will not be added to ATS

Clauses affected:	# N/A								
Other specs affected:	<table border="1" style="display: inline-table; vertical-align: middle;"> <tr> <td style="width: 20px; text-align: center;">Y</td> <td style="width: 20px; text-align: center;">N</td> </tr> <tr> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> </tr> <tr> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> </tr> <tr> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> </tr> </table> Other core specifications # Test specifications # O&M Specifications #	Y	N	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Y	N								
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>								
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>								
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>								
Other comments:	#								

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- 1) Fill out the above form. The symbols above marked # contain pop-up help information about the field that they are closest to.
- 2) Obtain the latest version for the release of the specification to which the change is proposed. Use the MS Word "revision marks" feature (also known as "track changes") when making the changes. All 3GPP specifications can be downloaded from the 3GPP server under <ftp://ftp.3gpp.org/specs/> For the latest version, look for the directory name with the latest date e.g. 2001-03 contains the specifications resulting from the March 2001 TSG meetings.

- 3) With "track changes" disabled, paste the entire CR form (use CTRL-A to select it) into the specification just in front of the clause containing the first piece of changed text. Delete those parts of the specification which are not relevant to the change request.

Title: Changes to test case 12.9.6 required for approval
Source: Rohde & Schwarz
Agenda Item: TTCN Issues
Document for: Approval
Contact: Thomas Moosburger
thomas.moosburger@rsd.rohde-schwarz.com
Tel. +49 89 4129 11731

1 Overview

This document lists all the changes needed to correct problems in the TTCN implementation of test case 12.9.6 which is part of the NAS test suite. Only essential changes to the TTCN are applied and documented in section 4.

With these changes applied the test case can be demonstrated to run with one or more 3G UEs (see section 6). Execution log files are provided as evidence.

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3 Verification Test Summary

Test Case: TC_12_9_6
Test Group: GMM/ ServiceRequest_procedures
ATS Version: iWD-TVB2003-03_D04wk31 + essential modifications
System Simulator used: Rohde & Schwarz 3G system simulator CRTU-W
UE used: Nokia 7600
Verification Status: PASS

4 Corrections required for test case 12.9.6

4.1 Introduction

This section describes the changes required to make test case 12.9.6 run correctly with a 3G UE. All modifications are marked with label **WA#NAS<number>** for NAS related changes in the TTCN comments column of the enclosed ATS [1].

The ATS version used as basis was NAS_wk31.mp which is part of the iWD-TVB2003-03_D04wk31 release. This ATS provided by MCC160 which contains GCF package 1 to 4 test cases.

The enclosed ATS [1] contains a number of additional changes (see list below) in common test steps which are required for other tests, but which are not applicable to test case 12.9.6:

WA#NAS4395, WA#NAS4426 & WA#NAS4427

4.2 ts_GMM_DetachOnSwitchOff (WA#NAS4453)

Test step name	ts_GMM_DetachOnSwitchOff
Reason for change	PS detach would be performed in an NMO_II test case, if ATT Flag is OFF
Summary of change	Added (tcv_TmpCellInfo.nmo = tsc_NMO_II)
Source of change	New change
Label	WA#NAS4453

2	[pc_SwitchOnOff]		UE can actually be switched off
3	+ts_SetTmpCellInfo (p_CellId)		Get CellInfo to be used later
4	+lt_Init_RRC_RelStatus		
5	+ts_MMI_UE_SwitchOff		
6	+ts_RRC_ConnEst(p_CellId, est_MO, detach)		
7	[(tcv_TmpCellInfo.attFlag = tsc_AttOff) AND (tcv_TmpCellInfo.nmo = tsc_NMO_I)]		ATT flag is not set, only GPRS detach is required WA#NAS4453
8	+lt_Detach_POnly		
9	+ts_RRC_ConnRel_AfterSwitchOff(p_CellId, tcv_RRC_RelStatus)		
10	[(tcv_UE_OpMode = opModeA) AND (tcv_TmpCellInfo.nmo = tsc_NMO_I)]		If UE is in operation mode A and network mode of operation is I, then run combined PS/C S procedures.
11	+lt_Detach_NMO_I		

4.3 tc_12_9_6

4.3.1 WA#NAS4584

Test step name tc_12_9_6 : lt_TestBody
Reason for change Missing Confirm message for AT command +CGACT=1,1
Summary of change Added CNF message
Source of change New change
Label WA#NAS4584

28	+lt_ServiceRej		Steps 8 and 9
29	+ts_AT_OrgPS_Call (tsc_CellA)		Step 11. Trigger a PDP context activation via AT command
30	Ut ? AT_CmdCnf	ca_AT_CmdCnf	WA#NAS4584
31	+ts_VerifyNoAccess (30)		Step 12. Verify UE does not attempt to access the network (for 30s)
32	(tcv_AssignedPTMSI := px_PTMSI_Def)		
33	+ts_GMM_InitVariablesPS		
34	+ts_PS_Paging_PTMSI (tsc_CellA, tcv_RRC_PagingCau)		Step 13

4.3.2 WA#NAS4557

Test step name tc_12_9_6 : lt_Attach_Steps_4To6
Reason for change Incorrect RAI expected in Attach Request message
Summary of change Replaced "c_RAI_Def_v" with "c_RAI_v"
Source of change New change
Label WA#NAS4557

It_Attach_Steps_4To6			
39	+ts_RRC_ConnEst(tsc_CellA, est_Reg, registration)		
40	Dc ? RRC_DataInd (tcv_Start := RRC_DataInd.start)	car_PS_InitDirectTransfer(tsc_CellDedicated, tsc_RB3, cr_AttachReq (c_GMM_AttachTypePS_Only, c_MobileIdPTMSI_lv Def, c_RAI_v(tcv_CellInfoA.mcc, tcv_CellInfoA.mnc, tcv_CellInfoA.lac, tcv_CellInfoA.rac), tcv_PS_KeySeq))	Step 5. ATTACH REQUEST (paramters assigned in Idle Updated procedure) - Attach type is 'PS attach' - MobileId P-TMSI-1 - RAI-1 - PTMSI-1 signature WA#NAS4557
41	+ ts_SS_SecurityDownloadStart (ps_domain, tcv_Start)		
42	+ ts_GMM_AuthenticateAndStartIntegrityProtection (tsc_CellA)		

4.3.3 WA#NAS4499

Test step name tc_12_9_6 : It_ServiceRej

Reason for change According to 24.008 Clau 4.7.13.4, The UE shall delete any TMSI, LAI and ciphering key sequence number.

Summary of change Added (tcv_PS_KeySeq := '111'B)

Source of change New change

Label WA#NAS4499

It_ServiceRej			
45	+ts_RRC_ConnEst(tsc_CellA, est_MO, ?)		
46	Dc ? RRC_DataInd (tcv_Start := RRC_DataInd.start)	car_PS_InitDirectTransfer(tsc_CellDedicated, tsc_RB3, cr_ServiceRequest(c_ServiceTypeSignalling, c_MobileIdPTMSI_lv (tcv_AssignedPTMSI), tcv_PS_KeySeq))	SERVICE REQUEST - Service type is 'Signalling' - Mobile Id is current P-TMSI
47	+ ts_SS_SecurityDownloadStart (ps_domain, tcv_Start)		
48	Dc ! RRC_DataReq	ca_PS_DataReq(tsc_CellDedicated, tsc_RB3, cs_ServiceReject ('0B'0))	SERVICE REJECT - reject cause = 'PLMN not allowed'
49	(tcv_PS_KeySeq := '111'B)		WA#NAS4499
50	+ts_RRC_ConnRel(tsc_CellA, cell_Dch)		
51	Ut ? AT_CmdCnf	ca_AT_CmdCnf	

5 Branches executed in test case 12.9.6

The test case implementation executed the PS branch for NMO_II, UE_OpMode A with Integrity activated, Cipherring disabled, AutoAttach off.

6 Execution Log Files

6.1 Nokia 7600

The Nokia 7600 passed this test case on Rohde & Schwarz 3G System Simulator CRTU-W. The documentation below is enclosed as evidence of the successful test case run [1]:

Execution log files 12_9_6_Logs-NokiaIndex.html

These execution log files in HTML format show the dynamic behaviour of the test in a tabular view and in message sequence chart (MSC) view. All message contents are fully decoded and listed in hexadecimal format. Preliminary verdicts and the final test case verdict are listed in the log file.

- **PICS/PIXIT file 12_9_6-pics-pixit-Nokia.html**
HTML file containing all PICS/PIXIT parameters used for testing the PS mode

7 References

- [1] **T1s040608**
This archive comprises HTML Execution log files, PICS/PIXIT files and the TTCN MP file

CR-Form-v7	
CHANGE REQUEST	
# 34.123-3	# CR 1085 # rev - # Current version: 3.7.0 #

For [HELP](#) on using this form, see bottom of this page or look at the pop-up text over the # symbols.

Proposed change affects: UICC apps# ME Radio Access Network Core Network

Title:	# Changes to GCF package 4 IR_U test case 8.3.7.9 required for approval.		
Source:	# Rohde&Schwarz		
Work item code:	# N/A	Date:	# 20/09/04
Category:	# B	Release:	# R99
	Use <u>one</u> of the following categories:		Use <u>one</u> of the following releases:
	F (correction)		2 (GSM Phase 2)
	A (corresponds to a correction in an earlier release)		R96 (Release 1996)
	B (addition of feature),		R97 (Release 1997)
	C (functional modification of feature)		R98 (Release 1998)
	D (editorial modification)		R99 (Release 1999)
	Detailed explanations of the above categories can be found in 3GPP TR 21.900 .		Rel-4 (Release 4)
			Rel-5 (Release 5)
			Rel-6 (Release 6)

Reason for change:	# To add verified GCF package 4 IR_U test case 8.3.7.9 to the approved IR_U ATS V3.6.1
Summary of change:	# This document lists all changes applied to test case 8.3.7.9 required for approval.
Consequences if not approved:	# The Test case will not be added to the ATS.

Clauses affected:	# N/A				
Other specs affected:	#				
	<table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td style="width: 20px; text-align: center;">Y</td> <td style="width: 20px; text-align: center;">N</td> </tr> <tr> <td style="text-align: center;">#</td> <td style="text-align: center;">X</td> </tr> </table> Other core specifications	Y	N	#	X
Y	N				
#	X				
	<table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td style="width: 20px; text-align: center;">#</td> <td style="width: 20px; text-align: center;">X</td> </tr> </table> Test specifications	#	X		
#	X				
	<table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td style="width: 20px; text-align: center;">#</td> <td style="width: 20px; text-align: center;">X</td> </tr> </table> O&M Specifications	#	X		
#	X				
Other comments:	#				

How to create CRs using this form:

Comprehensive information and tips about how to create CRs can be found at <http://www.3gpp.org/specs/CR.htm>. Below is a brief summary:

- 1) Fill out the above form. The symbols above marked # contain pop-up help information about the field that they are closest to.

- 2) Obtain the latest version for the release of the specification to which the change is proposed. Use the MS Word "revision marks" feature (also known as "track changes") when making the changes. All 3GPP specifications can be downloaded from the 3GPP server under <ftp://ftp.3gpp.org/specs/>. For the latest version, look for the directory name with the latest date e.g. 2001-03 contains the specifications resulting from the March 2001 TSG meetings.
- 3) With "track changes" disabled, paste the entire CR form (use CTRL-A to select it) into the specification just in front of the clause containing the first piece of changed text. Delete those parts of the specification which are not relevant to the change request.

01 Jan - 31 Dec 2004

Title: Changes to test case 8.3.7.9 required for approval

Source: Rohde & Schwarz

Agenda Item: TTCN Issues

Document for: Approval

Contact: Holger Jauch
holger.jauch@rsd.rohde-schwarz.com
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1 Overview

This document is a CR on test case 8.3.7.9. It lists all the changes needed to correct detected problems in the TTCN implementation of test case 8.3.7.9 which is part of the IR_U test suite.

With these changes applied the test case can be demonstrated to run with one or more 3G UEs (see section 6).

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3 Verification Test Summary

Test Case:	tc_8_3_7_9
Test Group:	ISHO_UTRAN_ToGSM/
ATS Version:	IR_U_wk37.mp
System Simulator used:	Rohde & Schwarz 3G system simulators CRTU-W and CRTU-G
UE used:	Nokia 6630, Ericsson U100
Verification Status:	PASS

4 Corrections required for test case 8.3.7.9

4.1 Introduction

This CR presents corrections on ISHO_UTRAN_ToGSM test case tc_8_3_7_9 required for approval.

The ATS enclosed in T1s040553 [1] contains the modifications of test case tc_8_3_7_9 described in this document.

For the ATS modifications as identified by the 'Change labels' as defined in the subsequent subclauses, the following applies:

- a) No change is required for the dynamic behaviour table of tc_8_3_7_9.
- b) All other change requests have already been submitted in previous CR T1s040548 [3] and are listed in Table 2 in subclause 4.5.

Annex A contains a table listing all change label/affected object combinations applicable to tc_8_3_7_9.

4.2 Presentation of the modifications

The modifications are presented by the use of '**Change Tables**' as described below, and by **screenshots** taken from the relevant parts of changed TTCN objects in TTCN.GR format.

In addition, if the **reason for a change** cannot be expressed in a few table lines, particular subclauses of clause 4 may be generated for detailed argumentation.

The '**Change Tables**' have the format described in the example below (all entries in the second column are for demonstration purposes only):

Table 1: Example Change Table

TTCN object	<i>tc_8_3_7_9</i>
Reference ATS	<i>IR_U_wk37.mp [2]</i>
Change Label	<i>WA#2G3RRC0110</i>
Reason for change	<i><Textual description of change reason>.</i>
Summary of change	<i><Textual description of performed changes></i>
Other affected objects	<i><GOTO fields to other change descriptions> (optional)</i>
ETSI comment	
R&S conclusion	

- TTCN object:** Identifier(s) of one or more TTCN objects having a global context in the TTCN ATS. Typically only one TTCN object occurs. More than one object is listed only, when:
- a) All objects belong to the same TTCN Object Class; and
 - b) All objects are either created, or are modified in the same systematic way; and
 - c) No other change is proposed for the listed objects.
- Reference ATS:** ETSI ATS containing the referred TTCN object(s), relative to which the current change description applies.
- Change Label:** Textual identifier starting with the fixed string 'WA#2G3RRC', followed by a 4-digit number (e.g. WA#2G3RRC0110). A Change Label is assigned when a particular problem is recognized during the verification work. More than one TTCN Object may be affected by the proposed solution to this problem.
- Reason for change:** Textual description of the reason why the change is proposed.
- Summary of change:** Short description of what is proposed for change.
- Other affected objects:** List of one or more GOTO fields, pointing to other TTCN objects having assigned the same Change Label, i.e. all other objects being affected by the problem giving rise to the current Change Label.
- ETSI comment:** This field may be used by ETSI colleagues giving a dedicated reply to the current CR document. Otherwise it is filled by the R&S 2G3 group when another kind of response is received from ETSI.
- R&S conclusion:** Filled by the R&S 2G3 group when the ETSI answer does not indicate acceptance of the change request.

4.3 Modifications inside the tc_8_3_7_9 behaviour table

N/A.

4.4 Other modifications relevant for tc_8_3_7_9

Apart from the changes referred to from previous CRs (see next subclause) no other modifications are required.

4.5 Changes referred to from previous CRs

Table 2 below lists all Change Label/Affected TTCN Object combinations of changes in the RRC ATS required for tc_8_3_7_9, which also apply to one or more other test cases previously requested for approval and being defined unchanged in a previous CR issued by Rohde&Schwarz. For each change the document ID of the previous CR and the reference ATS are also shown.

Table 2: Change labels and affected TTCN objects of the RRC ATS treated in previous CRs

Change Labels	Affected TTCN Objects	Ref. ATS	CR DocId
WA#2G3RRC0364	cr_Alert	IR_U_wk37.mp [2]	T1s0408375
WA#2G3RRC0365	cr_AttachReq	IR_U_wk37.mp [2]	T1s0408375
WA#2G3RRC0365	cr_DRXparamter_v_Any	New	T1s0408375
WA#2G3RRC0365	cr_MS_NetworkCap_lv_Any	New	T1s0408375
WA#2G3RRC0366	c_AC_RefNum_Any	New	T1s0408375
WA#2G3RRC0366	cr_AuthAndCiphRsp	IR_U_wk37.mp [2]	T1s0408375
WA#2G3RRC0367	cr_Connect	IR_U_wk37.mp [2]	T1s0408375
WA#2G3RRC0367	cr_ConnectedSubAdrs_Any	New	T1s0408375

5 Branches executed in test case 8.3.7.9

The test case was executed for the GSM 900 band in Combined Attach (CSPS) Mode, automatic attach switched on, with Integrity activated and Ciphering disabled. The execution came to a PASS.

6 Supplementary information

6.1 ATS

The TTCN ATS containing modified test case tc_8_3_7_9 is IR_U_8_3_7_9.mp.

6.2 Nokia 6630 log files

The Nokia 6630 passed this test case in Combined Attach (CSPS) mode, automatic attach switched on, on the Rohde & Schwarz 3G System Simulators CRTU-W and CRTU-G, for the 900 MHz band. The documentation below is enclosed as evidence of the successful test case run (see T1s040553 [1]):

- a) **Execution log files 8-3-7-9-CSPS-AAON-900-PASShtml-logs\Index.html**
This execution log files in HTML format show the dynamic behaviour of the test's Combined Attach (CSPS) branch, automatic attach switched on, executed for the 900 MHz band, in a tabular view and in message sequence chart (MSC) view. All message contents are fully decoded and listed in hexadecimal format. Preliminary verdicts and the final test case verdict are listed in the log file.
- b) **PICS/PIXIT file TC_8_3_7_9_Nokia_CSPS_AutoAttachOn_900_Pics_Pixit.txt**
Text file containing all PICS/PIXIT parameters used for a).

6.3 Ericsson U100 log files

The Ericsson U100 passed this test case in CS mode, on the Rohde & Schwarz 3G System Simulators CRTU-W and CRTU-G, for the 900 MHz band. The documentation below is enclosed as evidence of the successful test case run (see T1s040553 [1]):

- a) **Execution log files 8-3-7-9-CS-900-PASShtml-logs\Index.html**
This execution log files in HTML format show the dynamic behaviour of the test's CS branch, automatic attach switched on, executed for the 900 MHz band, in a tabular view and in message sequence chart (MSC) view. All message contents are fully decoded and listed in hexadecimal format. Preliminary verdicts and the final test case verdict are listed in the log file.
- b) **PICS/PIXIT file TC_8_3_7_9_Ericsson_CS_900_Pics_Pixit.txt**
Text file containing all PICS/PIXIT parameters used for a).

7 References

[1]	T1s040553.zip Archive comprising the TTCN MP file for the current CR (supplementary information).
[2]	IR_U_wk37.mp ETSI InterRat UTRAN ATS, version week 37 (2004).
[3]	T1s040548.doc Previous CR (on tc_8_3_7_5) containing change proposals also referred to in the current CR.

Annex A: List of change labels and affected TTCN objects

The following Table 3 lists all change labels being described in this document, together with the related affected TTCN objects, and the Reference ATS to which the change description applies. When no Reference ATS is present, the object is a new definition.

Table 3: List of change labels and related affected TTCN Objects and reference ATS

Change Labels	Affected TTCN Objects	Ref. ATS
WA#2G3RRC0364	cr_Alert	IR_U_wk37.mp [2]
WA#2G3RRC0365	cr_DRXparamter_v_Any	New
WA#2G3RRC0365	cr_MS_NetworkCap_lv_Any	New
WA#2G3RRC0365	cr_AttachReq	IR_U_wk37.mp [2]
WA#2G3RRC0366	c_AC_RefNum_Any	New
WA#2G3RRC0366	cr_AuthAndCiphRsp	IR_U_wk37.mp [2]
WA#2G3RRC0367	cr_ConnectedSubAdrs_Any	New
WA#2G3RRC0367	cr_Connect	IR_U_wk37.mp [2]

CR-Form-v7	
CHANGE REQUEST	
# 34.123-3	# CR 1086 # rev - # Current version: 3.7.0 #

For [HELP](#) on using this form, see bottom of this page or look at the pop-up text over the # symbols.

Proposed change affects: UICC apps# ME Radio Access Network Core Network

Title:	# Changes to GCF package 4 IR_U test case 8.3.7.5 required for approval.		
Source:	# Rohde & Schwarz		
Work item code:	# N/A	Date:	# 20/09/04
Category:	# B	Release:	# R99
	Use <u>one</u> of the following categories:		Use <u>one</u> of the following releases:
	F (correction)		2 (GSM Phase 2)
	A (corresponds to a correction in an earlier release)		R96 (Release 1996)
	B (addition of feature),		R97 (Release 1997)
	C (functional modification of feature)		R98 (Release 1998)
	D (editorial modification)		R99 (Release 1999)
	Detailed explanations of the above categories can be found in 3GPP TR 21.900 .		Rel-4 (Release 4)
			Rel-5 (Release 5)
			Rel-6 (Release 6)

Reason for change:	# To add verified GCF package 4 IR_U test case 8.3.7.5 to the approved IR_U ATS V3.6.1
Summary of change:	# This document lists all changes applied to test case 8.3.7.5 required for approval.
Consequences if not approved:	# The Test case will not be added to the ATS.

Clauses affected:	# N/A				
Other specs affected:	#				
	<table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td style="width: 20px; text-align: center;">Y</td> <td style="width: 20px; text-align: center;">N</td> </tr> <tr> <td style="text-align: center;">#</td> <td style="text-align: center;">X</td> </tr> </table> Other core specifications #	Y	N	#	X
Y	N				
#	X				
	<table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td style="width: 20px; text-align: center;">#</td> <td style="width: 20px; text-align: center;">X</td> </tr> </table> Test specifications #	#	X		
#	X				
	<table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td style="width: 20px; text-align: center;">#</td> <td style="width: 20px; text-align: center;">X</td> </tr> </table> O&M Specifications #	#	X		
#	X				
Other comments:	#				

How to create CRs using this form:

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- 2) Obtain the latest version for the release of the specification to which the change is proposed. Use the MS Word "revision marks" feature (also known as "track changes") when making the changes. All 3GPP specifications can be downloaded from the 3GPP server under <ftp://ftp.3gpp.org/specs/>. For the latest version, look for the directory name with the latest date e.g. 2001-03 contains the specifications resulting from the March 2001 TSG meetings.
- 3) With "track changes" disabled, paste the entire CR form (use CTRL-A to select it) into the specification just in front of the clause containing the first piece of changed text. Delete those parts of the specification which are not relevant to the change request.

01 Jan - 31 Dec 2004

Title: Changes to test case 8.3.7.5 required for approval

Source: Rohde & Schwarz

Agenda Item: TTCN Issues

Document for: Approval

Contact: Holger Jauch
holger.jauch@rsd.rohde-schwarz.com
Tel. +49 89 4129 11534

1 Overview

This document is a CR on test case 8.3.7.5. It lists all the changes needed to correct detected problems in the TTCN implementation of test case 8.3.7.5 which is part of the IR_U test suite.

With these changes applied the test case can be demonstrated to run with one or more 3G UEs (see section 6).

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3 Verification Test Summary

Test Case:	tc_8_3_7_5
Test Group:	ISHO_UTRAN_ToGSM/
ATS Version:	IR_U_wk37.mp
System Simulator used:	Rohde & Schwarz 3G system simulators CRTU-W and CRTU-G
UE used:	Nokia 6630, Ericsson U100
Verification Status:	PASS

4 Corrections required for test case 8.3.7.5

4.1 Introduction

This CR presents corrections on ISHO_UTRAN_ToGSM test case tc_8_3_7_5 required for approval.

The ATS enclosed in T1s040549 [1] contains the modifications of test case tc_8_3_7_5 described in this document.

For the ATS modifications as identified by the 'Change labels' as defined in the subsequent subclauses, the following principles apply:

- a) All changes that are already been submitted in previous CRs T1s040536 [3] and T1s040540 [4], and which have been **postponed** by MCC160 in T1s040536(6_2_1_1)_MCC160Comments [5] and T1s040540(8_3_7_1)_MCC160Comments [6], have been explicitly **repeated** in the body of this CR.
- b) All other changes apply to the behaviour table of tc_8_3_7_5 only and are also explicitly described in this CR.

Annex A contains a table listing all change label/affected object combinations applicable to tc_8_3_7_5.

4.2 Presentation of the modifications

The modifications are presented by the use of '**Change Tables**' as described below, and by **screenshots** taken from the relevant parts of changed TTCN objects in TTCN.GR format.

In addition, if the **reason for a change** cannot be expressed in a few table lines, particular subclauses of clause 4 may be generated for detailed argumentation.

The '**Change Tables**' have the format described in the example below (all entries in the second column are for demonstration purposes only):

Table 1: Example Change Table

TTCN object	<i>tc_8_3_7_5</i>
Reference ATS	<i>IR_U_wk37.mp [2]</i>
Change Label	<i>WA#2G3RRC0110</i>
Reason for change	<i><Textual description of change reason>.</i>
Summary of change	<i><Textual description of performed changes></i>
Other affected objects	<i><GOTO fields to other change descriptions> (optional)</i>
ETSI comment	
R&S conclusion	

- TTCN object:** Identifier(s) of one or more TTCN objects having a global context in the TTCN ATS. Typically only one TTCN object occurs. More than one object is listed only, when:
- a) All objects belong to the same TTCN Object Class; and
 - b) All objects are either created, or are modified in the same systematic way; and
 - c) No other change is proposed for the listed objects.
- Reference ATS:** ETSI ATS containing the referred TTCN object(s), relative to which the current change description applies.
- Change Label:** Textual identifier starting with the fixed string 'WA#2G3RRC', followed by a 4-digit number (e.g. WA#2G3RRC0110). A Change Label is assigned when a particular problem is recognized during the verification work. More than one TTCN Object may be affected by the proposed solution to this problem.
- Reason for change:** Textual description of the reason why the change is proposed.
- Summary of change:** Short description of what is proposed for change.
- Other affected objects:** List of one or more GOTO fields, pointing to other TTCN objects having assigned the same Change Label, i.e. all other objects being affected by the problem giving rise to the current Change Label.
- ETSI comment:** This field may be used by ETSI colleagues giving a dedicated reply to the current CR document. Otherwise it is filled by the R&S 2G3 group when another kind of response is received from ETSI.
- R&S conclusion:** Filled by the R&S 2G3 group when the ETSI answer does not indicate acceptance of the change request.

4.3 Modifications inside the tc_8_3_7_5 behaviour table

TTCN object	tc_8_3_7_5
Reference ATS	IR_U_wk37.mp [2]
Change Label	WA#2G3RRC0392
Reason for change	In It_SendMeasurementControl on the SS side compressed modes for uplink and/or downlink are not activated/deactivated according to the PIXIT settings.
Summary of change	Activation and deactivation of compressed mode for uplink and/or downlink on the SS side have been made dependent on the relevant TS Parameter value settings ('pc_InterRAT_DL_CompressedModeRequired' and 'pc_InterRAT_UL_CompressedModeRequired').
Other affected objects	
ETSI comment	
Change Label	WA#2G3RRC0394
Reason for change	In It_LocalTest and It_SubTest the constraints for measurement reports to be received are not aligned with the constraint for measurement control sent before.
Summary of change	In both local test trees replace 'cr_MeasRepInterRatMeas' by 'cr_MeasReportInterRatMeas'.
Other affected objects	
ETSI comment	
Change Label	WA#2G3RRC0395
Reason for change	In It_SubTestInitVariables the HO command is initialized such that UEs that do not support GSM AMR speech coding will send a HO Failure message with a wrong cause.
Summary of change	Make the construction of the HO command message dependent on the UE capabilities.
Other affected objects	
ETSI comment	
R&S conclusion	

Test Case	
Test Case Id:	tc_8_3_7_5
Test Group Reference:	ISHO_UTRAN_ToGSM
Purpose:	To test that the UE reactivates the old channel and transmits INTER-SYSTEM HANDOVER FAILURE message to the network on the old channel in UTRAN cell when it receives an INTER-SYSTEM HANDOVER COMMAND and the connection to GSM for handover cannot be established.
Configuration:	
Defaults:	IntersystemDef
Comments:	

Nr	Label	Behaviour Description	Constraint Ref	V...	Comments
1		START t_Guard			
2		[px_RAT=fdd]			FDD specific behaviour
3		+It_InitVariables			

Ö

It_LocalTest					
21		+It_SubtestInitVariables			
22		+ts_CC_EnterU10_MT_Speech(tsc_CellA)			step 1 Bring the mobile into Mobile terminated CC U10 state. @sic ER1607 sic@
23		+It_PhyChReconf_CompressedModeNotActivate			step 1a & 1b
24		+ts_GSM_SetCellPowerLevel2Ch (tsc_GSM_CellA, tsc_PhyCh0, tsc_PhyCh1, tsc_ChPwrLvl_High)			
25		+It_SendMeasurementControl			step 1c
26		AM ?RLC_AM_DATA_IND	car_MeasurementReport (tsc_CellDedicated, tsc_RB2, cr_MeasReportInterRatMeas (15, OMIT, ?, ?, OMIT))	(P)	Step 1d WA#2G3RRC0394
27		+It_SubTest			
It_InitVariables					
28		+ts_RRC_InitVariables(cell_DCH)			
29		(tcv_CellInfoA.lac := '0080'0, tcv_CellInfoA.rac := '00'0)			@sic T1-040654 sic@
30		+ts_GSM_InitVariablesDef			Initialises the Variables depending on the GSM Band under usage.
31		(tcv_IdleSIB11_CellA := c_SIB11_3_Intra3_Inter2_InterRAT_Def (tcv_CellInfoA, tcv_CellInfoB, tcv_CellInfoC, tcv_CellInfoD, tcv_CellInfoE, tcv_CellInfoF, tcv_G_CellInfoA, tcv_G_CellInfoB), tcv_IdleSIB12_CellA := c_SIB12_3_Intra3_Inter2_InterRAT_Def (tcv_CellInfoA, tcv_CellInfoB, tcv_CellInfoC, tcv_CellInfoD, tcv_CellInfoE, tcv_CellInfoF, tcv_G_CellInfoA, tcv_G_CellInfoB))			
32		+ts_GPRS_InitVariablesDef			@sic T1-040779 sic@

4.4 Other modifications relevant for tc_8_3_7_5

4.4.1 c_AC_RefNum_Any

TTCN object	c_AC_RefNum_Any		
Reference ATS	New		
Change Label	WA#2G3RRC0366		
Reason for change	An 'Any' constraint' is required for structured type 'AC_ReferenceNumber' in order to avoid wildcard value '?' (see 3GPP TS 34.123-3 [3] Annex E.3.7).		
Summary of change	Define new 'constraint c_AC_RefNum_Any for Structured Type 'AC_ReferenceNumber'. Note: This change has already been requested in T1s040536 [3], and has been postponed by MCC160. It is still repeated here, so that the change request and the dependency of tc_8_3_7_5 on this change are visible.		
Other affected objects	cr_AuthAndCiphRsp		
ETSI comment			
R&S conclusion			
Structured Type Constraint Declaration			
Constraint Name:	c_AC_RefNum_Any		
Group:			
Type Name:	AC_ReferenceNumber		
Derivation Path:			
Encoding Variation:			
Comments:	WA#2G3RRC0366		
Element Name	Element Value	Type Encoding	Comments
value	?		

4.4.2 cr_Alert

TTCN object	cr_Alert		
Reference ATS	IR_U_wk37.mp [2]		
Change Label	WA#2G3RRC0364		
Reason for change	Optional elements having a Structured Type have value '?' or '*'.		
Summary of change	For optional elements having a Structured Type: replace value by 'Any-constraint IF_PRESENT'. Note: This change has already been requested in T1s040540 [4], and has been postponed by MCC160. It is still repeated here, so that the change request and the dependency of tc_8_3_7_5 on this change are visible.		
Other affected objects			
ETSI comment			
R&S conclusion			
PDU Constraint Declaration			
Constraint Name:	cr_Alert (p_TI : TI)		
Group:			
PDU Name:	ALERTINGul		
Derivation Path:			
Encoding Rule Name:			
Encoding Variation:			
Comments:	ALERTING - receive constraint		
Field Name	Element Value	Type Encoding	Comments
ti	p_TI		
cC_ProtocolDiscriminator	'0011'B		
msgType	'??000001'B		
facility	cr_FacAny IF_PRESENT		WA#2G3RRC0364
userUser	cr_UserUserAny IF_PRESENT		WA#2G3RRC0364
sS_VersionInd	cr_SS_VersionIndAny IF_PRESENT		WA#2G3RRC0364

4.4.3 cr_AttachReq

TTCN object	cr_AttachReq
Reference ATS	IR_U_wk37.mp [2]
Change Label	WA#2G3RRC0365
Reason for change	cr_AttachReq has assigned value '?' to elements of a structured type, which has to be avoided (see 3GPP TS 34.123-3 [3] Annex E.3.7).
Summary of change	Replace value '?' by appropriate 'Any-constraints'. Note: This change has already been requested in T1s040536 [3], and has been postponed by MCC160. It is still repeated here, so that the change request and the dependency of tc_8_3_7_5 on this change are visible.
Other affected objects	cr_DRXparameter_v_Any , cr_MS_NetworkCap_Iv_Any
ETSI comment	
R&S conclusion	

PDU Constraint Declaration

Constraint Name:	cr_AttachReq (p_AttachType : AttachType; p_MobId : MS_Identity_Iv; p_RAI : RAI_v; p_KeySeq : KeySeq)
Group:	
PDU Name:	ATTACHREQUEST
Derivation Path:	
Encoding Rule Name:	
Encoding Variation:	
Comments:	

Field Name	Element Value	Type Encoding	Comments
skipIndicator	'0000'B		
gMMPProtocolDiscrimina... <small>Field Name</small>	tsc_GMM_PD		
msgType	'00000001'B		
msNetworkCap	cr_MS_NetworkCap_Iv_Any		WA#2G3RRC0365
gprsCiphKeySeqNo	c_CiphKeySeqNum(p_KeySeq)		
attachType	p_AttachType		
drxParameter	cr_DRXparameter_v_Any		WA#2G3RRC0365
ptmsiORimsi	p_MobId		
oldRAI	p_RAI		
msRadioAccessCap	c_MSRadioAccessCap_Iv_Any		WA#2G3RRC0365
oldPTMSI_Signature	c_PTMSI_SignatureAny IF_PRESENT		@sic OLAF R&S T1-031835 and Anite T1-03xtc2 sic@
readyTimer	c_GPRS_TimerAny IF_PRESENT		@sic OLAF T1-031835 sic@
trnsiStatus	c_TMSI_StatusAny IF_PRESENT		@sic OLAF T1-031835 sic@

4.4.4 cr_AuthAndCiphRsp

TTCN object	cr_AuthAndCiphRsp
Reference ATS	IR_U_wk37.mp [2]
Change Label	WA#2G3RRC0366
Reason for change	cr_AuthAndCiphRsp has assigned value '?' to element 'acRefNo' which has a structured type, which has to be avoided (see 3GPP TS 34.123-3 [3] Annex E.3.7).
Summary of change	In cr_AuthAndCiphRsp for element 'acRefNo' replace value '?' by 'c_AC_RefNum_Any'. Note: This change has already been requested in T1s040536 [3], and has been postponed by MCC160. It is still repeated here, so that the change request and the dependency of tc_8_3_7_5 on this change are visible.
Other affected objects	c_AC_RefNum_Any
ETSI comment	
R&S conclusion	

PDU Constraint Declaration

Constraint Name:	cr_AuthAndCiphRsp(p_authRsp : AuthRsp_tv, p_authRspExt :AuthRspExt)
Group:	
PDU Name:	AUTHENTICATIONANDCIPHERINGRESPONSE
Derivation Path:	
Encoding Rule Name:	
Encoding Variation:	
Comments:	

Field Name	Element Value	Type Encoding	Comments
skipIndicator	'0000'B		
gMMProtocolDiscriminator	tsc_GMM_PD		
msgType	'00010011'B		
spare4	'0000'B		
acRefNo	c_AC_RefNum_Any		Should be the one sent in the auth request WA#2G3RRC0366
authRsp	p_authRsp		Authentication RES
imeisv	-		No IMEISV requested
authRspExt	p_authRspExt		Authentication paramter AUTN, a UMT S challenge is requested

4.4.5 cr_Connect

TTCN object	cr_Connect
Reference ATS	IR_U_wk37.mp [2]
Change Label	WA#2G3RRC0367
Reason for change	cr_Connect has assigned value '*' to optional elements having a structured type.
Summary of change	<p>Replace value '*' by 'Any-constraint IF_PRESENT'.</p> <p>Note: This change has already been requested in T1s040540 [4], and has been postponed by MCC160. It is still repeated here, so that the change request and the dependency of tc_8_3_7_5 on this change are visible.</p>
Other affected objects	cr_ConnectedSubAdrs_Any
ETSI comment	
R&S conclusion	

PDU Constraint Declaration			
Constraint Name:	cr_Connect (p_TI : TI)		
Group:			
PDU Name:	CONNECTul		
Derivation Path:			
Encoding Rule Name:			
Encoding Variation:			
Comments:	CONNECT - receive constraint		
Field Name	Element Value	Type Encoding	Comments
ti	p_TI		
eC_ProtocolDiscriminator	'0011'B		
msgType	'??000111'B		
facility	cr_FacAny IF_PRESENT		WA#2G3RRC0367
connectedSubAdrs	cr_ConnectedSubAdrs_Any IF_PRESENT		WA#2G3RRC0367
userUser	cr_UserUserAny IF_PRESENT		WA#2G3RRC0367
sS_VersionInd	cr_SS_VersionIndAny IF_PRESENT		WA#2G3RRC0367
streamId	cr_StreamIdAny IF_PRESENT		WA#2G3RRC0367

4.4.6 cr_ConnectedSubAdrs_Any

TTCN object	cr_ConnectedSubAdrs_Any
Reference ATS	New
Change Label	WA#2G3RRC0367
Reason for change	An 'Any-constraint' for Structured Type ConnectedSubAdrs is required.
Summary of change	<p>Define new constraint 'ConnectedSubAdrs'.</p> <p>Note: This change has already been requested in T1s040540 [4], and has been postponed by MCC160. It is still repeated here, so that the change request and the dependency of tc_8_3_7_5 on this change are visible.</p>
Other affected objects	cr_Connect
ETSI comment	
R&S conclusion	

Structured Type Constraint Declaration			
Constraint Name:	cr_ConnectedSubAdrs_Any		
Group:			
Type Name:	ConnectedSubAdrs		
Derivation Path:			
Encoding Variation:			
Comments:	WA#2G3RRC0367		
Element Name	Element Value	Type Encoding	Comments
iei	'01001101'B		information element identifier
iei	?		length
subadrs	cr_SubadrsAny		Subaddress

4.4.7 cr_DRXparamter_v_Any

TTCN object	cr_DRXparamter_v_Any
Reference ATS	New
Change Label	WA#2G3RRC0365
Reason for change	An 'Any' constraint' is required for structured type 'DRXparamter' in order to avoid wildcard value '?' (see 3GPP TS 34.123-3 [3] Annex E.3.7).
Summary of change	Define new constraint 'cr_DRXparamter_v_Any' for Structured Type 'DRXparamter'. Note: This change has already been requested in T1s040536 [3], and has been postponed by MCC160. It is still repeated here, so that the change request and the dependency of tc_8_3_7_5 on this change are visible.
Other affected objects	cr_AttachReq , cr_MS_NetworkCap_Iv_Any
ETSI comment	
R&S conclusion	

Structured Type Constraint Declaration			
Constraint Name:	cr_DRXparamter_v_Any		
Group:			
Type Name:	DRXparamter		
Derivation Path:			
Encoding Variation:			
Comments:	to be used in ATTACHREQUEST constraints		
	WA#2G3RRC0365		
Element Name	Element Value	...	Comments
splitPGcycleCode	?		Split PG cycle code
cnDRXcoef	?		CN specific DRX cycle length coefficient
splitOnCCCH	?		Split on CCCH
nonDRXtimer	?		non-DRX timer

4.4.8 cr_MS_NetworkCap_Iv_Any

TTCN object	cr_MS_NetworkCap_Iv_Any
Reference ATS	New
Change Label	WA#2G3RRC0365
Reason for change	An 'Any' constraint' is required for structured type 'MS_NetworkCap_Iv' in order to avoid wildcard value '?' (see 3GPP TS 34.123-3 [3] Annex E.3.7).
Summary of change	Define new constraint 'cr_MS_NetworkCap_Iv_Any' for Structured Type 'MS_NetworkCap_Iv'. Note: This change has already been requested in T1s040536 [3], and has been postponed by MCC160. It is still repeated here, so that the change request and the dependency of tc_8_3_7_5 on this change are visible.
Other affected objects	cr_AttachReq , cr_DRXparamter_v_Any
ETSI comment	
R&S conclusion	

Structured Type Constraint Declaration			
Constraint Name:	cr_MS_NetworkCap_Iv_Any		
Group:			
Type Name:	MS_NetworkCap_Iv		
Derivation Path:			
Encoding Variation:			
Comments:	WA#2G3RRC0365		
Element Name	Element Value	...	Comments
iel	?		
value	?		MS network capability value (CSN.1 coding)

4.5 Changes referred to from previous CRs

Some changes previously requested in T1s040536 [3] and T1s040540 [4] have postponed by ETSI MCC160. Postponed changes applicable to tc_8_3_7_5 have been repeated in the previous subclause and are not referred to here.

5 Branches executed in test case 8.3.7.5

The test case was executed for the GSM 900 band in Combined Attach (CSPS) Mode, automatic attach switched on, with Integrity activated and Ciphering disabled. The execution came to a PASS.

6 Supplementary information

6.1 ATS

The TTCN ATS containing modified test case tc_8_3_7_5 is IR_U_8_3_7_5.mp.

6.2 Nokia 6630 log files

The Nokia 6630 passed this test case in Combined Attach (CSPS) mode, automatic attach switched on, on the Rohde & Schwarz 3G System Simulators CRTU-W and CRTU-G, for the 900 MHz band. The documentation below is enclosed as evidence of the successful test case run (see T1s040549 [1]):

- a) **Execution log files 8-3-7-5-CSPS-AAON-900-PASS-html-logs\Index.html**
This execution log files in HTML format show the dynamic behaviour of the test's Combined Attach (CSPS) branch, automatic attach switched on, executed for the 900 MHz band, in a tabular view and in message sequence chart (MSC) view. All message contents are fully decoded and listed in hexadecimal format. Preliminary verdicts and the final test case verdict are listed in the log file.
- b) **PICS/PIXIT file TC_8_3_7_5_Nokia_CSPS_AutoAttachOn_900_Pics_Pixit.txt**
Text file containing all PICS/PIXIT parameters used for a).

6.3 Ericsson U100 log files

The Ericsson U100 passed this test case in CS mode, on the Rohde & Schwarz 3G System Simulators CRTU-W and CRTU-G, for the 900 MHz band. The documentation below is enclosed as evidence of the successful test case run (see T1s040549 [1]):

- a) **Execution log files 8-3-7-5-CS-900-PASS-html-logs\Index.html**
This execution log files in HTML format show the dynamic behaviour of the test's CS branch, executed for the 900 MHz band, in a tabular view and in message sequence chart (MSC) view. All message contents are fully decoded and listed in hexadecimal format. Preliminary verdicts and the final test case verdict are listed in the log file.
- b) **PICS/PIXIT file TC_8_3_7_5_Ericsson_CS_900_Pics_Pixit.txt**
Text file containing all PICS/PIXIT parameters used for a).

7 References

[1]	T1s040549.zip Archive comprising the TTCN MP file for the current CR (supplementary information).
[2]	IR_U_wk37.mp ETSI InterRat UTRAN ATS, version week 37 (2004).
[3]	T1s040536.doc Previous CR (on tc_6_2_1_1) containing change proposals also referred to in the current CR.
[4]	T1s040540.doc Previous CR (on tc_8_3_7_1) containing change proposals also referred to in the current CR.
[5]	T1s040536(6_2_1_1)_MCC160Comments.doc Repy of MCC160 on T1s040536 [3].
[6]	T1s040540(8_3_7_1)_MCC160Comments.doc Repy of MCC160 on T1s040540 [4].

Annex A: List of change labels and affected TTCN objects

The following Table 2 lists all change labels being described in this document, together with the related affected TTCN objects, and the Reference ATS to which the change description applies. When no Reference ATS is present, the object is a new definition.

Table 2: List of change labels and related affected TTCN Objects and reference ATS

Change Labels	Affected TTCN Objects	Ref. ATS
WA#2G3RRC0364	cr_Alert	IR_U_wk37.mp [2]
WA#2G3RRC0365	cr_DRXparamter_v_Any	New
WA#2G3RRC0365	cr_MS_NetworkCap_lv_Any	New
WA#2G3RRC0365	cr_AttachReq	IR_U_wk37.mp [2]
WA#2G3RRC0366	c_AC_RefNum_Any	New
WA#2G3RRC0366	cr_AuthAndCiphRsp	IR_U_wk37.mp [2]
WA#2G3RRC0367	cr_ConnectedSubAdrs_Any	New
WA#2G3RRC0367	cr_Connect	IR_U_wk37.mp [2]
WA#2G3RRC0392	tc_8_3_7_5	IR_U_wk37.mp [2]
WA#2G3RRC0394	tc_8_3_7_5	IR_U_wk37.mp [2]
WA#2G3RRC0395	tc_8_3_7_5	IR_U_wk37.mp [2]

CR-Form-v7
CHANGE REQUEST
⌘ 34.123-3 CR 1087 ⌘ rev <input type="text"/> ⌘ Current version: 3.7.0 ⌘

For **HELP** on using this form, see bottom of this page or look at the pop-up text over the ⌘ symbols.

Proposed change affects: UICC apps ME Radio Access Network Core Network

Title:	⌘ Addition of GCF P4 test case 12.4.1.2 ATS V3.6.0		
Source:	⌘ Anritsu Ltd		
Work item code:	⌘ N/A	Date:	⌘ 13/09/2004
Category:	⌘ B	Release:	⌘ R99
	Use <u>one</u> of the following categories: <i>F</i> (correction) <i>A</i> (corresponds to a correction in an earlier release) <i>B</i> (addition of feature), <i>C</i> (functional modification of feature) <i>D</i> (editorial modification) Detailed explanations of the above categories can be found in 3GPP TR 21.900 .		Use <u>one</u> of the following releases: 2 (GSM Phase 2) R96 (Release 1996) R97 (Release 1997) R98 (Release 1998) R99 (Release 1999) Rel-4 (Release 4) Rel-5 (Release 5) Rel-6 (Release 6)

Reason for change:	⌘ To introduce test case 12.4.1.2 ATS V3.6.0
Summary of change:	⌘ 1 table modified in iWD-TVB2003-03_D04wk34, for details see below
Consequences if not approved:	⌘ Test case will fail with Conformant UE

Clauses affected:	⌘ N/A										
Other specs affected:	<table border="1" style="display: inline-table; border-collapse: collapse; text-align: center;"> <tr> <td style="padding: 2px 5px;">Y</td> <td style="padding: 2px 5px;">N</td> </tr> <tr> <td style="padding: 2px 5px;"><input type="checkbox"/></td> <td style="padding: 2px 5px;"><input checked="" type="checkbox"/></td> </tr> <tr> <td style="padding: 2px 5px;"><input type="checkbox"/></td> <td style="padding: 2px 5px;"><input checked="" type="checkbox"/></td> </tr> <tr> <td style="padding: 2px 5px;"><input type="checkbox"/></td> <td style="padding: 2px 5px;"><input checked="" type="checkbox"/></td> </tr> </table>	Y	N	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Other core specifications Test specifications O&M Specifications	⌘ <input type="text"/>
Y	N										
<input type="checkbox"/>	<input checked="" type="checkbox"/>										
<input type="checkbox"/>	<input checked="" type="checkbox"/>										
<input type="checkbox"/>	<input checked="" type="checkbox"/>										
Other comments:	⌘ <input type="text"/>										

How to create CRs using this form:

Comprehensive information and tips about how to create CRs can be found at <http://www.3gpp.org/specs/CR.htm>. Below is a brief summary:

- 1) Fill out the above form. The symbols above marked ⌘ contain pop-up help information about the field that they are closest to.
- 2) Obtain the latest version for the release of the specification to which the change is proposed. Use the MS Word "revision marks" feature (also known as "track changes") when making the changes. All 3GPP specifications can be downloaded from the 3GPP server under <ftp://ftp.3gpp.org/specs/>. For the latest version, look for the directory name with the latest date e.g. 2001-03 contains the specifications resulting from the March 2001 TSG meetings.
- 3) With "track changes" disabled, paste the entire CR form (use CTRL-A to select it) into the specification just in front of the clause containing the first piece of changed text. Delete those parts of the specification which are not relevant to the change request.

TSG-T WG 1 E-Mail 2004

T1-040434

01 Jan - 31 Dec 2004

Title	Introducing test case 12.4.1.2 ATS V3.6.0
Source	Anritsu
Agenda Item	N/A
Document for	Approval
Contact	Dan Fox (Anritsu) dan.fox@eu.anritsu.com Tel: +44 1582 433357

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None	4
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1 Overview

This document details the changes needed introduce test case 12.4.1.2 ATS V3.6.0 With these changes applied the test case can be demonstrated to run on at least one independent UE implementations. Only essential fixes to the TTCN are applied. This test case has been tested according to the configuration stated below:-

Reference document	TS 34.123-1 version 5.8.0 TS34.108 version 5.1.0
Referenced CRs	None
Based ATS suite	iWD-TVB2003-03_D04wk34
Integrity	Enabled
Ciphering	Disabled
Path tested	PS

2 Tables added to iWD-TVB2003-03_D04wk34

None

3 Tables Modified to iWD-TVB2003-03_D04wk34

3.1 lt_Attach_Steps_17To19

Reason for Change: As Security mode is not performed , PS key sequence would be reset by the UE.

Summary of change: Added (tcv_PS_KeySeq := '111'B)

lt_Attach_Steps_17To19			
37	(tcv_PS_KeySeq := '111'B)		
38	+ ts_MM_RegistrationHandleAttachReqIMSI (tsc_CellD)		Step 16b-17. CS registration If UE Operation mode A. Handle the receipt of ATTACH REQ @sic VB Handle Attach req during CS registration sic@
39	+ts_GMM_AuthenticateAndStartIntegrityProtection (tsc_CellD)		
40	-Dc ! RRC_DataReq (tcv_AssignedPTMSI := px_PTMSI_Def, tcv_Assigned_PTMSI_Sig := px_PTMSI_SigDef)	ca_PS_DataReq (tsc_CellDedicated, tsc_RB3, cs_AttachAcc (c_GMM_AttachResultPS_Only, c_RAI_v (tcv_CellInfoD.mcc, tcv_CellInfoD.mnc, tcv_CellInfoD.lac, tcv_CellInfoD.rac), c_PTMSI_Signature (px_PTMSI_SigDef), c_MobileIdPTMSI (px_PTMSI_Def), -))	Step 18. ATTACH ACCEPT - Attach result 'PS attached' - RAI-2 - P-TMSI-1 signature - MobileId P-TMSI-1
41	-Dc ? RRC_DataInd	car_PS_UplinkDirectTransfer (tsc_CellDedicated, tsc_RB3, cr_AttachComplete)	Step 19. ATTACH COMPLETE

CR-Form-v7
CHANGE REQUEST
⌘ 34.123-3 CR 1088 ⌘ rev <input type="text"/> ⌘ Current version: 3.7.0 ⌘

For **HELP** on using this form, see bottom of this page or look at the pop-up text over the ⌘ symbols.

Proposed change affects: UICC apps ME Radio Access Network Core Network

Title:	⌘ Addition of GCF P4 test case 10.1.2.2.3 ATS V3.6.0		
Source:	⌘ Anritsu Ltd and Racal		
Work item code:	⌘ N/A	Date:	⌘ 9/9/2004
Category:	⌘ B	Release:	⌘ R99
	Use <u>one</u> of the following categories: F (correction) A (corresponds to a correction in an earlier release) B (addition of feature), C (functional modification of feature) D (editorial modification) Detailed explanations of the above categories can be found in 3GPP TR 21.900 .		Use <u>one</u> of the following releases: 2 (GSM Phase 2) R96 (Release 1996) R97 (Release 1997) R98 (Release 1998) R99 (Release 1999) Rel-4 (Release 4) Rel-5 (Release 5) Rel-6 (Release 6)

Reason for change:	⌘ To introduce test case 10.1.2.2.3 to ATS 3.6.0		
Summary of change:	⌘ 1 table modified in iWD-TVB2003-03_D04wk34,		
Consequences if not approved:	⌘		

Clauses affected:	⌘ N/A										
Other specs affected:	<table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td style="padding: 2px;">Y</td> <td style="padding: 2px;">N</td> </tr> <tr> <td style="padding: 2px;"><input type="checkbox"/></td> <td style="padding: 2px;"><input checked="" type="checkbox"/></td> </tr> <tr> <td style="padding: 2px;"><input type="checkbox"/></td> <td style="padding: 2px;"><input checked="" type="checkbox"/></td> </tr> <tr> <td style="padding: 2px;"><input type="checkbox"/></td> <td style="padding: 2px;"><input checked="" type="checkbox"/></td> </tr> </table>	Y	N	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Other core specifications Test specifications O&M Specifications	⌘
Y	N										
<input type="checkbox"/>	<input checked="" type="checkbox"/>										
<input type="checkbox"/>	<input checked="" type="checkbox"/>										
<input type="checkbox"/>	<input checked="" type="checkbox"/>										
Other comments:	⌘										

How to create CRs using this form:

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- 2) Obtain the latest version for the release of the specification to which the change is proposed. Use the MS Word "revision marks" feature (also known as "track changes") when making the changes. All 3GPP specifications can be downloaded from the 3GPP server under <ftp://ftp.3gpp.org/specs/> For the latest version, look for the directory name with the latest date e.g. 2001-03 contains the specifications resulting from the March 2001 TSG meetings.
- 3) With "track changes" disabled, paste the entire CR form (use CTRL-A to select it) into the specification just in front of the clause containing the first piece of changed text. Delete those parts of the specification which are not relevant to the change request.

Title	Introducing test case 10.1.2.2.3 to ATS 3.6.0
Source	Anritsu
Agenda Item	N/A
Document for	Approval
Contact	Dan Fox (Anritsu) dan.fox@eu.anritsu.com Tel: +44 1582 433357

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3	Tables Modified to iWD-TVB2003-03_D04wk34	4
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1 Overview

This document details the changes needed introduce test case 10.1.2.2.3 to ATS 3.6.0. With these changes applied the test case can be demonstrated to run on at least one independent UE implementations. Only essential fixes to the TTCN are applied. This test case has been tested according to the configuration stated below:-

Reference document	TS 34.123-1 version 5.8.0 TS34.108 version 5.1.0
Referenced CRs	None
Based ATS suite	iWD-TVB2003-03_D04wk34
Integrity	Enabled
Ciphering	Disabled
Path tested	CS

2 Tables added to iWD-TVB2003-03_D04wk34

None

3 Tables Modified to iWD-TVB2003-03_D04wk34

3.1 ts_RRC_LowerLayerFailRelDPCH

Reason for Change:

Line 2 and 3: To reset the integrity on RB0.

Summary of change:

Line 2 and 3: Added calls to test step to release and configure RB0 to reset integrity.

Test Step					
Test Step Id: ts_RRC_LowerLayerFailRelDPCH (p_CellId : INTEGER)					
Test Step Group Ref: CC_Steps/					
Objective: SS release the DPCH configuration to generate lower layer failure. Then waits long enough to enable UE to perform cell update procedure. The SS sends RRC CONNECTION RELEASE message as a response to the CELL UPDATE message. The SS will check that the UE will not send any message during 60 s					
Defaults: RRC_Def1					
Comments: @SIC_NAPP					
Nr	Label	Behaviour Description	Constraint Ref	Verdict	Comments
1		+ ts_SetTmpCellInfo (p_CellId)			
2		+ts_CRLC_Rel (p_CellId ,tsc_RB0)			
3		+ts_SS_RB0_Cfg (p_CellId)			
4		+ ts_SS_RelDPCH (p_CellId)			
5		+ ts_RRC_ReceiveCellUpdateNonPeriodic (p_CellId, cbr_108_CellUpdate (tcv_TmpCellInfo.uRNTI, radiolinkFailure), 13500)			
6		UM!RLC_UM_DATA_REQ	cas_RRC_ConnRelCCCH (p_CellId, tsc_RB0, cs_108_RRC_ConnRelCCCH (c_U_RNTI, tcv_RRC_Ti))		
7		-+ ts_SS_AddDPCH (p_CellId)			
8		-+ ts_RRC_RandAccFail(60000)			

CHANGE REQUEST

⌘ **34.123-3 CR 1089** ⌘ rev ⌘ Current version: **3.7.0** ⌘

For **HELP** on using this form, see bottom of this page or look at the pop-up text over the ⌘ symbols.

Proposed change affects: UICC apps ME Radio Access Network Core Network

Title:	⌘ Addition of GCF P4 test case 9.5.7.1 ATS V3.6.0		
Source:	⌘ Anritsu Ltd, R&S, Racal		
Work item code:	⌘ N/A	Date:	⌘ 14/9/2004
Category:	⌘ B	Release:	⌘ R99
	<i>Use one of the following categories:</i> F (correction) A (corresponds to a correction in an earlier release) B (addition of feature), C (functional modification of feature) D (editorial modification) Detailed explanations of the above categories can be found in 3GPP TR 21.900 .		<i>Use one of the following releases:</i> 2 (GSM Phase 2) R96 (Release 1996) R97 (Release 1997) R98 (Release 1998) R99 (Release 1999) Rel-4 (Release 4) Rel-5 (Release 5) Rel-6 (Release 6)

Reason for change:	⌘ To introduce test case 9.5.7.1 to ATS 3.6.0		
Summary of change:	⌘ 1 table modified in iWD-TVB2003-03_D04wk34, For more details see below.		
Consequences if not approved:	⌘ Test case will fail with Conformant UE		

Clauses affected:	⌘ N/A										
Other specs affected:	<table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td style="width: 20px; text-align: center;">Y</td> <td style="width: 20px; text-align: center;">N</td> </tr> <tr> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> </tr> <tr> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> </tr> <tr> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> </tr> </table>	Y	N	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Other core specifications Test specifications O&M Specifications	⌘ <input type="text"/>
Y	N										
<input type="checkbox"/>	<input checked="" type="checkbox"/>										
<input type="checkbox"/>	<input checked="" type="checkbox"/>										
<input type="checkbox"/>	<input checked="" type="checkbox"/>										
Other comments:	⌘ <input type="text"/>										

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- 2) Obtain the latest version for the release of the specification to which the change is proposed. Use the MS Word "revision marks" feature (also known as "track changes") when making the changes. All 3GPP specifications can be downloaded from the 3GPP server under <ftp://ftp.3gpp.org/specs/> For the latest version, look for the directory name with the latest date e.g. 2001-03 contains the specifications resulting from the March 2001 TSG meetings.

- 3) With "track changes" disabled, paste the entire CR form (use CTRL-A to select it) into the specification just in front of the clause containing the first piece of changed text. Delete those parts of the specification which are not relevant to the change request.

01 Jan - 31 Dec 2004

Title	Introducing test case 9.5.7.1 to ATS 3.6.0
Source	Anritsu
Agenda Item	N/A
Document for	Approval
Contact	Dan Fox (Anritsu) dan.fox@eu.anritsu.com Tel: +44 1582 433357

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3	Tables Modified to iWD-TVB2003-03_D04wk34	5
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2 Overview

This document details the changes needed to introduce test case 9.5.7.1 to ATS 3.6.0. With these changes applied the test case can be demonstrated to run on at least one independent UE implementations. Only essential fixes to the TTCN are applied. This test case has been tested according to the configuration stated below:-

Reference document	TS 34.123-1 version 5.8.0 TS34.108 version 5.1.0
Referenced CRs	None
Based ATS suite	iWD-TVB2003-03_D04wk34
Integrity	Enabled
Ciphering	Disabled
Path tested	CS

1 Tables added to iWD-TVB2003-03_D04wk34

None

2 Tables Modified to iWD-TVB2003-03_D04wk34

2.1 lt_Continue

Reason for Change: In `lt_Continue` Line24 `RAU_Req` was handled as per T1-040949 but `RAU_Reject` was NOT implemented in TTCN.

Summary of change: Added a local tree `lt_Handle_RAUReject` to handle RAU Reject.

lt_Continue		
23	<code>+ts_SS_SwitchCellPowerLevels (tsc_CellB, tsc_CellA)</code>	Steps 13: RF level change to make the UE reselect cell A
24	<code>+ts_GMM_PrepareRAU</code>	6. @SIC EW CR T1-040949 SIC@
25	<code>+lt_Handle_RAUReject</code>	
26	<code>-+ts_NAS_Delay (5000)</code>	Step 14: 4.
27	<code>-+ts_NAS_Delay (420000)</code>	Steps 15-16: 5.
28	<code>-+ts_RRC_ConnEst_DCH_MT_TMSI_NoReact (tsc_CellA, terminatingConversationalCall, px_TMSI_Def, 3000)</code>	Steps 17-18
29	<code>-+ts_MM_NoCM_Services(30000)</code>	Steps 19-20 @SIC EW ER 1874 SIC@
30	<code>-+ts_MM_ChkEcallIMEI_NoKey(tsc_CellA)</code>	Steps 21-30 @SIC_NAPP EW T1-031499 SIC@
31	<code>-+ts_MM_IMSI_DetachNoReaction (3000, tsc_USIM_NeedRmv)</code>	Steps 31-32
32	<code>-+ts_MM_PwrOrUSIM_On(tsc_USIM_NeedRmv)</code>	Step 33: Activate the UE
33	<code>-+ts_MM_LupAuth3 (tsc_CellA, c_MobileIdTMSI_Def, c_MobileIdIMSI_lv, tcv_CellInfoA.mcc, tcv_CellInfoA.mnc,</code>	Steps 34-41

	tsc_LAC_Deleted, tsc_CellInfoA.lac, tsc_LUT_Normal, tsc_KeySeqDeleted, tsc_CS_KeySeq)		
34	-+ts_RRC_ConnRel(tsc_Cella, cell_Dch)		Steps 42-43: Connection Release
<u>lt_Handle_RAUReject</u>			
35	[pc_PS = TRUE]		
36	+ts_RRC_ConnEst(tsc_Cella, est_Reg, registration)		
37	+ts_GMM_RAU_Reject(tsc_Cella,tsc_RejCauRoamingNot)		
38	+ts_RRC_ConnRel(tsc_Cella, cell_Dch)		
39	[pc_PS = FALSE]		

CR-Form-v7

CHANGE REQUEST

34.123-3 CR 1090 # rev - # Current version: **3.7.0**

For **HELP** on using this form, see bottom of this page or look at the pop-up text over the # symbols.

Proposed change affects: UICC apps ME Radio Access Network Core Network

Title:	# Addition of GCF P4 test cases 8.1.12 to RRC ATS v3.6.1		
Source:	# Anite		
Work item code:	# N/A	Date:	# 21/09/04
Category:	# B	Release:	# R99
	Use <u>one</u> of the following categories:		Use <u>one</u> of the following releases:
	F (correction)		2 (GSM Phase 2)
	A (corresponds to a correction in an earlier release)		R96 (Release 1996)
	B (addition of feature),		R97 (Release 1997)
	C (functional modification of feature)		R98 (Release 1998)
	D (editorial modification)		R99 (Release 1999)
	Detailed explanations of the above categories can be found in 3GPP TR 21.900 .		Rel-4 (Release 4)
			Rel-5 (Release 5)
			Rel-6 (Release 6)

Reason for change:	# To add verified GCF package 4 RRC test cases 8.1.12 to the approved RRC ATS V3.6.1
Summary of change:	# This document lists all changes applied to test cases 8.1.12 required for approval. See detailed change description for further information.
Consequences if not approved:	# Test case will not be added to ATS.

Clauses affected:	#								
Other specs affected:	#								
	<table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td style="width: 20px; text-align: center;">Y</td> <td style="width: 20px; text-align: center;">N</td> </tr> <tr> <td style="width: 20px; text-align: center;"><input type="checkbox"/></td> <td style="width: 20px; text-align: center;"><input checked="" type="checkbox"/></td> </tr> <tr> <td style="width: 20px; text-align: center;"><input type="checkbox"/></td> <td style="width: 20px; text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td style="width: 20px; text-align: center;"><input type="checkbox"/></td> <td style="width: 20px; text-align: center;"><input checked="" type="checkbox"/></td> </tr> </table>	Y	N	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Y	N								
<input type="checkbox"/>	<input checked="" type="checkbox"/>								
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<input type="checkbox"/>	<input checked="" type="checkbox"/>								
	Other core specifications #								
	O&M Specifications #								
Other comments:	#								

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- 3) With "track changes" disabled, paste the entire CR form (use CTRL-A to select it) into the specification just in front of the clause containing the first piece of changed text. Delete those parts of the specification which are not relevant to the change request.

Title: Changes to test cases 8.1.12 required for approval
Source: Anite
Agenda Item: TTCN Issues
Document for: Approval
Contact: Philip Rose
phil.rose@anite.com
Tel. +44 1252 775200

1 Overview

This document lists all the changes needed to correct problems in the TTCN implementation of test case 8.1.12, which is part of the RRC test suite. Only essential changes to the TTCN are applied and documented in section 4.

With these changes applied the test case can be demonstrated to run with one or more 3G UEs (see section 6). Execution log files are provided as evidence.

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3 Verification Test Summary

Test Case: tc_8_1_12
Test Group: RRC_Integrity_Protection
ATS Version: iWD-TVB2003-03_D04wk31 + essential modifications
System Simulator used: Anite 3G CT
UE used: Nokia 7600 and Motorola A835
Verification Status: PASS

4 Corrections required for test cases 8.1.12

This section describes the changes required to make test case 8.1.12 run correctly with a 3G UE. The ATS version used as basis was RRC_wk31.mp, which is part of the iWD-TVB2003-03_D04wk31 release.

4.1 Change 1

Test Case	tc_8_1_12, local test step It_ToGuaranteeRRC_MSQN_DL_IsInitialisedInUE
Reason for change	Missing initialisation of UE capability function prior to exchanging UE capability messages between SS and UE.
Summary of change	Test step ts_InitCapability inserted in It_ToGuaranteeRRC_MSQN_DL_IsInitialisedInUE.
Source of change	New change

Before:

It_SetRRC_MesgSQLError					
0		[tcv_RRC_MSN_RB1 = 0]			@sic ER1818 sic @
1		(tcv_RRC_MSN_RB1 := 15)			@sic ER1818 sic @
2		CRLC ! CRLC_SetRRC_MessageSN_REQ	ca_DL_CRLC_SetRRC_MSN_REQ(tsc_CellDedicated, tsc_RB1, (tcv_RRC_MSN_RB1))		@sic ER1818 sic @
3		CRLC ? CRLC_SetRRC_MessageSN_CN F	ca_CRLC_SetRRC_MSN_CNF (tsc_CellDedicated, tsc_RB1)		So that the next message transmitted goes with same Message Number
0		[TRUE]			
1		(tcv_RRC_MSN_RB1 := tcv_RRC_MSN_RB1-1)			
2		CRLC ! CRLC_SetRRC_MessageSN_REQ	ca_DL_CRLC_SetRRC_MSN_REQ(tsc_CellDedicated, tsc_RB1, (tcv_RRC_MSN_RB1))		
3		CRLC ? CRLC_SetRRC_MessageSN_CN F	ca_CRLC_SetRRC_MSN_CNF (tsc_CellDedicated, tsc_RB1)		So that the next message transmitted goes with same Message Number
It_ToGuaranteeRRC_MSQN_DL_IsInitialisedInUE					
0		UM ! RLC_UM_DATA_REQ	cas_UE_CapabilityEnqUM(tsc_CellDedicated , tsc_RB1, cs_108_UE_CapabilityEnq(tsc_CellIndInfo.dl_IntegrityCheckInfo, tsc_RRC_TI))		

After:

It_SetRRC_MesgSQLError					
0		[tcv_RRC_MSN_RB1 = 0]			@sic ER1818 sic @
1		(tcv_RRC_MSN_RB1 := 15)			@sic ER1818 sic @
2		CRLC ! CRLC_SetRRC_MessageSN_REQ	ca_DL_CRLC_SetRRC_MSN_REQ(tsc_CellDedicated, tsc_RB1, (tcv_RRC_MSN_RB1))		@sic ER1818 sic @
3		CRLC ? CRLC_SetRRC_MessageSN_CN NF	ca_CRLC_SetRRC_MSN_CNF (tsc_CellDedicated, tsc_RB1)		So that the next message transmitted goes with same Message Number
0		[TRUE]			
1		(tcv_RRC_MSN_RB1 := tcv_RRC_MSN_RB1-1)			
2		CRLC ! CRLC_SetRRC_MessageSN_REQ	ca_DL_CRLC_SetRRC_MSN_REQ(tsc_CellDedicated, tsc_RB1, (tcv_RRC_MSN_RB1))		
3		CRLC ? CRLC_SetRRC_MessageSN_CN NF	ca_CRLC_SetRRC_MSN_CNF (tsc_CellDedicated, tsc_RB1)		So that the next message transmitted goes with same Message Number
It_ToGuaranteeRRC_MSQN_DL_IsInitialisedInUE					
0		+ts_InitCapability			
1		UM ! RLC_UM_DATA_REQ	cas_UE_CapabilityEnqUM(tsc_CellDedicated , tsc_RB1, cs_108_UE_CapabilityEnq(tsc_CellIndInfo.dl_IntegrityCheckInfo, tsc_RRC_TI))		

4.2 Change 2

Test Case	Modified comment in line#17
Reason for change	Step 4 of TC requires the SS to transmit rrcConnectionRelease message with an incorrect MAC-I. The corresponding comment in the same row is incorrect.
Summary of change	The comment in line#17 is changed to incorrect Integrity check info inserted
Source of change	Modified Comment

Before:

It_TestBody				
11		+ It_ToGuaranteeRRC_MesgSQN_DL_IsInitialisedInUE		This step is not suggested by Prose but is called in TTCN to guarantee for all UE's the Downlink RRC SQN for RB1 is initialised in UE.
12		+It_GetRRC_MesgSQN		To Store the Present RB1 RRC Message SQN.
13		UM!RLC_UM_DATA_REQ	cas_RRC_ConnRelDCCH (tsc_CellDedicated, tsc_RB1, cs_108_RRC_ConnRelDCCH (OMIT, tcv_RRC_TI, tcv_N308))	step 1, no Integrity check info inserted
14		+ It_CheckNoReceptionOf_RRC_ConnRelCmpl		step 2
15		+ It_SetMAC_I_Mode (erroneous)		
16		UM!RLC_UM_DATA_REQ	cas_RRC_ConnRelDCCH (tsc_CellDedicated, tsc_RB1, cs_108_RRC_ConnRelDCCH (tcv_CellIndInfo.dl_IntegrityCheckInfo, tcv_RRC_TI, tcv_N308))	step 3, no Integrity check info inserted
17		+ It_CheckNoReceptionOf_RRC_ConnRelCmpl		step 4

After:

It_TestBody				
12		+ It_ToGuaranteeRRC_MesgSQN_DL_IsInitialisedInUE		This step is not suggested by Prose but is called in TTCN to guarantee for all UE's the Downlink RRC SQN for RB1 is initialised in UE.
13		+It_GetRRC_MesgSQN		To Store the Present RB1 RRC Message SQN.
14		UM!RLC_UM_DATA_REQ	cas_RRC_ConnRelDCCH (tsc_CellDedicated, tsc_RB1, cs_108_RRC_ConnRelDCCH (OMIT, tcv_RRC_TI, tcv_N308))	step 1, no Integrity check info inserted
15		+ It_CheckNoReceptionOf_RRC_ConnRelCmpl		step 2
16		+ It_SetMAC_I_Mode (erroneous)		
17		UM!RLC_UM_DATA_REQ	cas_RRC_ConnRelDCCH (tsc_CellDedicated, tsc_RB1, cs_108_RRC_ConnRelDCCH (tcv_CellIndInfo.dl_IntegrityCheckInfo, tcv_RRC_TI, tcv_N308))	step 3, Incorrect Integrity check info inserted
18		+ It_CheckNoReceptionOf_RRC_ConnRelCmpl		step 4

4.3 Change 3

Test Step	ts_SS_PrepareCellRRC_ConnEst
Reason for change	Incorrect cell configuration in the test step checking if the UE is in idle mode at the end of the test body
Summary of change	Correct cell configuration parameter added in line#3 of ts_SS_PrepareCellRRC_ConnEst
Source of change	New change

Before:

		(tcv_TmpCellInfo.cellConfig = cell_FACH_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_BMC_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_2_PRACH_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_2_SCCPCH_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_2_SCCPCH_StandAlonePCH_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_MAC_SRB_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_DCH_MAC_SRB_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_4_FACH_Cnfg1_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_4_FACH_Cnfg2_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_3_FACH_CTCH_NoConn)		
3		[tcv_TmpCellInfo.cellConfig = cell_NoDPCH]		1
4		+ It_ReconfOldDPCH_Cell		
5		+ ts_SS_AddDPCH(p_CellId)		
6		(tcv_TmpCellInfo.cellConfig = cell_DCH_StandAloneSRB_NoConn, tcv_TmpCellInfo.DL_DPCH_SHO := TRUE, tcv_TmpCellInfo.UL_DPCH_SHO := TRUE)		
7		+ ts_SaveCellInfo(p_CellId)		

After:

		(tcv_TmpCellInfo.cellConfig = cell_FACH_BMC_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_2_PRACH_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_2_SCCPCH_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_2_SCCPCH_StandAlonePCH_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_MAC_SRB_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_DCH_MAC_SRB_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_4_FACH_Cnfg1_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_4_FACH_Cnfg2_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_3_FACH_CTCH_NoConn)		
3		[(tcv_TmpCellInfo.cellConfig = cell_NoDPCH) OR (tcv_TmpCellInfo.cellConfig = cell_DCH_6kPS_RAB_SRB) OR (tcv_TmpCellInfo.cellConfig = cell_DCH_Speech)]		1
4		+ It_ReconfOldDPCH_Cell		
5		+ ts_SS_AddDPCH(p_CellId)		
6		(tcv_TmpCellInfo.cellConfig := cell_DCH_StandAloneSRB_NoConn, tcv_TmpCellInfo.DL_DPCH_SHO := TRUE, tcv_TmpCellInfo.UL_DPCH_SHO := TRUE)		

4.4 Change 4

Test Step	It_CheckNoReceptionOf_RRC_ConnRelCmpl
Reason for change	Timer tolerance in line 25 is not as per the requirements in 34.108 section 4.2.3
Summary of change	Timer t_LowerBound is updated to take into account 10% tolerance requirement.
Source of change	New change

Before:

It_CheckNoReceptionOf_RRC_ConnRelCmpl					
25		START t_LowerBound (5000)			
26	TBP1	? TIMEOUT t_LowerBound		(P)	Check that no Connection Complete is received
27	TBF1	UM ? RLC_UM_DATA_IND CANCEL t_LowerBound	car_RRC_ConnRelCmplUM (tsc_CellDedicated, tsc_RB1, cbr_108_RRC_ConnRelCmpl (*))	(F)	

After:

It_CheckNoReceptionOf_RRC_ConnRelCmpl					
25		START t_LowerBound (5500)			
26	TBP1	? TIMEOUT t_LowerBound		(P)	Check that no Connection Complete is received
27	TBF1	UM ? RLC_UM_DATA_IND CANCEL t_LowerBound	car_RRC_ConnRelCmplUM (tsc_CellDedicated, tsc_RB1, cbr_108_RRC_ConnRelCmpl (*))	(F)	

Branches executed in test case 8.1.12

The test case 8_1_12 implementation executed the PS and CS branches with integrity activated and ciphering disabled.

5 Execution Log Files

5.1 Nokia 3G UE 7600

The Nokia 7600 passed this test case on the Anite 3G CT system. The documentation below is enclosed as evidence of the successful test case run [1]:

5.2 Motorola 3G UE A835

The Motorola A835 passed this test case on the Anite 3G CT system. The documentation below is enclosed as evidence of the successful test case run [2]:

6 References

- [1] This archive comprises text format execution log file with Nokia UE and the TTCN MP file.
- [2] This archive comprises text format execution log file with Motorola UE and the TTCN MP file.

CR-Form-v7	CHANGE REQUEST
# 34.123-3 CR 1091 # rev - # Current version: 3.7.0 #	

For **HELP** on using this form, see bottom of this page or look at the pop-up text over the # symbols.

Proposed change affects: UICC apps ME Radio Access Network Core Network

Title:	# Addition of GCF P4 test cases 8.1.7.1b to RRC ATS v3.6.1		
Source:	# Anite		
Work item code:	# N/A	Date:	# 21/09/04
Category:	# B	Release:	# R99
	Use <u>one</u> of the following categories: F (correction) A (corresponds to a correction in an earlier release) B (addition of feature), C (functional modification of feature) D (editorial modification) Detailed explanations of the above categories can be found in 3GPP TR 21.900 .		Use <u>one</u> of the following releases: 2 (GSM Phase 2) R96 (Release 1996) R97 (Release 1997) R98 (Release 1998) R99 (Release 1999) Rel-4 (Release 4) Rel-5 (Release 5) Rel-6 (Release 6)

Reason for change:	# To add verified GCF package 4 RRC test cases 8.1.7.1b to the approved RRC ATS V3.6.1
Summary of change:	# This document lists all changes applied to test cases 8.1.7.1b required for approval. See detailed change description for further information.
Consequences if not approved:	# Test case will not be added to ATS

Clauses affected:	#										
Other specs affected:	<table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td style="padding: 2px 5px;">Y</td> <td style="padding: 2px 5px;">N</td> </tr> <tr> <td style="padding: 2px 5px;"><input type="checkbox"/></td> <td style="padding: 2px 5px;"><input checked="" type="checkbox"/></td> </tr> <tr> <td style="padding: 2px 5px;"><input type="checkbox"/></td> <td style="padding: 2px 5px;"><input type="checkbox"/></td> </tr> <tr> <td style="padding: 2px 5px;"><input type="checkbox"/></td> <td style="padding: 2px 5px;"><input checked="" type="checkbox"/></td> </tr> </table>	Y	N	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Other core specifications	#
	Y	N									
<input type="checkbox"/>	<input checked="" type="checkbox"/>										
<input type="checkbox"/>	<input type="checkbox"/>										
<input type="checkbox"/>	<input checked="" type="checkbox"/>										
	<input checked="" type="checkbox"/>	O&M Specifications	#								
Other comments:	#										

How to create CRs using this form:

Comprehensive information and tips about how to create CRs can be found at <http://www.3gpp.org/specs/CR.htm>. Below is a brief summary:

- 1) Fill out the above form. The symbols above marked # contain pop-up help information about the field that they are closest to.
- 2) Obtain the latest version for the release of the specification to which the change is proposed. Use the MS Word "revision marks" feature (also known as "track changes") when making the changes. All 3GPP specifications can be downloaded from the 3GPP server under <ftp://ftp.3gpp.org/specs/> For the latest version, look for the directory name with the latest date e.g. 2001-03 contains the specifications resulting from the March 2001 TSG meetings.

- 3) With "track changes" disabled, paste the entire CR form (use CTRL-A to select it) into the specification just in front of the clause containing the first piece of changed text. Delete those parts of the specification which are not relevant to the change request.

Title: Changes to test case 8.1.7.1b required for approval
Source: Anite
Agenda Item: TTCN Issues
Document for: Approval
Contact: Philip Rose
phil.rose@anite.com
Tel. +44 1252 775200

1 Overview

This document lists all the changes needed to correct problems in the TTCN implementation of test case cases 8.1.7.1b, which are part of the RRC test suite. Only essential changes to the TTCN are applied and documented in section 4.

With these changes applied the test case can be demonstrated to run with one or more 3G UEs (see section 6). Execution log files are provided as evidence.

2 Table of Contents

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3 Verification Test Summary

Test Case: tc_8_1_7_1b
Test Group: RRC_SecurityModeCtrl
ATS Version: iWD-TVB2003-03_D04wk37
System Simulator used: Anite CT
UE used: Nokia 7600 and Motorola A835
Verification Status: PASS

4 Corrections required for test case 8.1.7.1b

4.1 Introduction

This section describes the changes required to make test cases 8.1.7.1b run correctly with a 3G UE. The ATS version used as basis was RRC_wk37.mp, which is part of the iWD-TVB2003-03_D04wk37release.

4.2 Change 1

Test step	tc_8_1_7_1b
Reason for change	Test case should always run in ciphered mode. In the current implementation, the test case can be executed with pixit parameter px_CipheringOnOff set to FALSE.
Summary of change	Checking for the Pixit px_CipheringOnOff is added at the beginning of the test case.
Source of change	New change

Before:

Test Case					
Test Case Id:	tc_8_1_7_1b				
Test Group Reference:	RRC/RRC_SecurityModeCtrl				
Purpose:	To confirm that the UE activates the new ciphering configurations after the stated activation time. To confirm that after the UE receives a SECURITY MODE COMMAND message, it transmits a SECURITY MODE COMPLETE message to the UTRAN using the old ciphering configuration together with the application of the new integrity protection configuration. To confirm that UE send SECURITY MODE FAILURE message when SS transmits a SECURITY MODE COMMAND message that causes an invalid configuration. To confirm that the UE sends a SECURITY MODE FAILURE message when UE receives an invalid SECURITY MODE COMMAND message.				
Configuration:					
Defaults:	RRC_Def1				
Comments:					
Nr	Label	Behaviour Description	Constraint Ref	Verdict	Comments
1		START t_Guard			
2		[px_RAT = fdd]			FDD specific behaviour
3		+ ts_RRC_InitVariablesPS (cell_DCH)			
4		+ pr_GotoState6_9_Or6_10_MO (tsc_CellA)			
5	TBS	(tcv_TestBody := TRUE)			
6		+ lt_TestBody			
7	TBE	(tcv_TestBody := FALSE)			
8		+ po_ConnectionAndSS_Rel (tsc_CellA)			Release the RRC Connection
9	ERR1	[px_RAT = tdd]		I	TDD specific behaviour
10	ERR2	[TRUE]		I	

After:

Test Case					
Test Case Id:	tc_8_1_7_1b				
Test Group Reference:	RRC/RRC_SecurityModeCtrl				
Purpose:	To confirm that the UE activates the new ciphering configurations after the stated activation time. To confirm that after the UE receives a SECURITY MODE COMMAND message, it transmits a SECURITY MODE COMPLETE message to the UTRAN using the old ciphering configuration together with the application of the new integrity protection configuration. To confirm that UE sends SECURITY MODE FAILURE message when SS transmits a SECURITY MODE COMMAND message that causes an invalid configuration. To confirm that the UE sends a SECURITY MODE FAILURE message when UE receives an invalid SECURITY MODE COMMAND message.				
Configuration:					
Defaults:	RRC_Def1				
Comments:					
Ind	Label	Behaviour Description	Constraint Ref	Verdict	Comments
0		START t_Guard			
1		[px_RAT = fdd]			FDD specific behaviour
2		[px_CipheringOnOff = TRUE]			
3		+ ts_RRC_InitVariablesPS (cell_DCH)			
4		+ pr_GotoState6_9_Or6_10_MO (tsc_CellA)			
5	TBS	(tcv_TestBody := TRUE)			
6		+ It_TestBody			
7	TBE	(tcv_TestBody := FALSE)			
8		+ po_ConnectionAndSS_Rel (tsc_CellA)			Release the RRC Connection
2		[TRUE]		I	Ciphering not supported, hence test case not applicable.
1	ERR1	[px_RAT = tdd]		I	TDD specific behaviour
1	ERR2	[TRUE]		I	

4.3 Change 2

Test step	tc_8_1_7_1b, local test step It_LoopUE_Capability
Reason for change	Test step It_LoopUE_Capability calls its_CRLC_GetRLC_SeqNumSecurity(tsc_CellA) to get the DL sequence numbers, but UL sequence numbers are required to check the UL ciphering activation.
Summary of change	A new local test step It_GetRB2_RLC_SQN is defined to get UL sequence number for RB 2 and the same is called at row 4 instead of ts_CRLC_GetRLC_SeqNumSecurity (tsc_CellA).
Source of change	New change

Before:

3		AM ! RLC_AM_DATA_REQ	cas_UE_CapabilityInfoCnfAM(tsc_CellDedicated , tsc_RB2, cs_108_UE_CapabilityInfoCnfAM (tsc_CellIndInfo.dl_IntegrityCheckInfo, tsc_RRC_Ti))	step 12
4		+ ts_CRRC_GetRLC_SeqNumSecurity (tsc_CellA)		Assign tcv_RLC_SeqNumDL_RB2 with the current RLC sequence number of RB2
5		(tcv_K := tcv_K+ 1)		
6		[(tcv_RLC_SeqNumDL_RB2 > tcv_CellIndInfo.ul_CipherMode.[1].rlc_SequenceNumber) AND (tcv_K > 20)]		The current RLC sequence number is higher than the RLC sequence number for activation time of UL ciphering. In addition 20 messages have been sent by UE, which means that activation time for UL integrity is started (RRC sequence number is coded with 4 bits)
7		(tcv_Res := TRUE)		Stop the loop
6		[TRUE]		

After:

3		AM ! RLC_AM_DATA_REQ	cas_UE_CapabilityInfoCnfAM(tsc_CellDedicated , tsc_RB2, cs_108_UE_CapabilityInfoCnfAM (tsc_CellIndInfo.dl_IntegrityCheckInfo, tsc_RRC_Ti))	step 12
4		+ It_GetRB2_RLC_SQN		Assign tcv_RLC_SeqNumUL_RB2 with the current RLC sequence number of RB2
5		(tcv_K := tcv_K+ 1)		
6		[(tcv_RLC_SeqNumUL_RB2 > tcv_CellIndInfo.ul_CipherMode.[1].rlc_SequenceNumber) AND (tcv_K >= 2)]		The current RLC sequence number is higher than the RLC sequence number for activation time of UL ciphering . In addition 4 messages have been sent by UE, which means that new activation time for DL Ciphering is started.
7		(tcv_Res := TRUE)		Stop the loop
6		[TRUE]		

New test step:

It_GetRB2_RLC_SQN				
0		CRLC ! CRLC_SequenceNumber_REQ	cas_GetRLC_SeqNum (tsc_CellDedicated, tsc_RB2)	
1		CRLC ? CRLC_SequenceNumber_CNF (tcv_RLC_SeqNumUL_RB2 := CRLC_SequenceNumber_CNF.count_C_LSB_UL)	car_GetRLC_SeqNum (tsc_CellDedicated, tsc_RB2)	

4.4 Change 3

Test step	tc_8_1_7_1b, local test step It_LoopUE_Capability
Reason for change	Test step It_LoopUE_Capability checks the RB2 DL sequence number against uplink ciphering activation time. Instead RB2 UL sequence number should be used. The same test step checks the value of tcv_k and breaks the loop when tcv_k is > 20. There is no need to wait till tcv_k becomes 20. Breaking the loop at tcv_k > 2 will make sure that at least one cycle of step 10 to 12 have taken place in ciphered mode.
Summary of change	Corresponding checks are modified.
Source of change	New change

Before:

3		AM !RLC_AM_DATA_REQ	cas_UE_CapabilityInfoCnfAM(tsc_CellDedicated, tsc_RB2, cs_108_UE_CapabilityInfoCnfAM(tsc_CellIndInfo.dl_IntegrityCheckInfo, tsc_RRC_Ti))	step 12
4		+ ts_CRLC_GetRLC_SeqNumSecurity (tsc_CellA)		Assign tcv_RLC_SeqNumDL_RB2 with the current RLC sequence number of RB2
5		(tcv_K := tcv_K + 1)		
6		[(tcv_RLC_SeqNumDL_RB2 > tcv_CellIndInfo.ul_CipherMode.[1].rlc_SequenceNumber) AND (tcv_K > 20)]		The current RLC sequence number is higher than the RLC sequence number for activation time of UL ciphering. In addition 20 messages have been sent by UE, which means that activation time for UL integrity is started (RRC sequence number is coded with 4 bits)
7		(tcv_Res := TRUE)		Stop the loop
6		[TRUE]		

After:

3		AM!RLC_AM_DATA_REQ	cas_UE_CapabilityInfoCnfAM(tsc_CellDedicated, tsc_RB2, cs_108_UE_CapabilityInfoCnfAM(tcv_CellIndInfo.dl_IntegrityCheckInfo, tcv_RRC_Ti))		step 12
4		+ It_GetRB2_RLC_SEQN			Assign tcv_RLC_SeqNumUL_RB2 with the current RLC sequence number of RB2
5		(tcv_K := tcv_K + 1)			
6		[(tcv_RLC_SeqNumUL_RB2 > tcv_CellIndInfo.ul_CipherMode.[1].rlc_SequenceNumber) AND (tcv_K >= 2)]			The current RLC sequence number is higher than the RLC sequence number for activation time of UL ciphering. In addition 4 messages have been sent by UE, which means that new activation time for DL Ciphering is started.
7		(tcv_Res := TRUE)			Stop the loop
6		[TRUE]			

4.5 Change 4

Test step	tc_8_1_7_1b
Reason for change	This test case assigns new ciphering key in the test body, but tcv_AuthRAND is not reinitialised to make sure that a new key is generated.
Summary of change	tcv_AuthRAND is reinitialised in the beginning on the test body.
Source of change	New change

Before:

It_TestBody					
0		+ ts_GMM_Authentication (tsc_CellA)			Steps 1a-1b
1		AM!RLC_AM_DATA_REQ	cas_InvalidDCCH_Msg (tsc_CellDedicated, tsc_RB2, cs_InvalidSecurityModeCommand (tcv_CellIndInfo.dl_IntegrityCheckInfo, tcv_RRC_Ti))		Step 2
2	TBP1	AM ? RLC_AM_DATA_IND	car_RRC_SecModeFail (tsc (P) _CellDedicated, tsc_RB2, cr_108_SecModeFail (tcv_RRC_Ti, c_FailCauWithProtErrExtNotComprehended))		Step 3
3		+It_Tx_InvalidSMC			Step 4 @sic RASH T1s04 0398 sic@

After:

It_TestBody				
0		(tcv_AuthRAND := o_BitstringXtract(tcv_AuthRAND, 128, 128, 3))		
1		+ ts_GMM_Authentication (tsc_CellA)		Steps 1a-1b
2		AMIRLC_AM_DATA_REQ	cas_InvalidDCCH_Msg (tsc_CellDedicated, tsc_RB2, cs_InvalidSecurityModeCommand (tcv_CellIndInfo.dl_IntegrityCheckInfo, tcv_RRC_Ti))	Step 2
3	TBP1	AM ? RLC_AM_DATA_IND	car_RRC_SecModeFail (tsc (P)_CellDedicated, tsc_RB2, cr_108_SecModeFail (tcv_RRC_Ti, c_FailCauWithProtErrExtNotComprehended))	Step 3

Branches executed in test case 8.1.7.1b

The test case 8_1_7_1b implementation executed the PS branch with integrity activated and ciphering enabled.

5 Execution Log Files

5.1 Nokia 3G UE 7600

The Nokia 7600 passed this test case on the Anite CT system. The documentation below is enclosed as evidence of the successful test case run [1]:

5.2 Motorola 3G UE A835

The Motorola A835 passed this test case on the Anite CT system. The documentation below is enclosed as evidence of the successful test case run [2]:

6 References

- [1] This archive comprises text format execution log file with Nokia UE and the TTCN MP file.
- [2] This archive comprises text format execution log file with Motorola UE and the TTCN MP file.

CR-Form-v7
CHANGE REQUEST
⌘ 34.123-3 CR 1092 ⌘ rev - ⌘ Current version: 3.7.0 ⌘

For **HELP** on using this form, see bottom of this page or look at the pop-up text over the ⌘ symbols.

Proposed change affects: UICC apps ME Radio Access Network Core Network

Title:	⌘ Addition of GCF P4 test case 12.2.1.6.2 ATS V3.6.0		
Source:	⌘ Anritsu Ltd		
Work item code:	⌘ N/A	Date:	⌘ 09/09/2004
Category:	⌘ B	Release:	⌘ R99
	Use <u>one</u> of the following categories: F (correction) A (corresponds to a correction in an earlier release) B (addition of feature), C (functional modification of feature) D (editorial modification) Detailed explanations of the above categories can be found in 3GPP TR 21.900 .		Use <u>one</u> of the following releases: 2 (GSM Phase 2) R96 (Release 1996) R97 (Release 1997) R98 (Release 1998) R99 (Release 1999) Rel-4 (Release 4) Rel-5 (Release 5) Rel-6 (Release 6)

Reason for change:	⌘ To introduce test case 12.2.1.6.2 ATS V3.6.0		
Summary of change:	⌘ None		
Consequences if not approved:	⌘ Test case will fail with Conformant UE		

Clauses affected:	⌘ N/A										
Other specs affected:	<table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td style="padding: 2px;">Y</td> <td style="padding: 2px;">N</td> </tr> <tr> <td style="padding: 2px;"><input type="checkbox"/></td> <td style="padding: 2px;"><input checked="" type="checkbox"/></td> </tr> <tr> <td style="padding: 2px;"><input type="checkbox"/></td> <td style="padding: 2px;"><input checked="" type="checkbox"/></td> </tr> <tr> <td style="padding: 2px;"><input type="checkbox"/></td> <td style="padding: 2px;"><input checked="" type="checkbox"/></td> </tr> </table>	Y	N	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Other core specifications Test specifications O&M Specifications	⌘
Y	N										
<input type="checkbox"/>	<input checked="" type="checkbox"/>										
<input type="checkbox"/>	<input checked="" type="checkbox"/>										
<input type="checkbox"/>	<input checked="" type="checkbox"/>										
Other comments:	⌘										

How to create CRs using this form:

Comprehensive information and tips about how to create CRs can be found at <http://www.3gpp.org/specs/CR.htm>. Below is a brief summary:

- 1) Fill out the above form. The symbols above marked ⌘ contain pop-up help information about the field that they are closest to.
- 2) Obtain the latest version for the release of the specification to which the change is proposed. Use the MS Word "revision marks" feature (also known as "track changes") when making the changes. All 3GPP specifications can be downloaded from the 3GPP server under <ftp://ftp.3gpp.org/specs/> For the latest version, look for the directory name with the latest date e.g. 2001-03 contains the specifications resulting from the March 2001 TSG meetings.
- 3) With "track changes" disabled, paste the entire CR form (use CTRL-A to select it) into the specification just in front of the clause containing the first piece of changed text. Delete those parts of the specification which are not relevant to the change request.

01 Jan - 31 Dec 2004

Title	Introducing test case 12.2.1.6.2 ATS V3.6.0
Source	Anritsu
Agenda Item	N/A
Document for	Approval
Contact	Dan Fox (Anritsu) dan.fox@eu.anritsu.com Tel: +44 1582 433357

Table Of Contents

1	Overview	3
2	Tables added to iWD-TVB2003-03_D04wk34	4
3	Tables Modified to iWD-TVB2003-03_D04wk34	4

1 Overview

This document details the changes needed to introduce test case 12.2.1.6.2 ATS V3.6.0. With these changes applied, the test case can be demonstrated to run on at least one independent UE implementation. Only essential fixes to the TTCN are applied. This test case has been tested according to the configuration stated below:-

Reference document	TS 34.123-1 version 5.8.0 TS34.108 version 5.1.0
Referenced CRs	None
Based ATS suite	iWD-TVB2003-03_D04wk31
Integrity	Enabled
Ciphering	Disabled
Path tested	PS

2 Tables added to iWD-TVB2003-03_D04wk34

None

3 Tables Modified to iWD-TVB2003-03_D04wk34

None

CR-Form-v7
CHANGE REQUEST
⌘ 34.123-3 CR 1093 ⌘ rev - ⌘ Current version: 3.7.0 ⌘

For **HELP** on using this form, see bottom of this page or look at the pop-up text over the ⌘ symbols.

Proposed change affects: UICC apps ME Radio Access Network Core Network

Title:	⌘ Addition of GCF P4 test case 12.2.1.5a.1 ATS V3.6.0		
Source:	⌘ Anritsu Ltd		
Work item code:	⌘ N/A	Date:	⌘ 10/08/2004
Category:	⌘ B	Release:	⌘ R99
	Use <u>one</u> of the following categories: F (correction) A (corresponds to a correction in an earlier release) B (addition of feature), C (functional modification of feature) D (editorial modification) Detailed explanations of the above categories can be found in 3GPP TR 21.900 .		Use <u>one</u> of the following releases: 2 (GSM Phase 2) R96 (Release 1996) R97 (Release 1997) R98 (Release 1998) R99 (Release 1999) Rel-4 (Release 4) Rel-5 (Release 5) Rel-6 (Release 6)

Reason for change:	⌘ To introduce test case 12.2.1.5a.1 ATS V3.6.0		
Summary of change:	⌘ 1 table modified in iWD-TVB2003-03_D04wk31, for details see below		
Consequences if not approved:	⌘ Test case will fail with Conformant UE		

Clauses affected:	⌘ N/A										
Other specs affected:	<table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td style="padding: 2px;">Y</td> <td style="padding: 2px;">N</td> </tr> <tr> <td style="padding: 2px;"><input type="checkbox"/></td> <td style="padding: 2px;"><input checked="" type="checkbox"/></td> </tr> <tr> <td style="padding: 2px;"><input type="checkbox"/></td> <td style="padding: 2px;"><input checked="" type="checkbox"/></td> </tr> <tr> <td style="padding: 2px;"><input type="checkbox"/></td> <td style="padding: 2px;"><input checked="" type="checkbox"/></td> </tr> </table>	Y	N	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Other core specifications Test specifications O&M Specifications	⌘
Y	N										
<input type="checkbox"/>	<input checked="" type="checkbox"/>										
<input type="checkbox"/>	<input checked="" type="checkbox"/>										
<input type="checkbox"/>	<input checked="" type="checkbox"/>										
Other comments:	⌘										

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- 1) Fill out the above form. The symbols above marked ⌘ contain pop-up help information about the field that they are closest to.
- 2) Obtain the latest version for the release of the specification to which the change is proposed. Use the MS Word "revision marks" feature (also known as "track changes") when making the changes. All 3GPP specifications can be downloaded from the 3GPP server under <ftp://ftp.3gpp.org/specs/> For the latest version, look for the directory name with the latest date e.g. 2001-03 contains the specifications resulting from the March 2001 TSG meetings.
- 3) With "track changes" disabled, paste the entire CR form (use CTRL-A to select it) into the specification just in front of the clause containing the first piece of changed text. Delete those parts of the specification which are not relevant to the change request.

01 Jan - 31 Dec 2004

Title	Introducing test case 12.2.1.5a.1 ATS V3.6.0
Source	Anritsu
Agenda Item	N/A
Document for	Approval
Contact	Dan Fox (Anritsu) dan.fox@eu.anritsu.com Tel: +44 1582 433357

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3 Tables Modified to iWD-TV2003-03_D04wk31	4
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1 Overview

This document details the changes needed introduce test case 12.2.1.5a.1 ATS V3.6.0 With these changes applied the test case can be demonstrated to run on at least one independent UE implementations. Only essential fixes to the TTCN are applied. This test case has been tested according to the configuration stated below:-

Reference document	TS 34.123-1 version 5.8.0 TS34.108 version 5.1.0
Referenced CRs	None
Based ATS suite	iWD-TVB2003-03_D04wk31
Integrity	Enabled
Ciphering	Disabled
Path tested	PS

2 Tables added to iWD-TVB2003-03_D04wk31

None

3 Tables Modified to iWD-TVB2003-03_D04wk31

3.1 lt_Steps_7To13

Reason for Change: As Security mode is not performed , PS key sequence would be reset by the UE.

Summary of change: Added (tcv_PS_KeySeq := '111'B)

lt_Steps_7To13			
30	+ts_SS_DecrementCellPowerLevel (tsc_CellA, tsc_AttenuationNonSuitableNeighbourCell - tsc_AttenuationServingCell)		Set cell A to Non Suitable Neighbour cell @sic VB 2 cells actives at the same time sic@
31	+ts_SS_IncrementCellPowerLevel (tsc_CellB, tsc_AttenuationNonSuitableNeighbourCell - tsc_AttenuationServingCell)		Set cell B to Serving cell @sic VB 2 cells actives at the same time sic@
32	(tcv_PS_KeySeq := '111'B)		
33	-+ ts_MM_RegistrationHandleAttachReqIMSI (tsc_CellB)		Step 9-11 @sic VB ER1595 sic@
34	-+ ts_GMM_AuthenticateAndStartIntegrityProtection (tsc_CellB)		@sic VB ER1595 sic@

CR-Form-v7	
CHANGE REQUEST	
⌘ 34.123-3 CR 1094 ⌘ rev - ⌘	Current version: 3.7.0 ⌘

For **HELP** on using this form, see bottom of this page or look at the pop-up text over the ⌘ symbols.

Proposed change affects: UICC apps ME Radio Access Network Core Network

Title:	⌘ Addition of GCF P4 test case 8.3.1.15 to RRC ATS V3.6.0		
Source:	⌘ Anritsu Ltd		
Work item code:	⌘ N/A	Date:	⌘ 09/08/04
Category:	⌘ B	Release:	⌘ R99
	<i>Use one of the following categories:</i> F (correction) A (corresponds to a correction in an earlier release) B (addition of feature), C (functional modification of feature) D (editorial modification) Detailed explanations of the above categories can be found in 3GPP TR 21.900 .		<i>Use one of the following releases:</i> 2 (GSM Phase 2) R96 (Release 1996) R97 (Release 1997) R98 (Release 1998) R99 (Release 1999) Rel-4 (Release 4) Rel-5 (Release 5) Rel-6 (Release 6)

Reason for change:	⌘ Introduction of GCF P2 RRC 8.3.1.15		
Summary of change:	⌘ 2 table modified in iWD-TVB2003-03_D04wk34		
Consequences if not approved:	⌘ Test case will not be introduced.		

Clauses affected:	⌘ N/A										
Other specs affected:	<table border="1" style="display: inline-table; border-collapse: collapse; text-align: center;"> <tr> <td style="width: 20px;">Y</td> <td style="width: 20px;">N</td> </tr> <tr> <td style="width: 20px;"><input type="checkbox"/></td> <td style="width: 20px;"><input checked="" type="checkbox"/></td> </tr> <tr> <td style="width: 20px;"><input type="checkbox"/></td> <td style="width: 20px;"><input checked="" type="checkbox"/></td> </tr> <tr> <td style="width: 20px;"><input type="checkbox"/></td> <td style="width: 20px;"><input checked="" type="checkbox"/></td> </tr> </table>	Y	N	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Other core specifications Test specifications O&M Specifications	⌘
Y	N										
<input type="checkbox"/>	<input checked="" type="checkbox"/>										
<input type="checkbox"/>	<input checked="" type="checkbox"/>										
<input type="checkbox"/>	<input checked="" type="checkbox"/>										
Other comments:	⌘										

How to create CRs using this form:

Comprehensive information and tips about how to create CRs can be found at <http://www.3gpp.org/specs/CR.htm>. Below is a brief summary:

- 1) Fill out the above form. The symbols above marked ⌘ contain pop-up help information about the field that they are closest to.
- 2) Obtain the latest version for the release of the specification to which the change is proposed. Use the MS Word "revision marks" feature (also known as "track changes") when making the changes. All 3GPP specifications can be downloaded from the 3GPP server under <ftp://ftp.3gpp.org/specs/>. For the latest version, look for the directory name with the latest date e.g. 2001-03 contains the specifications resulting from the March 2001 TSG meetings.
- 3) With "track changes" disabled, paste the entire CR form (use CTRL-A to select it) into the specification just in front of the clause containing the first piece of changed text. Delete those parts of the specification which are not relevant to the change request.

Title: Introduction of test case tc_8_3_1_15 required for approval
Source: Anritsu Ltd.
Agenda Item: TTCN Issues
Document for: Approval
Contact: Dan Fox (Anritsu) dan.fox@eu.anritsu.com
Tel: +44 1582 433357

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1 Overview

This document details the changes needed to introduce test case 8.2.2.31 to ATS 3.6.0. With these changes applied the test case can be demonstrated to run on at least one independent UE implementation. Only essential fixes to the TTCN are applied. This test case has been tested according to the configuration stated below:-

Reference document	TS 34.123-1 version 5.8.0 TS34.108 version 5.10.0
Referenced CRs	T1-040442
Based ATS suite	iWD-TVB2003-03_D04wk34
Integrity	Enabled
Ciphering	Disabled
Path tested	CS & PS

2 New Tables Added

None

3 Tables Modified

3.1 tc_8_3_1_15

Reason for change

1. Prior to Step 1 ñ (Line 11) Allow sometime to insure all the DL NAS PDU is dilvered to the UE before the commencement of Step 1
2. After Step 1 ñ (Line 13) Using time delay prior to the execution of disable RLC acknowledgement test step (ts_SetSS_DisableAck) cause intermittent failure
3. Step 3 & Step 4 ñ (Line 16, 17 & 18) Re-tramission of UE Capabiltiy Information is done firstly by the UE UL RLC entity prior to the re-transmission of PDU by the RRC entity with different RRC Sequence Number. However, from the SS RLC entity point of view the UE is re-transmitting L2 AM PDU with the same RLC sequence number . Therefore, no UL RRC message with same RRC Sequence Number PDU shall be received more than once the Disable L2 Acknowledgement mechanism is activated (as the re-transmission of the UL PDU with the same sequence number PDU shall be discarded by the UL RLC entity per functional specification)
4. Prior to step 7 ñ DPCH/DCH shall be reset to 13.6K standlone SRB with no connection.

Summary of Change

1. Added time delay as appropriate - (Line 11)
2. Used the AM Data Confirmation (hand shaking) in place of the time delay mechanism ñ (Line 14)
3. Modified step 3 & 4 to receive a single UE Capabiltiy Information
4. Added test step as appropriate ñ (Line 22 to 24)

Nr	Label	Behaviour Description	Constraint Ref	Verdict	Comments
1		START t_Guard			
2		[px_RAT=fdd]			FDD specific behaviour
3		+ts_RRC_InitVariables (cell_DCH)			Initial Test Case Variables
4		+lt_GotoState6_9_Or6_10_MO			Step 1 Go to State 6-9 Or 6-10. +pr_GotoState6_9_Or6_10_MO is redefined as a local tree "+lt_GotoState6_9_Or6_10_MO" so as to effect a change in the default value of the parameter MaxDAT.
5	TBS	(tcv_TestBody:=TRUE)		(P)	
6		+lt_TestBody			
7	TBE	(tcv_TestBody:=FALSE)			
8		+po_ConnectionAndSS_Rel (tsc_Cella)			Postamble
9	ERR1	[px_RAT=tdd]		I	TDD specific behaviour
10	ERR2	[TRUE]		I	
lt_TestBody					
11		+ts_RRC_Delay(250)			make there is no other PDU in the NAS message queue to avoid racing between RRC and NAS DL PDUs (i.e. to insure that the UE Cap Equiry is the only DL PDU to be xmt as the following test step is extermely time critical)

12		AM ! RLC_AM_DATA_REQ	cas_UE_CapabilityEnqWithCnf (tsc_CellDedicated, tsc_RB2, cs_108_UE_CapabilityEnq (tcv_CellIndInfo.dl_IntegrityCheckInfo, tcv_RRC_Ti))		Step 2
13		+ts_RRC_Delay (100)			
14		AM ? RLC_AM_DATA_CNF	car_AM_DataMuiCnf (tsc_CellDedicated, tsc_RB2, tsc_Mui)		Use the Cnf as
15		-+ ts_SetSS_DisableAck (tsc_CellA)			SS does not acknowledge the AM PDU from UE on RB2
16		-(tcv_K := 1)			tev_K represents here VT(DAT) of the UE_CapabilityInfo AM-PDU in the UE. It is initialised to 1 as VT(DAT) must be incremented before giving the PDU to the lower layer.
17		REPEAT lt_WaitForUE_Cap UNTIL (tcv_K = 4)			If VT(DAT) = MaxDAT, initiate RLC Reset procedure
18		+lt_WaitForUE_Cap			
19	TBP2	+ts_RRC_ReceiveCellUpdateNonPeriodic (tsc_CellA, cdr_CellUpdateErrorIndRb2or3 (tcv_CellInfoA.uRNTI, rlc_unrecoverableError), 15000)			Step 5 UE sends CELL UPDATE message with the IE "Cell update cause" set to "RLC unrecoverable error".
20		UM ! RLC_UM_DATA_REQ	cas_RRC_ConnRelCCCH (tsc_CellA, tsc_RB0, cs_108_RRC_ConnRelCCCH (tcv_CellInfoA.uRNTI, tcv_RRC_Ti))		Step 6 SS sends RRC CONNECTION RELEASE Message on CCOCH
21		+ts_RRC_Delay (tsc_WaitBeforePaging)			Step 6 Wait 5s to allow UE to go to Idle
22		(tcv_CellInfoA.cellConfig := cell_DCH_StandAloneSRB_NoConn)			
23		+ts_SS_RelDPCH (tsc_CellA)			
24		+ts_SS_AddDPCH (tsc_CellA)			
25		-+ts_C1_CheckIdleMode (tsc_CellA)			Step 7
lt_WaitForUE_Cap					
26		START t_WaitMS (500)			500ms > Timer_Poll_SRB2 (=200ms)
27	TBP1	AM ? RLC_AM_DATA_IND CANCEL t_WaitMS	car_UE_CapabilityInfoAM (tsc_CellDedicated, tsc_RB2, cr_108_UE_CapabilityInfoAM (tcv_RRC_Ti, *, *))	(P)	Step 3 SS does not acknowledge any of the AM PDUs carrying the UE CAPABILITY INFORMATION message. The UE shall re-transmit these AM PDUs until tcv_K = MAX_DAT of SRB2.
28	TBP1	? TIMEOUT t_WaitMS		(F)	
29		-(tcv_K := tcv_K + 1)			
30		AM ? RLC_AM_DATA_IND CANCEL t_WaitMS	car_UE_CapabilityInfoAM (tsc_CellDedicated, tsc_RB2, cr_108_UE_CapabilityInfoAM (tcv_RRC_Ti, *, *))		Step 3 SS does not acknowledge any of the AM PDUs carrying the UE CAPABILITY INFORMATION message. The UE shall re-transmit L2 AM PDUs until tcv_K = MAX_DAT of SRB2.
lt_GotoState6_9_Or6_10_MO					

CR-Form-v7
CHANGE REQUEST
⌘ 34.123-3 CR 1095 ⌘ rev - ⌘ Current version: 3.7.0 ⌘

For **HELP** on using this form, see bottom of this page or look at the pop-up text over the ⌘ symbols.

Proposed change affects: UICC apps ME Radio Access Network Core Network

Title:	⌘ Addition of GCF P4 test case 8.1.2.4 ATS V3.6.0		
Source:	⌘ Anritsu Ltd, Anite, R&S and Racal		
Work item code:	⌘ N/A	Date:	⌘ 9/9/2004
Category:	⌘ B	Release:	⌘ R99
	Use <u>one</u> of the following categories: F (correction) A (corresponds to a correction in an earlier release) B (addition of feature), C (functional modification of feature) D (editorial modification) Detailed explanations of the above categories can be found in 3GPP TR 21.900 .		Use <u>one</u> of the following releases: 2 (GSM Phase 2) R96 (Release 1996) R97 (Release 1997) R98 (Release 1998) R99 (Release 1999) Rel-4 (Release 4) Rel-5 (Release 5) Rel-6 (Release 6)

Reason for change:	⌘ To introduce test case 8.1.2.4 to ATS 3.6.0
Summary of change:	⌘ 1 table modified in iWD-TVB2003-03_D04wk34,
Consequences if not approved:	⌘

Clauses affected:	⌘ N/A										
Other specs affected:	<table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td style="padding: 2px;">Y</td> <td style="padding: 2px;">N</td> </tr> <tr> <td style="padding: 2px;"><input type="checkbox"/></td> <td style="padding: 2px;"><input checked="" type="checkbox"/></td> </tr> <tr> <td style="padding: 2px;"><input type="checkbox"/></td> <td style="padding: 2px;"><input checked="" type="checkbox"/></td> </tr> <tr> <td style="padding: 2px;"><input type="checkbox"/></td> <td style="padding: 2px;"><input checked="" type="checkbox"/></td> </tr> </table>	Y	N	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Other core specifications Test specifications O&M Specifications	⌘
	Y	N									
	<input type="checkbox"/>	<input checked="" type="checkbox"/>									
<input type="checkbox"/>	<input checked="" type="checkbox"/>										
<input type="checkbox"/>	<input checked="" type="checkbox"/>										
Other comments:	⌘ Prose CR T1-041511 has being raised for this TTCN change										

How to create CRs using this form:

Comprehensive information and tips about how to create CRs can be found at <http://www.3gpp.org/specs/CR.htm>. Below is a brief summary:

- 1) Fill out the above form. The symbols above marked ⌘ contain pop-up help information about the field that they are closest to.
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- 3) With "track changes" disabled, paste the entire CR form (use CTRL-A to select it) into the specification just in front of the clause containing the first piece of changed text. Delete those parts of the specification which are not relevant to the change request.

Title	Introducing test case 8.1.2.4 to ATS 3.6.0
Source	Anritsu
Agenda Item	N/A
Document for	Approval
Contact	Dan Fox (Anritsu) dan.fox@eu.anritsu.com Tel: +44 1582 433357

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1 Overview

This document details the changes needed to introduce test case 8.1.2.4 to ATS 3.6.0. With these changes applied the test case can be demonstrated to run on at least one independent UE implementations. Only essential fixes to the TTCN are applied. This test case has been tested according to the configuration stated below:-

Reference document	TS 34.123-1 version 5.8.0 TS34.108 version 5.1.0
Referenced CRs	None
Based ATS suite	iWD-TVB2003-03_D04wk34
Integrity	Enabled
Ciphering	Disabled
Path tested	CS

2 Tables added to iWD-TVB2003-03_D04wk34

None

3 Tables Modified to iWD-TVB2003-03_D04wk34

3.1 tc_8_1_2_4

Reason for Change: The current Power setting in Table 8.1.2.4 for Cell 4 is an unsuitable neighbour cell

When the UE is expected to select a cell on the new frequency it can only select a cell which is "suitable". For a cell to be suitable it is necessary for the measured CPICH RSCP to exceed $Q_{rxlevmin}$; in this case $Q_{rxlevmin}$ is -80 dBm.

The absolute accuracy requirement for CPICH RSCP measurement under normal conditions at this level is +/- 6 dBm (25.133 clause 9.1.1.1). Therefore to ensure that the UE measures a level sufficient to determine the cell is suitable it is necessary for the level to be at least -74 dBm. A further margin should be allowed for SS tolerances, cable loss etc. (note that the requirements on the SS for this in signalling tests are shown as "<FFS>" in 34.108 clause 5.4.1 and a signalling tester would not be expected to have the accuracy of an RRM tester). Therefore a level of -72 dBm would be suitable.

Summary of change: Modified Line 8 to -72 dBm as below.

Test Case					
Test Case Id: tc_8_1_2_4					
Test Group Reference: RRC/RRC_ConnMgmt/					
Purpose: To confirm that the UE retries to establish the RRC connection after the "wait time" elapses, if the UE receives an RRC CONNECTION REJECT message which includes the IE "wait time" not set to 0. To confirm that the UE performs a cell reselection when receiving an RRC CONNECTION REJECT message, containing relevant frequency information of the target cell to be re-selected.					
Configuration:					
Defaults: RRC_DefConnEst					
Comments:					
Nr	Label	Behaviour Description	Constraint Ref	Verdict	Comments
1		START t_Guard			
2		[px_RAT=fdd]			FDD specific behaviour
3		+ts_RRC_InitVariables (cell_DCH)			
4		(tcv_CellInfoA.attenuationLevel := tsc_AttLevToPower60_dBm)			
5		+ts_SS_CreateCellDCH (tsc_Cella)			Configure lower tester of Cell0
6		+ts_SendDefSysInfo (tsc_Cella)			Sends the default system information in Cella

7		+ts_IdleUpdated (tsc_CellA)			Idle Update @sic RASH ER1956 sic@
8		(tcv_CellInfoD.attenuationLevel := tsc_AttLevToPower75_dBm)			
9		(tcv_CellInfoD.attenuationLevel := tsc_AttLevToPower72_dBm)			(tcv_CellInfoD.attenuationLevel := tsc_AttLevToPower75_dBm)
10		+ts_SS_CreateCellDCH (tsc_CellD)			Configure Lower test of Cell1
11		+ts_SendDefSysInfo (tsc_CellD)			Sends the default system information in CellB
12	TBS	(tcv_TestBody:=TRUE)			
13		+ lt_TestBody			
14	TBE	(tcv_TestBody:=FALSE)			
15		+po_ConnectionAndSS_Rels			Release the RRC Connection
16	ERR1	[px_RAT=tdd]		I	TDD specific behaviour
17	ERR2	[TRUE]			

CR-Form-v7

CHANGE REQUEST

34.123-3 CR 1096 # rev - # Current version: **3.7.0**

For **HELP** on using this form, see bottom of this page or look at the pop-up text over the # symbols.

Proposed change affects: UICC apps ME Radio Access Network Core Network

Title:	# Addition of NAS test case 12.4.1.4d2 to NAS ATS V3.6.0		
Source:	# Rohde & Schwarz		
Work item code:	# N/A	Date:	# 03/09/2004
Category:	# B	Release:	# R99
	Use <u>one</u> of the following categories:		Use <u>one</u> of the following releases:
	F (correction)		2 (GSM Phase 2)
	A (corresponds to a correction in an earlier release)		R96 (Release 1996)
	B (addition of feature),		R97 (Release 1997)
	C (functional modification of feature)		R98 (Release 1998)
	D (editorial modification)		R99 (Release 1999)
	Detailed explanations of the above categories can be found in 3GPP TR 21.900 .		Rel-4 (Release 4)
			Rel-5 (Release 5)
			Rel-6 (Release 6)

Reason for change:	# To add verified GCF package 4 NAS test case 12.4.1.4d2 to the approved NAS ATS V3.6.0
Summary of change:	# This document lists all changes applied to test case 12.4.1.4d2 required for approval. See detailed change description for further information.
Consequences if not approved:	# Test case will not be added to ATS

Clauses affected:	# N/A						
Other specs affected:	<table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td style="width: 20px; text-align: center;">Y</td> <td style="width: 20px; text-align: center;">N</td> </tr> <tr> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> </tr> </table>	Y	N	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Other core specifications	#
Y	N						
<input type="checkbox"/>	<input checked="" type="checkbox"/>						
	<input type="checkbox"/>	Test specifications	#				
	<input type="checkbox"/>	O&M Specifications	#				
Other comments:	#						

How to create CRs using this form:

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- 1) Fill out the above form. The symbols above marked # contain pop-up help information about the field that they are closest to.
- 2) Obtain the latest version for the release of the specification to which the change is proposed. Use the MS Word "revision marks" feature (also known as "track changes") when making the changes. All 3GPP specifications can be downloaded from the 3GPP server under <ftp://ftp.3gpp.org/specs/> For the latest version, look for the directory name with the latest date e.g. 2001-03 contains the specifications resulting from the March 2001 TSG meetings.

- 3) With "track changes" disabled, paste the entire CR form (use CTRL-A to select it) into the specification just in front of the clause containing the first piece of changed text. Delete those parts of the specification which are not relevant to the change request.

Title: Changes to test case 12.4.1.4d2 required for approval
Source: Rohde & Schwarz
Agenda Item: TTCN Issues
Document for: Approval
Contact: Thomas Moosburger
thomas.moosburger@rsd.rohde-schwarz.com
Tel. +49 89 4129 11731

1 Overview

This document lists all the changes needed to correct problems in the TTCN implementation of test case 12.4.1.4d2 which is part of the NAS test suite. Only essential changes to the TTCN are applied and documented in section 4.

With these changes applied the test case can be demonstrated to run with one or more 3G UEs (see section 6). Execution log files are provided as evidence.

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3 Verification Test Summary

Test Case: TC_12_4_1_4d2
Test Group: GMM/ Routing_Area Updating / PS_only_RAU
ATS Version: iWD-TVB2003-03_D04wk31 + essential modifications
System Simulator used: Rohde & Schwarz 3G system simulator CRTU-W
UE used: Nokia 7600 & Motorola A845
Verification Status: PASS

4 Corrections required for test case 12.4.1.4d2

4.1 Introduction

This section describes the changes required to make test case 12.4.1.4d2 run correctly with a 3G UE. All modifications are marked with label **WA#NAS<number>** for NAS related changes in the TTCN comments column of the enclosed ATS [1].

The ATS version used as basis was NAS_wk31.mp which is part of the iWD-TVB2003-03_D04wk31 release. This is the most recent ATS provided by MCC160 which contains GCF package 1 to 4 test cases.

The enclosed ATS [1] contains a number of additional changes (see list below) in common test steps which are required for other tests, but which are not applicable to test case 12.4.1.4d2:

WA#NAS4395, WA#NAS4426 & WA#NAS4427

4.2 ts_GMM_DetachOnSwitchOff (WA#NAS4453)

Test step name	ts_GMM_DetachOnSwitchOff
Reason for change	PS detach would be performed in an NMO_II test case, if ATT Flag is OFF
Summary of change	Added (tcv_TmpCellInfo.attFlag = tsc_AttOff)
Source of change	New change
Label	WA#NAS4453

2	[pc_SwitchOnOff]		UE can actually be switched off
3	+ts_SetTmpCellInfo (p_CellId)		Get CellInfo to be used later
4	+It_Init_RRC_RelStatus		
5	+ts_MMI_UE_SwitchOff		
6	+ts_RRC_ConnEst(p_CellId, est_MO, detach)		
7	[(tcv_TmpCellInfo.attFlag = tsc_AttOff) AND (tcv_TmpCellInfo.nmo = tsc_NMO_I)]		ATT flag is not set, only GPRS detach is required WA#NAS4453
8	+It_Detach_POnly		
9	+ts_RRC_ConnRel_AfterSwitchOff(p_CellId, tcv_RRC_RelStatus)		
10	[(tcv_UE_OpMode = opModeA) AND (tcv_TmpCellInfo.nmo = tsc_NMO_I)]		If UE is in operation mode A and network mode of operation is I, then run combined PS/C S procedures.
11	+It_Detach_NMO_I		

4.3 ts_MM_RegistrationHandleAttachReqP_TMSI (WA#NAS4648)

Test step name ts_MM_RegistrationHandleAttachReqP_TMSI

Reason for change Incorrect PTMSI expected. Parameterized value in test step should be used instead.

Summary of change Replaced "c_MobileIdPTMSI_lv_Def" with "c_MobileIdPTMSI_lv (p_ptmsi)"

Source of change New change

Label WA#NAS4648

Test Step				
Test Step Id:		ts_MM_RegistrationHandleAttachReqP_TMSI (p_CellId : INTEGER; p_ptmsi : O0_8)		
Test Step Group Ref:		GMM_InternalSteps/		
Objective:		CS registration with a parallel of subsequent receipt of PS ATTACH REQUEST message containing a P-TMSI mobile id.		
Defaults:		NAS_OtherwiseFail		
Comments:		@sic VB ER1595 sic@		
Nr	Label	Behaviour Description	Constraint Ref	Comments
1		[tcv_UE_OpMode = opModeA]		UE Op mode A
2		(tcv_GMM_AttachExpect = TRUE, tcv_GMM_AttachRec := FALSE)		Set flags used by NAS default handler in order to 'catch' a GMM ATTACH REQUEST msg
3		+ts_RRC_ConnEst (p_CellId , est_Reg , registration)		
4		+ts_RegistrationOnCS (p_CellId , px_TMSI_Def)		
5		+ It_HandleAttachReqA		
6		[TRUE]		UE Op mode C
7		+ It_HandleAttachReqC		
It_HandleAttachReqA				
8		(tcv_GMM_AttachExpect := FALSE)		Disable NAS default handler for ATTACH REQUEST
9		[tcv_GMM_AttachRec = TRUE]		ATTACH REQUEST was received and handled by NAS default handler
10		(tcv_Start := tcv_CellIndInfo.start_PS)		
11	TSP1	[(tcv_TmpAttachReqPDU.attachType = (c_GMM_AttachTypePS_Only)) AND (tcv_TmpAttachReqPDU.ptmsiORimsi ∈ (c_MobileIdPTMSI_lv (p_ptmsi))) AND (tcv_TmpAttachReqPDU.gprsCiphKeySeqNo = (c_CiphKeySeqNum (tcv_P_S_KeySeq)))]		(P) Check the contents of ATTACH REQUEST WA#NAS4648

4.4 tc_12_4_1_4d2

4.4.1 WA#NAS4592

Test step name	tc_12_4_1_4d2
Reason for change	Incorrect Attach reject test step used for a NMO_II test case
Summary of change	Replaced test step "ts_GMM_CombinedAttachReject" with "ts_GMM_AttachReject"
Source of change	New change
Label	WA#NAS4592

3	+ts_GMM_Config_CellA_CellB		Configure cell A and cell B
4	+ts_GMM_AttachReject (tsc_CellA)		Invalidate temporary USIM parameters WA#NAS4592
5	+ts_GMM_SwitchOff_AfterPSRejection (tsc_CellA, tcv_CellInfoA.attFlag)		
6	+lt_TestBody		
7	+po_ConnectionAndSS_Rels		

4.4.2 WA#NAS4533

Test step name	tc_12_4_1_4d2 : lt_TestBody
Reason for change	As a Reject cause of Roaming not allowed in this area was sent to the UE, the UE would not send any IMSI detach messages during switch off
Summary of change	Replaced "ts_MM_IMSI_Detach" with "ts_MM_PwrOrUSIM_Off"
Source of change	New change
Label	WA#NAS4533

11	+ ts_CC_InitTCV_MT (px_CC_Serv)		
12	+ts_CS_Paging_TMSI (tsc_CellB, tcv_PagingCau)		Step 15
13	+ts_VerifyNoAccess (3)		Steps 16
14	+ts_MM_PwrOrUSIM_Off (TRUE)		If possible USIM removal is performed. Otherwise if possible switch off is performed . Otherwise the power is removed @sic VB USIM removal sic@ WA#NAS4533
15	+ ts_MM_PwrOrUSIM_On (TRUE)		@sic VB USIM removal sic@
16	+lt_Attach_Steps_19To23		

4.4.3 WA#NAS4647

Test step name	tc_12_4_1_4d2 : lt_Attach_Steps_3To6
Reason for change	According to the prose, TMSI status has not been explicitly mentioned as not to be expected. Moreover an AutoAttach UE would send an Attach request message with tmsistatus information based on previous registrations. Therefore TMSI status should not be expected as invalid.
Summary of change	Replaced "ts_MM_RegistrationHandleAttachReqIMSI_NoTS" with "ts_MM_RegistrationHandleAttachReqIMSI"
Source of change	New change
Label	WA#NAS4647

It_Attach_Steps_3To6			
32		+ ts_MM_RegistrationHandleAttachReqIMSI (tsc_CellA)	Step 3-4. CS registration If UE Operation mode A. Handle the receipt of ATTACH REQ @sic VB Handle Attach req during CS registration sic@ WA#NAS4647
33		+ts_GMM_AuthenticateAndStartIntegrityProtection (tsc_CellA)	

4.4.4 WA#NAS4459

Test step name tc_12_4_1_4d2 : It_Attach_Steps_19To23

Reason for change According to the prose, in Step 22, Authentication & Integrity needs to be performed.

Summary of change Added test step its_GMM_AuthenticateAndStartIntegrityProtection

Source of change New change

Label WA#NAS4459

It_Attach_Steps_19To23			
0		+ ts_MM_RegistrationHandleAttachReqP_TMSI (tsc_CellB , px_TMSI_2)	Step 19-21. CS registration If UE Operation mode A. Handle the receipt of ATTACH REQ @sic VB Handle Attach req during CS registration sic@
1		+ts_GMM_AuthenticateAndStartIntegrityProtection (tsc_CellB)	WA#NAS4459
2		Dc1 RRC_DataReq (tcv_AssignedPTMSI := px_PTMSI_Def, tcv_Assigned_PTMSI_Sig := px_PTMSI_SigDef)	ca_PS_DataReq(tsc_CellDedicated, tsc_RB3, cs_AttachAcc(c_GMM_AttachResultPS_Only, c_RAI_v(tcv_CellInfoB.mcc, tcv_CellInfoB.mnc, tcv_CellInfoB.lac, tcv_CellInfoB.rac), c_PTMSI_Signature (px_PTMSI_SigDef), c_MobileIDPTMSI (px_PTMSI_Def), -:))
			Step 22. ATTACH ACCEPT - Attach result 'PS attached' - RAI corresponding to cell B - P-TMSI- signature - MobileID P-TMSI-1

5 Branches executed in test case 12.4.1.4d2

The test case implementation executed the PS branch for NMO_II, UE_OpMode A with Integrity activated, Ciphering disabled, AutoAttach off.

6 Execution Log Files

6.1 Nokia 7600

The Nokia 7600 passed this test case on Rohde & Schwarz 3G System Simulator CRTU-W. The documentation below is enclosed as evidence of the successful test case run [1]:

- **Execution log files 12_4_1_4d2_Logs-Nokia\Index.html**
These execution log files in HTML format show the dynamic behaviour of the test in a tabular view and in message sequence chart (MSC) view. All message contents are fully decoded and listed in hexadecimal format. Preliminary verdicts and the final test case verdict are listed in the log file.
- **PICS/PIXIT file 12_4_1_4d2-pics-pixit-Nokia.html**
HTML file containing all PICS/PIXIT parameters used for testing the PS mode

6.2 Motorola A845

The Motorola A845 passed this test case on Rohde & Schwarz 3G System Simulator CRTU-W. The documentation below is enclosed as evidence of the successful test case run [1]:

- **Execution log files 12_4_1_4d2_Logs-Motorola\Index.html**
These execution log files in HTML format show the dynamic behaviour of the test in a tabular view and in message sequence chart (MSC) view. All message contents are fully decoded and listed in hexadecimal format. Preliminary verdicts and the final test case verdict are listed in the log file.
- **PICS/PIXIT file 12_4_1_4d2-pics-pixit-Motorola.html**
HTML file containing all PICS/PIXIT parameters used for testing the PS mode

7 References

- [1] **T1s040580**
This archive comprises HTML Execution log files, PICS/PIXIT files and the TTCN MP file

CR-Form-v7	
CHANGE REQUEST	
⌘ 34.123-3 CR 1097 ⌘ rev - ⌘	Current version: 3.7.0 ⌘

For **HELP** on using this form, see bottom of this page or look at the pop-up text over the ⌘ symbols.

Proposed change affects: UICC apps ME Radio Access Network Core Network

Title:	⌘ Addition of GCF P3 test case 6.1.1.7 ATS V3.6.0		
Source:	⌘ Anritsu Ltd, R&S		
Work item code:	⌘ N/A	Date:	⌘ 12/08/2004
Category:	⌘ B	Release:	⌘ R99
	<i>Use one of the following categories:</i> F (correction) A (corresponds to a correction in an earlier release) B (addition of feature), C (functional modification of feature) D (editorial modification) Detailed explanations of the above categories can be found in 3GPP TR 21.900 .		<i>Use one of the following releases:</i> 2 (GSM Phase 2) R96 (Release 1996) R97 (Release 1997) R98 (Release 1998) R99 (Release 1999) Rel-4 (Release 4) Rel-5 (Release 5) Rel-6 (Release 6)

Reason for change:	⌘ To introduce test case 6.1.1.7 to ATS 3.6.0		
Summary of change:	⌘ 12 table modified in iWD-TVB2003-03_D04wk31, 6 table added in iWD-TVB2003-03_D04wk31 For more details see below.		
Consequences if not approved:	⌘ Test case will fail with Conformant UE		

Clauses affected:	⌘ N/A						
Other specs affected:	<table border="1" style="display: inline-table; border-collapse: collapse; text-align: center;"> <tr> <td style="width: 20px;">Y</td> <td style="width: 20px;">N</td> </tr> <tr> <td><input type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> </tr> </table> Other core specifications	Y	N	<input type="checkbox"/>	<input checked="" type="checkbox"/>	⌘	
Y	N						
<input type="checkbox"/>	<input checked="" type="checkbox"/>						
	<input checked="" type="checkbox"/>	Test specifications					
	<input checked="" type="checkbox"/>	O&M Specifications					
Other comments:	⌘						

How to create CRs using this form:

Comprehensive information and tips about how to create CRs can be found at <http://www.3gpp.org/specs/CR.htm>. Below is a brief summary:

- 1) Fill out the above form. The symbols above marked ⌘ contain pop-up help information about the field that they are closest to.
- 2) Obtain the latest version for the release of the specification to which the change is proposed. Use the MS Word "revision marks" feature (also known as "track changes") when making the changes. All 3GPP specifications can be downloaded from the 3GPP server under <ftp://ftp.3gpp.org/specs/> For the latest version, look for the directory name with the latest date e.g. 2001-03 contains the specifications resulting from the March 2001 TSG meetings.

- 3) With "track changes" disabled, paste the entire CR form (use CTRL-A to select it) into the specification just in front of the clause containing the first piece of changed text. Delete those parts of the specification which are not relevant to the change request.

01 Jan - 31 Dec 2004

Title	Introducing test case 6.1.1.7 to ATS 3.6.0
Source	Anritsu
Agenda Item	N/A
Document for	Approval
Contact	Dan Fox (Anritsu) dan.fox@eu.anritsu.com Tel: +44 1582 433357

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1 Overview

This document details the changes needed introduce test case 6.1.1.7 to ATS 3.6.0. With these changes applied the test case can be demonstrated to run on at least one independent UE implementations. Only essential fixes to the TTCN are applied. This test case has been tested according to the configuration stated below:-

Reference document	TS 34.123-1 version 5.8.0 TS34.108 version 5.1.0
Referenced CRs	None
Based ATS suite	iWD-TVB2003-03_D04wk31
Integrity	Enabled
Ciphering	Disabled
Path tested	CS & PS

2 Tables added to iWD-TVB2003-03_D04wk31

2.1 cd_SIB11_RxlevMin_Freq3_PLMN1Or2

Reason for Change: Anritsu :To In co-operate new Cell Selection Reselection Info as per section 3.5

Summary of change: Anritsu : Created new constraint `cd_SIB11_RxlevMin_Freq3_PLMN1Or2` as below:

ASN.1 Type Constraint Declaration	
Constraint Name:	<code>cd_SIB11_RxlevMin_Freq3_PLMN1Or2 (p_ActiveCellInfo, p_IntraCellInfo2, p_IntraCellInfo3, p_InterCellInfo4, p_InterCellInfo5, p_InterCellInfo6, p_InterCellInfo7, p_InterCellInfo8 : CellInfoCfg)</code>
Group:	
Type Name:	<code>SysInfoType11</code>
Derivation Path:	<code>cb_SIB11_Freq3_PLMN1Or2.</code>
Encoding Variation:	
Comments:	<code>@SIC_NAPP , WA#IDLE3017</code>
Constraint Value	

<pre> REPLACE measurementControlSysInfo.use_of_HCS.hcs_not_used.cellSelectQualityMeasure.cpich_RSCP. intraFreqMeasurementSysInfo.intraFreqCellInfoSI_List.newIntraFreqCellList.[1]. cellInfo.cellSelectionReselectionInfo BY c_CellSelReselInfoSIB11_12_RSCP_Idle, REPLACE measurementControlSysInfo.use_of_HCS.hcs_not_used.cellSelectQualityMeasure.cpich_RSCP. intraFreqMeasurementSysInfo.intraFreqCellInfoSI_List.newIntraFreqCellList.[2]. cellInfo.cellSelectionReselectionInfo BY c_CellSelReselInfoSIB11_12_RSCP_Idle, REPLACE measurementControlSysInfo.use_of_HCS.hcs_not_used.cellSelectQualityMeasure.cpich_RSCP. interFreqMeasurementSysInfo.interFreqCellInfoSI_List.newInterFreqCellList.[0]. cellInfo.cellSelectionReselectionInfo BY c_CellSelReselInfoSIB11_12_RSCP_Idle, REPLACE measurementControlSysInfo.use_of_HCS.hcs_not_used.cellSelectQualityMeasure.cpich_RSCP. interFreqMeasurementSysInfo.interFreqCellInfoSI_List.newInterFreqCellList.[1]. cellInfo.cellSelectionReselectionInfo BY c_CellSelReselInfoSIB11_12_RSCP_Idle, REPLACE measurementControlSysInfo.use_of_HCS.hcs_not_used.cellSelectQualityMeasure.cpich_RSCP. interFreqMeasurementSysInfo.interFreqCellInfoSI_List.newInterFreqCellList.[2]. cellInfo.cellSelectionReselectionInfo BY c_CellSelReselInfoSIB11_12_RSCP_Idle, REPLACE measurementControlSysInfo.use_of_HCS.hcs_not_used.cellSelectQualityMeasure.cpich_RSCP. interFreqMeasurementSysInfo.interFreqCellInfoSI_List.newInterFreqCellList.[3]. cellInfo.cellSelectionReselectionInfo BY c_CellSelReselInfoSIB11_12_RSCP_Idle, REPLACE measurementControlSysInfo.use_of_HCS.hcs_not_used.cellSelectQualityMeasure.cpich_RSCP. interFreqMeasurementSysInfo.interFreqCellInfoSI_List.newInterFreqCellList.[4]. </pre>
--

2.2 cd_SIB12_RxlevMin_Frq3_PLMN1or2

Reason for Change: Anritsu: To In co-operate new Cell Selection Reselection Info as per section 3.5

Summary of change: Anritsu: Created new constraint
 îcd_SIB12_RxlevMin_Freq3_PLMN1Or2î as below:

ASN.1 Type Constraint Declaration	
Constraint Name:	cd_SIB12_RxlevMin_Freq3_PLMN1Or2 (p_ActiveCellInfo, p_IntraCellInfo2, p_IntraCellInfo3, p_InterCellInfo4, p_InterCellInfo5, p_InterCellInfo6, p_InterCellInfo7, p_InterCellInfo8 : CellInfoCfg)
Group:	
Type Name:	SysInfoType12
Derivation Path:	cb_SIB12_Freq3_PLMN1Or2.
Encoding Variation:	
Comments:	@SIC_NAPP , WA#IDLE3026
Constraint Value	

```

REPLACE
measurementControlSysInfo.use_of_HCS.hcs_not_used.cellSelectQualityMeasure.cpich_RSCP.
intraFreqMeasurementSysInfo.intraFreqCellInfoSI_List.newIntraFreqCellList.[0].
cellInfo.cellSelectionReselectionInfo BY c_CellSelReselInfoSIB11_12_RSCP_Idle,
REPLACE
measurementControlSysInfo.use_of_HCS.hcs_not_used.cellSelectQualityMeasure.cpich_RSCP.
intraFreqMeasurementSysInfo.intraFreqCellInfoSI_List.newIntraFreqCellList.[1].
cellInfo.cellSelectionReselectionInfo BY c_CellSelReselInfoSIB11_12_RSCP_Idle,
REPLACE
measurementControlSysInfo.use_of_HCS.hcs_not_used.cellSelectQualityMeasure.cpich_RSCP.
interFreqMeasurementSysInfo.interFreqCellInfoSI_List.newInterFreqCellList.[0].
cellInfo.cellSelectionReselectionInfo BY c_CellSelReselInfoSIB11_12_RSCP_Idle,
REPLACE
measurementControlSysInfo.use_of_HCS.hcs_not_used.cellSelectQualityMeasure.cpich_RSCP.
interFreqMeasurementSysInfo.interFreqCellInfoSI_List.newInterFreqCellList.[1].
cellInfo.cellSelectionReselectionInfo BY c_CellSelReselInfoSIB11_12_RSCP_Idle,
REPLACE
measurementControlSysInfo.use_of_HCS.hcs_not_used.cellSelectQualityMeasure.cpich_RSCP.
interFreqMeasurementSysInfo.interFreqCellInfoSI_List.newInterFreqCellList.[2].
cellInfo.cellSelectionReselectionInfo BY c_CellSelReselInfoSIB11_12_RSCP_Idle,
REPLACE
measurementControlSysInfo.use_of_HCS.hcs_not_used.cellSelectQualityMeasure.cpich_RSCP.
interFreqMeasurementSysInfo.interFreqCellInfoSI_List.newInterFreqCellList.[3].
cellInfo.cellSelectionReselectionInfo BY c_CellSelReselInfoSIB11_12_RSCP_Idle,
REPLACE
measurementControlSysInfo.use_of_HCS.hcs_not_used.cellSelectQualityMeasure.cpich_RSCP.
interFreqMeasurementSysInfo.interFreqCellInfoSI_List.newInterFreqCellList.[4].
cellInfo.cellSelectionReselectionInfo BY c_CellSelReselInfoSIB11_12_RSCP_Idle

```

2.3 cd_SIB11_RxlevMin_Freq3_PLMN3

Reason for Change: R&S: In co-operate new Cell Selection Reselection Info as per section 3.5

Summary of change: R&S: Created new constraint cd_SIB11_RxlevMin_Freq3_PLMN3 as below:

ASN.1 Type Constraint Declaration

ASN.1 Type Constraint Declaration	
Constraint Name:	<u>cd_SIB11_RxlevMin_Freq3_PLMN3 (p_ActiveCellInfo, p_IntraCellInfo2, p_InterCellInfo3, p_InterCellInfo4, p_InterCellInfo5, p_InterCellInfo6, p_InterCellInfo7, p_InterCellInfo8 : CellInfoCfg)</u>
Group:	
Type Name:	<u>SysInfoType11</u>
Derivation Path:	<u>cb_SIB11_Freq3_PLMN3.</u>
Encoding Variation:	
Comments:	<u>@SIC_NAPP, WA#IDLE3018</u>

```

REPLACE measurementControlSysInfo.use_of_HCS.hcs_not_used.cellSelectQualityMeasure.cpich_RSCP.
intraFreqMeasurementSysInfo.intraFreqCellInfoSI_List.newIntraFreqCellList.[1].cellInfo.cellSelectionReselectionInfo BY

```

```

c_CellSelResellInfoSIB11_12_RSCP_Idle,
REPLACE measurementControlSysInfo.use_of_HCS.hcs_not_used.cellSelectQualityMeasure.cpich_RSCP.
interFreqMeasurementSysInfo.interFreqCellInfoSI_List.newInterFreqCellList.[0].cellInfo.cellSelectionReselectionInfo BY
c_CellSelResellInfoSIB11_12_RSCP_Idle,
REPLACE measurementControlSysInfo.use_of_HCS.hcs_not_used.cellSelectQualityMeasure.cpich_RSCP.
interFreqMeasurementSysInfo.interFreqCellInfoSI_List.newInterFreqCellList.[1].cellInfo.cellSelectionReselectionInfo BY
c_CellSelResellInfoSIB11_12_RSCP_Idle,
REPLACE measurementControlSysInfo.use_of_HCS.hcs_not_used.cellSelectQualityMeasure.cpich_RSCP.
interFreqMeasurementSysInfo.interFreqCellInfoSI_List.newInterFreqCellList.[2].cellInfo.cellSelectionReselectionInfo BY
c_CellSelResellInfoSIB11_12_RSCP_Idle,
REPLACE measurementControlSysInfo.use_of_HCS.hcs_not_used.cellSelectQualityMeasure.cpich_RSCP.
interFreqMeasurementSysInfo.interFreqCellInfoSI_List.newInterFreqCellList.[3].cellInfo.cellSelectionReselectionInfo BY
c_CellSelResellInfoSIB11_12_RSCP_Idle,
REPLACE measurementControlSysInfo.use_of_HCS.hcs_not_used.cellSelectQualityMeasure.cpich_RSCP.
interFreqMeasurementSysInfo.interFreqCellInfoSI_List.newInterFreqCellList.[4].cellInfo.cellSelectionReselectionInfo BY
c_CellSelResellInfoSIB11_12_RSCP_Idle,
REPLACE measurementControlSysInfo.use_of_HCS.hcs_not_used.cellSelectQualityMeasure.cpich_RSCP.
interFreqMeasurementSysInfo.interFreqCellInfoSI_List.newInterFreqCellList.[5].cellInfo.cellSelectionReselectionInfo BY
c_CellSelResellInfoSIB11_12_RSCP_Idle

```

2.4 cd_SIB12_RxlevMin_Freq3_PLMN3

Reason for Change: R&S: In co-operate new Cell Selection Reselection Info as per section 3.5

Summary of change: R&S: Created new constraint cd_SIB12_RxlevMin_Freq3_PLMN3 as below:

ASN.1 Type Constraint Declaration	
Constraint Name:	<u>cd_SIB12_RxlevMin_Freq3_PLMN3 (p_ActiveCellInfo, p_IntraCellInfo2, p_InterCellInfo3, p_InterCellInfo4, p_InterCellInfo5, p_InterCellInfo6, p_InterCellInfo7, p_InterCellInfo8 : CellInfoCfg)</u>
Group:	
Type Name:	<u>SysInfoType12</u>
Derivation Path:	<u>cb_SIB12_Freq3_PLMN3.</u>
Encoding Variation:	
Comments:	<u>@SIC_NAPP , WA#IDLE3024</u>

Constraint Value
REPLACE measurementControlSysInfo.use_of_HCS.hcs_not_used.cellSelectQualityMeasure.cpich_RSCP.intraFreqMeasurementSysInfo.intraFreqCellInfoSI_List.newIntraFreqCellList.[0].cellInfo.cellSelectionReselectionInfo BY c_CellSelReselInfoSIB11_12_RSCP_Idle,
REPLACE measurementControlSysInfo.use_of_HCS.hcs_not_used.cellSelectQualityMeasure.cpich_RSCP.interFreqMeasurementSysInfo.interFreqCellInfoSI_List.newInterFreqCellList.[0].cellInfo.cellSelectionReselectionInfo BY c_CellSelReselInfoSIB11_12_RSCP_Idle,
REPLACE measurementControlSysInfo.use_of_HCS.hcs_not_used.cellSelectQualityMeasure.cpich_RSCP.interFreqMeasurementSysInfo.interFreqCellInfoSI_List.newInterFreqCellList.[1].cellInfo.cellSelectionReselectionInfo BY c_CellSelReselInfoSIB11_12_RSCP_Idle,
REPLACE measurementControlSysInfo.use_of_HCS.hcs_not_used.cellSelectQualityMeasure.cpich_RSCP.interFreqMeasurementSysInfo.interFreqCellInfoSI_List.newInterFreqCellList.[2].cellInfo.cellSelectionReselectionInfo BY c_CellSelReselInfoSIB11_12_RSCP_Idle,
REPLACE measurementControlSysInfo.use_of_HCS.hcs_not_used.cellSelectQualityMeasure.cpich_RSCP.interFreqMeasurementSysInfo.interFreqCellInfoSI_List.newInterFreqCellList.[3].cellInfo.cellSelectionReselectionInfo BY c_CellSelReselInfoSIB11_12_RSCP_Idle,
REPLACE measurementControlSysInfo.use_of_HCS.hcs_not_used.cellSelectQualityMeasure.cpich_RSCP.interFreqMeasurementSysInfo.interFreqCellInfoSI_List.newInterFreqCellList.[4].cellInfo.cellSelectionReselectionInfo BY c_CellSelReselInfoSIB11_12_RSCP_Idle,
REPLACE measurementControlSysInfo.use_of_HCS.hcs_not_used.cellSelectQualityMeasure.cpich_RSCP.interFreqMeasurementSysInfo.interFreqCellInfoSI_List.newInterFreqCellList.[5].cellInfo.cellSelectionReselectionInfo BY c_CellSelReselInfoSIB11_12_RSCP_Idle

2.5 tcv_MIB_CellG and tcv_SB1_CellG

Reason for Change: R&S: test step was made to initialise the variables for MIB and for SIB for the corresponding CellId and it is changed to initialise the variables for CellId A to H, but the variables for Cell G & H are not defined.

Summary of change: Define new test case variable itcv_MIB_CellGî and itcv_SB1_CellGî as below

Test Case Variable Declarations			
Group: <input type="text"/>			
Variable Name	Type	Value	Comments
tcv_MIB_CellG	MasterInformationBlock	c_MIB_Def (c_CellInfoDef (tsc_CellG, px_PriScrmCode, tsc_URA_IdCellG, px_TCellG, tsc_SFN_OffsetG,	the initial value c_MIB_DefUTRAN_GERAN is for UTRAN/GERAN, for UTRAN only tcv_MIB shall be re- initialized to c_MIB_Def_UTRAN.

		<code>c_FreqInfo (px_UARFCN_D_Mid - 950 , px_UARFCN_D_Mid), ((px_UL_ScramblingCode + 6000) MOD 16777216))</code>	WA#IDLE3021
<code>tcv_SB1_CellG</code>	<code>SysInfoTypeSB1</code>	<code>c_SB1_Def</code>	the initial value <code>c_SB1_DefUTRAN_GERAN</code> is for UTRAN/GERAN, for UTRAN only <code>tcv_SB1</code> shall be re-initialized to <code>c_SB1_DefUTRAN</code> . WA#IDLE3020

2.6 `tcv_MIB_CellH` and `tcv_SB1_CellH`

Reason for Change: : R&S: test step was made to initialise the variables for MIB and for SIB for the corresponding CellId and it is changed to initialise the variables for CellId A to H, but the variables for Cell G & H are not defined.

Summary of change: Define new test case variable `tcv_MIB_CellH` and `tcv_SB1_CellH` as below

Test Case Variable Declarations			
Group: <input type="text"/>			
Variable Name	Type	Value	Comments
<code>tcv_MIB_CellH</code>	<code>MasterInformationBlock</code>	<code>c_MIB_Def (c_CellInfoDef (tsc_CellH, px_PriScrmCode, tsc_URA_IdCellH, px_TCellH, tsc_SFN_OffsetH, c_FreqInfo (px_UARFCN_D_Mid - 950 , px_UARFCN_D_Mid), ((px_UL_ScramblingCode + 7000) MOD 16777216)))</code>	the initial value <code>c_MIB_DefUTRAN_GERAN</code> is for UTRAN/GERAN, for UTRAN only <code>tcv_MIB</code> shall be re-initialized to <code>c_MIB_Def_UTRAN</code> . WA#IDLE3021
<code>tcv_SB1_CellH</code>	<code>SysInfoTypeSB1</code>	<code>c_SB1_Def</code>	the initial value <code>c_SB1_DefUTRAN_GERAN</code> is for UTRAN/GERAN, for UTRAN only

			tcv_SB1 shall be re-initialized to c_SB1_DefUTRAN. WA#IDLE3020
--	--	--	--

2.7 cb_SIB12_Freq3_PLMN3

Reason for Change: R&S: for Sib-configurations with different PLMNs the parameters in Sib12 should be consistent to the settings in Sib11

Summary of change: R&S: create new constraint cb_SIB12_Freq3_PLMN3, based on cb_SIB11_Freq3_PLMN3 to be consistent with the settings in SIB11 for Sib-configurations with different PLMNs

ASN.1 Type Constraint Declaration	
Constraint Name:	cb_SIB12_Freq3_PLMN3 (p_ActiveCellInfo, p_IntraCellInfo2, p_InterCellInfo3, p_InterCellInfo4, p_InterCellInfo5, p_InterCellInfo6, p_InterCellInfo7, p_InterCellInfo8 : CellInfoCfg)
Group:	
Type Name:	SysInfoType12
Derivation Path:	
Encoding Variation:	
Comments:	Default system information block type 12. To be used by cell D,E,F: - 3 intra cells frequency of the same frequency - 5 inter cell frequency of the same frequency. WA#IDLE3023
Constraint Value	
<pre> { measurementControlSysInfo { use_of_HCS hcs_not_used : { cellSelectQualityMeasure cpich_RSCP : { intraFreqMeasurementSysInfo { intraFreqMeasurementID OMIT, -- default value intraFreqCellInfoSI_List { removedIntraFreqCellList OMIT, -- equivalent to removeNoIntraFreqCells newIntraFreqCellList { { intraFreqCellID p_IntraCellInfo2.cellId, cellInfo { cellIndividualOffset OMIT, -- default value referenceTimeDifferenceToCell OMIT, modeSpecificInfo fdd : { primaryCPICH_Info { primaryScramblingCode </pre>	

```

p_IntraCellInfo2.priScrmCode },
    readSFN_Indicator TRUE,
    tx_DiversityIndicator FALSE
},
    cellSelectionReselectionInfo OMIT -- value same as
the serving cell
}
} },
intraFreqMeasQuantity {
    filterCoefficient OMIT, -- default value
    modeSpecificInfo fdd : {
        intraFreqMeasQuantity_FDD cpich_RSCP
    }
},
reportingInfoForCellDCH {
    intraFreqReportingQuantity {
        activeSetReportingQuantities {
            dummy noReport,
            cellIdentity_reportingIndicator TRUE,
            cellSynchronisationInfoReportingIndicator FALSE,
            modeSpecificInfo fdd : {
                cpich_Ec_NO_reportingIndicator FALSE,
                cpich_RSCP_reportingIndicator TRUE,
                pathloss_reportingIndicator FALSE }
        },
        monitoredSetReportingQuantities {
            dummy noReport,
            cellIdentity_reportingIndicator TRUE,
            cellSynchronisationInfoReportingIndicator TRUE,
            modeSpecificInfo fdd : {
                cpich_Ec_NO_reportingIndicator FALSE,
                cpich_RSCP_reportingIndicator TRUE,
                pathloss_reportingIndicator FALSE }
        }
    },
    measurementReportingMode {
        measurementReportTransferMode acknowledgedModeRLC,
        periodicalOrEventTrigger eventTrigger
    },
    reportCriteria intraFreqReportingCriteria : {
        eventCriteriaList {{
            event ela : {
                triggeringCondition monitoredSetCellsOnly,
                reportingRange 5,
                forbiddenAffectCellList OMIT,
                w 1,
                reportDeactivationThreshold t2,
                reportingAmount ra4,
                reportingInterval noPeriodicalreporting
            },
            hysteresis 0,
            timeToTrigger ttt640,
            reportingCellStatus
withinActiveAndOrMonitoredUsedFreq : e3
        },
        {
            event elb : {
                triggeringCondition activeSetCellsOnly,
                reportingRange 5,

```

```

        w 1},
        hysteresis 0,
        timeToTrigger ttt640,
        reportingCellStatus
withinActiveAndOrMonitoredUsedFreq : e3
    },
    {
        event elc : {
            replacementActivationThreshold t3,
            reportingAmount ra4,
            reportingInterval ri4
        },
        hysteresis 0,
        timeToTrigger ttt640,
        reportingCellStatus
withinActiveAndOrMonitoredUsedFreq : e3
    }
}
}
},
interFreqMeasurementSysInfo
{
    interFreqCellInfoSI_List {
        removedInterFreqCellList OMIT,
        newInterFreqCellList {
            {
                interFreqCellID p_InterCellInfo3.cellId,
                frequencyInfo p_InterCellInfo3.frequencyInfo,
                cellInfo {
                    cellIndividualOffset OMIT, -- default value
                    referenceTimeDifferenceToCell OMIT,
                    modeSpecificInfo fdd : {
                        primaryCPICH_Info { primaryScramblingCode
p_InterCellInfo3.priScrmCode },
                        readSFN_Indicator TRUE,
                        tx_DiversityIndicator FALSE
                    },
                    cellSelectionReselectionInfo OMIT -- value same as
the serving cell
                }
            },
            {
                interFreqCellID p_InterCellInfo4.cellId,
                frequencyInfo OMIT,
                cellInfo {
                    cellIndividualOffset OMIT, -- default value
                    referenceTimeDifferenceToCell OMIT,
                    modeSpecificInfo fdd : {
                        primaryCPICH_Info { primaryScramblingCode
p_InterCellInfo4.priScrmCode },
                        readSFN_Indicator TRUE,
                        tx_DiversityIndicator FALSE
                    },
                    cellSelectionReselectionInfo OMIT -- value same as
the serving cell
                }
            },
            {
                interFreqCellID p_InterCellInfo5.cellId,

```

```

        frequencyInfo OMIT,
        cellInfo {
            cellIndividualOffset OMIT, -- default value
            referenceTimeDifferenceToCell OMIT,
            modeSpecificInfo fdd : {
                primaryCPICH_Info { primaryScramblingCode
p_InterCellInfo5.priScrmCode },
                readSFN_Indicator TRUE,
                tx_DiversityIndicator FALSE
            },
            cellSelectionReselectionInfo OMIT -- value same as
the serving cell
        }
    },
    {
        interFreqCellID p_InterCellInfo6.cellId,
        frequencyInfo p_InterCellInfo6.frequencyInfo,
        cellInfo {
            cellIndividualOffset OMIT, -- default value
            referenceTimeDifferenceToCell OMIT,
            modeSpecificInfo fdd : {
                primaryCPICH_Info { primaryScramblingCode
p_InterCellInfo6.priScrmCode },
                readSFN_Indicator TRUE,
                tx_DiversityIndicator FALSE
            },
            cellSelectionReselectionInfo OMIT -- value same as
the serving cell
        }
    },
    {
        interFreqCellID p_InterCellInfo7.cellId,
        frequencyInfo OMIT,
        cellInfo {
            cellIndividualOffset OMIT, -- default value
            referenceTimeDifferenceToCell OMIT,
            modeSpecificInfo fdd : {
                primaryCPICH_Info { primaryScramblingCode
p_InterCellInfo7.priScrmCode },
                readSFN_Indicator TRUE,
                tx_DiversityIndicator FALSE
            },
            cellSelectionReselectionInfo OMIT -- value same as
the serving cell
        }
    },
    {
        interFreqCellID p_InterCellInfo8.cellId,
        frequencyInfo OMIT,
        cellInfo {
            cellIndividualOffset OMIT, -- default value
            referenceTimeDifferenceToCell OMIT,
            modeSpecificInfo fdd : {
                primaryCPICH_Info { primaryScramblingCode
p_InterCellInfo8.priScrmCode },
                readSFN_Indicator TRUE,
                tx_DiversityIndicator FALSE
            },
            cellSelectionReselectionInfo OMIT -- value same as
the serving cell
    }
}

```

```

    }
  } }
}
nonCriticalExtensions OMIT --@sic ER1653 sic@
}

```

2.8 cb_SIB12_Freq3_PLMN1Or2

Reason for Change: R&S: for Sib-configurations with different PLMNs the parameters in Sib12 should be consistent to the settings in Sib11

Summary of change: : R&S: create new constraint cb_SIB12_Freq3_PLMN1Or2, based on cb_SIB11_Freq3_PLMN1Or2 to be consistent with the settings in SIB11 for Sib-configurations with different PLMNs

ASN.1 Type Constraint Declaration	
Constraint Name:	cb_SIB12_Freq3_PLMN1Or2 (p_ActiveCellInfo, p_IntraCellInfo2, p_IntraCellInfo3, p_InterCellInfo4, p_InterCellInfo5, p_InterCellInfo6, p_InterCellInfo7, p_InterCellInfo8 : CellInfoCfg)
Group:	
Type Name:	SysInfoType12
Derivation Path:	
Encoding Variation:	
Comments:	Default system information block type 12. To be used by cell D,E,F: - 3 intra cells frequency of the same frequency - 5 inter cell frequency of the same frequency. WA#IDLE3025
Constraint Value	
<pre> { measurementControlSysInfo { use_of_HCS hcs_not_used : { cellSelectQualityMeasure cpich_RSCP : { intraFreqMeasurementSysInfo { intraFreqMeasurementID OMIT, -- default value intraFreqCellInfoSI_List { removedIntraFreqCellList OMIT, -- equivalent to removeNoIntraFreqCells newIntraFreqCellList { { intraFreqCellID p_IntraCellInfo2.cellId, cellInfo { cellIndividualOffset OMIT, -- default value </pre>	

```

        referenceTimeDifferenceToCell OMIT,
        modeSpecificInfo fdd : {
            primaryCPICH_Info { primaryScramblingCode
p_IntraCellInfo2.priScrmCode },
            readSFN_Indicator TRUE,
            tx_DiversityIndicator FALSE
        },
        cellSelectionReselectionInfo OMIT -- value same as
the serving cell
    }
},
{
    intraFreqCellID p_IntraCellInfo3.cellId,
    cellInfo {
        cellIndividualOffset OMIT, -- default value
        referenceTimeDifferenceToCell OMIT,
        modeSpecificInfo fdd : {
            primaryCPICH_Info { primaryScramblingCode
p_IntraCellInfo3.priScrmCode },
            readSFN_Indicator TRUE,
            tx_DiversityIndicator FALSE
        },
        cellSelectionReselectionInfo OMIT -- value same as
the serving cell
    }
}
} },
intraFreqMeasQuantity {
    filterCoefficient OMIT, -- default value
    modeSpecificInfo fdd : {
        intraFreqMeasQuantity_FDD cpich_RSCP
    }
},
reportingInfoForCellDCH {
    intraFreqReportingQuantity {
        activeSetReportingQuantities {
            dummy noReport,
            cellIdentity_reportingIndicator TRUE,
            cellSynchronisationInfoReportingIndicator FALSE,
            modeSpecificInfo fdd : {
                cpich_Ec_N0_reportingIndicator FALSE,
                cpich_RSCP_reportingIndicator TRUE,
                pathloss_reportingIndicator FALSE }
        },
        monitoredSetReportingQuantities {
            dummy noReport,
            cellIdentity_reportingIndicator TRUE,
            cellSynchronisationInfoReportingIndicator TRUE,
            modeSpecificInfo fdd : {
                cpich_Ec_N0_reportingIndicator FALSE,
                cpich_RSCP_reportingIndicator TRUE,
                pathloss_reportingIndicator FALSE }
        }
    },
    measurementReportingMode {
        measurementReportTransferMode acknowledgedModeRLC,
        periodicalOrEventTrigger eventTrigger
    },
    reportCriteria intraFreqReportingCriteria : {
        eventCriteriaList {{

```

```

        event ela : {
            triggeringCondition monitoredSetCellsOnly,
            reportingRange 5,
            forbiddenAffectCellList OMIT,
            w 1,
            reportDeactivationThreshold t2,
            reportingAmount ra4,
            reportingInterval noPeriodicalreporting
        },
        hysteresis 0,
        timeToTrigger ttt640,
        reportingCellStatus
withinActiveAndOrMonitoredUsedFreq : e3
    },
    {
        event elb : {
            triggeringCondition activeSetCellsOnly,
            reportingRange 5,
            w 1},
            hysteresis 0,
            timeToTrigger ttt640,
            reportingCellStatus
withinActiveAndOrMonitoredUsedFreq : e3
    },
    {
        event elc : {
            replacementActivationThreshold t3,
            reportingAmount ra4,
            reportingInterval ri4
        },
            hysteresis 0,
            timeToTrigger ttt640,
            reportingCellStatus
withinActiveAndOrMonitoredUsedFreq : e3
    }
    }
}
},
interFreqMeasurementSysInfo
{
    interFreqCellInfoSI_List {
        removedInterFreqCellList OMIT,
        newInterFreqCellList {
            {
                interFreqCellID p_InterCellInfo4.cellId,
                frequencyInfo p_InterCellInfo4.frequencyInfo,
                cellInfo {
                    cellIndividualOffset OMIT, -- default value
                    referenceTimeDifferenceToCell OMIT,
                    modeSpecificInfo fdd : {
                        primaryCPICH_Info { primaryScramblingCode
p_InterCellInfo4.priScrmCode },
                        readSFN_Indicator TRUE,
                        tx_DiversityIndicator FALSE
                    },
                    cellSelectionReselectionInfo OMIT -- value same as
the serving cell
                }
            }
        }
    }
},

```

```

        {
            interFreqCellID p_InterCellInfo5.cellId,
            frequencyInfo OMIT,
            cellInfo {
                cellIndividualOffset OMIT, -- default value
                referenceTimeDifferenceToCell OMIT,
                modeSpecificInfo fdd : {
                    primaryCPICH_Info { primaryScramblingCode
p_InterCellInfo5.priScrmCode },
                    readSFN_Indicator TRUE,
                    tx_DiversityIndicator FALSE
                },
                cellSelectionReselectionInfo OMIT -- value same as
the serving cell
            }
        },
        {
            interFreqCellID p_InterCellInfo6.cellId,
            frequencyInfo OMIT,
            cellInfo {
                cellIndividualOffset OMIT, -- default value
                referenceTimeDifferenceToCell OMIT,
                modeSpecificInfo fdd : {
                    primaryCPICH_Info { primaryScramblingCode
p_InterCellInfo6.priScrmCode },
                    readSFN_Indicator TRUE,
                    tx_DiversityIndicator FALSE
                },
                cellSelectionReselectionInfo OMIT -- value same as
the serving cell
            }
        },
        {
            interFreqCellID p_InterCellInfo7.cellId,
            frequencyInfo p_InterCellInfo7.frequencyInfo,
            cellInfo {
                cellIndividualOffset OMIT, -- default value
                referenceTimeDifferenceToCell OMIT,
                modeSpecificInfo fdd : {
                    primaryCPICH_Info { primaryScramblingCode
p_InterCellInfo7.priScrmCode },
                    readSFN_Indicator TRUE,
                    tx_DiversityIndicator FALSE
                },
                cellSelectionReselectionInfo OMIT -- value same as
the serving cell
            }
        },
        {
            interFreqCellID p_InterCellInfo8.cellId,
            frequencyInfo OMIT,
            cellInfo {
                cellIndividualOffset OMIT, -- default value
                referenceTimeDifferenceToCell OMIT,
                modeSpecificInfo fdd : {
                    primaryCPICH_Info { primaryScramblingCode
p_InterCellInfo8.priScrmCode },
                    readSFN_Indicator TRUE,
                    tx_DiversityIndicator FALSE
                },
            },
        }
    }
}

```



```

        cellSelectionReselectionInfo OMIT -- value same as
the serving cell
    }
}
}}}
nonCriticalExtensions OMIT --@sic ER1653 sic@
}
    
```

3 Tables Modified in iWD-TVB2003-03_D04wk31

3.1 tc_6_1_1_7

Reason for Change: Anritsu: According to TS 34.108 section 6.1.4.2, Cell 1,2,3 belong to PLMN1, Cell 4,5,6 to PLMN2 and Cell 7, 8 to PLMN3. Therefore Cell5 (Cell_E) is wrongly mapped to PLMN3.

Summary of change: Anritsu: Change Cell5 (Cell_E) to Cell7 (CellG).

Test Case Id:	tc_6_1_1_7
Test Group Reference:	Idle_Mode/
Purpose:	To verify that in Manual Network Selection Mode Procedure, the UE can perform reselection to an equivalent PLMN.
Configuration:	
Defaults:	RRC_Def1
Comments:	@SIC_NAPP Mapping of the cells from the prose to the TTCN: WA#IDLE3012 - Cell A -> Cell A - Cell D -> Cell D - Cell E -> Cell G

lt_InitVariables			
12	+ts_RRC_InitVariables (cell_FACH)		
13	+lt_ITU_BandSpecificInitializing		Initial ise variabl es based on the band support ed
14	(tcv_CellInfoA.mcc:=tsc_MCC_PLMN1,tcv_CellInfoA.mcc:=t		Initial

	<pre>sc_MNC_PLMN1,tcv_CellInfoA.lac := tsc_LAC_PLMN1 , tcv_CellInfoA.rac:=tsc_RAC_PLMN1, tcv_CellInfoA.attenuationLevel := tcv_CellInfoA.powerpCPICH+78, tcv_CellInfoA.attFlag := tsc_AttOn)</pre>	<p>ize CELL A Variabl e as the test case demands</p>
15	<pre>(tcv_CellInfoD.mcc:=tsc_MCC_PLMN2,tcv_CellInfoD.mnc:= tsc_MNC_PLMN2,tcv_CellInfoD.lac:=tsc_LAC_PLMN2,tcv_CellI nfoD.rac:=tsc_RAC_PLMN2,tcv_CellInfoD.attenuationLevel:= tcv_CellInfoD.powerpCPICH+62, tcv_CellInfoD.attFlag := tsc_AttOn)</pre>	<p>Initial ize CELL D Variabl e as the test case demands ,</p>
16	<pre>(tcv_CellInfoE.mcc:=tsc_MCC_PLMN3,tcv_CellInfoE.mnc:= tsc_MNC_PLMN3,tcv_CellInfoE.lac:=tsc_LAC_PLMN3,tcv_Cell InfoE.rac:=tsc_RAC_PLMN3,tcv_CellInfoE.attenuationLevel:= tcv_CellInfoE.powerpCPICH+68, tcv_CellInfoE.attFlag := tsc_AttOn)</pre>	<p>Initial ize CELL E Variabl e as the test case demands</p>
17	<pre>(tcv_CellInfoG.mcc:=tsc_MCC_PLMN3,tcv_CellInfoG.mnc:= tsc_MNC_PLMN3,tcv_CellInfoG.lac:=tsc_LAC_PLMN3,tcv_Cell InfoG.rac:=tsc_RAC_PLMN3,tcv_CellInfoG.attenuationLevel:= tcv_CellInfoG.powerpCPICH+68, tcv_CellInfoG.attFlag := tsc_AttOn)</pre>	<p>Initial ize CELL G Variabl e as the test case demands ,</p>

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lt_LocalTest			
18	TBS	(tcv_TestBody := TRUE)	
19		+ts_MMI_Cmd ("Please switch on the UE")	
20		(tcv_Use_E_PLMN := TRUE , tcv_E_PLMN := c_E_PLMN_1 (o_ConvtPLMN (tcv_CellInfoE.mcc, tcv_CellInfoE.mnc)))	Initialise tcv to store PLMN 3 as equivalent, which is to be used in test step to special idle update
21		(tcv_Use_E_PLMN := TRUE , tcv_E_PLMN := c_E_PLMN_1 (o_ConvtPLMN (tcv_CellInfoG.mcc, tcv_CellInfoG.mnc)))	Initialise tcv to store PLMN 3 as equivalent, which is to be used in test step to special idle update

22		
25	+ts_SS_CreateCellFACH (tsc_Celle)		Configure lower tester cell 3
26	+ts_SendDefSysInfo_PLMN (tsc_Celle)		Sends the default system information in Celle
27	+ts_NormalRegistration (tsc_Celle)		Complete location Update is done, includin receive random access request from UE. The response from UE is from PLMN3
28	<u>+ts_SS_CreateCellFACH (tsc_CellG)</u>		<u>Configure lower tester cell 3</u>
29	<u>+ts_SendDefSysInfo_PLMN(tsc_CellG)</u>		<u>Sends the default system information in Celle</u>
30	<u>+ts_UpdateRegistration (tsc_CellG)</u>		
lt_ITU_BandSpecificInitializing			
32	[px_OperationBandSupp = 1]		
33	(tcv_CellInfoA := c_CellInfoDiff (tsc_CellA, px_PriScrmCode, tsc_URA_IdCellA, tsc_CRNTI , px_TCellA, tsc_SFN_OffsetA, c_FreqInfoCh1, px_UL_ScramblingCode))		
34	ÖÖ		
35	(tcv_CellInfoE := e_CellInfoDiff (tsc_Celle, ((px_PriScrmCode + 50) MOD 512), tsc_URA_IdCelle, tsc_CRNTI , px_TCelle, tsc_SFN_OffsetE, c_FreqInfoCh3, ((px_UL_ScramblingCode + 4000) MOD 16777216)))		
36	<u>(tcv_CellInfoG := c_CellInfoDiff (tsc_CellE, ((px_PriScrmCode + 50) MOD 512), tsc_URA_IdCellG, tsc_CRNTI , px_TCellG, tsc_SFN_OffsetG, c_FreqInfoCh3, ((px_UL_ScramblingCode + 4000) MOD 16777216)))</u>		
37	[px_OperationBandSupp = 2]		
38	Ö		
40	(tcv_CellInfoE := e_CellInfoDiff (tsc_Celle, ((px_PriScrmCode + 50) MOD 512), tsc_URA_IdCelle, tsc_CRNTI , px_TCelle, tsc_SFN_OffsetE, c_FreqInfoCh3_Band2, ((px_UL_ScramblingCode + 4000) MOD 16777216)))		

41		<pre>(tcv_CellInfoG := c_CellInfoDiff (tsc_CellE, ((px_PriScrmCode + 50) MOD 512), tsc_URA_IdCellG, tsc_CRNTI , px_TCellG, tsc_SFN_OffsetG, c_FreqInfoCh3_Band2, ((px_UL_ScramblingCode +4000) MOD 16777216)))</pre>		
42		[px_OperationBandSupp = 3]		
43		...		
45		<pre>-(tev_CellInfoE := e_CellInfoDiff (tsc_CellE, ((px_PriScrmCode + 50) MOD 512), tsc_URA_IdCellE, tsc_CRNTI , px_TCellE, tsc_SFN_OffsetE, e_FreqInfoCh3_Band3, ((px_UL_ScramblingCode +4000) MOD 16777216)))</pre>		
46		<pre>(tcv_CellInfoG := c_CellInfoDiff (tsc_CellE, ((px_PriScrmCode + 50) MOD 512), tsc_URA_IdCellG, tsc_CRNTI , px_TCellG, tsc_SFN_OffsetG, c_FreqInfoCh3_Band3, ((px_UL_ScramblingCode +4000) MOD 16777216)))</pre>		
47		[TRUE]		

3.2 cb_SIB3_DefUTRAN

Reason for Change: R&S: According to 34.123, table 6.1, the default values for Qualmin and RxlevMin should be set to -24 and to -58. With the Cell power settings in tc_6_1_1_7 the Cell selection criteria will be fulfilled, but the criteria for the Cell-Reselection will never be reached and the UE will stay on the first cell and will not change to a stronger cell.

Summary of change: R&S: change q_Rxlevmin to the default value of -58 and change the q_Qualmin to -16 to fulfill the criteria of Cell-Reselecton, which will be necessary to bring the UE to change to a stronger cell.

ASN.1 Type Constraint Declaration	
Constraint Name:	cb_SIB3_DefUTRAN (p_CellInfoCfg : CellInfoCfg)
Group:	
Type Name:	SysInfoType3
Derivation Path:	
Encoding Variation:	
Comments:	Default system information block type 3 for UTRAN only, WA#IDLE3000
Constraint Value	
{	

```

sib4indicator TRUE,
cellIdentity INT_TO_BIT ( p_CellInfoCfg.cellId , 28 ) ,
cellSelectReselectInfo {
  mappingInfo OMIT,
  cellSelectQualityMeasure cpich_RSCP: NULL, --@sic ER1769 sic@
  modeSpecificInfo fdd : {
    s_Intrasearch 8,
    s_Intersearch 8,
    s_SearchHCS OMIT,
    rat_List OMIT,
    q_QualMin -24,
    -16,
    q_RxlevMin -40-58 -- (IE value * 2) + 1
  },
  q_Hyst_l_S 2,
  t_Reselection_S 0,
  hcs_ServingCellInformation OMIT,
  maxAllowedUL_TX_Power 21
},
cellAccessRestriction {
  cellBarred notBarred : NULL,
  cellReservedForOperatorUse notReserved,
  cellReservationExtension notReserved,
  accessClassBarredList { notBarred,
    notBarred,
    notBarred,
    notBarred,
    ...
    ...
    ...
  }
}

```

3.3 cb_SIB4_DefUTRAN

Reason for Change: R&S: According to 34.123, table 6.1, the default values for Qualmin and RxlevMin should be set to -24 and to -58. With the Cell power settings in tc_6_1_1_7 the Cell selection criteria will be fulfilled, but the criteria for the Cell-Reselection will never be reached and the UE will stay on the first cell and will not change to a stronger cell.

Summary of change: R&S: change q_Rxlevmin to the default value of -58 and change the q_Qualmin to -16 to fulfill the criteria of Cell-Reselecton, which will be necessary to bring the UE to change to a stronger cell.

ASN.1 Type Constraint Declaration	
Constraint Name:	cb_SIB4_DefUTRAN (p_CellInfoCfg : CellInfoCfg)
Group:	
Type Name:	SysInfoType4
Derivation Path:	
Encoding Variation:	
Comments:	Default system information block type 4 for UTRAN only, used in connected mode. WA#IDLE3000

Constraint Value
<pre> { cellIdentity INT_TO_BIT (p_CellInfoCfg.cellId ,28) , cellSelectReselectInfo { mappingInfo OMIT, cellSelectQualityMeasure cpich_RSCP : NULL, modeSpecificInfo fdd : { s_Intrasearch 8, -- IE value * 2 s_Intersearch 8, -- IE value * 2 s_SearchHCS OMIT, rat_List OMIT, q_QualMin -24, -16, q_RxlevMin -40<u>-58</u> -- (IE value * 2) + 1 }, q_Hyst_l_S 2, t_Reselection_S 0, hcs_ServingCellInformation OMIT, maxAllowedUL_TX_Power 21 }, cellAccessRestriction { cellBarred notBarred : NULL, cellReservedForOperatorUse notReserved, cellReservationExtension notReserved, accessClassBarredList OMIT }, nonCriticalExtensions OMIT --@sic Tls-040086 sic@ } </pre>

3.4 c_CellSelReselInfoSIB11_12_RSCP_Idle

Reason for Change: R&S: According to 34.123, table 6.1, the default values for Qualmin and RxlevMin should be set to -24 and to -58. With the Cell power settings in tc_6_1_1_7 the Cell selection criteria will be fulfilled, but the criteria for the Cell-Reselection will never be reached and the UE will stay on the first cell and will not change to a stronger cell.

Summary of change: : R&S: change q_Rxlevmin to the default value of -58 and change the q_Qualmin to -16 to fulfill the criteria of Cell-Reselecton, which will be necessary to bring the UE to change to a stronger cell.

ASN.1 Type Constraint Declaration	
Constraint Name:	c_CellSelReselInfoSIB11_12_RSCP_Idle
Group:	
Type Name:	CellSelectReselectInfoSIB_11_12_RSCP
Derivation Path:	
Encoding Variation:	
Comments:	WA#IDLE3001

Constraint Value
<pre> { q_OffsetS_N 0, maxAllowedUL_TX_Power 21, modeSpecificInfo fdd : { q_QualMin -24<u>-16</u> , q_RxlevMin -56<u>-58</u> -- IE*2+1 = -81 } } </pre>

3.5 ts_InitializeSIB11_12_SIB12_Idle

Reason for Change: Anritsu: SIB11 and SIB12 need to be initialised as per section 3.5 using newly defined constraint in section 2.1 and 2.2

Summary of change: Anritsu: Modified the test step `ts_InitializeSIB11_12_SIB12_Idle` to handle 1,2 and 3 PLMN test case using local tree header `It_1Or2PLMN`, `It_1Or2PLMN` and `It_3PLMN` respectively. For this particular test case the change is being handled in `It_3PLMN` as below

Test Step					
Test Step Id:		ts_InitializeSIB11_12_SIB12_Idle (p_CellID : INTEGER)			
Test Step Group Ref:		SysInfo/IdleModeSpecific/			
Objective:		To assign tcv_SIB11 and tcv_SIB12			
Defaults:		InitOtherwiseFail			
Comments:		@SIC_NAPP, WA#IDLE3014			
Nr	Label	Behaviour Description	Constraint Ref	Verdict	Comments
1		+ ts_SetTmpCellInfo (p_CellID)			
2		[p_CellID = tse_CellA]			
3		(tcv_SIB11 := ed_SIB11_RxlevMin(tcv_CellInfoA, tcv_CellInfoB, tcv_CellInfoC, tcv_CellInfoG, tcv_CellInfoH, tcv_CellInfoD, tcv_CellInfoE, tcv_CellInfoF), tcv_SIB12 := ed_SIB12_RxlevMin(tcv_CellInfoA, tcv_CellInfoB, tcv_CellInfoC, tcv_CellInfoG, tcv_CellInfoH, tcv_CellInfoD, tcv_CellInfoE, tcv_CellInfoF))			
4		[p_CellID = tse_CellB]			

5		-(tev_SIB11 := ed_SIB11_RxlevMin (tev_CellInfoB, tev_CellInfoA, tev_CellInfoC, tev_CellInfoG, tev_CellInfoH, tev_CellInfoD, tev_CellInfoE, tev_CellInfoF), tev_SIB12 := ed_SIB12_RxlevMin(tev_CellInfoB, tev_CellInfoA, tev_CellInfoC, tev_CellInfoG, tev_CellInfoH, tev_CellInfoD, tev_CellInfoE, tev_CellInfoF))			
6		[p_CellID = tsc_CellC]			
7		-(tev_SIB11 := ed_SIB11_RxlevMin (tev_CellInfoC, tev_CellInfoA, tev_CellInfoB, tev_CellInfoG, tev_CellInfoH, tev_CellInfoD, tev_CellInfoE, tev_CellInfoF), tev_SIB12 := ed_SIB12_RxlevMin(tev_CellInfoC, tev_CellInfoA, tev_CellInfoB, tev_CellInfoG, tev_CellInfoH, tev_CellInfoD, tev_CellInfoE, tev_CellInfoF))			
8		[p_CellID = tsc_CellD]			
9		-(tev_SIB11 := ed_SIB11_RxlevMin_Freq2(tev_CellInfoD, tev_CellInfoE, tev_CellInfoF, tev_CellInfoA, tev_CellInfoB, tev_CellInfoC, tev_CellInfoG, tev_CellInfoH), tev_SIB12 := ed_SIB12_RxlevMin_Freq2(tev_CellInfoD, tev_CellInfoE, tev_CellInfoF, tev_CellInfoA, tev_CellInfoB, tev_CellInfoC, tev_CellInfoG, tev_CellInfoH))			
10		[p_CellID = tsc_CellE]			
11		-(tev_SIB11 := ed_SIB11_RxlevMin_Freq2(tev_CellInfoE, tev_CellInfoD, tev_CellInfoF, tev_CellInfoA, tev_CellInfoB, tev_CellInfoC, tev_CellInfoG, tev_CellInfoH), tev_SIB12 := ed_SIB12_RxlevMin_Freq2 (tev_CellInfoE, tev_CellInfoD, tev_CellInfoF, tev_CellInfoA, tev_CellInfoB, tev_CellInfoC, tev_CellInfoG, tev_CellInfoH))			
12		[p_CellID = tsc_CellF]			
13		-(tev_SIB11 := ed_SIB11_RxlevMin_Freq2(tev_CellInfoF, tev_CellInfoD, tev_CellInfoE, tev_CellInfoA, tev_CellInfoB, tev_CellInfoC, tev_CellInfoG, tev_CellInfoH), tev_SIB12 := ed_SIB12_RxlevMin_Freq2(tev_CellInfoF, tev_CellInfoD,			

		tcv_CellInfoE, tcv_CellInfoA, tcv_CellInfoB, tcv_CellInfoC, tcv_CellInfoG, tcv_CellInfoH)}			
14		[p_CellID = tsc_CellG}			
15		(tcv_SIB11 := cd_SIB11_RxlevMin (tcv_CellInfoG, tcv_CellInfoA, tcv_CellInfoB, tcv_CellInfoC, tcv_CellInfoH, tcv_CellInfoD, tcv_CellInfoE, tcv_CellInfoF), tcv_SIB12 := cd_SIB12_RxlevMin (tcv_CellInfoG, tcv_CellInfoA, tcv_CellInfoB, tcv_CellInfoC, tcv_CellInfoH, tcv_CellInfoD, tcv_CellInfoE, tcv_CellInfoF)}			
16		[p_CellID = tsc_CellH}			
17		(tcv_SIB11 := ed_SIB11_RxlevMin(tcv_CellInfoH, tcv_CellInfoA, tcv_CellInfoB, tcv_CellInfoC, tcv_CellInfoG, tcv_CellInfoD, tcv_CellInfoE, tcv_CellInfoF), tcv_SIB12 := cd_SIB12_RxlevMin (tcv_CellInfoH, tcv_CellInfoA, tcv_CellInfoB, tcv_CellInfoC, tcv_CellInfoG, tcv_CellInfoD, tcv_CellInfoE, tcv_CellInfoF)}			
18		[tcv_NumOfPLMN = 1]			Default I PLMN test case
19		+lt_1Or2PLMN			
20		[tcv_NumOfPLMN = 2]			2 PLMN test case
21		+lt_1Or2PLMN			
22		[tcv_NumOfPLMN = 3]			3 PLMN test case
23		+lt_3PLMN			
24		[TRUE]		(I)	Test step not designed for this
<u>lt_1Or2PLMN</u>					
25		[p_CellID = tsc_CellA]			
26		(tcv_SIB11 := cd_SIB11_RxlevMin(tcv_CellInfoA, tcv_CellInfoB, tcv_CellInfoC, tcv_CellInfoG, tcv_CellInfoH, tcv_CellInfoD, tcv_CellInfoE, tcv_CellInfoF), tcv_SIB12 := cd_SIB12_RxlevMin (tcv_CellInfoA, tcv_CellInfoB, tcv_CellInfoC, tcv_CellInfoG,			

		tcv_CellInfoH, tcv_CellInfoD, tcv_CellInfoE, tcv_CellInfoF))			
27		[p_CellID = tsc_CellB]			
28		(tcv_SIB11 := cd_SIB11_RxlevMin (tcv_CellInfoB, tcv_CellInfoA, tcv_CellInfoC, tcv_CellInfoG, tcv_CellInfoH, tcv_CellInfoD, tcv_CellInfoE, tcv_CellInfoF) , tcv_SIB12 := cd_SIB12_RxlevMin (tcv_CellInfoB, tcv_CellInfoA, tcv_CellInfoC, tcv_CellInfoG, tcv_CellInfoH, tcv_CellInfoD, tcv_CellInfoE, tcv_CellInfoF))			
29		[p_CellID = tsc_CellC]			
30		(tcv_SIB11 := cd_SIB11_RxlevMin (tcv_CellInfoC, tcv_CellInfoA, tcv_CellInfoB, tcv_CellInfoG, tcv_CellInfoH, tcv_CellInfoD, tcv_CellInfoE, tcv_CellInfoF), tcv_SIB12 := cd_SIB12_RxlevMin (tcv_CellInfoC, tcv_CellInfoA, tcv_CellInfoB, tcv_CellInfoG, tcv_CellInfoH, tcv_CellInfoD, tcv_CellInfoE, tcv_CellInfoF))			
31		[p_CellID = tsc_CellD]			
32		(tcv_SIB11 := cd_SIB11_RxlevMin_Freq2 (tcv_CellInfoD, tcv_CellInfoE, tcv_CellInfoF, tcv_CellInfoA, tcv_CellInfoB, tcv_CellInfoC, tcv_CellInfoG, tcv_CellInfoH) , tcv_SIB12 := cd_SIB12_RxlevMin_Freq2 (tcv_CellInfoD, tcv_CellInfoE, tcv_CellInfoF, tcv_CellInfoA, tcv_CellInfoB, tcv_CellInfoC, tcv_CellInfoG, tcv_CellInfoH))			
33		[p_CellID = tsc_CellE]			
34		(tcv_SIB11 := cd_SIB11_RxlevMin_Freq2 (tcv_CellInfoE, tcv_CellInfoD, tcv_CellInfoF, tcv_CellInfoA, tcv_CellInfoB, tcv_CellInfoC, tcv_CellInfoG, tcv_CellInfoH) , tcv_SIB12 := cd_SIB12_RxlevMin_Freq2 (tcv_CellInfoE, tcv_CellInfoD, tcv_CellInfoF, tcv_CellInfoA, tcv_CellInfoB, tcv_CellInfoC, tcv_CellInfoG, tcv_CellInfoH))			
35		[p_CellID = tsc_CellF]			
36		(tcv_SIB11 := cd_SIB11_RxlevMin_Freq2 (tcv_CellInfoF, tcv_CellInfoD, tcv_CellInfoE, tcv_CellInfoA, tcv_CellInfoB, tcv_CellInfoC,			

		tcv_CellInfoG, tcv_CellInfoH), tcv_SIB12 := cd_SIB12_RxlevMin_Freq2 (tcv_CellInfoF, tcv_CellInfoD, tcv_CellInfoE, tcv_CellInfoA, tcv_CellInfoB, tcv_CellInfoC, tcv_CellInfoG, tcv_CellInfoH))			
37		[p_CellID = tsc_CellG]			
38		(tcv_SIB11 := cd_SIB11_RxlevMin (tcv_CellInfoG, tcv_CellInfoA, tcv_CellInfoB, tcv_CellInfoC, tcv_CellInfoH, tcv_CellInfoD, tcv_CellInfoE, tcv_CellInfoF), tcv_SIB12 := cd_SIB12_RxlevMin (tcv_CellInfoG, tcv_CellInfoA, tcv_CellInfoB, tcv_CellInfoC, tcv_CellInfoH, tcv_CellInfoD, tcv_CellInfoE, tcv_CellInfoF))			
39		[p_CellID = tsc_CellH]			
40		(tcv_SIB11 := cd_SIB11_RxlevMin(tcv_CellInfoH, tcv_CellInfoA, tcv_CellInfoB, tcv_CellInfoC, tcv_CellInfoG, tcv_CellInfoD, tcv_CellInfoE, tcv_CellInfoF), tcv_SIB12 := cd_SIB12_RxlevMin (tcv_CellInfoH, tcv_CellInfoA, tcv_CellInfoB, tcv_CellInfoC, tcv_CellInfoG, tcv_CellInfoD, tcv_CellInfoE, tcv_CellInfoF))			
41		[TRUE]		I	no such cell
lt_3PLMN					
42		[p_CellID = tsc_CellA]			
43		(tcv_SIB11 := cd_SIB11_RxlevMin_Freq3_PLMN1Or2 (tcv_CellInfoA, tcv_CellInfoB, tcv_CellInfoC, tcv_CellInfoD, tcv_CellInfoE, tcv_CellInfoF , tcv_CellInfoG, tcv_CellInfoH), tcv_SIB12 := cd_SIB12_RxlevMin_Freq3_PLMN1Or2 (tcv_CellInfoA, tcv_CellInfoB, tcv_CellInfoC, tcv_CellInfoD, tcv_CellInfoE, tcv_CellInfoF , tcv_CellInfoG, tcv_CellInfoH))			
44		[p_CellID = tsc_CellB]			
45		(tcv_SIB11 := cd_SIB11_RxlevMin_Freq3_PLMN1Or2 (tcv_CellInfoB, tcv_CellInfoA, tcv_CellInfoC, tcv_CellInfoD, tcv_CellInfoE, tcv_CellInfoF , tcv_CellInfoG, tcv_CellInfoH), tcv_SIB12 := cd_SIB12_RxlevMin_Freq3_PLMN1Or2 (tcv_CellInfoB, tcv_CellInfoA, tcv_CellInfoC, tcv_CellInfoD,			

		tcv_CellInfoE, tcv_CellInfoF , tcv_CellInfoG, tcv_CellInfoH))			
46		[p_CellID = tsc_CellC]			
47		(tcv_SIB11 := cd_SIB11_RxlevMin_Freq3_PLMN1Or2 (tcv_CellInfoC, tcv_CellInfoA, tcv_CellInfoB, tcv_CellInfoD, tcv_CellInfoE, tcv_CellInfoF , tcv_CellInfoG, tcv_CellInfoH), tcv_SIB12 := cd_SIB12_RxlevMin_Freq3_PLMN1Or2 (tcv_CellInfoC, tcv_CellInfoA, tcv_CellInfoB, tcv_CellInfoD, tcv_CellInfoE, tcv_CellInfoF , tcv_CellInfoG, tcv_CellInfoH))			
48		[p_CellID = tsc_CellD]			
49		(tcv_SIB11 := cd_SIB11_RxlevMin_Freq3_PLMN1Or2 (tcv_CellInfoD, tcv_CellInfoE, tcv_CellInfoF, tcv_CellInfoA, tcv_CellInfoB, tcv_CellInfoC, tcv_CellInfoG, tcv_CellInfoH) , tcv_SIB12 := cd_SIB12_RxlevMin_Freq3_PLMN1Or2 (tcv_CellInfoD, tcv_CellInfoE, tcv_CellInfoF, tcv_CellInfoA, tcv_CellInfoB, tcv_CellInfoC, tcv_CellInfoG, tcv_CellInfoH))			
50		[p_CellID = tsc_CellE]			
51		(tcv_SIB11 := cd_SIB11_RxlevMin_Freq3_PLMN1Or2 (tcv_CellInfoE, tcv_CellInfoD, tcv_CellInfoF, tcv_CellInfoA, tcv_CellInfoB, tcv_CellInfoC, tcv_CellInfoG, tcv_CellInfoH) , tcv_SIB12 := cd_SIB12_RxlevMin_Freq3_PLMN1Or2 (tcv_CellInfoE, tcv_CellInfoD, tcv_CellInfoF, tcv_CellInfoA, tcv_CellInfoB, tcv_CellInfoC, tcv_CellInfoG, tcv_CellInfoH))			
52		[p_CellID = tsc_CellF]			
53		(tcv_SIB11 := cd_SIB11_RxlevMin_Freq3_PLMN1Or2 (tcv_CellInfoF, tcv_CellInfoD, tcv_CellInfoE, tcv_CellInfoA, tcv_CellInfoB, tcv_CellInfoC, tcv_CellInfoG, tcv_CellInfoH) , tcv_SIB12 := cd_SIB12_RxlevMin_Freq3_PLMN1Or2 (tcv_CellInfoF, tcv_CellInfoD, tcv_CellInfoE, tcv_CellInfoA, tcv_CellInfoB, tcv_CellInfoC, tcv_CellInfoG, tcv_CellInfoH))			
54		[p_CellID = tsc_CellG]			
55		(tcv_SIB11 :=			

		<pre> cd_SIB11_RxlevMin_Freq3_PLMN3 (tcv_CellInfoG, tcv_CellInfoH, tcv_CellInfoA, tcv_CellInfoB, tcv_CellInfoC, tcv_CellInfoD, tcv_CellInfoE, tcv_CellInfoF), tcv_SIB12 := cd_SIB12_RxlevMin_Freq3_PLMN3 (tcv_CellInfoG, tcv_CellInfoH, tcv_CellInfoA, tcv_CellInfoB, tcv_CellInfoC, tcv_CellInfoD, tcv_CellInfoE, tcv_CellInfoF)) </pre>			
56		[p_CellID = tsc_CellH]			
57		<pre> (tcv_SIB11 := cd_SIB11_RxlevMin_Freq3_PLMN3 (tcv_CellInfoH, tcv_CellInfoG, tcv_CellInfoA, tcv_CellInfoB, tcv_CellInfoC, tcv_CellInfoD, tcv_CellInfoE, tcv_CellInfoF), tcv_SIB12 := cd_SIB12_RxlevMin_Freq3_PLMN3 (tcv_CellInfoH, tcv_CellInfoG, tcv_CellInfoA, tcv_CellInfoB, tcv_CellInfoC, tcv_CellInfoD, tcv_CellInfoE, tcv_CellInfoF)) </pre>			
58		[TRUE]			

3.6 c_EPLMN_1

Reason for Change: Anritsu: As per TS 24.008 section 10.5.1.13, each PLMN are 3 OCTETS reserved and if the PLMN_LIST contains only one EPLMN the length should be set to '03'0.

Summary of change: Anritsu: Modified Constraint 'c_E_PLMN1' to '03'0 as below.

Structured Type Constraint Declaration	
Constraint Name:	c_E_PLMN_1 (plmn1 : OCTETSTRING)
Group:	
Type Name:	PLMN_List
Derivation Path:	
Encoding Variation:	

Comments:		@SIC_NAPP For Storing the equivalent PLMN's WA#IDLE3011	
Element Name			
Element Value	Type	Encoding	Comments
iei	'01001010'B		'01001010''B
iel	'01'0 '03'0		Set from '01'0 to '03'0
plmn1	plmn1		PLMN 1
plmn2	-		PLMN 2
plmn3	-		PLMN 3
plmn4	-		PLMN 4
plmn5	-		PLMN 5

3.7 tc_6_1_1_7

Reason for Change: Anritsu: To Initialise this test case as 3 PLMN test case and to handle section 3.7

Summary of change: Anritsu: Initialised tcv_NumOfPLMN:=3 at line no.4 as below:

Test Case					
Test Case Id: tc_6_1_1_7					
Test Group Reference: Idle_Mode/					
Purpose: To verify that in Manual Network Selection Mode Procedure, the UE can perform reselection to an equivalent PLMN.					
Configuration:					
Defaults: RRC_Def1					
Comments: @SIC_NAPP Mapping of the cells from the prose to the TTCN: - Cell A -> Cell A - Cell D -> Cell D - Cell E -> Cell G					
Nr	Label	Behaviour Description	Constraint Ref	Verdict	Comments
1		START t_Guard			
2		[px_RAT = fdd]			FDD specific behaviour
3		+lt_InitVariables			
4		(tcv_NumOfPLMN:=3)			Initializes

					the number of PLMNs WA#IDLE3013
5		<code>--+ ts_IdleSpecificSIB_3And4Initialise</code>			
6		<code>--+ts_SS_CreateCellFACH (tsc_Cella)</code>			Configure lower tester
7		<code>--+ts_SendDefSysInfo_PLMN (tsc_Cella)</code>			Sends the default system information in Cella
8		<code>--+lt_LocalTest</code>			
9		<code>--+po_ConnectionAndSS_Rels</code>			

3.8 ts_SaveBackMIB_SB1

Reason for Change: R&S: test step was made to initialise the variables for MIB and for SIB for the corresponding CellId, but it can only handle to initialise the variables for CellId A to F

Summary of change: R&S: extend the test step to handle to initialise the variables for CellId A to H

Test Step					
Test Step Id: ts_SaveBackMIB_SB1 (p_CellID: INTEGER)					
Test Step Group Ref: L3M_SysInfoHandling/Default/					
Objective: to initialise tcv_MIB and tcv_SB1					
Defaults: InitOtherwiseFail					
Comments: WA#IDLE3019					
Nr	Label	Behaviour Description	Constraint Ref	Verdict	Comments
1		[p_CellID = tsc_Cella]			
2		(tcv_MIB_Cella := tcv_MIB, tcv_SB1_Cella := tcv_SB1)			
3		[p_CellID = tsc_CellB]			
4		(tcv_MIB_CellB := tcv_MIB, tcv_SB1_CellB := tcv_SB1)			
5		[p_CellID = tsc_CellC]			
6		(tcv_MIB_CellC := tcv_MIB, tcv_SB1_CellC := tcv_SB1)			
7		[p_CellID = tsc_CellD]			

8		(tcv_MIB_CellD := tcv_MIB, tcv_SB1_CellD:= tcv_SB1)			
9		[p_CellID = tsc_CellE]			
10		(tcv_MIB_CellE := tcv_MIB, tcv_SB1_CellE := tcv_SB1)			
11		[p_CellID = tsc_CellF]			
12		(tcv_MIB_CellF := tcv_MIB, tcv_SB1_CellF := tcv_SB1)			
13		[p_CellID = tsc_CellG]			
14		(tcv_MIB_CellG := tcv_MIB, tcv_SB1_CellG := tcv_SB1)			
15		[p_CellID = tsc_CellH]			
16		(tcv_MIB_CellH := tcv_MIB, tcv_SB1_CellH := tcv_SB1)			
17		[TRUE]		(I)	

3.9 ts_SendDefSysInfo_PLMN

Reason for Change: R&S: in ts_InitializeSIB2AndSIB18, the tcv_SIB18 will be initialised depending on the variable tcv_NumOfPLMN to handle Sib-configurations with different PLMNs

Summary of change: R&S: to use the proper setting for SIB18 with different PLMNs, replace c_SIB18_Def with the in teststep ts_InitializeSIB2AndSIB18 initialised variable tcv_SIB18

Test Step Id:	ts_SendDefSysInfo_PLMN (p_CellId: INTEGER)		
Test Step Group Ref:	SysInfo/IdleModeSpecific/		
Objective:	To broadcast default system infomation.		
Defaults:	InitOtherwiseFail		
Comments:	@SIC_NAPP, WA#IDLE3022		
1		+ ts_SetTmpCellInfo (p_CellId)	
2		+ ts_UTRAN_GERAN_ParaInit (p_CellId)	
		Ö	
16		+ts_SendSIB18_LongNeighCellInfo(c_SIB18_Def(tcv_TmpCellInfo), p_CellId, tsc_Now)	
17		+ts_SendSIB18_LongNeighCellInfo(tcv_SIB18, p_CellId, tsc_Now)	
18		+ts_SendSB1_LongNeighCellInfo (tcv_SB1, p_CellId, tsc_Now)	
19		+ts_SendMIB (tcv_MIB, p_CellId, tsc_Now)	
20		+ts_SendPage1_ModifySI (p_CellId, tcv_MIB.mib_ValueTag)	
21		+ ts_SaveBackMIB_SB1 (p_CellId)	

3.10 ts_NAS_UpdateRegistration

Reason for Change: R&S, Anritsu : after the UE is IdleUpdated on CellA, it will perform a Cell-reselection sending a LocUpdate (for CS-registration) or a RoutingAreaUpdate (for PS-registration). The teststep ts_NAS_Registration was made to handle the normal registration after a Cell-Selection

Summary of change: R&S: copy teststep ts_NAS_Registration to ts_NAS_UpdateRegistration, containing all changes to be able to perform a registration after a Cell-Reselection

Test Step					
Test Step Id:	ts_NAS_UpdateRegistration (p_CellId: INTEGER)				
Test Step Group Ref:	L3M_General_NAS_Steps/				
Objective:	Register UE for PS or combined PS/CS services.				
Defaults:	NAS_OtherwiseFail				
Comments:	@SIC_NAPP Initial condition: the RRC connection is already established. WA#IDLE3031				
Nr	Label	Behaviour Description	Constraint Ref	Verdict	Comments
1		+ts_SetTmpCellInfo (p_CellId)			Fetch SS_CellInfo table corresponding to the cell
2		[pc_CS AND pc_PS]			both CS and PS supported and for testing
3		+ lt_CS_PS			
4		+ lt_RRC_ConnRel			Connection Release
5		[pc_CS]			CS supported and for testing
6		+ lt_MM_Registration			
7		+ lt_RRC_ConnRel			Connection Release
8		[pc_PS]			PS supported and for testing
9		+lt_GMM_Registration			
10		+ lt_RRC_ConnRel			Connection Release

11	ERR1	[TRUE]		I	
<u>lt_CS_PS</u>					
12		[(tcv_UE_OpMode = opModeA) AND (tcv_TmpCellInfo.nmo = tsc_NMO_I)]			If UE is in operation mode A and network mode of operation is I, then run combined PS/CS procedures.
13		+lt_GMM_Registration			
14		Ö			
15		...			
<u>lt_GMM_Registration</u>					
33		Dc ? RRC_DataInd (tcv_TmpRAU_ReqPDU := RRC_DataInd.msg, tcv_Start := RRC_DataInd.start)	car_PS_InitDirectTransfer (tsc_CellDedicated, tsc_RB3, cbr_RA_UpdReqAny (c_GMM_UpdateType_v(?,?), c_RAI_Any_v, ?))		ROUTING AREA UPDATING REQUEST - Update type = 'RA updating' - RAI information not interesting
34		+ lt_GMM_RegistrationContinue			
<u>lt_GMM_RegistrationContinue</u>					
35		+ ts_SS_SecurityDownloadStart (ps_domain, tcv_Start)			
36		+ts_GMM_Authentication (p_CellId)			AUTHENTICATION AND CIPHERING REQUEST AUTHENTICATION AND CIPHERING RESPONSE
37		+ ts_RRC_Security (p_CellId, tcv_PS_AuthCK, tcv_PS_AuthIK, tcv_AuthKcGSM, TRUE, ps_domain)			SECURITY MODE COMMAND SECURITY MODE COMPLETE
38		(tcv_AssignedPTMSI := px_PTMSI_Def, tcv_Assigned_PTMSI_Sig := px_PTMSI_SigDef)			Use default values
39		Dc ! RRC_DataReq	ca_PS_DataReq(tsc_CellDedicated, tsc_RB3, cs_RA_UpdAcc(c_GMM_UpdateResultRA_Updated,		ROUTING AREA UPDATING ACCEPT - Update

			<pre>c_RAI_Def_v, c_PTMSI_SigDef (px_PTMSI_SigDef), c_MobileIdPTMSI (px_PTMSI_Def), -))</pre>		<pre>result = 'RA updated' - RAI default - P-TMSI-1 - P-TMSI-1 signature</pre>
40		<u>Dc ? RRC_DataInd</u>	<pre>car_PS_UplinkDirectTransfer(tsc_CellDedicated, tsc_RB3, cs_RA_UpdComplete)</pre>		<pre>ROUTING AREA UPDATING COMPLETE</pre>

3.11 ts_UpdateRegistration

Reason for Change: R&S, Anritsu : after the UE is IdleUpdated on CellA, it will perform a Cell-reselection sending a LocUpdate (for CS-registration) or a RoutingAreaUpdate (for PS-registration).

Summary of change: R&S: create new teststep ts_UpdateRegistration to handle a registration after a Cell-Reselection

Test Step					
Test Step Id: <code>ts_UpdateRegistration(p_CellId : INTEGER)</code>					
Test Step Group Ref: <code>RRCM_IdleModeSpecific/</code>					
Objective:					
Defaults: <code>RRC_Def1</code>					
Comments: <code>@SIC_NAPP, WA#IDLE3030</code>					
Nr	Label	Behaviour Description	Constraint Ref	Verdict	Comments
1		<code>+ts_RRC_ConnEst(p_CellId, est_Reg, registration)</code>			<code>Establish RRC connection</code>
2		<code>+ts_NAS_UpdateRegistration (p_CellId)</code>			

3.12 tc_6_1_1_7: It_LocalTest, line 11

Reason for Change: R&S, Anritsu : after the UE is IdleUpdated on CellA, it will perform a Cell-reselection sending a LocUpdate (for CS-registration) or a RoutingAreaUpdate (for PS-registration). The teststep ts_NormalRegistration is made to handle a normal registration after Cell-Selection.

Summary of change: R&S: use new teststep ts_UpdateRegistration to handle the registration after Cell-Reselection to another Cell

Test Case Id:	tc_6_1_1_7		
Test Group Reference:	Idle_Mode/		
Purpose:	To verify that in Manual Network Selection Mode Procedure, the UE can perform reselection to an equivalent PLMN.		
Configuration:			
Defaults:	RRC_Def1		
Comments:	@SIC_NAPP Mapping of the cells from the prose to the TTCN: WA#IDLE3012 - Cell A -> Cell A - Cell D -> Cell D - Cell E -> Cell G		
lt_LocalTest			
25		+ts_SS_CreateCellFACH (tsc_CellG)	Configure lower tester cell 3
26		+ts_SendDefSysInfo_PLMN(tsc_CellG)	Sends the default system information in CellE
27		+ts_NormalRegistration(tsc_CellE)	Complete location Update is done. includin receive random access request from UE. The response from UE is from PLMN3
27		+ts_UpdateRegistration (tsc_CellG)	Complete location Update is done. includin receive random access request from UE. The response from UE is from PLMN3 WA#IDLE3032

CR-Form-v7	CHANGE REQUEST
⌘ 34.123-3 CR 1098 ⌘ rev - ⌘ Current version: 3.7.0 ⌘	

For **HELP** on using this form, see bottom of this page or look at the pop-up text over the ⌘ symbols.

Proposed change affects: UICC apps ME Radio Access Network Core Network

Title:	⌘ Addition of GCF P3 test case 12.4.2.5a.1 ATS V3.6.0		
Source:	⌘ Anritsu Ltd & R&S		
Work item code:	⌘ N/A	Date:	⌘ 6/9/2004
Category:	⌘ B	Release:	⌘ R99
	Use <u>one</u> of the following categories: F (correction) A (corresponds to a correction in an earlier release) B (addition of feature), C (functional modification of feature) D (editorial modification) Detailed explanations of the above categories can be found in 3GPP TR 21.900 .		Use <u>one</u> of the following releases: 2 (GSM Phase 2) R96 (Release 1996) R97 (Release 1997) R98 (Release 1998) R99 (Release 1999) Rel-4 (Release 4) Rel-5 (Release 5) Rel-6 (Release 6)

Reason for change:	⌘ To introduce test case 12.4.2.5a.1 ATS V3.6.0
Summary of change:	⌘ None
Consequences if not approved:	⌘ Test case will not be introduced

Clauses affected:	⌘ N/A										
Other specs affected:	<table border="1" style="display: inline-table; border-collapse: collapse; text-align: center;"> <tr> <td style="padding: 2px 5px;">Y</td> <td style="padding: 2px 5px;">N</td> </tr> <tr> <td style="padding: 2px 5px;"><input type="checkbox"/></td> <td style="padding: 2px 5px;"><input checked="" type="checkbox"/></td> </tr> <tr> <td style="padding: 2px 5px;"><input type="checkbox"/></td> <td style="padding: 2px 5px;"><input checked="" type="checkbox"/></td> </tr> <tr> <td style="padding: 2px 5px;"><input type="checkbox"/></td> <td style="padding: 2px 5px;"><input checked="" type="checkbox"/></td> </tr> </table>	Y	N	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Other core specifications Test specifications O&M Specifications	⌘
Y	N										
<input type="checkbox"/>	<input checked="" type="checkbox"/>										
<input type="checkbox"/>	<input checked="" type="checkbox"/>										
<input type="checkbox"/>	<input checked="" type="checkbox"/>										
Other comments:	⌘										

How to create CRs using this form:

Comprehensive information and tips about how to create CRs can be found at <http://www.3gpp.org/specs/CR.htm>. Below is a brief summary:

- 1) Fill out the above form. The symbols above marked ⌘ contain pop-up help information about the field that they are closest to.
- 2) Obtain the latest version for the release of the specification to which the change is proposed. Use the MS Word "revision marks" feature (also known as "track changes") when making the changes. All 3GPP specifications can be downloaded from the 3GPP server under <ftp://ftp.3gpp.org/specs/> For the latest version, look for the directory name with the latest date e.g. 2001-03 contains the specifications resulting from the March 2001 TSG meetings.
- 3) With "track changes" disabled, paste the entire CR form (use CTRL-A to select it) into the specification just in front of the clause containing the first piece of changed text. Delete those parts of the specification which are not relevant to the change request.

Title	Introducing test case 12.4.2.5a.1 ATS V3.6.0
Source	Anritsu
Agenda Item	N/A
Document for	Approval
Contact	Dan Fox (Anritsu) dan.fox@eu.anritsu.com Tel: +44 1582 433357

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3	Tables Modified to iWD-TVB2003-03_D04wk31	4

1 Overview

This document details the changes needed introduce test case 12.4.2.5a.1 ATS V3.6.0 With these changes applied the test case can be demonstrated to run on at least one independent UE implementations. Only essential fixes to the TTCN are applied. This test case has been tested according to the configuration stated below:-

Reference document	TS 34.123-1 version 5.8.0 TS34.108 version 5.1.0
Referenced CRs	None
Based ATS suite	iWD-TVB2003-03_D04wk31
Integrity	Enabled
Ciphering	Disabled
Path tested	CS

2 Tables added to iWD-TVB2003-03_D04wk31

None

3 Tables Modified to iWD-TVB2003-03_D04wk31

None

CR-Form-v7	
CHANGE REQUEST	
# 34.123-3 CR 1099 # rev - #	Current version: 3.7.0 #

For [HELP](#) on using this form, see bottom of this page or look at the pop-up text over the # symbols.

Proposed change affects: UICC apps# ME Radio Access Network Core Network

Title:	# Re-submission of GCF package 2 IR_U test case 6.2.2.1 for approval.		
Source:	# Rohde & Schwarz		
Work item code:	# N/A	Date:	# 03/09/04
Category:	# B	Release:	# R99
	Use <u>one</u> of the following categories:		Use <u>one</u> of the following releases:
	F (correction)		2 (GSM Phase 2)
	A (corresponds to a correction in an earlier release)		R96 (Release 1996)
	B (addition of feature),		R97 (Release 1997)
	C (functional modification of feature)		R98 (Release 1998)
	D (editorial modification)		R99 (Release 1999)
	Detailed explanations of the above categories can be found in 3GPP TR 21.900 .		Rel-4 (Release 4)
			Rel-5 (Release 5)
			Rel-6 (Release 6)

Reason for change:	# To correct GCF package 2 IR_U test case 6.2.2.1 and re-submit it for approval.
Summary of change:	# This document lists the changes to be applied to test case 6.2.2.1.
Consequences if not approved:	# The Test case will not work properly

Clauses affected:	# N/A										
Other specs affected:	<table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td style="text-align: center;">Y</td> <td style="text-align: center;">N</td> </tr> <tr> <td style="text-align: center;">#</td> <td style="text-align: center;">X</td> </tr> <tr> <td style="text-align: center;">#</td> <td style="text-align: center;">X</td> </tr> <tr> <td style="text-align: center;">#</td> <td style="text-align: center;">X</td> </tr> </table>	Y	N	#	X	#	X	#	X	Other core specifications	#
Y	N										
#	X										
#	X										
#	X										
		Test specifications	#								
		O&M Specifications	#								
Other comments:	#										

How to create CRs using this form:

Comprehensive information and tips about how to create CRs can be found at <http://www.3gpp.org/specs/CR.htm>. Below is a brief summary:

- 1) Fill out the above form. The symbols above marked # contain pop-up help information about the field that they are closest to.
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downloaded from the 3GPP server under <ftp://ftp.3gpp.org/specs/> For the latest version, look for the directory name with the latest date e.g. 2001-03 contains the specifications resulting from the March 2001 TSG meetings.

- 3) With "track changes" disabled, paste the entire CR form (use CTRL-A to select it) into the specification just in front of the clause containing the first piece of changed text. Delete those parts of the specification which are not relevant to the change request.

01 Jan - 31 Dec 2004

Title: Re-submission of test case 6.2.2.1 for approval

Source: Rohde & Schwarz

Agenda Item: TTCN Issues

Document for: Approval

Contact: Holger Jauch
holger.jauch@rsd.rohde-schwarz.com
Tel. +49 89 4129 11534

1 Overview

This document is a CR on test case 6.2.2.1, submitted for approval. It lists all the changes needed to correct detected problems in the TTCN implementation of test case 6.2.2.1 which is part of the IR_U test suite.

Note: Document T1s040275.doc [5] contains the original CR on tc_6_2_2_1, submitted for approval by Rohde&Schwarz. Not all changes were accepted.

With these changes applied the test case can be demonstrated to run with one or more 3G UEs (see section 6).

2 Table of Contents

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3 Verification Test Summary

Test Case:	tc_6_2_2_1
Test Group:	DualIdleMode/
ATS Version:	IR_U_wk31.mp
System Simulator used:	Rohde & Schwarz 3G system simulators CRTU-W and CRTU-G
UE used:	Nokia 3G UE 7600
Verification Status:	PASS

4 Corrections required for test case 6.2.2.1

4.1 Introduction

This CR presents DualIdleMode test case tc_6_2_2_1 for approval.

The ATS enclosed in T1s040535.zip [1] contains the modifications of test case tc_6_2_2_1 described in this document. The corrections to the errors listed in T1s040558.doc [4] have been performed, as far as applicable.

Note: The ATS enclosed in T1s040535.zip [1] contains a few change labels which are not explicitly mentioned in the text. This is because the environment of the current test case shares some defaults with other test cases, but the changes in the defaults do not affect the current test case. These changes are described in other CRs provided in sequence with the current CR.

For the ATS modifications as identified by the 'Change labels' as defined in the subsequent subclauses, the following principles apply:

- a) All changes are described with respect to **IR_U_wk31.mp** (plus implementation of 'high priority' CRs and other errors listed in T1s040558.doc [4]).
- b) For the changes that are already described in previous CR T1s040536 [3], the list of associated change labels and affected TTCN objects is given in subclause 4.5.
- c) All other changes and new TTCN objects are explicitly described in this CR.

Annex A contains a table listing all change label/affected object combinations applicable to tc_6_2_2_1 (including the ones described in previous CR T1s040536 [3]).

4.2 Presentation of the modifications

The modifications are presented by the use of '**Change Tables**' as described below, and by **screenshots** taken from the relevant parts of changed TTCN objects in TTCN.GR format.

In addition, if the **reason for a change** cannot be expressed in a few table lines, particular subclauses of clause 4 may be generated for detailed argumentation.

The '**Change Tables**' have the format described in the example below (all entries in the second column are for demonstration purposes only):

Table 1: Example Change Table

TTCN object	<i>tc_6_2_2_1</i>
Reference ATS	<i>IR_U_wk31.mp [2]</i>
Change Label	<i>WA#2G3RRC0110</i>
Reason for change	<i><Textual description of change reason>.</i>
Summary of change	<i><Textual description of performed changes></i>
Other affected objects	<i><GOTO fields to other change descriptions> (optional)</i>
ETSI comment	
R&S conclusion	

- TTCN object:** Identifier(s) of one or more TTCN objects having a global context in the TTCN ATS. Typically only one TTCN object occurs. More than one object is listed only, when:
- a) All objects belong to the same TTCN Object Class; and
 - b) All objects are either created, or are modified in the same systematic way; and
 - c) No other change is proposed for the listed objects.
- Reference ATS:** ETSI ATS containing the referred TTCN object(s), relative to which the current change description applies.
- Change Label:** Textual identifier starting with the fixed string 'WA#2G3RRC', followed by a 4-digit number (e.g. WA#2G3RRC0110). A Change Label is assigned when a particular problem is recognized during the verification work. More than one TTCN Object may be affected by the proposed solution to this problem.
- Reason for change:** Textual description of the reason why the change is proposed.
- Summary of change:** Short description of what is proposed for change.
- Other affected objects:** List of one or more GOTO fields, pointing to other TTCN objects having assigned the same Change Label, i.e. all other objects being affected by the problem giving rise to the current Change Label.
- ETSI comment:** This field may be used by ETSI colleagues giving a dedicated reply to the current CR document. Otherwise it is filled by the R&S 2G3 group when another kind of response is received from ETSI.
- R&S conclusion:** Filled by the R&S 2G3 group when the ETSI answer does not indicate acceptance of the change request.

4.3 Modifications inside the tc_6_2_2_1 behaviour table

TTCN object	tc_6_2_2_1
Reference ATS	IR_U_wk31.mp [2]
Change Label	WA#2G3RRC0339
Reason for change	In It_InitVariables tcv_CellInfoA.rac is set to '0000'O. Therefore it is 16 bits long. According to TS 25.331 version 5.7.1, clause 10.3.1.15 the RAC must be 8 bits long.
Summary of change	tcv_CellInfoA.rac is changed from '0000'O to '00'O.
Other affected objects	
ETSI comment	
Change Label	WA#2G3RRC0341
Reason for change	In It_LocalTestCampGSM_CellA_Clean ts_MMI_Cmd was added to prompt the use to switch off the UE. But this does not change the value of tcv_UE_SwitchedON, so that in the 2nd loop, the user is not prompted to switch the UE back on again.
Summary of change	Use ts_MMI_UE_PwrOff instead of ts_MMI_Cmd.
Other affected objects	
ETSI comment	
Change Label	WA#2G3RRC0342
Reason for change	q_RxlevMin is not set to the value defined in the test prose (CR T1-041434). The power is not changed according to CR.
Summary of change	tcv_IdleSIB3_CellA.cellSelectReselectInfo.modeSpecificInfo.fdd.q_RxlevMin := -40; tcv_IdleSIB4_CellA.cellSelectReselectInfo.modeSpecificInfo.fdd.q_RxlevMin := -40. Use parameter value 30 in instead of 60 in CPHY_Cell_TxPower_Modify_REQ.
Other affected objects	
ETSI comment	
Change Label	WA#2G3RRC0345
Reason for change	Local tree It_LocalTestLoop2_CampGSM_CellA_Clean is not the same as It_LocalTestCampGSM_CellA_Clean. There is no switch off, access attempts on cell 2 are treated as failure.
Summary of change	Make It_LocalTestLoop2_CampGSM_CellA_Clean like It_LocalTestCampGSM_CellA_Clean.
Other affected objects	
ETSI comment	
Change Label	WA#2G3RRC0378
Reason for change	t_Guard is not long enough for some test case executions.
Summary of change	Change the value of T_Guard from 360 s to 560 s.
Other affected objects	
ETSI comment	
R&S conclusion	

Test Case					
Test Case Id:	tc_6_2_2_1				
Test Group Reference:	DualIdleMode/				
Purpose:	1.To verify that the UE performs reselection from UTRAN to GSM on the following occasions: 1.1 Serving cell becomes barred 1.2 S<0 for serving cell				
Configuration:					
Defaults:	IntersystemDef_Idle				
Comments:					
Nr	Label	Behaviour Description	Constraint Ref	V...	Comments
1		START T_Guard(560)			@sic T1s040275 sic@ WA#2G3RRC0378
2		[px_RAT=fdd]			FDD specific behaviour
3		+It_InitVariables			
4		+ts_SS_CreateCellFACH(tsc_CellA)			Configure lower tester
5		+ts_SendDefSysInfo_6_1_2_And6_2_2(tsc_CellA)			Sends the default system information in CellA
6		+ts_SendModifiedSysInfoSIB11_12(tsc_CellA)			

Ö

It_InitVariables			
20		+ts_RRC_InitVariables(cell_FACH)	
21		+ts_GSM_InitVariables_TwoCells	Initialises the Variables depending on the GSM Band under usage For all Cells.
22		(tcv_CellInfoA := c_CellInfoDiff (tsc_CellA, px_PriScrmCode, tsc_URA_IdCellA, tsc_CRNTI, px_TCellA, tsc_SFN_OffsetA, tcv_FreqInfoMid, px_UL_ScramblingCode))	
23		(tcv_CellInfoA.mcc:=tsc_MCC_PLMN1, tcv_CellInfoA.mnc:=tsc_MNC_PLMN1, tcv_CellInfoA.lac:=0080'0, tcv_CellInfoA.rac:=00'0, tcv_CellInfoA.attenuationLevel:=tcv_CellInfoA.powerpCPICH+60)	Initialize CELL A Variable as the test case demands such that CPICH_RSCP is -74 @sic T1-040654 sic@ WA#2G3RRC0339
24		(tcv_G_CellInfoA.mcc:=tsc_MCC_PLMN1, tcv_G_CellInfoA.mnc:=tsc_MNC_PLMN1, tcv_G_CellInfoA.lac:=tsc_LAC2_PLMN1, tcv_G_CellInfoA.downlinkPowerLevel:=33, tcv_G_CellInfoA.attFlag:=0'B, tcv_G_CellInfoA.rXLEV_ACCESS_MIN:=001001'B)	Initialize GSM CELL A Variable as the test case demands NOTE:*Some more values to be set*rXLEV_ACCESS_MIN comes to -100, ref sec 8.1.4 of 05.08 @sic T1-040647 sic@
25		(tcv_G_CellInfoB.mcc:=tsc_MCC_PLMN1, tcv_G_CellInfoB.mnc:=tsc_MNC_PLMN1, tcv_G_CellInfoB.lac:=tsc_LAC3_PLMN1, tcv_G_CellInfoB.downlinkPowerLevel:=28, tcv_G_CellInfoB.attFlag:=0'B, tcv_G_CellInfoB.rXLEV_ACCESS_MIN:=001001'B)	Initialize GSM CELL B Variable as the test case demands NOTE:*Some more values to be set*rXLEV_ACCESS_MIN comes to -100, ref sec 8.1.4 of 05.08 @sic T1-040647 sic@
26		(tcv_IdleSIB3_CellA.cellSelectReselectInfo.modeSpecificInfo.fdd.q.RxlevMin := -40, tcv_IdleSIB3_CellA.cellSelectReselectInfo.modeSpecificInfo.fdd.rat_List[0].s_SearchRAT := 10, tcv_IdleSIB4_CellA.cellSelectReselectInfo.modeSpecificInfo.fdd.q.RxlevMin := -40, tcv_IdleSIB11_CellA := c_SIB11_3_Intra3_Inter2_InterRAT (tcv_CellInfoA, tcv_CellInfoB, tcv_CellInfoC, tcv_CellInfoD, tcv_CellInfoE, tcv_CellInfoF, tcv_G_CellInfoA, tcv_G_CellInfoB), tcv_IdleSIB12_CellA := c_SIB12_3_Intra3_Inter2_InterRAT (tcv_CellInfoA, tcv_CellInfoB, tcv_CellInfoC, tcv_CellInfoD, tcv_CellInfoE, tcv_CellInfoF, tcv_G_CellInfoA, tcv_G_CellInfoB))	WA#2G3RRC0342

○

It_LocalTestCampGSM_CellA_Clean			
103		+ts_MMI_UE_PwrOff	Request to switch off the mobile @sic T1s040275 sic@ WA#2G3RRC0341
104		(tcv_Idle := FALSE) START t_Idle (tsc_BufferCleansingTime)	
105	LOOP5	? TIMEOUT t_Idle (tcv_Idle := TRUE)	(P) otherwise pass
106	TBE	+It_LocalTestLoop2	
107		G_L2 ? G_L2_ACCESS_IND	cabr_G_L2_ACCESS_IND (?, ?, 1, ?, ?, c_G_ChannelReq_Any) Just soaking up excess messages from either cell, phone off, so don't need to do anything @sic T1s040275 sic@
108		GOTO LOOP5	
109		TM?RLC_TR_DATA_IND	car_RRC_ConnReq (tsc_CellA, tsc_RB0, cbr_108_RRC_ConnReq(?)) Just soaking up excess messages, phone off, so don't need to do anything @sic T1s040275 sic@
110		GOTO LOOP5	

○

It_LocalTestLoop2_ChangeSysInfoToA			
163		CPHYICPHY_Cell_TxPower_Modify_REQ	ca_CellTxPowerModiReq(tsc_CellA, 30) TEST STEP D) Decrease the cell power by 30dB WA#2G3RRC0342
164		CPHY?CPHY_Cell_TxPower_Modify_CNF	ca_CellTxPowerModiCnf(tsc_CellA)
165		+It_LocalTestLoop2_CampCellIA_ToA	

○

It_LocalTestLoop2_CampGSM_CellA_Clean			
187		+ts_MMI_UE_PwrOff	Request to switch off the mobile WA#2G3RRC0345
188		(tcv_Idle := FALSE) START t_Idle (tsc_BufferCleansingTime)	
189	LOOP10	? TIMEOUT t_Idle (tcv_Idle := TRUE)	(P) otherwise pass
190	TBE	(tcv_TestBody=FALSE)	
191		G_L2 ? G_L2_ACCESS_IND	cabr_G_L2_ACCESS_IND (?, ?, 1, ?, ?, c_G_ChannelReq_Any) Just soaking up excess messages from either cell, phone off, so don't need to do anything WA#2G3RRC0345
192		GOTO LOOP10	
193		TM?RLC_TR_DATA_IND	car_RRC_ConnReq (tsc_CellA, tsc_RB0, cbr_108_RRC_ConnReq(?)) Just soaking up excess messages, phone off, so don't need to do anything WA#2G3RRC0345
194		GOTO LOOP10	

○

4.4 Other modifications relevant for tc_6_2_2_1

4.4.1 PAGINGREQUESTTYPE1

TTCN object	PAGINGREQUESTTYPE1
Reference ATS	IR_U_wk31.mp [2]
Change Label	WA#2G3RRC0177
Reason for change	According to Table 9.1.22.1/3GPP TS 44.018 field 'Mobile Identity1' is of type 'LV', i.e. the IE identifier octet must not be present, but it is present.
Summary of change	The type of field mobileId1 is changed from MM_MS_Identity to MS_Identity_lv.
Other affected objects	
ETSI comment	
R&S conclusion	

PDU Type Definition			
PDU Name:	PAGINGREQUESTTYPE1		
Group:			
PCO Type:	G_DSAP		
Encoding Rule Name:	GSMSParePadding_Rule2		
Encoding Variation:			
Comments:	RR PAGING REQUEST_TYPE1 ntw -> ue/ims 3GPP TS 44.018 clause 9.1.22		
Field Name	Field Type	Type Encoding	Comments
l2PseudoLength	O1		L2 pseudo length M OCTETSTRING [1]
skipIndicator	B4		skip indicator M BITSTRING [4]
rRProtocolDiscriminator	B4		RR protocol discriminator M BITSTRING [4]
msgType	O1		message type M BITSTRING [8]
chNeeded_m1_2	ChNeeded		channels needed for mobiles 1 and 2 M BIT STRING [4] without IEI
pageMode	PageModelE		page mode M BITSTRING [4] without IEI
mobileId1	MS_Identity_lv		mobility identity 1 M OCTETST RING [2..9] WA#2G3RRC0177
mobileId2	MM_MS_Identity		mobility identity 2 O OCTETSTRING [3..10]
p1RO	P1RO		P1 rest octets

4.4.2 c_G_PagingRequest1_IMSI

TTCN object	c_G_PagingRequest1_IMSI
Reference ATS	IR_U_wk31.mp [2]
Change Label	WA#2G3RRC0338
Reason for change	The value of field mobileId1 is c_MobileIdIMSI, but since the IE of this field is mandatory, the IE identifier must be omitted.
Summary of change	Take c_MobileIdIMSI_lv instead of c_MobileIdIMSI.
Other affected objects	
ETSI comment	
R&S conclusion	

PDU Constraint Declaration

Constraint Name:	c_G_PagingRequest1_IMSI
Group:	
PDU Name:	PAGINGREQUESTTYPE1
Derivation Path:	
Encoding Rule Name:	
Encoding Variation:	
Comments:	

Field Name	Element Value	Type Encoding	Comments
l2PseudoLength	'29'0		L2 pseudo length M OCTETSTRING [1]
skipIndicator	'0000'B		skip indicator M BITSTRING [4]
rRProtocolDiscriminator	'0110'B		RR protocol discriminator M BITSTRING [4]
msgType	'21'0		message type M BITSTRING [8]
chNeeded_m1_2	c_G_ChneededAny		channels needed for mobiles 1 and 2 M BI TSTRING [4] without IEI
pageMode	c_G_PagModeNormal		page mode M BITSTRING [4] without IEI
mobileId1	c_MobileIdIMSI_lv		mobility identity 1 M OCTETSTRING [2..9] WA#2G3RRC0338
mobileId2	-		mobility identity 2 O OCTETSTRING [3..10]
p1RO	OMIT		P1 rest octets. The SS will fill the rest of the message with spare padding, so no need to include this field. @sic T1-040940 sic@

4.4.3 cs_ImmediateAssignmentReject

TTCN object	cs_ImmediateAssignmentReject
Reference ATS	IR_U_wk31.mp [2]
Change Label	WA#2G3RRC0379
Reason for change	I2PseudoLength has a wrong value.
Summary of change	Set the correct value '4D'O.
Other affected objects	
ETSI comment	
R&S conclusion	

PDU Constraint Declaration

Constraint Name:	cs_ImmediateAssignmentReject(p_RR_RA : INTEGER ; p_RR_RFN : RFN ; p_WaitInd : HEXSTRING ; p_RR_RA_Invalid : INTEGER)
Group:	
PDU Name:	IMMEDIATE REJECT
Derivation Path:	
Encoding Rule Name:	
Encoding Variation:	
Comments:	RR IMMEDIATE REJECT ntw-> ue/ms GSM 04.08, 9.1.20 This defines the contents for Immediate Assignment Reject message.

Field Name	Element Value	Type Encoding	Comments
I2PseudoLength	'4D'O		L2 pseudo length M OCTETSTRING [1] 19 WA#2G3RRC0379
skipIndicator	tsc_Gen_SkipIndicator		skip indicator M BITSTRING [4]

Ö

4.5 Changes referred to from previous CRs

Table 2 below lists all Change Label/Affected TTCN Object combinations of changes in the RRC ATS required for tc_6_2_2_1, which also apply to one or more other test cases previously requested for approval and being defined unchanged in a previous CR issued by Rohde&Schwarz. For each change the document ID of the previous CR and the reference ATS are also shown.

Table 2: Change labels and affected TTCN objects of the RRC ATS treated in previous CRs

Change Labels	Affected TTCN Objects	Ref. ATS	CR DocId
WA#2G3RRC0366	c_AC_RefNum_Any	New	T1s040536 [3]
WA#2G3RRC0348	c_ExtNeighBCCH_FreqList2terGSM1800B	New	T1s040536 [3]
WA#2G3RRC0348	c_G_CellConfigInfoGSM1800_CellB	IR_U_wk31.mp [2]	T1s040536 [3]
WA#2G3RRC0376	c_G_MeasReport_Any	IR_U_wk31.mp [2]	T1s040536 [3]
WA#2G3RRC0376	c_G_MeasResults_Any	IR_U_wk31.mp [2]	T1s040536 [3]
WA#2G3RRC0305	c_MSRadioAccessCap_lv_Any	New	T1s040536 [3]
WA#2G3RRC0305	cbr_RA_UpdReqAny	IR_U_wk31.mp [2]	T1s040536 [3]
WA#2G3RRC0365	cr_AttachReq	IR_U_wk31.mp [2]	T1s040536 [3]
WA#2G3RRC0366	cr_AuthAndCiphRsp	IR_U_wk31.mp [2]	T1s040536 [3]
WA#2G3RRC0365	cr_DRXparamter_v_Any	New	T1s040536 [3]
WA#2G3RRC0377	cr_G_ClassmarkChangeAny	IR_U_wk31.mp [2]	T1s040536 [3]
WA#2G3RRC0365	cr_MS_NetworkCap_lv_Any	New	T1s040536 [3]
WA#2G3RRC0346	ts_SendDefSysInfoGSM_With3SI2ter	IR_U_wk31.mp [2]	T1s040536 [3]

5 Branches executed in test case 6.2.2.1

The test case was executed for the GSM 1800 band in Combined Attach (CSPS) Mode, automatic attach switched on, with Integrity activated and Ciphering disabled. The execution came to a PASS.

6 Suppelementary information

6.1 ATS

The TTCN ATS containing modified test case tc_6_2_2_1 is IR_U_6_2_2_1.mp.

6.2 Nokia 3G UE 7600 log files

The Nokia 3G UE 7600 passed this test case in Combined Attach (CSPS) mode, automatic attach switched on, on the Rohde & Schwarz 3G System Simulators CRTU-W and CRTU-G, for the 1800 MHz band. The documentation below is enclosed as evidence of the successful test case run T1s040535.zip [1]:

- a) **Execution log files 6-2-2-1-Nokia-CSPS-AutoAttachOn-PASS(1800)-html-logs\Index.html**
This execution log files in HTML format show the dynamic behaviour of the test's Combined Attach (CSPS) branch, automatic attach switched on, executed for the 1800 MHz band, in a tabular view and in message sequence chart (MSC) view. All message contents are fully decoded and listed in hexadecimal format. Preliminary verdicts and the final test case verdict are listed in the log file.
- b) **PICS/PIXIT file TC_6_2_2_1_Nokia_CSPS_AutoAttachOn_1800_Pics_Pixit.txt**
Text file containing all PICS/PIXIT parameters used for a).

7 References

[1]	T1s040535.zip Archive comprising HTML Execution log files, PICS/PIXIT files and the TTCN MP file for the current CR (supplementary information).
[2]	IR_U_wk31.mp ETSI InterRat UTRAN ATS, version week 31 (2004).
[3]	T1s040536.doc Previous CR (on tc_6_2_2_1_1) containing change proposals also referred to in the current CR.
[4]	T1s040558.doc Two Excel sheets ErrorList_wk26.xls, and ErrorList_wk31.xls are included. The two lists can also be found in the TTCN deliveries iWD-TVb2003-03_D04wk31, wk23 and wk34.
[5]	T1s040275.doc Original CR on tc_6_2_2_1.

Annex A: List of change labels and affected TTCN objects

The following Table 3 lists all change labels being described in this document, together with the related affected TTCN objects, and the Reference ATS to which the change description applies. When no Reference ATS is present, the object is a new definition.

Table 3: List of change labels and related affected TTCN Objects and reference ATS

Change Labels	Affected TTCN Objects	Ref. ATS
WA#2G3RRC0177	PAGINGREQUESTTYPE1	IR_U_wk31.mp [2]
WA#2G3RRC0305	c_MSRadioAccessCap_lv_Any	New
WA#2G3RRC0305	cbr_RA_UpdReqAny	IR_U_wk31.mp [2]
WA#2G3RRC0338	c_G_PagingRequest1_IMSI	IR_U_wk31.mp [2]
WA#2G3RRC0339	tc_6_2_2_1	IR_U_wk31.mp [2]
WA#2G3RRC0341	tc_6_2_2_1	IR_U_wk31.mp [2]
WA#2G3RRC0342	tc_6_2_2_1	IR_U_wk31.mp [2]
WA#2G3RRC0345	tc_6_2_2_1	IR_U_wk31.mp [2]
WA#2G3RRC0346	ts_SendDefSysInfoGSM_With3SI2ter	IR_U_wk31.mp [2]
WA#2G3RRC0348	c_ExtNeighBCCH_FreqLst2terGSM1800B	New
WA#2G3RRC0348	c_G_CellConfigInfoGSM1800_CellB	IR_U_wk31.mp [2]
WA#2G3RRC0365	cr_MS_NetworkCap_lv_Any	New
WA#2G3RRC0365	cr_DRXparamter_v_Any	New
WA#2G3RRC0365	cr_AttachReq	IR_U_wk31.mp [2]
WA#2G3RRC0366	c_AC_RefNum_Any	New
WA#2G3RRC0366	cr_AuthAndCiphRsp	IR_U_wk31.mp [2]
WA#2G3RRC0376	c_G_MeasResults_Any	IR_U_wk31.mp [2]
WA#2G3RRC0376	c_G_MeasReport_Any	IR_U_wk31.mp [2]
WA#2G3RRC0377	cr_G_ClassmarkChangeAny	IR_U_wk31.mp [2]
WA#2G3RRC0378	T_Guard	IR_U_wk31.mp [2]
WA#2G3RRC0379	cs_ImmediateAssignmentReject	IR_U_wk31.mp [2]

CR-Form-v7	
CHANGE REQUEST	
# 34.123-3 CR 1100 # rev - #	Current version: 3.7.0 #

For **HELP** on using this form, see bottom of this page or look at the pop-up text over the # symbols.

Proposed change affects: UICC apps# ME Radio Access Network Core Network

Title:	# Addition of RAB test case 14.2.51b.1 to RAB ATS V3.6.0		
Source:	# Rohde & Schwarz		
Work item code:	# N/A	Date:	# 01/09/2004
Category:	# B	Release:	# R99
	<i>Use <u>one</u> of the following categories:</i> F (correction) A (corresponds to a correction in an earlier release) B (addition of feature), C (functional modification of feature) D (editorial modification) Detailed explanations of the above categories can be found in 3GPP TR 21.900 .		<i>Use <u>one</u> of the following releases:</i> 2 (GSM Phase 2) R96 (Release 1996) R97 (Release 1997) R98 (Release 1998) R99 (Release 1999) Rel-4 (Release 4) Rel-5 (Release 5) Rel-6 (Release 6)

Reason for change:	# To add verified GCF package 3 RAB test case 14.2.51b.1 to the approved RAB ATS V3.6.0
Summary of change:	# This document lists all changes applied to test case 14.2.51b.1 required for approval. See detailed change description for further information.
Consequences if not approved:	# Test case will not be added to ATS

Clauses affected:	# N/A										
Other specs affected:	<table border="1" style="display: inline-table; border-collapse: collapse; text-align: center;"> <tr> <td style="width: 20px;">Y</td> <td style="width: 20px;">N</td> </tr> <tr> <td style="width: 20px;">X</td> <td style="width: 20px;">X</td> </tr> <tr> <td style="width: 20px;">X</td> <td style="width: 20px;">X</td> </tr> <tr> <td style="width: 20px;">X</td> <td style="width: 20px;">X</td> </tr> </table> Other core specifications # Test specifications # O&M Specifications #	Y	N	X	X	X	X	X	X	# Change mentioned in 4.11 will require a prose CR	
Y	N										
X	X										
X	X										
X	X										
Other comments:	# R&S will raise a Prose CR for the Change mentioned in sec 4.11										

How to create CRs using this form:

Comprehensive information and tips about how to create CRs can be found at <http://www.3gpp.org/specs/CR.htm>. Below is a brief summary:

- 1) Fill out the above form. The symbols above marked # contain pop-up help information about the field that they are closest to.
- 2) Obtain the latest version for the release of the specification to which the change is proposed. Use the MS Word "revision marks" feature (also known as "track changes") when making the changes. All 3GPP specifications can be downloaded from the 3GPP server under <ftp://ftp.3gpp.org/specs/> For the latest version, look for the directory name with the latest date e.g. 2001-03 contains the specifications resulting from the March 2001 TSG meetings.

- 3) With "track changes" disabled, paste the entire CR form (use CTRL-A to select it) into the specification just in front of the clause containing the first piece of changed text. Delete those parts of the specification which are not relevant to the change request.

Title: Changes to test case 14.2.51b.1 required for approval
Source: Rohde & Schwarz
Agenda Item: TTCN Issues
Document for: Approval
Contact: Thomas Moosburger
thomas.moosburger@rsd.rohde-schwarz.com
Tel. +49 89 4129 11731

1 Overview

This document lists all the changes needed to correct problems in the TTCN implementation of test case 14.2.51b.1 which is part of the RAB test suite. Only essential changes to the TTCN are applied and documented in section 4.

With these changes applied the test case can be demonstrated to run with one or more 3G UEs (see section 6). Execution log files are provided as evidence.

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3 Verification Test Summary

Test Case: TC_14_2_51b.1
Test Group: RAB/CombinationOnDPCH/ConvSpeech_InteractBackgrnd/
ATS Version: iWD-TVB2003-03_D04wk31 + essential modifications
System Simulator used: Rohde & Schwarz 3G system simulator CRTU-W
UE used: Nokia 6630 and Ericsson U100
Verification Status: PASS

4 Corrections required for test case 14.2.51b.1

4.1 Introduction

This section describes the changes required to make test case 14.2.51b.1 run correctly with a 3G UE. All modifications are marked with label **WA#RAB<number>** for RAB related changes in the TTCN comments column of the enclosed ATS [1].

The ATS version used as basis was RAB_wk26.mp which is part of the iWD-TVB2003-03_D04wk26 release. This ATS, provided by MCC160 which contains GCF package 1, 2, 3 and 4 test cases.

The enclosed ATS [1] contains a number of additional changes (see list below) in common test steps which are required for other tests, but which are not applicable to test case 14.2.51b.1:

WA#RAB4218, WA#RAB4321, WA#RAB4328, WA#RAB4377, WA#RAB4378, WA#RAB4383, WA#RAB4384, WA#RAB4387, WA#RAB4394, WA#RAB4397, WA#RAB4424, WA#RAB4456, WA#RAB4463 and WA#RAB4475.

4.2 ts_SS_RelDPCH (A#RAB4462)

Test step name	ts_SS_RelDPCH
Reason for change	The configuration "cell_Two_DTCH_CS_PS" (the one that 14.2.38a uses) is not included in this test step.
Summary of change	Added lines 100 to 109 including the test steps to release the resources in the "cell_Two_DTCH_CS_PS" configuration.
Source of change	New Change
Label	A#RAB4462

Test Step				
Test Step Id:	ts_SS_RelDPCH (p_CellId : INTEGER)			
Test Step Group Ref:	BasicM_SS_Configuration_Steps/			
Objective:	To release the DPCH channel.			
Defaults:	SS_Def			
Comments:	The following channels need to be removed: physical channels: DPCH; transport channels: DCH; logical channels: DCCH; and signalling radio bearer: signalling bearers on DCH radio access bearer on DCH.			
	WA#RAB4462			
Nr	Label	Behaviour Description	Constraint Ref	Comments
99		+ ts_SS_StopRL (p_CellId , tsc_UL_DPCH1)		
100		[(tcv_TmpCellInfo.cellConfig = cell_Two_DTCH_CS_PS)		
101		+ It_RelSRB1_4		
102		+ ts_CRLC_Rel (tsc_CellDedicated , tsc_RB10)		
103		+ ts_CRLC_Rel (tsc_CellDedicated , tsc_RB20)		
104		+ ts_CMAC_Rel (tsc_CellDedicated , tsc_DL_DPCH1)		
105		+ ts_CMAC_Rel (tsc_CellDedicated , tsc_UL_DPCH1)		
106		+ ts_CPHY_TrChRelDCH_NoSHO (p_CellId , tsc_DL_DPCH1)		
107		+ ts_CPHY_TrChRelDCH_NoSHO (p_CellId , tsc_UL_DPCH1)		
108		+ ts_SS_StopRL (p_CellId , tsc_UL_DPCH1)		
109		+ ts_SS_StopRL (p_CellId , tsc_UL_DPCH1)		
110	ERR	[TRUE]		
		It_ReleaseRLC_RB		
111		[(tcv_TmpCellInfo.cellConfig = cell_RLC_DCH_AM_RAB_15Lis)		
112		+ ts_CRLC_Rel (tsc_CellDedicated , tsc_RB_AM_15_RLC)		

4.3 ts_RRC_ConnRel (A#RAB4461)

Test step name	ts_RRC_ConnRel
Reason for change	The configuration "cell_Two_DTCH_CS_PS" is not included in this test step.
Summary of change	Added "cell_Two_DTCH_CS_PS" in the list of possible configurations (line 33).
Source of change	New Change
Label	WA#RAB4461

Test Step					
Test Step Id:	ts_RRC_ConnRel (p_CellId : INTEGER; p_RRC_RelStatus : RRC_Rel_Status)				
Test Step Group Ref:	BasicM_RRC_Steps/				
Objective:	To bring the UE from state CELL_DCH/ CELL_FACH to idle state by releasing the RRC connection				
Defaults:	RRC_Def1				
Comments:					
Nr	Label	Behaviour Description	Constraint Ref	V...	Comments
1		+ ts_SetTmpCellInfo (p_CellId)			
2		+ ts_RRC_Delay (tsc_DelayBeforeRRC_ConnRel)			
3		+ It_Send RRC ConnectionRelease			
30		[tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_3_FACH_CTCH]			
31		+ ts_CRLC_RelReconfSRB (p_CellId)			
32		+ ts_SetCellCfg (p_CellId , cell_FACH_3_SCCPCH_3_FACH_CTCH_NoConn)			
33		[(tcv_TmpCellInfo.cellConfig = cell_DCH_Speech) OR (tcv_TmpCellInfo.cellConfig = cell_DCH_64kCS_RAB_SRB) OR (tcv_TmpCellInfo.cellConfig = cell_DCH_57_6kCS_RAB_SRB) OR (tcv_TmpCellInfo.cellConfig = cell_DCH_64kPS_RAB_SRB) OR (tcv_TmpCellInfo.cellConfig = cell_RLC_DCH_AM_RAB_15Lis) OR (tcv_TmpCellInfo.cellConfig = cell_RLC_DCH_AM_RAB_7Lis) OR (tcv_TmpCellInfo.cellConfig = cell_RLC_DCH_UM_RAB_7Lis) OR (tcv_TmpCellInfo.cellConfig = cell_RLC_DCH_UM_RAB_15Lis) OR (tcv_TmpCellInfo.cellConfig = cell_PDCP_AM_RAB) OR (tcv_TmpCellInfo.cellConfig = cell_PDCP_UM_RAB) OR (tcv_TmpCellInfo.cellConfig = cell_PDCP_AM_UM_RAB) OR (tcv_TmpCellInfo.cellConfig = cell_Two_DTCH) OR (tcv_TmpCellInfo.cellConfig = cell_Four_DTCH_CS) OR (tcv_TmpCellInfo.cellConfig = cell_Four_DTCH_CS_PS) OR (tcv_TmpCellInfo.cellConfig = cell_DCH_2AM_PS) OR (tcv_TmpCellInfo.cellConfig = cell_DCH_2_PS_Call) OR (tcv_TmpCellInfo.cellConfig = cell_Two_DTCH_CS_PS)]			WA#RAB4461
34		+ ts_SS_ReconfigRAB_ToSRB (p_CellId)			
35		+ ts_SetCellCfg (p_CellId , cell_DCH_StandAloneSRB_NoConn)			
36	ERR1	[(tcv_TmpCellInfo.cellConfig = cell_DCH_StandAloneSRB_NoConn) OR			1.

4.4 c_TrLogMappingDL_TM1_AM1 (WA#RAB4448)

Test step name c_TrLogMappingDL_TM1_AM1

Reason for change The MAC TFC reselection algorithm depends on the priority for every logical channel. In the subtests which involves RB20 and other RABs in TM mode (RB10, RB11 and RB12) the mac priority for RB20 must be higher than or RB10.

In the RB20 (AM mode) acknowledge PDUs must be sent sometimes taking the place in the data message. For example If the transport format used is DL_TFC3 (3 blocks in RB20) when the ACK PDUs must be sent it takes one of the blocks so 2 data blocks plus 1 ACK PDU are sent instead of the 3 data PDUs. The remain data PDU will be sent the next tti but this is possible only if there is a suitable TF available and also it is has a higher priority than the rest of the data in other RABs.

See 11.4 Transport format combination selection in UE in TS 25.321

Summary of change Used a value of 6 instead of 8 for the IE mac_LogicalChannelPriority for RB20

Source of change New Change

Label WA#RAB4448

ASN.1 Type Constraint Declaration	
Constraint Name:	c_TrLogMappingDL_TM1_AM1
Group:	
Type Name:	TrCH_LogCHMappingList1
Derivation Path:	
Encoding Variation:	
Comments:	WA#RAB4448
Constraint Value	
<pre> { ulconnectedTrCHList OMIT, dlconnectedTrCHList { {trchid tsc_DL_DCH1, trCH_LogCHMappingList { { logicalChannel_Mapping dl_LogicalChannelMapping : { macHeaderManipulation normalMacHeader , dl_TransportChannelType dch, logicalChannelIdentity tsc_DL_DTCH1, logicalChannelType dTCH, rlc_SizeList configured: NULL, mac_LogicalChannelPriority 7 } , rB_Identity tsc_RB10 } } , {trchid tsc_DL_DCH2, trCH_LogCHMappingList { { logicalChannel_Mapping dl_LogicalChannelMapping : { macHeaderManipulation normalMacHeader , dl_TransportChannelType dch, logicalChannelIdentity tsc_DL_DTCH2, logicalChannelType dTCH, rlc_SizeList configured: NULL, mac_LogicalChannelPriority 6 } , rB_Identity tsc_RB20 } } , {trchid tsc_DL_DCH5, trCH_LogCHMappingList </pre>	

4.5 c_TrCHInfoDL_3_0To19_Order1 (WA#RAB4407)

Test step name	c_TrCHInfoDL_3_0To19_Order1
Reason for change	Wrong list of CTFCs. It should not be i0, 1, 2, 3,4,5,6,7,8,9,10,11,12,13,14,15,16,17, 18 and 19i (c_TFCS_Cmpl0_To19_Tx) but instead i0,2,4,6,8,1,3,5,7,9,10,12,14,16,18,11,13,15,17 and 19i (c_TFCS_Cmpl0_To19_Tx_Order1)
Summary of change	Created alternative constraint c_TrCHInfoDL_3_0To19_Order1 with correct list of CTFCs.
Source of change	New Change

ASN.1 Type Constraint Declaration	
Constraint Name:	p_TrCHInfoDL_3_0To19_Order1 (p_DchTFSS , p_DchTFSS1, p_DchTFSS2 : CommonOrDedicatedTFS ; p_PowerOffsetInformation : PowerOffsetInformation)
Group:	
Type Name:	TrCHInfo
Derivation Path:	
Encoding Variation:	
Comments:	@SIC_NAPP With CTFC list : 0 To 19 WA#RAB4407
Constraint Value	
<pre> { dlConnectedTrCHList { { trchid tsc_DL_DCH1, transportChannelInfo p_DchTFSS1 }, { trchid tsc_DL_DCH2, transportChannelInfo p_DchTFSS2 }, { trchid tsc_DL_DCH5, transportChannelInfo p_DchTFSS5 } }, dlTFCS c_TFCS_Cmpl0_To19_Tx_Order1 (p_PowerOffsetInformation) } </pre>	

4.6 ts_3DCH_ModifyConvUnknown_64k_InteractBackg_16k_64k_20 (WA#RAB4418)

Test step name	ts_3DCH_ModifyConvUnknown_64k_InteractBackg_16k_64k_20
Reason for change	Wrong list of TFCSs for DL: It should not be i0, 1, 2, 3,4,5,6,7,8,9,10,11,12,13,14,15,16,17, 18 and 19i (c_TFCS_Cmpl0_To19_Tx) but instead i0,2,4,6,8,1,3,5,7,9,10,12,14,16,18,11,13,15,17 and 19i (c_TFCS_Cmpl0_To19_Tx_Order1)
Summary of change	Used c_TrCHInfoDL_3_0To19_Order1 (SEE POINT 4.5) INSTEAD OF c_TrCHInfoDL_3_0To19.
Source of change	New Change

Label

WA#RAB4418

Test Step	
Test Step Id:	ts_3DCH_ModifyConvUnknown_64k_InteractBackg_16k_64k_20 (p_CellId : INTEGER; p_ActTime : ActivationTime; p_DL_CommonInformation : DL_CommonInformation; p_UL_DPCH_Info : UL_DPCH_Info)
Test Step Group Ref:	RB_Steps/RB_Configuration/
Objective:	to configure physical channel DPCH1 and connect DCH1,DCH2 and DCH5 to the physical channel, then map DCCH1-4 on to the DCH5 transport channel and map DTCH(subflow#1),DTCH(subflow#2), to the DCH1,DCH2 transport channel respectively. Used for Conversational / Unknown / UL:64 DL:64 kbps / CS RAB 20 ms TTI + Interactive or background / UL: 16 DL: 64 kbps / PS RAB /
Defaults:	RRC_Def1
Comments:	@SIC_NAPP

...	L...	Behaviour Description	Constraint Ref	...	Comments
1		[px_RAT = fdd]			
2		CPHY?CPHY_RL_Modify_REQ	ca_DL_DPCH_ModifyInfo (p_CellId, tsc_DL_DPCH1, c_DL_DPCH_Info (tsc_Sfc16, p_DL_CommonInformation, tcv_TmpCellInfo, dl_DPCH_2ndScrCode), p_ActTime)		1.
3		CPHY?CPHY_RL_Modify_CNF	ca_RL_ModifyCnf(p_CellId, tsc_DL_DPCH1)		
4		CPHY?CPHY_TrCh_Config_REQ	ca_3_DCH_0_To19_Order1_DL_Info (p_CellId, tsc_DL_DPCH1, c_TrChConfigTypeDCH_NoSHO, c_DCH_148_TFS_DL, c_DCH_640_TFS_20_2, c_DCH_336_TFS_25_DL_20_TC, c_PowerOffsetInfoHigher64k, activationCFN : p_ActTime)		2. @sic RASH ER1925 sic@
5		CPHY?CPHY_TrCh_Config_CNF	ca_TrChCfgrCnf(p_CellId, tsc_DL_DPCH1)		
6		CMAC ! CMAC_Config_REQ	ca_CMAC_ReconfigInfo (tsc_CellDedicated, tsc_DL_DPCH1, c_UE_Info (OMIT, OMIT), c_TrChInfoDL_3_0To19_Order1 (c_DCH_148_TFS_DL, c_DCH_640_TFS_20_2, c_DCH_336_TFS_25_DL_20_TC, c_PowerOffsetInfoHigher64k), c_TrLogMappingDL_TM1_AM1, p_ActTime)		3. WA#RAB4418
7		CMAC ? CMAC_Config_CNF	ca_CMAC_CfgCnf(tsc_CellDedicated, tsc_DL_DPCH1)		
8		CPHY?CPHY_RL_Modify_REQ	ca_UL_DPCH_ModifyInfo (p_CellId, tsc_UL_DPCH1, p_UL_DPCH_Info, p_ActTime)		1.
9		CPHY?CPHY_RL_Modify_CNF	ca_RL_ModifyCnf(p_CellId, tsc_UL_DPCH1)		

4.7 ts_RB_SubTest_RAB_SRB_RB20_Special_1 and ts_RB_SubTest_RAB_SRB_RB10_RB20_Special_1 (WA#RAB4318)

Test step name ts_RB_SubTest_RAB_SRB_RB20_Special_1 and ts_RB_SubTest_RAB_SRB_RB10_RB20_Special_1

Reason for change Wrong use of the timer to control the send of the measurement control during continuous data transmission: the SS have to check the returned data during this time.

Summary of change With the current code PDUs from the UE are received but these are caught wrongly by the *iotherwise* mechanism as they are not expected. Used for each Subtest step a step of the type *its_ReceiveFirstSDU_...* instead of the control timer (START and TIMEOUT):
For *its_RB_SubTest_RAB_SRB_RB20_Special_1* used *its_ReceiveFirstSDU_RB20*. This test step guarantees that at least one set of PDUs in RB10 and RB20 are received from the UE before sending the measurement control to the UE.

For *its_RB_SubTest_RAB_SRB_RB10_RB20_Special_1* the step used is *its_ReceiveFirstSDU_RB10_RB20*

Source of change New Change

Label WA#RAB318

Test Step					
Test Step Id:	ts_RB_SubTest_RAB_SRB_RB20_Special_1 (p_TFC_UL, p_TFC_DL : TFC_Subset; p_TestLoopModeSetup : UE_TestLoopMode1LB_Setup; p_RAB_Tx_Info : RabTxInfo;p_max_tti,p_ReceiveFactor :INTEGER)				
Test Step Group Ref:	RB_Steps/RB_Subtests/				
Objective:	SS limits the UE allowed uplink transport format combinations, SS closes the test loop, then SS transmit on RB10 an RLC SDU. UE shall send back the same RLC SDU. Refer to steps 11 to 17 of TS 34.123-1 clause 14.1.1				
Defaults:	RRC_Def1				
Comments:	@SIC_NAPP				
...	...	Behaviour Description	Constraint Ref	...	Comments
1		AM I RLC_AM_DATA_REQ	cas_TransportFormatCombCtrlAM (tsc_CellDedicated, tsc_RB2, cbs_TransportFormatCombCtrl (tsc_CellInfo, dl_IntegrityCheckInfo.		Step 11
9		+ts_ReceiveData_RB20_Special (tcv_RB_Data1, p_RAB_Tx_Info, rbTxInfoList.[0].nomOfSdu, p_ReceiveFactor)			Step 14b
10		+ts_SendDataInContinuousTTI (p_RAB_Tx_Info)			
11		[tcv_result=TRUE]			
12		+ts_ReceiveFirstSDU_RB20 (tcv_RB_Data1)			for TTCN Delay Step 15a.1 WA#RAB4318
13		+ts_Simultaneous_Data_SRB_RB20_Special (tcv_RB_Data1, p_RAB_Tx_Info, rbTxInfoList.[0].nomOfSdu, p_ReceiveFactor)			
14		+ ts_TC_OpenUE_TestLoop (tsc_CellDedicated)			Step 16-17
15		[tcv_result=FALSE]		(f)	
16		+ ts_TC_OpenUE_TestLoop (tsc_CellDedicated)			@sic T1s0402

Test Step					
Test Step Id:	ts_RB_SubTest_RAB_SRB_RB10_RB20_Special_1 (p_TFC_UL, p_TFC_DL : TFC_Subset; p_TestLoopModeSetup : UE_TestLoopMode1LB_Setup; p_RAB_Tx_Info : RabTxInfo;p_max_tti,p_ReceiveFactor:INTEGER)				
Test Step Group Ref:	RB_Steps/RB_Subtests/				
Objective:	SS limits the UE allowed uplink transport format combinations, SS closes the test loop, then SS transmit on RB10, RB11 and RB12 an RLC SDU. UE shall send back the same RLC SDU on the same 3 RBs. Refer to steps 11 to 17 of TS 34.123-1 clause 14.1.1				
Defaults:	RRC_Def1				
Comments:	@SIC_NAPP				
...	...	Behaviour Description	Constraint Ref	...	Comments
1		AM I RLC_AM_DATA_REQ	cas_TransportFormatCombCtrlAM (tsc_CellDedicated, tsc_RB2, cbs_TransportFormatCombCtrl (tcv_CellIndInfo, dl_IntegrityCheckInfo.		Step 11
11		+ts_ReceiveData_RB10_RB20_Special (tcv_RB_Data1, tcv_RB_Data2, p_RAB_Tx_Info, p_ReceiveFactor)			Step 14b
12		+ts_SendDataInContinuousTTI (p_RAB_Tx_Info)			
13		[tcv_result=TRUE]			
14		+ts_ReceiveFirstSDU_RB10_RB20 (tcv_RB_Data1, tcv_RB_Data2)			for TTCN Delay Step 15a.1 WA#RAB4318
15		+ts_Simultaneous_Data_SRB_RB10_RB20_Special (tcv_RB_Data1, tcv_RB_Data2, p_RAB_Tx_Info, p_ReceiveFactor)			
16		+ ts_TC_OpenUE_TestLoop (tsc_CellDedicated)			Step 16-17
17		[tcv_result=FALSE]		(f)	
18		+ ts_TC_OpenUE_TestLoop (tsc_CellDedicated)			@sic T1s040254

4.8 c_TFC_Allowed_0_1_5_7_10_17, c_TFC_Allowed_0_1_5_8_10_18 and c_TFC_Allowed_0_1_5_9_10_19. (WA#RAB4464)

Test step name c_TFC_Allowed_0_1_5_7_10_17, c_TFC_Allowed_0_1_5_8_10_18 and c_TFC_Allowed_0_1_5_9_10_19.

Reason for change TFC5 (TF1 in RB10) is needed in the DL for subtests 6, 7, 8 and 9. The reason is that for DL the RB10 and RB20 have the same TTI (20 ms) so when there is no more data to transmit in RB20 (30 PDUs) but there is still data for RB10 (60 PDUs) then it is required one TFC to allow transmit data on RB10 alone.

Summary of change Created c_TFC_Allowed_0_1_5_7_10_17, c_TFC_Allowed_0_1_5_8_10_18 and c_TFC_Allowed_0_1_5_9_10_19.

Source of change New Change

Label WA#RAB4464

ASN.1 Type Constraint Declaration	
Constraint Name:	c_TFC_Allowed_0_1_5_7_10_17
Group:	
Type Name:	TFC_Subset
Derivation Path:	
Encoding Variation:	
Comments:	@SIC_NAPP WA#RAB4464
Constraint Value	
allowedTFC_List: { 0, 1, 5, 7, 10, 17 }	

ASN.1 Type Constraint Declaration	
Constraint Name:	c_TFC_Allowed_0_1_5_8_10_18
Group:	
Type Name:	TFC_Subset
Derivation Path:	
Encoding Variation:	
Comments:	@SIC_NAPP WA#RAB4464
Constraint Value	
allowedTFC_List: { 0, 1, 5, 8, 10, 18 }	

ASN.1 Type Constraint Declaration	
Constraint Name:	c_TFC_Allowed_0_1_5_9_10_19
Group:	
Type Name:	TFC_Subset
Derivation Path:	
Encoding Variation:	
Comments:	@SIC_NAPP WA#RAB4464
Constraint Value	
allowedTFC_List: { 0, 1, 5, 9, 10, 19 }	

4.9 ts_Subtests_1_to_9_tc_14_2_51b_1 (WA#RAB4469, WA#RAB4476Ö)

Test step name	ts_Subtests_1_to_9_tc_14_2_51b_1
Reason for change	<p>For subtests 2, 3, and 4 ts_RB_SubTest_RAB_SRB_RB20_Special is designed for 4 RAB configurations (it used iIB_SetupRB_IE4i for RB20). A analogous constraint for 2 RAB configuration (ts_RB_SubTest_RAB_SRB_RB20_Special_1 should be used instead).</p> <p>For subtests 2 and 7, 312 bits should be expected in RB20. Therefore ts_RB_SubTest_RAB_SRB_RB20_Special_1 and ts_RB_SubTest_RAB_SRB_RB10_RB20_Special_2 (see point 4.10) test steps should be used (otherwise TTCN will expect 632 bits which is wrong).</p> <p>For subtests 7,8 and 9 1280 bits should be expected in RB10 so ts_RB_SubTest_RAB_SRB_RB10_RB20_Special_1 is not suitable as it expects 632 bit. A new test step its_RB_SubTest_RAB_SRB_RB10_RB20_Special_2i (see point 4.10) which expects 1280 bits in TM and the iUL_RLC_sizei length for AM (its_RB_Prepare_DataToBeReceivedi) should be used instead.</p> <p>TFC5 (TF1 in RB10) is needed in the DL for subtests 6, 7, 8 and 9. The reason is that for DL the RB10 and RB20 have the same TTI (20 ms) so when there is no more data to transmit in RB20 (30 PDUs) but there is still data for RB10 (60 PDUs) then it is required one TFC to allow transmit data on RB10 alone.</p>
Summary of change	<p>For subtests 2, 3, and 4 used ts_RB_SubTest_RAB_SRB_RB20_Special_1 instead of ts_RB_SubTest_RAB_SRB_RB20_Special.</p> <p>Subtests 7, 8 and 9 used ts_RB_SubTest_RAB_SRB_RB10_RB20_Special_2 instead of ts_RB_SubTest_RAB_SRB_RB10_RB20_Special.</p> <p>Added TFC 5 for subtests 6, 7, 8 and 9: used c_TFC_Allowed_0_1_5_6_10_16 instead of c_TFC_Allowed_0_1_6_10_16, c_TFC_Allowed_0_1_5_7_10_17 instead of c_TFC_Allowed_0_1_7_10_17, c_TFC_Allowed_0_1_5_8_10_18 instead of c_TFC_Allowed_0_1_8_10_18 and c_TFC_Allowed_0_1_5_9_10_19 instead of c_TFC_Allowed_0_1_9_10_19.</p>
Source of change	New Change
Label	WA#RAB4469 WA#RAB4476 WA#RAB4483

Test Step	
Test Step Id:	ts_Subtests_1_to_9_tc_14_2_51b_1 (p_Data_String:BITSTRING)
Test Step Group Ref:	RB_Steps/RB_Subtests/
Objective:	
Defaults:	
Comments:	@SIC_NAPP WA#RAB4469 WA#RAB4476 WA#RAB4483

...	...	Behaviour Description	Comments
1		+ ts_RB_SubTest_RAB_SRB_RB20 (c_TFC_Allowed_0_1_3_6_7, c_TFC_Allowed_0_1_10_11, c_UE_TestLoopMode1_LB_Setup2 (640,tsc_RB10, 312, tsc_RB20), c_RAB_Tx_Info (p_Data_String, 1, c_RB_Tx_Info(tsc_RB20,312,30), OMIT, OMIT, OMIT), 40)			Subtest 1 Steps 11-17
2		+ts_RB_SubTest_RAB_SRB_RB20_Special_1 (c_TFC_Allowed_0_1_2_3_6_8, c_TFC_Allowed_0_1_2_10_12, c_UE_TestLoopMode1_LB_Setup2 (640,tsc_RB10, 312, tsc_RB20), c_RAB_Tx_Info (p_Data_String, 1, c_RB_Tx_Info(tsc_RB20,632,30), OMIT, OMIT, OMIT), 40, 1)			Subtest 2 Steps 11-17

3		+ ts_RB_SubTest_RAB_SRB_RB20_Special_1 (c_TFC_Allowed_0_1_2_3_6_8, c_TFC_Allowed_0_1_3_10_13, c_UE_TestLoopMode1_LB_Setup2 (640,tsc_RB10, 312, tsc_RB20), c_RAB_Tx_Info (p_Data_String, 1, c_RB_Tx_Info(tsc_RB20,952,30), OMIT, OMIT, OMIT), 40, 1)			Subtest 3 Steps 11-17
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4		+ ts_RB_SubTest_RAB_SRB_RB20_Special_1 (c_TFC_Allowed_0_1_2_3_6_8, c_TFC_Allowed_0_1_4_10_14, c_UE_TestLoopMode1_LB_Setup2 (640,tsc_RB10, 312, tsc_RB20), c_RAB_Tx_Info (p_Data_String, 1, c_RB_Tx_Info(tsc_RB20,1272,30), OMIT, OMIT, OMIT), 40, 1)			Subtest 4 Steps 11-17
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5		+ ts_RB_SubTest_RAB_SRB_RB10 (c_TFC_Allowed_0_1_3_6_9, c_TFC_Allowed_0_5_10_15, c_UE_TestLoopMode1_LB_Setup2 (640,tsc_RB10, 312, tsc_RB20), c_RAB_Tx_Info (p_Data_String, 1, c_RB_Tx_Info(tsc_RB10,1280,60), OMIT, OMIT, OMIT), 20)			Subtest 5 Steps 11-17
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6		+ ts_RB_SubTest_RAB_SRB_RB10_RB20 (c_TFC_Allowed_0_1_3_4_6_7_9_10, c_TFC_Allowed_0_1_5_6_10_16, c_UE_TestLoopMode1_LB_Setup2 (640,tsc_RB10, 312, tsc_RB20), c_RAB_Tx_Info (p_Data_String, 2, c_RB_Tx_Info(tsc_RB10,1280,60), c_RB_Tx_Info(tsc_RB20,312,30), OMIT, OMIT, OMIT), 40)			Subtest 6 Steps 11-17
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7	+ ts_RB_SubTest_RAB_SRB_RB10_RB20_Special_2 (c_TFC_Allowed_0_1_2_3_5_6_8_9_11, c_TFC_Allowed_0_1_5_7_10_17, c_UE_TestLoopMode1_LB_Setup2 (640,tsc_RB10, 312, tsc_RB20), c_RAB_Tx_Info (p_Data_String, 2, c_RB_Tx_Info(tsc_RB10,1280,60), c_RB_Tx_Info(tsc_RB20,632,30), OMIT, OMIT), 40, 1)	Subtest 7 Steps 11-17
8	+ ts_RB_SubTest_RAB_SRB_RB10_RB20_Special_2 (c_TFC_Allowed_0_1_2_3_5_6_8_9_11, c_TFC_Allowed_0_1_5_8_10_18, c_UE_TestLoopMode1_LB_Setup2 (640,tsc_RB10, 312, tsc_RB20), c_RAB_Tx_Info (p_Data_String, 2, c_RB_Tx_Info(tsc_RB10,1280,60), c_RB_Tx_Info(tsc_RB20,952,30), OMIT, OMIT), 40, 1)	Subtest 8 Steps 11-17
9	+ ts_RB_SubTest_RAB_SRB_RB10_RB20_Special_2 (c_TFC_Allowed_0_1_2_3_5_6_8_9_11, c_TFC_Allowed_0_1_5_9_10_19, c_UE_TestLoopMode1_LB_Setup2 (640,tsc_RB10, 312, tsc_RB20), c_RAB_Tx_Info (p_Data_String, 2, c_RB_Tx_Info(tsc_RB10,1280,60), c_RB_Tx_Info(tsc_RB20,1272,30), OMIT, OMIT), 40, 1)	Subtest 9 Steps 11-17
Detailed Comment:		

4.10 ts_RB_SubTest_RAB_SRB_RB10_RB20_Special_2 (WA#RAB4483)

Test step name	ts_RB_SubTest_RAB_SRB_RB10_RB20_Special_2
Reason for change	For subtests 7,8 and 9 1280 bits should be expected in RB10 so ts_RB_SubTest_RAB_SRB_RB10_RB20_Special_1 is not suitable as it expects 632 bit. A new test step <code>ts_RB_SubTest_RAB_SRB_RB10_RB20_Special_2</code> (see point 4.10) which expects 1280 bits in TM and the <code>UL RLC size</code> length for AM should be used instead.
Summary of change	Created new test step based in <code>ts_RB_SubTest_RAB_SRB_RB10_RB20_Special_2</code> <code>ts_RB_SubTest_RAB_SRB_RB10_RB20_Special_1</code> but calculates the data expected in RB10 (<code>tcv_RB_Data1</code>) based in the test data size through <code>io_GetMostSignificantBits</code> (1280 bits) rather than using <code>ts_RB_Prepare_DataToBeReceived</code>
Source of change	New Change
Label	WA#RAB4483

Test Step			
Test Step Id:	ts_RB_SubTest_RAB_SRB_RB10_RB20_Special_2 (p_TFC_UL, p_TFC_DL : TFC_Subset; p_TestLoopModeSetup : UE_TestLoopMode1LB_Setup; p_RAB_Tx_Info: RabTxInfo; p_max_tti, p_ReceiveFactor: INTEGER)		
Test Step Group Ref:	RB_Steps/RB_Subtests/		
Objective:	SS limits the UE allowed uplink transport format combinations, SS closes the test loop, then SS transmit on RB10, RB11 and RB12 an RLC SDU. UE shall send back the same RLC SDU on the same 3 RBs. Refer to steps 11 to 17 of TS 34.123-1 clause 14.1.1		
Defaults:	RRC_Def1		
Comments:	@SIC_NAPP WA#RAB4483		
...	Behaviour Description	Constraint Ref	Comments
1	AM I RLC_AM_DATA_REQ	cas_TransportFormatCombCtrlAM (tsc_CellDedicated, tsc_RB2, cbs_TransportFormatCombCtrl (tcv_CellIndInfo.dl_IntegrityCheckInfo, tcv_RRC_TI, p_TFC_UL))	Step 11
2	+ts_TC_CloseUE_TestLoop (tsc_CellDedicated, tsc_UE_TestLoopMode1, p_TestLoopModeSetup)		Steps 12-13
3	(tcv_RB_Data1 := o_GetMostSignificantBits (p_RAB_Tx_Info.testData, p_RAB_Tx_Info.rbTxInfoList[0].sduSize))		
4	+ts_RB_Prepare_DataToBeReceived(p_RAB_Tx_Info.testData, BIT_TO_INT(p_TestLoopModeSetup.IB_SetupRB_IE2.rLC_SDU_Size), p_RAB_Tx_Info.rbTxInfoList[1].sduSize)		
5	(tcv_RB_Data2 := tcv_RB_testdata3)		
6	+ts_SS_TFC_Restriction (tsc_CellDedicated, p_TFC_UL, p_TFC_DL)		
7	+ts_SendDataInContinuousTTI(p_RAB_Tx_Info)		Step 14a
8	[tcv_result=TRUE]		
9	(tcv_max_Timer := (p_max_tti * 12) + (p_max_tti / 10))		Timer Value ----- 12 times max tti among the RABs + 10% of max tti
10	+ts_ReceiveData_RB10_RB20_Special (tcv_RB_Data1, tcv_RB_Data2, p_RAB_Tx_Info, p_ReceiveFactor)		Step 14b
11	+ts_SendDataInContinuousTTI(p_RAB_Tx_Info)		
12	[tcv_result=TRUE]		
13	+ts_ReceiveFirstSDU_RB10_RB20 (tcv_RB_Data1, tcv_RB_Data2)		for TTCN Delay Step 15a.1 WA#RAB4318
14	+ts_Simultaneous_Data_SRB_RB10_RB20_Special (tcv_RB_Data1, tcv_RB_Data2, p_RAB_Tx_Info, p_ReceiveFactor)		
15	+ts_TC_OpenUE_TestLoop (tsc_CellDedicated)		Step 16-17
16	[tcv_result=FALSE]		(I)
17	+ts_TC_OpenUE_TestLoop (tsc_CellDedicated)		@sic T1s040 254 sic@
18	[tcv_result=FALSE]		(I)
19	+ts_TC_OpenUE_TestLoop (tsc_CellDedicated)		@sic T1s040 254 sic@
Detailed Comment:			

4.11 ts_Subtests_1_to_9_tc_14_2_51b_1 (WA#RAB4485)

Test step name ts_Subtests_1_to_9_tc_14_2_51b_1

Reason for change In the RB20 (AM mode) acknowledge PDUs must be sent sometimes taking the place in the data message. For example if the transport format used is TF2 for UL (2 blocks in RB20) when the ACK PDUs must be sent it takes one of the blocks so 2 data blocks plus 1 ACK PDU are sent instead of the 2 data PDUs. The remain data PDU will be sent the next tti but this is possible only if there is a suitable TF available.

Because this reason UL_TFC4 (TF1, TF1, 0) is also required when there is also data on RB10 to be transmitted otherwise the PDU on RB10 can get lost when transmitting in that TTI the remaining data PDU on RB20 commented in the previous paragraph.

Summary of change Used for subtests 7, 8 and 9 ic_TFC_Allowed_0_1_2_3_4_5_6_8_9_11 (see point 4.12) instead of ic_TFC_Allowed_0_1_2_3_5_6_8_9_11 for the UL.

Source of change New Change

Label

WA#RAB4485

Test Step			
Test Step Id:	ts_Subtests_1_to_9_tc_14_2_51b_1 (p_Data_String:BITSTRING)		
Test Step Group Ref:	RB_Steps/RB_Subtests/		
Objective:			
Defaults:			
Comments:	@SIC_NAPP WA#RAB4469 WA#RAB4476 WA#RAB4483		
...	...	Behaviour Description	...
1		+ ts_RB_SubTest_RAB_SRB_RB20 (c_TFC_Allowed_0_1_3_6_7, c_TFC_Allowed_0_1_10_11, c_UE_TestLoopMode1_LB_Setup2 (640,tsc_RB10,312,tsc_RB20), c_RAB_Tx_Info (p_Data_String, 1, c_RB_Tx_Info(tsc_RB20,312,30).	Subtest 1 Steps 11-17
7	4u)	+ ts_RB_SubTest_RAB_SRB_RB10_RB20_Special_2 (c_TFC_Allowed_0_1_2_3_4_5_6_8_9_11, c_TFC_Allowed_0_1_5_7_10_17, c_UE_TestLoopMode1_LB_Setup2 (640,tsc_RB10, 312, tsc_RB20), c_RAB_Tx_Info (p_Data_String, 2, c_RB_Tx_Info(tsc_RB10,1280,60), c_RB_Tx_Info(tsc_RB20,632,30), OMIT, OMIT, 40, 1)	Subtest 7 Steps 11-17 WA#RAB4485
8		+ ts_RB_SubTest_RAB_SRB_RB10_RB20_Special_2 (c_TFC_Allowed_0_1_2_3_4_5_6_8_9_11, c_TFC_Allowed_0_1_5_8_10_18, c_UE_TestLoopMode1_LB_Setup2 (640,tsc_RB10, 312, tsc_RB20), c_RAB_Tx_Info (p_Data_String, 2, c_RB_Tx_Info(tsc_RB10,1280,60), c_RB_Tx_Info(tsc_RB20,952,30), OMIT, OMIT, 40, 1)	Subtest 8 Steps 11-17 WA#RAB4485
9		+ ts_RB_SubTest_RAB_SRB_RB10_RB20_Special_2 (c_TFC_Allowed_0_1_2_3_4_5_6_8_9_11, c_TFC_Allowed_0_1_5_9_10_19, c_UE_TestLoopMode1_LB_Setup2 (640,tsc_RB10, 312, tsc_RB20), c_RAB_Tx_Info (p_Data_String, 2, c_RB_Tx_Info(tsc_RB10,1280,60), c_RB_Tx_Info(tsc_RB20,1272,30), OMIT, OMIT, 40, 1)	Subtest 9 Steps 11-17 WA#RAB4485
Detailed Comment:			

4.12 c_TFC_Allowed_0_1_2_3_4_5_6_8_9_11 (WA#RAB4485)

Test step name c_TFC_Allowed_0_1_2_3_4_5_6_8_9_11

Reason for change Necessary new constraint to implement change 4.11.

Summary of change Created constraint ìc_TFC_Allowed_0_1_2_3_4_5_6_8_9_11î.

Source of change New Change

Label WA#RAB4485

ASN.1 Type Constraint Declaration	
Constraint Name:	c_TFC_Allowed_0_1_2_3_4_5_6_8_9_11
Group:	
Type Name:	TFC_Subset
Derivation Path:	
Encoding Variation:	
Comments:	@SIC_NAPP WA#RAB4485
Constraint Value	
allowedTFC_List:	{ 0, 1, 2, 3, 4, 5, 6, 8, 9, 11 }

4.13 ts_SendRB_SetUp_ConvUnknown_64k_InteractBackg_16k_64k_20 (WA#RAB4488)

Test step name	ts_SendRB_SetUp_ConvUnknown_64k_InteractBackg_16k_64k_20
Reason for change	Inconsistency with approved CR 041172. The security procedure in steps B9 and B10 were move before the RAB setup procedure for PS (implemented in its_RB_InitTest_CS_PSi) thus it has to be removed from this test step.
Summary of change	Removed line 5 cally its_RRC_Securityi for PS (steps B9 and B10)
Source of change	New Change
Label	WA#RAB4488

Test Step			
Test Step Id:	ts_SendRB_SetUp_ConvUnknown_64k_InteractBackg_16k_64k_20 (p_CellId: INTEGER; p_RAB_Id : BITSTRING; p_ActTime : ActivationTime)		
Test Step Group Ref:	RB_Steps/RB_Setup/		
Objective:			
Defaults:	RRC_Def1		
Comments:	@SIC_NAPP WA#RAB4488		
...	Behaviour Description	...	Comments
1	+ ts_SetTmpCellInfo (p_CellId)		
2	+ts_SendRB_SetUpDCH_64k_CS_Segmented (p_CellId, tsc_RAB_DefCS, tcv_ActTime)		1. @sic RASH TTCN Review sic@
3	+ ts_SetCellCfg (p_CellId, cell_DCH_64kCS_RAB_SRB)		
4	+ ts_CalculateActTime (p_CellId)		
5	+ts_SendRB_SetUp_ConvUnknown_64k_InteractBackg_16k_64k_20_CS_PS (p_CellId, p_RAB_Id, p_ActTime)		3.
6	+ ts_SetCellCfg (p_CellId, cell_Two_DTCH_CS_PS)		

5 Branches executed in test case 14.2.51b.1

The test case implementation executed combined CS/PS branch for NMO_I, UE_OpMode A with Integrity activated, Ciphering disabled, AutoAttach off for the Ericsson UE and AutoAttach on for the Nokia one.

6 Execution Log Files

6.1 Nokia 3G UE 6630

The Nokia 6630 passed this test case on Rohde & Schwarz 3G System Simulator CRTU-W. The documentation below is enclosed as evidence of the successful test case run [1]:

- **Execution log files 14_2_51a_1_CS-Nokia-Logs\Index.html**
This execution log files in HTML format show the dynamic behaviour of the test in a tabular view and in message sequence chart (MSC) view. All message contents are fully decoded and listed in hexadecimal format. Preliminary verdicts and the final test case verdict are listed in the log file.
- **PICS/PIXIT file 14_2_51a_1-pics-pixit-Nokia.html**
Text file containing all PICS/PIXIT parameters used for testing.

6.2 Ericsson 3G UE U100

The Ericsson U100 passed this test case on Rohde & Schwarz 3G System Simulator CRTU-W. The documentation below is enclosed as evidence of the successful test case run [1]:

- **Execution log files 14_2_51b_1_CS-Ericsson-Logs\Index.html**
This execution log files in HTML format show the dynamic behaviour of the test in a tabular view and in message sequence chart (MSC) view. All message contents are fully decoded and listed in hexadecimal format. Preliminary verdicts and the final test case verdict are listed in the log file.
- **PICS/PIXIT file 14_2_51b_1-pics-pixit-Ericsson.html**
Text file containing all PICS/PIXIT parameters used for testing.

7 References

- [1] **T1s040571**
This archive comprises HTML Execution log files, PICS/PIXIT files and the TTCN MP file

CR-Form-v7	CHANGE REQUEST
# 34.123-3 CR 1101 # rev - # Current version: 3.7.0 #	

For **HELP** on using this form, see bottom of this page or look at the pop-up text over the # symbols.

Proposed change affects: UICC apps# ME Radio Access Network Core Network

Title:	# Addition of RRC test case 10.1.2.3.7 to RRC ATS V3.6.1		
Source:	# Racal Instruments Wireless Solutions, an Aeroflex Company		
Work item code:	# N/A	Date:	# 31/08/2004
Category:	# B	Release:	# Rel-5
	Use <u>one</u> of the following categories: F (correction) A (corresponds to a correction in an earlier release) B (addition of feature), C (functional modification of feature) D (editorial modification) Detailed explanations of the above categories can be found in 3GPP TR 21.900 .		Use <u>one</u> of the following releases: 2 (GSM Phase 2) R96 (Release 1996) R97 (Release 1997) R98 (Release 1998) R99 (Release 1999) Rel-4 (Release 4) Rel-5 (Release 5) Rel-6 (Release 6)

Reason for change:	# To add verified GCF package 4 RRC test case 10.1.2.3.7 to the approved RRC ATS V3.6.1
Summary of change:	# This document lists all changes applied to test case 10.1.2.3.7 required for approval. See detailed change description for further information..
Consequences if not approved:	# Test case will not be added to ATS

Clauses affected:	# N/A				
Other specs affected:	<table border="1" style="display: inline-table; border-collapse: collapse; text-align: center;"> <tr> <td style="width: 20px;">Y</td> <td style="width: 20px;">N</td> </tr> <tr> <td><input type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> </tr> </table> Other core specifications # <input type="checkbox"/>	Y	N	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Y	N				
<input type="checkbox"/>	<input checked="" type="checkbox"/>				
	<table border="1" style="display: inline-table; border-collapse: collapse; text-align: center;"> <tr> <td style="width: 20px;">Y</td> <td style="width: 20px;">N</td> </tr> <tr> <td><input type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> </tr> </table> Test specifications # <input type="checkbox"/>	Y	N	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Y	N				
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	<table border="1" style="display: inline-table; border-collapse: collapse; text-align: center;"> <tr> <td style="width: 20px;">Y</td> <td style="width: 20px;">N</td> </tr> <tr> <td><input type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> </tr> </table> O&M Specifications # <input type="checkbox"/>	Y	N	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Y	N				
<input type="checkbox"/>	<input checked="" type="checkbox"/>				
Other comments:	#				

How to create CRs using this form:

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- 1) Fill out the above form. The symbols above marked # contain pop-up help information about the field that they are closest to.
- 2) Obtain the latest version for the release of the specification to which the change is proposed. Use the MS Word "revision marks" feature (also known as "track changes") when making the changes. All 3GPP specifications can be

downloaded from the 3GPP server under <ftp://ftp.3gpp.org/specs/> For the latest version, look for the directory name with the latest date e.g. 2001-03 contains the specifications resulting from the March 2001 TSG meetings.

- 3) With "track changes" disabled, paste the entire CR form (use CTRL-A to select it) into the specification just in front of the clause containing the first piece of changed text. Delete those parts of the specification which are not relevant to the change request.

Title: Changes to test case 10.1.2.3.7 required for approval
Source: Racal Instruments Wireless Solutions, an Aeroflex Company
Document for: Email Approval
Contact: **Kundan Sehmbey**
kundan.sehmbey@aeroflex.com
Tel. +44 1628 610639

1 Overview

This document gives details of the changes made to TTCN implementation for test case 10.1.2.3.7, which is part of RRC iWD_wk31 test suite. Plesae see section 6 for log information.

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3 Verification Test Summary

Test Case: tc_10_1_2_3_7
Test Group: RRC
ATS Version: iWD_wk31
System Simulator used: Racal Instruments Wireless Solution 6401 AIME/CT
UE used: Nokia 3G UE 7600 and Qualcomm 3G UE TM 6250
Verification Status: PASS

4 Corrections required for test case 10.1.2.3.7

4.1 Introduction

The TTCN ATS used is RRC iWD_wk31.mp which is part of the iWD-TVB2003-03_D04wk31 release.

No TTCN Modifications required.

5 Branches executed in test case 10.1.2.3.7

Test case was executed with pc_CS=TRUE, pc_PS=TRUE.

6 Execution Log Files

The Nokia 3G UE 7600 and Qualcomm 3G UE TM6250 have been used and test case passed on the Racal Instruments Wireless Solution 6401 AIME/CT Test platform. Log of the successful test case execution is enclosed in T1s040509[2].

7 References

[1]	RRC iWD_wk31.mp
[2]	T1s040509[2].zip Attachment containing the successful log.

CR-Form-v7
CHANGE REQUEST
34.123-3 CR 1102 # rev - # Current version: 3.7.0

For **HELP** on using this form, see bottom of this page or look at the pop-up text over the # symbols.

Proposed change affects: UICC apps# ME Radio Access Network Core Network

Title:	# Addition of RRC test case 10.1.2.7.1 to RRC ATS V3.6.1		
Source:	# Racal Instruments Wireless Solutions, an Aeroflex Company		
Work item code:	# N/A	Date:	# 31/08/2004
Category:	# B	Release:	# Rel-5
	Use <u>one</u> of the following categories: F (correction) A (corresponds to a correction in an earlier release) B (addition of feature), C (functional modification of feature) D (editorial modification) Detailed explanations of the above categories can be found in 3GPP TR 21.900 .		Use <u>one</u> of the following releases: 2 (GSM Phase 2) R96 (Release 1996) R97 (Release 1997) R98 (Release 1998) R99 (Release 1999) Rel-4 (Release 4) Rel-5 (Release 5) Rel-6 (Release 6)

Reason for change:	# To add verified GCF package 4 RRC test case 10.1.2.7.1 to the approved RRC ATS V3.6.1
Summary of change:	# This document lists all changes applied to test case 10.1.2.7.1 required for approval. See detailed change description for further information..
Consequences if not approved:	# Test case will not be added to ATS

Clauses affected:	# N/A				
Other specs affected:	<table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td style="width: 20px; text-align: center;">Y</td> <td style="width: 20px; text-align: center;">N</td> </tr> <tr> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> </tr> </table> Other core specifications #	Y	N	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Y	N				
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	<table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> </tr> </table> Test specifications #	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
<input type="checkbox"/>	<input checked="" type="checkbox"/>				
	<table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> </tr> </table> O&M Specifications #	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
<input type="checkbox"/>	<input checked="" type="checkbox"/>				
Other comments:	#				

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- 1) Fill out the above form. The symbols above marked # contain pop-up help information about the field that they are closest to.
- 2) Obtain the latest version for the release of the specification to which the change is proposed. Use the MS Word "revision marks" feature (also known as "track changes") when making the changes. All 3GPP specifications can be

downloaded from the 3GPP server under <ftp://ftp.3gpp.org/specs/> For the latest version, look for the directory name with the latest date e.g. 2001-03 contains the specifications resulting from the March 2001 TSG meetings.

- 3) With "track changes" disabled, paste the entire CR form (use CTRL-A to select it) into the specification just in front of the clause containing the first piece of changed text. Delete those parts of the specification which are not relevant to the change request.

Title: Changes to test case 10.1.2.7.1 required for approval
Source: Racal Instruments Wireless Solutions, an Aeroflex Company
Document for: Email Approval
Contact: **Kundan Sehmbey**
kundan.sehmbey@aeroflex.com
Tel. +44 1628 610639

1 Overview

This document gives details of the changes made to TTCN implementation for test case 10.1.2.7.1, which is part of RRC iWD_wk31 test suite. Plesae see section 6 for log information.

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3 Verification Test Summary

Test Case: tc_10_1_2_7_1
Test Group: RRC
ATS Version: iWD_wk31
System Simulator used: Racal Instruments Wireless Solution 6401 AIME/CT
UE used: Nokia 3G UE 7600 and Qualcomm 3G UE TM 6250
Verification Status: PASS

4 Corrections required for test case 10.1.2.7.1

4.1 Introduction

The TTCN ATS used is RRC iWD_wk31.mp which is part of the iWD-TVB2003-03_D04wk31 release.

No TTCN Modifications required.

5 Branches executed in test case 10.1.2.7.1

Test case was executed with pc_CS=TRUE, pc_PS=TRUE.

6 Execution Log Files

The Nokia 3G UE 7600 and Qualcomm 3G UE TM6250 have been used and test case passed on the Racal Instruments Wireless Solution 6401 AIME/CT Test platform. Log of the successful test case execution is enclosed in T1s040511[2].

7 References

[1]	RRC iWD_wk31.mp
[2]	T1s040511[2].zip Attachment containing the successful log.

CR-Form-v7
CHANGE REQUEST
34.123-3 CR 1103 # rev - # Current version: 3.7.0

For **HELP** on using this form, see bottom of this page or look at the pop-up text over the # symbols.

Proposed change affects: UICC apps# ME Radio Access Network Core Network

Title:	# Addition of RRC test case 10.1.2.3.2 to RRC ATS V3.6.1		
Source:	# Racal Instruments Wireless Solutions, an Aeroflex Company		
Work item code:	# N/A	Date:	# 31/08/2004
Category:	# B	Release:	# Rel-5
	Use <u>one</u> of the following categories: F (correction) A (corresponds to a correction in an earlier release) B (addition of feature), C (functional modification of feature) D (editorial modification) Detailed explanations of the above categories can be found in 3GPP TR 21.900 .		Use <u>one</u> of the following releases: 2 (GSM Phase 2) R96 (Release 1996) R97 (Release 1997) R98 (Release 1998) R99 (Release 1999) Rel-4 (Release 4) Rel-5 (Release 5) Rel-6 (Release 6)

Reason for change:	# To add verified GCF package 4 RRC test case 10.1.2.3.2 to the approved RRC ATS V3.6.1
Summary of change:	# This document lists all changes applied to test case 10.1.2.3.2 required for approval. See detailed change description for further information..
Consequences if not approved:	# Test case will not be added to ATS

Clauses affected:	# N/A				
Other specs affected:	<table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td style="width: 20px; text-align: center;">Y</td> <td style="width: 20px; text-align: center;">N</td> </tr> <tr> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> </tr> </table> Other core specifications #	Y	N	<input type="checkbox"/>	<input checked="" type="checkbox"/>
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<input type="checkbox"/>	<input checked="" type="checkbox"/>				
	<table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td style="width: 20px; text-align: center;">Y</td> <td style="width: 20px; text-align: center;">N</td> </tr> <tr> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> </tr> </table> Test specifications #	Y	N	<input type="checkbox"/>	<input checked="" type="checkbox"/>
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	<table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td style="width: 20px; text-align: center;">Y</td> <td style="width: 20px; text-align: center;">N</td> </tr> <tr> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> </tr> </table> O&M Specifications #	Y	N	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Y	N				
<input type="checkbox"/>	<input checked="" type="checkbox"/>				
Other comments:	#				

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- 2) Obtain the latest version for the release of the specification to which the change is proposed. Use the MS Word "revision marks" feature (also known as "track changes") when making the changes. All 3GPP specifications can be

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- 3) With "track changes" disabled, paste the entire CR form (use CTRL-A to select it) into the specification just in front of the clause containing the first piece of changed text. Delete those parts of the specification which are not relevant to the change request.

Title: Changes to test case 10.1.2.3.2 required for approval
Source: Racal Instruments Wireless Solutions, an Aeroflex Company
Document for: Email Approval
Contact: **Kundan Sehmbey**
kundan.sehmbey@aeroflex.com
Tel. +44 1628 610639

1 Overview

This document gives details of the changes made to TTCN implementation for test case 10.1.2.3.2, which is part of RRC iWD_wk31 test suite. Plesae see section 6 for log information. Changes are made so that it can be executed with one or more 3G UE. Plesae see section 6 for log information.

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7	References	7

3 Verification Test Summary

Test Case: tc_10_1_2_3_2
Test Group: RRC
ATS Version: iWD_wk31
System Simulator used: Racal Instruments Wireless Solution 6401 AIME/CT
UE used: Nokia 3G UE 7600 and Qualcomm 3G UE TM 6250
Verification Status: PASS

4 Corrections required for test case 10.1.2.3.2

4.1 Introduction

The TTCN ATS used is RRC iWD_wk31.mp which is part of the iWD-TVB2003-03_D04wk31 release.

4.2 Change 1 - test case tc_10_1_2_3_2

Reason for change According to the prose, in Step 1, Cause value #47, resources unavailable, is a suitable value

Summary of change Changed cause value from 1 to 47.

Test Case	
Test Case Id:	tc_10_1_2_3_2
Test Group Reference:	CC/OutgoingCall/U1/
Purpose:	1) To verify that a CC entity of the UE in CC-state U1, "Call initiated", upon receipt of a RELEASE COMPLETE message with valid cause value, enters CC state U0, "Null". 2) To verify that in returning to idle mode, the CC entities relating to the seven mobile originating transaction identifiers are in state U0, "Null".
Configuration:	

Defaults:	NAS_OtherwiseFail
Comments:	@SIC_NAPP

Nr	Label	Behaviour Description	Constraint Ref	Verdict	Comments
1		START t_Guard (300)			
2		+ ts_InitVariables			
3		+ ts_CC_CreateCellA			2.
4		+ ts_IdleUpdated (tsc_CellA)			
5		+ ts_CC_BasicServMO_Tel			1.
6		+ ts_CC_PrEnterU1 (tsc_CellA)			3.
7	TBS	(tcv_TestBody := TRUE)		(P)	
8		Dc ! RRC_DataReq	ca_DataReq (tsc_CellDedicated, tsc_RB3 , cs_RelCmplCau (tcv_TI_S, 1 47))		4. Step 1
9		+ ts_CC_CheckStateU0_MO (tsc_CellA)			5. Steps 2-4
10		+ ts_RRC_ConnRelNoNAS (tsc_CellA, cell_Dch)			
11		+ po_ConnectionAndSS_Rel (tsc_CellA)			Step 5

5 Branches executed in test case 10.1.2.3.2

Test case was executed with pc_CS=TRUE, pc_PS=TRUE.

6 Execution Log Files

The Nokia 3G UE 7600 and Qualcomm 3G UE TM6250 have been used and test case passed on the Racal Instruments Wireless Solution 6401 AIME/CT Test platform. Log of the successful test case execution is enclosed in T1s040507[2].

7 References

[1]	RRC iWD_wk31.mp
[2]	T1s040507[2].zip Attachment containing the successful log and the TTCN mp file.

CR-Form-v7

CHANGE REQUEST

34.123-3 CR 1104 rev - Current version: 3.7.0

For **HELP** on using this form, see bottom of this page or look at the pop-up text over the symbols.

Proposed change affects: UICC apps ME Radio Access Network Core Network

Title:	Addition of NAS Package 4 test case 12.2.1.6 Proc1 to NAS ATS V3.6.1		
Source:	Anite		
Work item code:	N/A	Date:	31/08/04
Category:	B	Release:	R99
	Use <u>one</u> of the following categories:		Use <u>one</u> of the following releases:
	F (correction)		2 (GSM Phase 2)
	A (corresponds to a correction in an earlier release)		R96 (Release 1996)
	B (addition of feature),		R97 (Release 1997)
	C (functional modification of feature)		R98 (Release 1998)
	D (editorial modification)		R99 (Release 1999)
	Detailed explanations of the above categories can be found in 3GPP TR 21.900 .		Rel-4 (Release 4)
			Rel-5 (Release 5)
			Rel-6 (Release 6)

Reason for change:	To add verified GCF package 4 NAS test case 12.2.1.6 Proc1 to the approved NAS ATS V3.6.1
Summary of change:	This document lists all changes applied to test case 12.2.1.6 Proc1 required for approval. See detailed change description for further information.
Consequences if not approved:	Test case will not be added to ATS

Clauses affected:													
Other specs affected:	<table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td style="width: 20px; text-align: center;">Y</td> <td style="width: 20px; text-align: center;">N</td> <td></td> </tr> <tr> <td style="text-align: center;"> </td> <td style="text-align: center;">X</td> <td>Other core specifications</td> </tr> <tr> <td style="text-align: center;"> </td> <td style="text-align: center;">X</td> <td>Test specifications</td> </tr> <tr> <td style="text-align: center;"> </td> <td style="text-align: center;">X</td> <td>O&M Specifications</td> </tr> </table>	Y	N			X	Other core specifications		X	Test specifications		X	O&M Specifications
Y	N												
	X	Other core specifications											
	X	Test specifications											
	X	O&M Specifications											
Other comments:													

How to create CRs using this form:

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- 1) Fill out the above form. The symbols above marked contain pop-up help information about the field that they are closest to.
- 2) Obtain the latest version for the release of the specification to which the change is proposed. Use the MS Word "revision marks" feature (also known as "track changes") when making the changes. All 3GPP specifications can be downloaded from the 3GPP server under <ftp://ftp.3gpp.org/specs/> For the latest version, look for the directory name with the latest date e.g. 2001-03 contains the specifications resulting from the March 2001 TSG meetings.

- 3) With "track changes" disabled, paste the entire CR form (use CTRL-A to select it) into the specification just in front of the clause containing the first piece of changed text. Delete those parts of the specification which are not relevant to the change request.

Title: Changes to test case 12.2.1.6 Proc1 required for approval
Source: Anite
Agenda Item: TTCN Issues
Document for: Approval
Contact: Philip Rose
phil.rose@anite.com
Tel. +44 1252 775200

1 Overview

This document lists all the changes needed to correct problems in the TTCN implementation of test case 12.2.1.6 proc1, which is part of the NAS test suite. Only essential changes to the TTCN are applied and documented in section 4.

With these changes applied the test case can be demonstrated to run with two 3G UE (see section 6). Execution log files are provided as evidence.

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3 Verification Test Summary

Test Case: tc_12_2_1_6 proc1
Test Group: GMM/Attach_procedures/PS_only_attach/
ATS Version: iWD-TVB2003-03_D04wk31 + essential modifications
System Simulator used: Anite 3G U-SAT
UE used: Motorola A835 and Nokia 7600
Verification Status: PASS with both UEs

4 Corrections required for test case 12.2.1.6 Proc1

4.1 Introduction

This section describes the changes required to make test case 12.2.1.6 proc1 run correctly with a 3G UE. NAS_wk31.mp ATS, which is part of the iWD-TVB2003-03_D04wk31 release, is used as basis.

4.2 Change 1

Test step name	tc_12_2_1_6_1
Reason for change	<p>As per TS 34.123-1 Section 12.2.1.6.4.1 <i>An access class x (0-15) is arbitrarily chosen. The USIM is programmed with this access class x. Communication with User Equipments using access class x is initially indicated to be barred.</i></p> <p>In TTCN implementation a class x is chosen using random algorithm. Practically it is not feasible to have 16 USIMs for each of 0-15 access class barred.</p> <p>In TTCN implementation, a definite access class x from (0-15) need to be chosen.</p>
Summary of change	<p>In Line#10, Access class x=3 is assigned by following step, (tcv_AccessClassX := '3'H , tcv_Tmpl :=3) in place of access class x random selection.</p>
Source of change	New change

Before:

9		+ts_GMM_DetachOnSwitchOff(tsc_CellA)		Turn off and detach
10		(tcv_Tmpl := (o_OctToInt (o_GetN_OctetsFromPRBS(0, 1))) MOD 16, tcv_AccessClassX := INT_TO_HEX (tcv_Tmpl, 1))		Generate 'random' access class to be barred
11		+ts_MMI_InsertUSIMAccessClassX(tcv_AccessClassX)		Step 1. Request operator to initiate Test USIM.

After:

9		+ts_GMM_DetachOnSwitchOff(tsc_CellA)		Turn off and detach
10		(tcv_AccessClassX := '3H', tcv_Tmpl := 3)		Generate 'random' access class X to be barred TTCN Change
11		+ts_MMI_InsertUSIMAccessClassX(tcv_AccessClassX)		Step 1. Request operator to insert appropriate Test USIM.

4.3 Change 2

Test step name	tc_12_2_1_6_1 local tree It_SetSysInfosWithBarredClass
Reason for change	Incorrect cellIdB reference made in line#27, since cell B is not applicable for the test case.
Summary of change	<p><i>It_SetSysInfosWithBarredClass</i> local tree in first step changed cell id reference from <i>tsc_CellB</i> to <i>tsc_CellA</i> in line#27</p> <p>i.e.</p> <p>ts_UTRAN_GERAN_Paralnit (tsc_CellB) changed to</p> <p>ts_UTRAN_GERAN_Paralnit (tsc_CellA)</p>

4.24.4 Change 3

Test step name	tc_12_2_1_6_1
Reason for change	<p>As per TS 34.123-1 Section 12.2.1.6.4.1 Expected sequence, step#13 specifies <i>The UE is set in UE operation mode A (see ICS) and the test is repeated from step 3 to step 11.</i></p> <p>If UE operation mode C and operation mode A are supported, it is not specified to repeat step#3 to step#11 with an access class x different from the one earlier used for mode C test steps.</p> <p>In TTCN after UE operation mode C steps, to implement step#13, access class x is derived again using random algorithm, which is not required.</p>
Summary of change	In local tree, It_SetModeA_IfSupp, deleted line#50 and line#51, which performs selection of access class x and MMI command to insert USIM.
Source of change	New change

Before:

49		+ ts_SS_SwitchBackCellOn (tsc_CellA)		
50		(tcv_Tmpl := (o_OctToInt (o_GetN_OctetsFromPRBS(0, 1))) MOD 16, tcv_AccessClassX := INT_TO_HEX (tcv_Tmpl, 1))		Generate 'random' access class to be barred
51		+ts_MMI_InsertUSIMAccessClassX(tcv_AccessClassX)		Step 1. Request operator to initiate Test USIM.
52		[TRUE]		

After:

49		+ ts_SS_SwitchBackCellOn (tsc_CellA)		
50		[TRUE]		

Branches executed in test case 12.2.1.6 Proc1

The test case implementation executed the auto attach enabled and non-auto attach, CS/PS branch with integrity activated and ciphering disabled.

5 Execution Log Files

[5.25.1](#) Nokia 7600

The Nokia 7600 passed this test case on the Anite 3G U-SAT system. The documentation below is enclosed as evidence of the successful test case run [1]:

5.2 Motorola A835

The Motorola A835 passed this test case on the Anite 3G U-SAT system. The documentation below is enclosed as evidence of the successful test case run [1]:

6 References

[1] This archive comprises text format execution log file and the TTCN MP file.

CR-Form-v7

CHANGE REQUEST

34.123-3 CR 1105 rev - Current version: 3.7.0

For **HELP** on using this form, see bottom of this page or look at the pop-up text over the symbols.

Proposed change affects: UICC apps ME Radio Access Network Core Network

Title:	Addition of NAS Package 4 test case 12.2.1.4 proc2 to NAS ATS V3.6.1		
Source:	Anite		
Work item code:	N/A	Date:	31/08/04
Category:	B	Release:	R99
<i>Use <u>one</u> of the following categories:</i> F (correction) A (corresponds to a correction in an earlier release) B (addition of feature), C (functional modification of feature) D (editorial modification) Detailed explanations of the above categories can be found in 3GPP TR 21.900 .		<i>Use <u>one</u> of the following releases:</i> 2 (GSM Phase 2) R96 (Release 1996) R97 (Release 1997) R98 (Release 1998) R99 (Release 1999) Rel-4 (Release 4) Rel-5 (Release 5) Rel-6 (Release 6)	

Reason for change:	To add verified GCF package 4 NAS test case 12.2.1.4 proc2 to the approved NAS ATS V3.6.1
Summary of change:	This document lists all changes applied to test case 12.2.1.4 proc2 required for approval. See detailed change description for further information.
Consequences if not approved:	Test case will not be added to ATS

Clauses affected:											
Other specs affected:	<table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td style="padding: 2px;">Y</td> <td style="padding: 2px;">N</td> </tr> <tr> <td style="text-align: center; padding: 2px;">X</td> <td style="padding: 2px;"></td> </tr> <tr> <td style="text-align: center; padding: 2px;">X</td> <td style="padding: 2px;"></td> </tr> <tr> <td style="text-align: center; padding: 2px;">X</td> <td style="padding: 2px;"></td> </tr> </table>	Y	N	X		X		X		Other core specifications	
	Y	N									
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		Test specifications									
		O&M Specifications									
Other comments:											

How to create CRs using this form:

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- 1) Fill out the above form. The symbols above marked contain pop-up help information about the field that they are closest to.
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- 3) With "track changes" disabled, paste the entire CR form (use CTRL-A to select it) into the specification just in front of the clause containing the first piece of changed text. Delete those parts of the specification which are not relevant to the change request.

Title: Changes to test case 12.2.1.4 proc2 required for approval
Source: Anite
Agenda Item: TTCN Issues
Document for: Approval
Contact: Philip Rose
phil.rose@anite.com
Tel. +44 1252 775200

1 Overview

This document lists all the changes needed to correct problems in the TTCN implementation of test case 12.2.1.4 proc2, which is part of the NAS test suite. Only essential changes to the TTCN are applied and documented in section 4.

With these changes applied the test case can be demonstrated to run with one 3G UE (see section 6). Execution log files are provided as evidence.

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3 Verification Test Summary

Test Case: tc_12_2_1_4 proc2
Test Group: GMM/Attach_procedures/PS_only_attach/
ATS Version: iWD-TVB2003-03_D04wk31 + essential modifications
System Simulator used: Anite 3G U-SAT
UE used: Motorola A835
Verification Status: PASS

4 Corrections required for test case 12.2.1.4 proc2

4.1 Introduction

This section describes the changes required to make test case 12.2.1.4 proc2 run correctly with a 3G UE. NAS_wk31.mp ATS, which is part of the iWD-TVB2003-03_D04wk31 release, is used as basis.

4.2 Change 1

Test step name	tc_12_2_1_4_2
Reason for change	As per TS 34.123-1 section 12.2.1.4.4.2, step 4 of the expected sequence, SS sends ATTACH REQUEST with GMM cause = 'PLMN not allowed' Also TS 24.008 section 4.7.3.1.4 specifies action on receiving ATTACH REJECT with GMM cause = 'PLMN not allowed' as, i# 11 (PLMN not allowed): The MS shall delete any RAI, P-TMSI, P-TMSI signature, and GPRS ciphering key sequence number stored, Ö î In TTCN, at local tree It_Steps_3To5, after SS sending ATTACH REJECT with GMM cause = 'PLMN not allowed', GPRS ciphering key sequence needs to be made default value.
Summary of change	Line#24 is added to initialize tcv_CS_KeySeq and tcv_PS_KeySeq to default value 111iB
Source of change	New change

Before:

22		Dc1 RRC_DataReq	ca_PS_DataReq(tsc_CellID edicated, tsc_RB3, cs_AttachRej(tsc_RejCauPLMN_Not))	Step 4. ATTACH REJECT - GMM cause 'PLMN not allowed'
23		+ts_RRC_ConnRel(tsc_CellA, cell_Dch)		
24		+ts_VerifyNoAccess(30)		Step 5. Verify no access for 30s.

After:

22		Dc1 RRC_DataReq	ca_PS_DataReq(tsc_CellID edicated, tsc_RB3, cs_AttachRej(tsc_RejCauPLMN_Not))	Step 4. ATTACH REJECT - GMM cause 'PLMN not allowed'
23		+ts_RRC_ConnRel(tsc_CellA, cell_Dch)		
24		(tcv_PS_KeySeq := tsc_KeySeqDeleted, tcv_CS_KeySeq := tsc_KeySeqDeleted)		
25		+ts_VerifyNoAccess(30)		Step 5. Verify no access for 30s.

Branches executed in test case 12.2.1.4 proc2

The test case implementation executed the auto attach enabled, CS/PS branch with integrity activated and ciphering disabled.

5 Execution Log Files

[5.25.1](#) Motorola A835

The Motorola A835 passed this test case on the Anite 3G U-SAT system. The documentation below is enclosed as evidence of the successful test case run [1]:

6 References

- [1] This archive comprises text format execution log file and the TTCN MP file.

CR-Form-v7

CHANGE REQUEST

34.123-3 CR 1106 rev - Current version: 3.7.0

For **HELP** on using this form, see bottom of this page or look at the pop-up text over the symbols.

Proposed change affects: UICC apps ME Radio Access Network Core Network

Title:	Addition of NAS Package 4 test case 12.2.1.5a Proc2 to NAS ATS V3.6.1		
Source:	Anite		
Work item code:	N/A	Date:	31/08/04
Category:	B	Release:	R99
	Use <u>one</u> of the following categories:		Use <u>one</u> of the following releases:
	F (correction)		2 (GSM Phase 2)
	A (corresponds to a correction in an earlier release)		R96 (Release 1996)
	B (addition of feature),		R97 (Release 1997)
	C (functional modification of feature)		R98 (Release 1998)
	D (editorial modification)		R99 (Release 1999)
	Detailed explanations of the above categories can be found in 3GPP TR 21.900 .		Rel-4 (Release 4)
			Rel-5 (Release 5)
			Rel-6 (Release 6)

Reason for change:	To add verified GCF package 4 NAS testcase 12.2.1.5a Proc2 to the approved NAS ATS v 3.6.1		
Summary of change:	This document lists all changes applied to test case 12.2.1.5a Proc2 required for approval. See detailed change description for further information.		
Consequences if not approved:	Test case will not be added to ATS		

Clauses affected:	TS 34.123-3 NAS ATS Test case tc_12_2_1_5a_Proc2										
Other specs affected:	<table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td style="width: 20px; text-align: center;">Y</td> <td style="width: 20px; text-align: center;">N</td> </tr> <tr> <td style="text-align: center;">X</td> <td style="text-align: center;">X</td> </tr> <tr> <td style="text-align: center;">X</td> <td style="text-align: center;">X</td> </tr> <tr> <td style="text-align: center;">X</td> <td style="text-align: center;">X</td> </tr> </table>	Y	N	X	X	X	X	X	X	Other core specifications	
Y	N										
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X	X										
X	X										
		Test specifications									
		O&M Specifications									
Other comments:											

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- 1) Fill out the above form. The symbols above marked contain pop-up help information about the field that they are closest to.
- 2) Obtain the latest version for the release of the specification to which the change is proposed. Use the MS Word "revision marks" feature (also known as "track changes") when making the changes. All 3GPP specifications can be downloaded from the 3GPP server under <ftp://ftp.3gpp.org/specs/> For the latest version, look for the directory name with the latest date e.g. 2001-03 contains the specifications resulting from the March 2001 TSG meetings.

- 3) With "track changes" disabled, paste the entire CR form (use CTRL-A to select it) into the specification just in front of the clause containing the first piece of changed text. Delete those parts of the specification which are not relevant to the change request.

Title: Changes to test case 12.2.1.5a proc2 required for approval
Source: Anite
Agenda Item: TTCN Issues
Document for: Approval
Contact: Philip Rose
phil.rose@anite.com
Tel. +44 1252 775200

1 Overview

This document lists all the changes needed to correct problems in the TTCN implementation of test case 12.2.1.5a proc2, which is part of the NAS test suite. Only essential changes to the TTCN are applied and documented in section 4.

With these changes applied the test case can be demonstrated to run with one 3G UE (see section 6). Execution log files are provided as evidence.

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3 Verification Test Summary

Test Case: tc_12_2_1_5a_2
Test Group: GMM/Attach_procedures/PS_only_attach/
ATS Version: iWD-TVB2003-03_D04wk31 + essential modifications
System Simulator used: Anite 3G U-SAT
UE used: Nokia 7600
Verification Status: PASS

4 Corrections required for test case 12.2.1.5a proc2

4.1 Introduction

This section describes the changes required to make test case 12.2.1.5a proc2 run correctly with a 3G UE. NAS_wk31.mp ATS, which is part of the iWD-TVB2003-03_D04wk31 release, is used as basis.

4.2 Change 1

Test step name	tc_12_2_1_5a_2
Reason for change	TS 34.123-1 Section 12.2.1.5a.4.2 Expected sequence at step#3 specifies SS should receive ATTACH REQUEST with PS Attach
Summary of change	lt_Steps_3To5, line #20, constraint <i>c_GMM_AttachTypePS_Only</i> is used in place of <i>c_GMM_AttachTypeCombinedCS_PS</i>
Source of change	New change

Before:

It_Steps_3To5			
20	Dc ? RRC_DataInd (tcv_Start := RRC_DataInd.start)	<pre> car_PS_InitDirectTransfer (tsc_CellID dedicated, tsc_RB3, cr_AttachReq (c_GMM_AttachTypeCombinedCS_PS) c_MobileIDPTMSI_lv_Def, c_RAI_v (tcv_CellInfoA.mcc, tcv_CellInfoA.mnc, tcv_CellInfoA.lac, tcv_CellInfoA.rac), tcv_PS_KeySeq) </pre>	<p>Step 3. ATTACH REQUEST</p> <ul style="list-style-type: none"> - Attach type is 'PS attach' - MobileID P-TMSI-1 - RAI of cell A - PTMSI-1 signature

After:

It_Steps_3To5			
20	Dc ? RRC_DataInd (tcv_Start := RRC_DataInd.start)	<pre> car_PS_InitDirectTransfer (tsc_CellDedicated, tsc_RB 3, cr_AttachReq (c_GMM_AttachTypePS_Only, c_MobileIDPTMSI_lv_Def,) c_RAI_v (tcv_CellInfoA.mcc, tcv_CellInfoA.mnc, tcv_CellInfoA.lac, tcv_CellInfoA.rac), tcv_PS_KeySeq) </pre>	<p>Step 3. ATTACH REQUEST</p> <ul style="list-style-type: none"> - Attach type is 'PS attach' - MobileID P-TMSI-1 - RAI of cell A - PTMSI-1 signature

4.24.3 Change 2

Test step name	tc_12_2_1_5a_2
Reason for change	<p>TS 34.123-1 Section 12.2.1.5a.4.2 Expected sequence at step#4 specifies SS sending ATTACH REJECT with cause "Roaming not allowed in this area".</p> <p>And TS 24.008 Sec. 4.7.3.1.4 specifies, on UE receiving ATTACH REJECT with cause "Roaming not allowed in this area" ñ ì The MS shall delete any RAI, P-TMSI, P-TMSI signature and GPRS cipherring key sequence numberÖ î</p> <p>In TTCN, after sending ATTACH REJECT message to UE, tcv_PS_KeySeq needs to be initialized to default value.</p>
Summary of change	In TTCN, <i>It_Steps_3To5</i> , a new line #23 is added to initialize tcv_CS_KeySeq and tcv_PS_KeySeq to default value 111iB
Source of change	New change

Before:

22	Dc ! RRC_DataReq	ca_PS_DataReq (tsc_CellDedicated, tsc_RB3, cs_AttachRej (tsc_GMM_RejCauRoamingNot))	Step 4. ATTACH REJECT - GMM cause 'Roaming not allowed in this area'
23	+ts_VerifyNoAccess (30)		Step 5. No further ATTACH sent to the SS

After:

22	Dc ! RRC_DataReq	ca_PS_DataReq (tsc_CellDedicated, tsc_RB3, cs_AttachRej (tsc_GMM_RejCauRoamingNot))	Step 4. ATTACH REJECT - GMM cause 'Roaming not allowed in this area'
23	(tcv_PS_KeySeq := tsc_KeySeqDeleted, tcv_CS_KeySeq := tsc_KeySeqDeleted)		
24	+ts_VerifyNoAccess (30)		Step 5. No further ATTACH REQUEST sent to the SS

4.24.4 Change 3

Test step name	<i>tc_12_2_1_5a_2</i>
Reason for change	<p>TS 34.123-1 Section 12.2.1.5a.4.2 Expected sequence at step#4 specifies SS sending ATTACH REJECT with cause "Roaming not allowed in this area".</p> <p>And as per 24.008</p> <p>- Section 4.7.3.1.4 specifies, when UE receive ATTACH REJECT with cause "Roaming not allowed in this area" state of MM at UE will be <i>MM IDLE</i>. Hence, later when UE is switched on an opmode A UE will perform CS registration</p> <p>In TTCN CS registration is not handled.</p> <p>(Refer draft prose CR for more information)</p>
Summary of change	<i>It_Steps_8To11</i> at line #27 test step <i>ts_MM_RegistrationHandleAttachReqIMSI</i> is called to handle CS registration and PS registration in place line#26 and line#27
Source of change	New change

Before:

It_Steps_8To11				
25		+ts_AT_TriggerGMM_Attach		Trigger UE to initiate GMM Att
26		+ts_RRC_ConnEst(tsc_Cella, est_Reg, registration)		
27		Dc ? RRC_DataInd (tcv_Start := RRC_DataInd.start)	car_PS_InitDirectTransfer(tsc_CellDe dicated, tsc_RB3, cr_AttachReq (c_GMM_AttachTypePS_Only, c_MobileIdIMSI_Iv, ?, tcv_PS_KeySeq))	ATTACH REQUEST - Attach type is 'PS attach' - MobileId is IMSI - No RAI, no P-TMSI signatu
28		+ ts_SS_SecurityDownloadStart (ps_domain, tcv_Start)		

After:

It_Steps_8To11				
26		+ts_AT_TriggerGMM_Attach		Trigger UE to initiate GMM Att
27		+ ts_MM_RegistrationHandleAttachReqIMSI (tsc_C ella)		Steps 8-9
28		+ ts_SS_SecurityDownloadStart (ps_domain, tcv_St art)		

4.24.5 Change 4

Test step name	<i>tc_12_2_1_5a_2, It_Steps_8To11</i>
Reason for change	<p>In local tree <i>It_TestBody</i>, line#17 <i>ts_MMI_UE_SwitchOnTriggerGMM_Attach</i> and</p> <p>in local tree <i>It_Steps_8To11</i>, line#26, <i>ts_AT_TriggerGMM_Attach</i>,</p> <p>Both steps includes step to initiate ATTACH REQUEST through AT command. When auto attach not supported, these steps results two AT command prompts.</p>

	Redundant It_Steps_8To11, line#26, ts_AT_TriggerGMM_Attach needs to be deleted
Summary of change	In local tree It_Steps_8To11, line#26, ts_AT_TriggerGMM_Attach is deleted.
Source of change	New change

Before:

It_Steps_8To11				
26		+ts_AT_TriggerGMM_Attach		Trigger UE to initiate GMM Attach
27		+ ts_MM_RegistrationHandleAttachReqIMSI (tsc_Cel IA)		Steps 8-9

After:

It_Steps_8To11				
26		+ ts_MM_RegistrationHandleAttachReqIMSI (tsc_CelIA)		Steps 8-9

Branches executed in test case 12.2.1.5 proc2

The test case implementation executed the auto attach enabled, CS/PS branch with integrity activated and ciphering disabled.

5 Execution Log Files

[5.25.1](#) Nokia 7600

The Nokia 7600 passed this test case on the Anite 3G U-SAT system. The documentation below is enclosed as evidence of the successful test case run [1]:

6 References

- [1] This archive comprises text format execution log file and the TTCN MP file.

CR-Form-v7

CHANGE REQUEST

34.123-3 CR 1107 rev - Current version: 3.7.0

For **HELP** on using this form, see bottom of this page or look at the pop-up text over the symbols.

Proposed change affects: UICC apps ME Radio Access Network Core Network

Title:	Addition of NAS Package 4 test case 12.2.1.10 to NAS ATS V3.6.1		
Source:	Anite		
Work item code:	N/A	Date:	31/08/04
Category:	B	Release:	R99
	<i>Use <u>one</u> of the following categories:</i> F (correction) A (corresponds to a correction in an earlier release) B (addition of feature), C (functional modification of feature) D (editorial modification) Detailed explanations of the above categories can be found in 3GPP TR 21.900 .		<i>Use <u>one</u> of the following releases:</i> 2 (GSM Phase 2) R96 (Release 1996) R97 (Release 1997) R98 (Release 1998) R99 (Release 1999) Rel-4 (Release 4) Rel-5 (Release 5) Rel-6 (Release 6)

Reason for change:	To add verified GCF package 4 NAS test case 12.2.1.10 to the approved NAS ATS V3.6.1
Summary of change:	This document lists all changes applied to test case 12.2.1.10 required for approval. See detailed change description for further information.
Consequences if not approved:	Test case will not be added to ATS

Clauses affected:											
Other specs affected:	<table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td style="padding: 2px 5px;">Y</td> <td style="padding: 2px 5px;">N</td> </tr> <tr> <td style="text-align: center; padding: 2px 5px;"><input checked="" type="checkbox"/></td> <td style="text-align: center; padding: 2px 5px;"><input checked="" type="checkbox"/></td> </tr> <tr> <td style="text-align: center; padding: 2px 5px;"><input type="checkbox"/></td> <td style="text-align: center; padding: 2px 5px;"><input checked="" type="checkbox"/></td> </tr> <tr> <td style="text-align: center; padding: 2px 5px;"><input type="checkbox"/></td> <td style="text-align: center; padding: 2px 5px;"><input checked="" type="checkbox"/></td> </tr> </table>	Y	N	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Other core specifications	
	Y	N									
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<input type="checkbox"/>	<input checked="" type="checkbox"/>										
	<input checked="" type="checkbox"/>	Test specifications									
	<input checked="" type="checkbox"/>	O&M Specifications									
Other comments:											

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- 2) Obtain the latest version for the release of the specification to which the change is proposed. Use the MS Word "revision marks" feature (also known as "track changes") when making the changes. All 3GPP specifications can be downloaded from the 3GPP server under <ftp://ftp.3gpp.org/specs/> For the latest version, look for the directory name with the latest date e.g. 2001-03 contains the specifications resulting from the March 2001 TSG meetings.

- 3) With "track changes" disabled, paste the entire CR form (use CTRL-A to select it) into the specification just in front of the clause containing the first piece of changed text. Delete those parts of the specification which are not relevant to the change request.

Title: Changes to test case 12.2.1.10 required for approval
Source: Anite
Agenda Item: TTCN Issues
Document for: Approval
Contact: Philip Rose
phil.rose@anite.com
Tel. +44 1252 775200

1 Overview

This document lists all the changes needed to correct problems in the TTCN implementation of test case 12.2.1.10, which is part of the NAS test suite. Only essential changes to the TTCN are applied and documented in section 4.

With these changes applied the test case can be demonstrated to run with one 3G UE (see section 6). Execution log files are provided as evidence.

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3 Verification Test Summary

Test Case: tc_12_2_1_10
Test Group: GMM/Attach_procedures/PS_only_attach/
ATS Version: iWD-TVB2003-03_D04wk31 + essential modifications
System Simulator used: Anite 3G U-SAT
UE used: Sony Ericsson Z1010
Verification Status: PASS

4 Corrections required for test case 12.2.1.10

4.1 Introduction

This section describes the changes required to make test case 12.2.1.10 run correctly with a 3G UE. NAS_wk31.mp ATS, which is part of the iWD-TVB2003-03_D04wk31 release, is used as basis.

4.2 Change 1

Test step name	tc_12_2_1_10
Reason for change	<ol style="list-style-type: none">1. TS 34.123-1 Section 12.2.1.10 Expected sequence does not specify to release RRC connection and re establish RRC connection after Step#7 <i>“The SS does not initiate the security mode procedure”</i>. In TTCN implementation RRC connection is released and re established, which is not required.2. TS 34.123-1 Section 12.2.1.10 Expected sequence ATTACH REQUEST from step#4 and step#11 received on the same RRC connection. TTCN implementation for step#11 receiving ATTACH REQUEST should use UL Direct Transfer in place of Initial Direct Transfer ASP.3. In local tree lt_Steps_11To16, on receiving ATTACH REQUEST message from UE, upper bound T3310 timer should be stopped.
Summary of change	<ol style="list-style-type: none">1. Line#26, line#27 and line#28, which performs RRC connection release and re establishment are removed.2. In local tree lt_Steps_11To16, car_PS_UplinkDirectTransfer ASP used for receiving ATTACH REQUEST message.3. Local tree lt_Steps_11To16, in ATTACH REQUEST receive step, CANCEL t_UpperBound called to stop upperbound timer
Source of change	New change

Before:

26		+ts_RRC_ConnRel(tsc_CellA, cell_Dch)			
It_Steps_11To16					
27	TBP1	TM ? RLC_TR_DATA_IND (tcv_InitialUE_Id := RLC_TR_DATA_IND.tM_message.uL_CCCH_Message.message.rrcConnectionRequest.initialUE_Identity) CANCEL_t_UpperBound	car_RRC_ConnReq (tsc_CellA, tsc_RB0, cbr_108_RRC_ConnReq (registration))	(P)	@sic VB ER1764 sic@
28		+ ts_RRC_ConnEstEnd (tsc_CellA)			@sic VB ER1764 sic@
29		Dc ? RRC_DataInd (tcv_Start := RRC_DataInd.start)	car_PS_InitDirectTransfer(tsc_CellDedicated, tsc_RB3, cr_AttachReq (c_GMM_AttachTypePS_Only, c_MobileIdIMSI_Iv, ?, tcv_PS_KeySeq))		Step 11. UE repeats ATTACH REQUEST - Attach type is 'PS attach' - Mobile Id = IMSI
30		+ ts_SS_SecurityDownloadStart (ps_domain, tcv_Start)			
31		+ ts_GMM_AuthenticateAndStartIntegrityProtection (tsc_CellA)			Steps 12 to 14

After:

It_Steps_11To16					
26		Dc ? RRC_DataInd <u>CANCEL_t_UpperBound</u>	car_PS_UplinkDirectTransfer(tsc_CellDedicated, tsc_RB3, cr_AttachReq (c_GMM_AttachTypePS_Only, c_MobileIdIMSI_Iv, ?, tcv_PS_KeySeq))		Step 11. UE repeats ATTACH REQUEST - Attach type is 'PS attach' - Mobile Id = IMSI
27		+ ts_GMM_AuthenticateAndStartIntegrityProtection (tsc_CellA)			Steps 12 to 14

Branches executed in test case 12.2.1.10

The test case implementation executed the auto attach enabled, CS/PS branch with integrity activated and ciphering disabled.

5 Execution Log Files

[5.25.1](#) Sony Ericsson Z1010

The Sony Ericsson Z1010 passed this test case on the Anite 3G U-SAT system. The documentation below is enclosed as evidence of the successful test case run [1]:

6 References

- [1] This archive comprises text format execution log file and the TTCN MP file.

CR-Form-v7

CHANGE REQUEST

34.123-3 CR 1108 # rev - # Current version: **3.7.0**

For **HELP** on using this form, see bottom of this page or look at the pop-up text over the # symbols.

Proposed change affects: UICC apps ME Radio Access Network Core Network

Title:	# Addition of RAB test case 14.2.23a2 to RAB ATS V3.6.0		
Source:	# Rohde & Schwarz		
Work item code:	# N/A	Date:	# 27/08/2004
Category:	# B	Release:	# R99
	Use <u>one</u> of the following categories:		Use <u>one</u> of the following releases:
	F (correction)		2 (GSM Phase 2)
	A (corresponds to a correction in an earlier release)		R96 (Release 1996)
	B (addition of feature),		R97 (Release 1997)
	C (functional modification of feature)		R98 (Release 1998)
	D (editorial modification)		R99 (Release 1999)
	Detailed explanations of the above categories can be found in 3GPP TR 21.900 .		Rel-4 (Release 4)
			Rel-5 (Release 5)
			Rel-6 (Release 6)

Reason for change:	# To add verified GCF package 4 RAB test case 14.2.23a2 to the approved RAB ATS V3.6.0		
Summary of change:	#		
Consequences if not approved:	# Test case will not be added to ATS		

Clauses affected:	# N/A						
Other specs affected:	<table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td style="width: 20px; text-align: center;">Y</td> <td style="width: 20px; text-align: center;">N</td> </tr> <tr> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> </tr> </table>	Y	N	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Other core specifications	#
Y	N						
<input type="checkbox"/>	<input checked="" type="checkbox"/>						
	<input type="checkbox"/>	Test specifications	#				
	<input type="checkbox"/>	O&M Specifications	#				
Other comments:	#						

How to create CRs using this form:

Comprehensive information and tips about how to create CRs can be found at <http://www.3gpp.org/specs/CR.htm>. Below is a brief summary:

- 1) Fill out the above form. The symbols above marked # contain pop-up help information about the field that they are closest to.
- 2) Obtain the latest version for the release of the specification to which the change is proposed. Use the MS Word "revision marks" feature (also known as "track changes") when making the changes. All 3GPP specifications can be downloaded from the 3GPP server under <ftp://ftp.3gpp.org/specs/> For the latest version, look for the directory name with the latest date e.g. 2001-03 contains the specifications resulting from the March 2001 TSG meetings.

- 3) With "track changes" disabled, paste the entire CR form (use CTRL-A to select it) into the specification just in front of the clause containing the first piece of changed text. Delete those parts of the specification which are not relevant to the change request.

Title: Approval of test case 14.2.23a2
Source: Rohde & Schwarz
Agenda Item: TTCN Issues
Document for: Approval
Contact: Thomas Moosburger
thomas.moosburger@rsd.rohde-schwarz.com
Tel. +49 89 4129 11731

1 Overview

This document lists the various branches & execution details needed to verify the TTCN implementation of test case 14.2.23a2 which is part of the RAB test suite.

With no changes applied the test case can be demonstrated to run with one or more 3G UEs (see section 5). Execution log files are provided as evidence.

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3 Verification Test Summary

Test Case: TC_14_2_23a2
Test Group: GMM/ ServiceRequest_procedures
ATS Version: iWD-TVB2003-03_D04wk31 + essential modifications
System Simulator used: Rohde & Schwarz 3G system simulator CRTU-W
UE used: Nokia 6630 and Motorola A845
Verification Status: PASS

4 Corrections required for test case 14.2.23a.2

4.1 Introduction

The ATS version used as basis was RAB_wk31.mp which is part of the iWD-TVB2003-03_D04wk31 release. This ATS, provided by MCC160 which contains GCF package 1, 2, 3 and 4 test cases.

The enclosed ATS [1] contains a number of additional changes (marked with label iWA#RAB<number>î, see list below) in common test steps which are required for other tests, but which are not applicable to test case 14.2.23a.2:

WA#RAB4218,WA#RAB4318, WA#RAB4321, WA#RAB4328, WA#RAB4377, WA#RAB4378, WA#RAB4383, WA#RAB4384, WA#RAB4387, WA#RAB4394, WA#RAB4397, WA#RAB4407, WA#RAB4418, WA#RAB4424, WA#RAB4448, WA#RAB4456, WA#RAB4461, WA#RAB4462, WA#RAB4463, WA#RAB4475, WA#RAB4483 and WA#RAB4485.

Note: The Testcase 14.2.23a.2 does not require any Changes

5 Branches executed in test case 14.2.23a2

The test case implementation executed the CS & PS branch for NMO_I, UE_OpMode A with Integrity activated, Ciphering disabled, and AutoAttach on for the Nokia UE and off for the Motorola UE.

6 Execution Log Files

6.1 Nokia 3G UE 6630

The Nokia 6630 passed this test case on Rohde & Schwarz 3G System Simulator CRTU-W. The documentation below is enclosed as evidence of the successful test case run [1]:

- **Execution log files 14_2_23a2_Logs-Nokia\Index.html**
This execution log files in HTML format show the dynamic behaviour of the test in a tabular view and in message sequence chart (MSC) view. All message contents are fully decoded and listed in hexadecimal format. Preliminary verdicts and the final test case verdict are listed in the log file.
- **PICS/PIXIT file 14_2_23a2-pics-pixit-Nokia.txt**
Text file containing all PICS/PIXIT parameters used for testing.

6.2 Motorola 3G UE A845

The Motorola A845 passed this test case on Rohde & Schwarz 3G System Simulator CRTU-W. The documentation below is enclosed as evidence of the successful test case run [1]:

- **Execution log files 14_2_23a2_Logs-Motorola\Index.html**
This execution log files in HTML format show the dynamic behaviour of the test in a tabular view and in message sequence chart (MSC) view. All message contents are fully decoded and listed in hexadecimal format. Preliminary verdicts and the final test case verdict are listed in the log file.
- **PICS/PIXIT file 14_2_23a2-pics-pixit-Motorola.txt**
Text file containing all PICS/PIXIT parameters used for testing.

7 References

- [1] **T1s040557**
This archive comprises HTML Execution log files, PICS/PIXIT files and the TTCN MP file

CR-Form-v7	
<h2 style="margin: 0;">CHANGE REQUEST</h2>	
# 34.123-3 CR 1109 # rev - #	Current version: 3.7.0 #

For **HELP** on using this form, see bottom of this page or look at the pop-up text over the # symbols.

Proposed change affects: UICC apps ME Radio Access Network Core Network

Title:	# Addition of NAS test case 12.6.1.3.1 to NAS ATS V3.6.0		
Source:	# Rohde & Schwarz		
Work item code:	# N/A	Date:	# 12/08/2004
Category:	# B	Release:	# R99
	Use <u>one</u> of the following categories:		Use <u>one</u> of the following releases:
	F (correction)		2 (GSM Phase 2)
	A (corresponds to a correction in an earlier release)		R96 (Release 1996)
	B (addition of feature),		R97 (Release 1997)
	C (functional modification of feature)		R98 (Release 1998)
	D (editorial modification)		R99 (Release 1999)
	Detailed explanations of the above categories can be found in 3GPP TR 21.900 .		Rel-4 (Release 4)
			Rel-5 (Release 5)
			Rel-6 (Release 6)

Reason for change:	# To add verified GCF package 4 NAS test case 12.6.1.3.1 to the approved NAS ATS V3.6.0
Summary of change:	# This document lists all changes applied to test case 12.6.1.3.1 required for approval. See detailed change description for further information.
Consequences if not approved:	# Test case will not be added to ATS

Clauses affected:	# N/A										
Other specs affected:	<table border="1" style="display: inline-table; border-collapse: collapse; text-align: center;"> <tr> <td style="width: 20px;">Y</td> <td style="width: 20px;">N</td> </tr> <tr> <td style="width: 20px;">#</td> <td style="width: 20px;">X</td> </tr> <tr> <td style="width: 20px;">#</td> <td style="width: 20px;">X</td> </tr> <tr> <td style="width: 20px;">#</td> <td style="width: 20px;">X</td> </tr> </table>	Y	N	#	X	#	X	#	X	Other core specifications	#
Y	N										
#	X										
#	X										
#	X										
		Test specifications	#								
		O&M Specifications	#								
Other comments:	#										

How to create CRs using this form:

Comprehensive information and tips about how to create CRs can be found at <http://www.3gpp.org/specs/CR.htm>. Below is a brief summary:

- 1) Fill out the above form. The symbols above marked # contain pop-up help information about the field that they are closest to.
- 2) Obtain the latest version for the release of the specification to which the change is proposed. Use the MS Word "revision marks" feature (also known as "track changes") when making the changes. All 3GPP specifications can be downloaded from the 3GPP server under <ftp://ftp.3gpp.org/specs/> For the latest version, look for the directory name with the latest date e.g. 2001-03 contains the specifications resulting from the March 2001 TSG meetings.

- 3) With "track changes" disabled, paste the entire CR form (use CTRL-A to select it) into the specification just in front of the clause containing the first piece of changed text. Delete those parts of the specification which are not relevant to the change request.

Title: Changes to test case 12.6.1.3.1 required for approval
Source: Rohde & Schwarz
Agenda Item: TTCN Issues
Document for: Approval
Contact: Thomas Moosburger
thomas.moosburger@rsd.rohde-schwarz.com
Tel. +49 89 4129 11731

1 Overview

This document lists all the changes needed to correct problems in the TTCN implementation of test case 12.6.1.3.1 which is part of the NAS test suite. Only essential changes to the TTCN are applied and documented in section 4.

With these changes applied the test case can be demonstrated to run with one or more 3G UEs (see section 6). Execution log files are provided as evidence.

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3 Verification Test Summary

Test Case: TC_12_6_1_3_1
Test Group: GMM/ Authentication_and_ciphering
ATS Version: iWD-TVB2003-03_D04wk26 + essential modifications
System Simulator used: Rohde & Schwarz 3G system simulator CRTU-W
UE used: Nokia 7600 & Motorola A845
Verification Status: PASS

4 Corrections required for test case 12.6.1.3.1

4.1 Introduction

This section describes the changes required to make test case 12.6.1.3.1 run correctly with a 3G UE. All modifications are marked with label **WA#NAS<number>** for NAS related changes in the TTCN comments column of the enclosed ATS [1].

The ATS version used as basis was NAS_wk26.mp which is part of the iWD-TVB2003-03_D04wk26 release. This is the most recent ATS provided by MCC160 which contains GCF package 1 to 4 test cases.

The enclosed ATS [1] contains a number of additional changes (see list below) in common test steps which are required for other tests, but which are not applicable to test case 12.6.1.3.1:

WA#NAS4395, WA#NAS4426 & WA#NAS4427

4.2 ts_GMM_DetachOnSwitchOff (WA#NAS4453)

Test step name	ts_GMM_DetachOnSwitchOff
Reason for change	PS detach would be performed in an NMO_II test case, if ATT Flag is OFF
Summary of change	Added (tcv_TmpCellInfo.nmo = tsc_NMO_II).
Source of change	New change
Label	WA#NAS4453

2	[pc_SwitchOnOff]		UE can actually be switched off
3	+ts_SetTmpCellInfo (p_CellId)		Get CellInfo to be used later
4	+It_Init_RRC_RelStatus		
5	+ts_MMI_UE_SwitchOff		
6	+ts_RRC_ConnEst(p_CellId, est_MO, detach)		
7	[(tcv_TmpCellInfo.attFlag = tsc_AttOff) AND (tcv_TmpCellInfo.nmo = tsc_NMO_I)]		ATT flag is not set, only GPRS detach is required WA#NAS4453
8	+It_Detach_POnly		
9	+ts_RRC_ConnRel_AfterSwitchOff(p_CellId, tcv_RRC_RelStatus)		
10	[(tcv_UE_OpMode = opModeA) AND (tcv_TmpCellInfo.nmo = tsc_NMO_I)]		If UE is in operation mode A and network mode of operation is I, then run combined PS/CSS procedures.
11	+It_Detach_NMO_I		

4.3 ts_GMM_AttachReject (WA#NAS4517)

Test step name ts_GMM_AttachReject

Reason for change Missing RRC Connection establishment test step before Attach Request PDU

Summary of change Add "ts_RRC_ConnEst" in "ts_GMM_AttachReject : It_GMMOnly_TriggerAttach" in TTCN rows 68

Source of change New change

Label WA#NAS4517

65	+ ts_SS_SecurityDownloadStart (ps_domain, tcv_Start)		
66	? TIMEOUT t_WaitS		F
67	[TRUE]		UE shall automatically attempt PS attach
68	+ts_RRC_ConnEst(p_CellId, est_Reg, registration)		Establish RRC connection WA#NAS4517
69	Dc ? RRC_DataInd (tcv_TmpAttachReqPDU := RRC_DataInd.msg, tcv_TmpB3:= tcv_TmpAttachReqPDU.attachType.type, tcv_Start := RRC_DataInd.start)	car_PS_InitDirectTransfer (tsc_CellDedicated, tsc_RB3, cr_AttachReq (c_AttachTypeAny, c_MobileIdAny_lv, c_RAI_Any_v, ?))	ATTACH REQUEST - Extract Attach type requested

4.4 ts_GMM_AuthenticationInit_InvalidMAC

4.4.1 WA#NAS4563

Test step name ts_GMM_AuthenticationInit_InvalidMAC

Reason for change All necessary parameters for Authentication should be initialised accordingly except "tcv_AuthMAC".

Summary of change Added PS Key sequence incrementation

Source of change New change

Label WA#NAS4563

1	+It_IncrementCiphKeySeqNum		WA#NAS4563
2	+It_AuthCalcAUTN		1. Calculation of AUTN needed for Authentication Request
3	+It_AuthCalcUMTS_Others		2. Calculation of other authentication information needed (IK, CK, XRES)
4	+It_AuthCalcKcGSM		3. Calculation of Kc GSM, using IK and CK
It_IncrementCiphKeySeqNum			
5	[tcv_PS_KeySeq = '000'B]		WA#NAS4563
6	(tcv_PS_KeySeq := '001'B)		
7	[tcv_PS_KeySeq = '001'B]		
8	(tcv_PS_KeySeq := '010'B)		
9	[tcv_PS_KeySeq = '010'B]		
10	(tcv_PS_KeySeq := '011'B)		
11	[tcv_PS_KeySeq = '011'B]		
12	(tcv_PS_KeySeq := '100'B)		
13	[tcv_PS_KeySeq = '100'B]		
14	(tcv_PS_KeySeq := '101'B)		
15	[tcv_PS_KeySeq = '101'B]		
16	(tcv_PS_KeySeq := '110'B)		
17	[TRUE]		
18	(tcv_PS_KeySeq := '000'B)		
It_AuthCalcAUTN			

4.4.2 WA#NAS4564

Test step name ts_GMM_AuthenticationInit_InvalidMAC : It_AuthCalcAUTN

Reason for change AuthMAC value not properly corrupted

Summary of change Replaced "tcv_AuthCDOUT" with "tcv_AuthMAC"

Source of change New change

Label WA#NAS4564

24	(tcv_AuthMAC := o_BitstringXOR(tcv_AuthXDOUT_Half, tcv_AuthCDOUT, 64))		MAC := XDOUT_halfXOR CDOUT
25	(tcv_AuthMAC := o_BitstringXOR(tcv_AuthMAC, tcv_AuthMAC, 64))		--- Here make sure that MAC is invalid --- (Note: you can use any operation you want for changing at least one bit of the correct MAC value to make it invalid) WA#NAS4564
26	(tcv_AuthAUTN_2 := o_BitstringConcat(tcv_AuthAMF, tcv_AuthMAC, 16, 64))		AUTN2 := AMF MAC

4.5 tc_12_6_1_3_1

4.5.1 WA#NAS4567

Test step name tc_12_6_1_3_1 : It_Steps_6To17

Reason for change According to 24.008 Clau 9.4.10a.1, the IE "Authentication Failure parameter" shall be sent if and only if the GMM cause was 'Synch failure.'

Summary of change Replaced "c_AuthenticationFailureParameter" with "OMIT"

Source of change New change

Label WA#NAS4567

38	Dc ! RRC_DataReq	ca_PS_DataReq(tsc_CellDedicated, tsc_RB3, cs_AuthAndCiphReq (c_GMM_AuthRAND(tcv_AuthRAND), c_GMM_KeySeq_tv(tcv_PS_KeySeq), c_GMM_AuthAUTN(tcv_AuthAUTN)))	Step 7. AUTHENTICATION AND CIPHERING REQUEST
39	Dc ? RRC_DataInd (tcv_TmpAuthAndCiphFailPDU := RRC_DataInd.msg, tcv_AuthAUTS := tcv_TmpAuthAndCiphFailPDU.authFailureParams)	car_PS_UplinkDirectTransfer (tsc_CellDedicated, tsc_RB3 , cr_AuthAndCiphFailure ('14' OMT))	Step 9. AUTHENTICATION AND CIPHERING FAILURE - GMM cause is 'MAC failure' - AUTS WA#NAS4567
40	Dc ! RRC_DataReq	ca_PS_DataReq(tsc_CellDedicated, tsc_RB3, cs_IdentityRequest (c_IdentityTypeIMSI))	Step 9a. IDENTITY REQUEST - for IMSI

4.5.2 WA#NAS4568

Test step name tc_12_6_1_3_1 : It_Steps_6To17

Reason for change In Step 11, Authentication Response should be expected from the UE. However the Authentication response without any extension parameter is not catered for by the TTCN.

Summary of change Replaced Authentication Response message in TTCN Row 44 & 45 with local test step It_AuthAndCiph_Rsp_Steps_11To12

Source of change New change

Label WA#NAS4568

44	+It_AuthAndCiph_Rsp_Steps_11To12		Step 11 & 12 WA#NAS4568
45	+ ts_RRC_Security (tsc_CellA, tcv_PS_AuthCK, tcv_PS_AuthIK, tcv_AuthKcGSM, TRUE, ps_domain)		WA#NAS4569

It_AuthAndCiph_Rsp_Steps_11To12			
49	Dc ? RRC_DataInd (tcv_TmpAuthAndCiphRspPDU := RRC_DataInd.msg, tcv_AuthRsp := tcv_TmpAuthAndCiphRspPDU.authRsp.value, tcv_AuthRspExt := tcv_TmpAuthAndCiphRspPDU.authRspExt)	car_PS_UplinkDirectTransfer (tsc_CellDedicated, tsc_RB3 , cr_AuthAndCiphRsp(c_AuthRspAny_tv, c_AuthCiphRspExtAny))	Step 11. AUTHENTICATION AND CIPHERING RESPONSE including Authentication Response and Authentication Response Extension parameters WA#NAS4568
50	+It_Verify_RspExt		Step 12. Verify that the received Authentication Response (RES) matches expected response. WA#NAS4568
51	Dc ? RRC_DataInd (tcv_TmpAuthAndCiphRspPDU := RRC_DataInd.msg, tcv_AuthRsp := tcv_TmpAuthAndCiphRspPDU.authRsp.value)	car_PS_UplinkDirectTransfer (tsc_CellDedicated, tsc_RB3 , cr_AuthAndCiphRsp(c_AuthRspAny_tv, -))	Step 11. AUTHENTICATION AND CIPHERING RESPONSE including Authentication Response parameter (no extension) WA#NAS4568
52	+It_Verify_RspNoExt		Step 12. Verify that the received Authentication Response (RES) matches expected response. WA#NAS4568
53	Dc ? OTHERWISE		(F) WA#NAS4568

It_Verify_RspExt				
54	(tcv_Res := o_AuthRspChk(tcv_AuthRsp, tcv_AuthRspExt, tcv_AuthK, tcv_AuthRAND, TRUE))			Verify that the received Authentication Response parameters match expected response. WA#NAS4568
55	[tcv_Res = FALSE]		F	Authentication response (RES) sent by the UE do not match expected values. WA#NAS4568
56	[tcv_Res = TRUE]		(P)	WA#NAS4568
It_Verify_RspNoExt				
57	(tcv_Res := o_AuthRspChk(tcv_AuthRsp, -, tcv_AuthK, tcv_AuthRAND, FALSE))			Verify that the received Authentication Response parameters match expected response. WA#NAS4568
58	[tcv_Res = FALSE]		F	Authentication response (RES) sent by the UE do not match expected values. WA#NAS4568
59	[tcv_Res = TRUE]		(P)	WA#NAS4568
It_RAUpd_Steps_19To22				

4.5.3 WA#NAS4569

Test step name tc_12_6_1_3_1 : It_Steps_6To17

Reason for change According to the prose, in Step 12, the SS should start Integrity protection

Summary of change Added test step "ts_RRC_Security"

Source of change New change

Label WA#NAS4569

44	+It_AuthAndCiph_Rsp_Steps_11To12			Step 11 & 12 WA#NAS4568
45	+ ts_RRC_Security (tsc_CellA, tcv_PS_AuthCK, tcv_PS_AuthIK, tcv_AuthKcGSM, TRUE, ps_domain)			WA#NAS4569
46	In RRC DataReq	ts_PS_DataReq/tsc_CellA		Step 16 ATTACH ACCEPT

5 Branches executed in test case 12.6.1.3.1

The test case implementation executed the PS branch for NMO_II, UE_OpMode A with Integrity activated, Ciphering disabled, AutoAttach off.

6 Execution Log Files

6.1 Nokia 7600

The Nokia 7600 passed this test case on Rohde & Schwarz 3G System Simulator CRTU-W. The documentation below is enclosed as evidence of the successful test case run [1]:

Execution log files 12_6_1_3_1_Logs-Nokia\Index.html

These execution log files in HTML format show the dynamic behaviour of the test in a tabular view and in message sequence chart (MSC) view. All message contents are fully decoded and listed in hexadecimal format. Preliminary verdicts and the final test case verdict are listed in the log file.

- **PICS/PIXIT file 12_6_1_3_1-pics-pixit-Nokia.html**
HTML file containing all PICS/PIXIT parameters used for testing the PS mode

6.2 Motorola A845

The Motorola A845 passed this test case on Rohde & Schwarz 3G System Simulator CRTU-W. The documentation below is enclosed as evidence of the successful test case run [1]:

Execution log files 12_6_1_3_1_Logs-Motorola\Index.html

These execution log files in HTML format show the dynamic behaviour of the test in a tabular view and in message sequence chart (MSC) view. All message contents are fully decoded and listed in hexadecimal format. Preliminary verdicts and the final test case verdict are listed in the log file.

- **PICS/PIXIT file 12_6_1_3_1-pics-pixit-Motorola.html**
HTML file containing all PICS/PIXIT parameters used for testing the PS mode

7 References

- [1] **T1s040455**
This archive comprises HTML Execution log files, PICS/PIXIT files and the TTCN MP file

CR-Form-v7	
CHANGE REQUEST	
# 34.123-3 CR 1110 # rev - #	Current version: 3.7.0 #

For **HELP** on using this form, see bottom of this page or look at the pop-up text over the # symbols.

Proposed change affects: UICC apps ME Radio Access Network Core Network

Title:	# Addition of GCF P2 RRC 8.4.1.7 ñ Revision of T1s040381		
Source:	# Anritsu Limited		
Work item code:	# N/A	Date:	# 02/12/04
Category:	# B	Release:	# R99
	Use <u>one</u> of the following categories:		Use <u>one</u> of the following releases:
	F (correction)		2 (GSM Phase 2)
	A (corresponds to a correction in an earlier release)		R96 (Release 1996)
	B (addition of feature),		R97 (Release 1997)
	C (functional modification of feature)		R98 (Release 1998)
	D (editorial modification)		R99 (Release 1999)
	Detailed explanations of the above categories can be found in 3GPP TR 21.900 .		Rel-4 (Release 4)
			Rel-5 (Release 5)
			Rel-6 (Release 6)

Reason for change:	# To introduce 8.4.1.7 to 34.123-3 v3.7.0
Summary of change:	# All changes are described in the later section.
Consequences if not approved:	# Test case will not be approved

Clauses affected:	# None											
Other specs affected:	#	<table border="1" style="font-size: x-small;"> <tr> <td>Y</td> <td>N</td> </tr> <tr> <td><input type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> </tr> <tr> <td>Y</td> <td><input type="checkbox"/></td> </tr> <tr> <td><input type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> </tr> </table>	Y	N	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Y	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Other core specifications	#
	Y	N										
	<input type="checkbox"/>	<input checked="" type="checkbox"/>										
Y	<input type="checkbox"/>											
<input type="checkbox"/>	<input checked="" type="checkbox"/>											
		Test specifications	#									
		O&M Specifications	#									
Other comments:	#											

How to create CRs using this form:

Comprehensive information and tips about how to create CRs can be found at <http://www.3gpp.org/specs/CR.htm>. Below is a brief summary:

- 1) Fill out the above form. The symbols above marked # contain pop-up help information about the field that they are closest to.
- 2) Obtain the latest version for the release of the specification to which the change is proposed. Use the MS Word "revision marks" feature (also known as "track changes") when making the changes. All 3GPP specifications can be downloaded from the 3GPP server under <ftp://ftp.3gpp.org/specs/> For the latest version, look for the directory name with the latest date e.g. 2001-03 contains the specifications resulting from the March 2001 TSG meetings.
- 3) With "track changes" disabled, paste the entire CR form (use CTRL-A to select it) into the specification just in front of the clause containing the first piece of changed text. Delete those parts of the specification which are not relevant to the change request.

1 Table of Contents

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2 Introduction

This document details the changes needed to introduce test case 8.4.1.7 to ATS 3.7.0. With these changes applied, the test case can be demonstrated to run on at least one independent UE implementation. Only essential fixes to the TTCN are applied. This test case has been tested according to the configuration stated below:-

Reference document	TS 34.123-1 version 5.9.0 TS34.108 version 5.2.0
Referenced CRs	None
Based ATS suite	iWD-TVB2003-03_D04wk47
Integrity	Enabled
Ciphering	Disabled
Path tested	PS

3 Corrections required for RRC_wk47 test suite

3.1 Change 1

Item	tc_8_4_1_7
Reason for change	<p>In line 83 timer is required to make sure that CellUpdateConfirm message goes down before further configuration.</p> <p>In Cell FACH state considering a TTI of 10ms, we a timer to 30ms is sufficient to ensure that CellUpdateConfirm message reaches to UE before any change in local end modification at the SS.</p> <p>With the timer value of 200ms SS receives UtranMobilityInformationConfirm before the expiry of this timer and the testcase fails.</p>
Summary of change	Line 83: changed from ts_RRC_Delay(200) to ts_RRC_Delay(30)
Source of change	New change