Source: **T1**

Title: **TTCN CRs cat. B to TS 34.123-3 v.3.5.1, v.3.5.2, v.3.6.0 and v.3.6.1**
for approval

Agenda item: **5.1.3**

Document for: **Approval**

This document contains the category B CRs to TTCN part of TS 34.123-3 v.3.5.1, v.3.5.2, v.3.6.0 and v.3.6.1. These CRs have been agreed by T1 and are put forward to TSG T for approval.

Doc-2nd-Level	Spec	CR	Rev	Phase	Subject	Cat	Version-Current	Version-New
T1s040264	34.123-3	360	-	R99	Addition of GCF P3 test case 16.1.1 to SMS ATS V3.5.1	B	3.5.1	3.7.0
T1s040307	34.123-3	361	-	R99	Addition of GCF P3 test case 16.1.9.1 to SMS ATS V3.5.1	B	3.5.1	3.7.0
T1s040309	34.123-3	362	-	R99	Addition of GCF P3 test case 16.1.9.2 to SMS ATS V3.5.1	B	3.6.1	3.7.0
T1s040311	34.123-3	363	-	R99	Addition of GCF P3 test case 16.1.10 to SMS ATS V3.5.1	B	3.6.1	3.7.0
T1s040313	34.123-3	364	-	R99	Addition of GCF P3 test case 16.2.1 to SMS ATS V3.6.1	B	3.5.1	3.7.0
T1s040315	34.123-3	365	-	R99	Addition of GCF P3 test case 16.2.2 to SMS ATS V3.5.1	B	3.6.1	3.7.0
T1s040317	34.123-3	366	-	R99	Addition of GCF P3 test case 16.2.10 to SMS ATS V3.5.1	B	3.6.0	3.7.0
T1s040329	34.123-3	367	-	R99	Addition of P2 NAS test case 9.4.2.4 proc 2 to NAS ATS V3.5.1 (revision of T1-040109)	B	3.6.0	3.7.0
T1s040337	34.123-3	368	-	R99	Addition of NAS test case 12.4.2.5a.2 to NAS ATS V3.5.1	B	3.5.1	3.7.0
T1s040339	34.123-3	369	-	R99	Revised CR for addition of GCF P3 test case 8.2.4.1a to RRC ATS V3.5.1	B	3.5.1	3.7.0
T1s040345	34.123-3	370	-	R99	Revised CR for Addition of P2 test case 6.2.1.1 to IR_U ATS v3.5.1 (Revision of T1s040325)	B	3.6.1	3.7.0
T1s040346	34.123-3	371	-	R99	Revised CR for Addition of P2 test case 6.2.1.6 to IR_U ATS v3.5.1 (Revision of T1s040327)	B	3.5.1	3.7.0
T1s040352	34.123-3	372	-	R99	Addition of RRC test case 8.4.1.40 to RRC ATS V3.5.1	B	3.5.1	3.7.0
T1s040358	34.123-3	373	-	R99	Addition of RRC Package 3 test case 8.4.1.33 to IR_U ATS V3.5.1	B	3.5.1	3.7.0
T1s040360	34.123-3	374	-	R99	Revised CR for addition of GCF P3 test case 16.1.2 to SMS ATS V3.5.1	B	3.6.1	3.7.0
T1s040361	34.123-3	375	-	R99	Revised CR for the addition of GCF P3	B	3.6.1	3.7.0

					test case 8.4.1.35 to IR_U ATS V3.5.1			
T1s040364	34.123-3	376	-	R99	CR for the addition of GCF P3 test case 8.4.1.36 to IR_U ATS V3.6.1	B	3.6.1	3.7.0
T1s040385	34.123-3	377	-	R99	Addition of GCF P3 test case 8.3.2.12 to RRC ATS V3.6.1	B	3.6.1	3.7.0
T1s040387	34.123-3	378	-	R99	Addition of RAB Package 3 test case 14.2.57 to RAB ATS V3.6.1	B	3.6.1	3.7.0
T1s040395	34.123-3	379	-	R99	Addition of GCF P3 test case 14.2.58 to RAB ATS V3.6.1	B	3.6.1	3.7.0
T1s040398	34.123-3	380	-	R99	Addition of GCF P1 test cases 8.1.7.1 to RRC ATS v3.6.1	B	3.6.1	3.7.0
T1s040400	34.123-3	381	-	R99	Addition of GCF P1 test case 8.1.7.2 to RRC ATS v3.6.1	B	3.5.1	3.7.0
T1s040430	34.123-3	382	-	R99	Addition of RAB Package 2 test case 14.4.2.1 to RAB ATS V3.6.1	B	3.5.1	3.7.0
T1s040432	34.123-3	383	-	R99	Addition of RAB Package 3 test case 14.2.38a to RAB ATS V3.6.1	B	3.5.1	3.7.0
T1s040433	34.123-3	384	-	R99	Addition of RAB Package 3 test case 14.2.38e to RAB ATS V3.6.1	B	3.5.1	3.7.0
T1s040462	34.123-3	385	-	R99	Addition of RAB Package 2 test case 14.4.2.2 to RAB ATS V3.6.1	B	3.5.1	3.7.0
T1s040464	34.123-3	386	-	R99	Addition of RAB Package 2 test case 14.4.2.3 to RAB ATS V3.6.1	B	3.6.1	3.7.0
T1s040466	34.123-3	387	-	R99	Addition of RAB test case 14.2.51.1 to RAB ATS V3.6.0	B	3.6.0	3.7.0
T1s040468	34.123-3	388	-	R99	Addition of RAB test case 14.2.51a.1 to RAB ATS V3.6.0	B	3.6.0	3.7.0
T1s040470	34.123-3	389	-	R99	Addition of P3 test case 8.4.1.27 to RRC ATS V3.6.1	B	3.6.1	3.7.0
T1s040482	34.123-3	390	-	R99	Revision CR to introduce GCF P3 Test Case 8.4.1.24 to ATS v3.6.0	B	3.5.1	3.7.0
T1s040483	34.123-3	391	-	R99	Revision CR to introduce GCF P3 Test Case 8.4.1.25 to ATS v3.6.0	B	3.5.1	3.7.0
T1s040513	34.123-3	392	-	R99	Addition of NAS test case 9.4.7 to NAS ATS V3.6.0	B	3.6.1	3.7.0
T1s040479	34.123-3	393	-	R99	Addition of GCF P3 test case 8.4.1.34 to IR_U ATS v3.6.1	B	3.6.1	3.7.0

CR-Form-v7

CHANGE REQUEST

| ⌘ | **TS 34.123-3** CR | 360 | ⌘**rev** | - | ⌘ | Current version: | **3.5.1** | ⌘ |

*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 16.1.1 to SMS ATS V3.5.1
Source: ⌘	Rohde & Schwarz
Work item code: ⌘	N/A ***Date:*** ⌘ 19/04/2004

Category: ⌘	**B**	***Release:*** ⌘	R99

Use one 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 one 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 3 SMS test case 16.1.1 to the approved SMS ATS V3.5.1
Summary of change: ⌘	This document lists all changes applied to test case 16.1.1 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

	Y	N		
Other specs affected: ⌘		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 16.1.1 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 16.1.1 which is part of the SMS 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

3 Verification Test Summary

Test Case: TC_16_1_1

Test Group: SMS/CS_Mode/

ATS Version: iWD-TVB2003-03_D04wk15 + 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 16.1.1

4.1 Introduction

This section describes the changes required to make test case 16.1.1 run correctly with a 3G UE. All modifications are marked with label "**WA#SMS\<number\>**" for SMS related changes in the TTCN comments column of the enclosed ATS [1].

The ATS version used as basis was SMS_wk15.mp which is part of the iWD-TVB2003-03_D04wk15 release.

4.2 tc_16_1_1 (WA#SMS1031, WA#SMS1032, WA#SMS1033)

Test case name	tc_16_1_1
Reason for change	RRC Connection should be released by SS; there should be no local release
Summary of change	RRC Connection always released by SS; no more local release. RRC Connection release procedure applied.
Source of change	New Change
Label	WA#SMS1031

Test case name	tc_16_1_1
Reason for change	CC signalling done on RB4 instead of RB3
Summary of change	CC signalling done on RB3 now instead of RB4
Source of change	New Change
Label	WA#SMS1032

Test case name	tc_16_1_1
Reason for change	ambiguous prose leaves the SS use one of 2 alternative ways
Summary of change	ambiguous prose fixed to make the SS use one of 2 alternative ways (expect all PDUs from UE and continue then only)
Source of change	New Change
Label	WA#SMS1033

Note that corrections numbered SMS1031 and 1033 require a prose change which is under preparation.

lt_Part2				
29		+ts_SMSCS_SetupMT_U10		Steps 49
30		+lt_SMS_1_U10		Steps 51-58b
31		+lt_ChkMsg(TRUE)		Steps 59-60
32		+ts_SMSCS_SetupMT_U10		Steps 61
33		+lt_SMS_3_U10		Steps 63-74
34		+lt_ChkMsg(TRUE)		Steps 75-76
35		+ts_SMSCS_SetupMT_U10		Steps 77
36		+lt_SMS_4(tsc_TWait15Sec)		Steps 79-87
37		+lt_ClearU10_SS		Step 87a-87c
38		+ts_RRC_ConnRel(tsc_CellA, cell_Dch)		Steps 89-89 WA#SMS1031
39		+lt_ChkMsg(TRUE)		Steps 90-91

lt_ClearU10_SS					
46		Dc ! RRC_DataReq	ca_DataReq (tsc_CellDedicated, tsc_RB3, cs_Disc(tcv_TI_S))		WA#SMS1032
47	TBP1	Dc ? RRC_DataInd	car_UplinkDirectTransfer (tsc_CellDedicated, tsc_RB3, cr_Rel (tcv_TI_R))	(P)	WA#SMS1032
48		Dc ! RRC_DataReq	ca_DataReq (tsc_CellDedicated, tsc_RB3, cs_RelCmpl (tcv_TI_S))		WA#SMS1032

lt_ClearU10_UE					
49		+ts_AT_TerminateCall			
50	TBP2	Dc ? RRC_DataInd	car_UplinkDirectTransfer (tsc_CellDedicated, tsc_RB3, cr_Disc (tcv_TI_R))	(P)	Step 106 WA#SMS1032
51		DclRRC_DataReq START t_Dly(tsc_TWait25Sec)	ca_DataReq(tsc_CellDedicated, tsc_RB4, cs_CP_DATA_01(tcv_TI_1_S, cs_CP_UserData01(tcv_TP_OrigAddr01, tcv_RP_OrigAddrMT, tcv_RP_MsgRef, tsc_Tzone0)))		Step 107 CPDATA / RP_DATA / SMS_ DELIVER (n->ue)
52		Dc ! RRC_DataReq	ca_DataReq (tsc_CellDedicated, tsc_RB3 , cs_Rel (tcv_TI_S))		Step 108 WA#SMS1032
53		Dc ? RRC_DataInd	car_UplinkDirectTransfer (tsc_CellDedicated, tsc_RB3, cr_RelCmpl (tcv_TI_R))		Step 109 WA#SMS1032

58		DclRRC_DataReq	ca_DataReq(tsc_CellDedicated, tsc_RB4, cs_CP_ACK(tcv_TI_1_S))		Step 113 CPACK (n->ue)
59		+ts_RRC_ConnRel(tsc_CellA, cell_Dch)			Step 114 WA#SMS1031
lt_SMS_1					
60		+lt_SMS_2			Steps 7-11
61		DclRRC_DataReq	ca_DataReq(tsc_CellDedicated, tsc_RB4, cs_CP_ACK(tcv_TI_1_S))		Step 12 CPACK (n->ue)
62		+ts_RRC_ConnRel(tsc_CellA, cell_Dch)			Step 13 WA#SMS1031

lt_SMS_3					
68		+lt_SMS_2			Steps 21-25
69		START t_UpperBound(tcv_TTwiceTC1Mmax)			Step 26 (timer condition)
70	TBF5	?TIMEOUT t_UpperBound		(F)	First CPDATA / RP_ACK (ue ->n) not acknowledged
71		Dc?RRC_DataInd CANCEL t_UpperBound	car_UplinkDirectTransfer(tsc_CellDedicated, tsc_RB4, cr_CP_DATA_02(tcv_TI_1_R, cr_CP_UserData02(tcv_RP_MsgRef)))		Step 27 CPDATA / RP_ACK (ue->n) retransmitted
72		DclRRC_DataReq	ca_DataReq(tsc_CellDedicated, tsc_RB4, cs_CP_ACK(tcv_TI_1_S))		Step 28 CPACK (n->ue) 2nd CPDATA / RP_ACK (ue ->n) is acknowledged
73		+ts_RRC_ConnRel(tsc_CellA, cell_Dch)			Step 29 WA#SMS1031

lt_SMS_6					
84		Dc ! RRC_DataReq	ca_DataReq (tsc_CellDedicated, tsc_RB3, cs_Disc(tcv_TI_S))		Step 94 WA#SMS1032
85		Dc!RRC_DataReq (tcv_CP_Data := RRC_DataReq.msg, tcv_SM_Contents := tcv_CP_Data.cP_UserData.rP_DATA.rP_Use rData_lv.tP_DELIVER.tP_UserData) START t_Dly(tsc_TWait25Sec)	ca_DataReq(tsc_CellDedicated, tsc_RB4, cs_CP_DATA_01(tcv_TI_1_S, cs_CP_UserData01(tcv_TP_OrigAddr01, tcv_RP_OrigAddrMT, tcv_RP_MsgRef, tsc_Tzone0)))		Step 95 CPDATA / RP_DATA / SMS_ DELIVER (n->ue)
86	TBP4	Dc ? RRC_DataInd	car_UplinkDirectTransfer (tsc_CellDedicated, tsc_RB3, cr_Rel (tcv_TI_R))	(P)	Step 96a WA#SMS1032 WA#SMS1033
88		Dc ! RRC_DataReq	ca_DataReq (tsc_CellDedicated, tsc_RB3, cs_RelCmpl (tcv_TI_S))		Step 97b WA#SMS1032
89		Dc?RRC_DataInd CANCEL t_Dly	car_UplinkDirectTransfer(tsc_CellDedicated, tsc_RB4, cr_CP_DATA_02(tcv_TI_1_R, cr_CP_UserData02(tcv_RP_MsgRef)))		Step 99 CPDATA / RP_ACK (ue->n)
90		Dc!RRC_DataReq	ca_DataReq(tsc_CellDedicated, tsc_RB4, cs_CP_ACK(tcv_TI_1_S))		Step 100 CPACK (n->ue)
91		+ts_RRC_ConnRel(tsc_CellA, cell_Dch)			Step 101 WA#SMS1031
92	TBF8	?TIMEOUT t_Dly		(F)	
lt_ChkMsg(p_Emptying : BOOLEAN)					
93		+ts_MMI_ChkMsgIndicated			
94		+lt_EmptyStorage(p_Emptying)			
lt_SMS_1_U10					
95		+lt_SMS_2			Steps 51-55
96		Dc!RRC_DataReq	ca_DataReq(tsc_CellDedicated, tsc_RB4, cs_CP_ACK(tcv_TI_1_S))		Step 56 CPACK (n->ue)
97		+lt_ClearU10_SS			Step 57-58a
98		+ts_RRC_ConnRel(tsc_CellA, cell_Dch)			Step 58b WA#SMS1031

lt_SMS_3_U10				
99	+lt_SMS_2			Steps 63-67
100	START t_UpperBound(tcv_TTwiceTC1Mmax)			Step 68 (timer condition)
101 TBF11	?TIMEOUT t_UpperBound		(F)	First CPDATA(RP_ACK) not acknowledged
102	Dc?RRC_DataInd CANCEL t_UpperBound	car_UplinkDirectTransfer(tsc_CellDedicated, tsc_RB4, cr_CP_DATA_02(tcv_TI_1_R, cr_CP_UserData02(tcv_RP_MsgRef)))		Step 69 CPDATA / RP_ACK (ue->n) retransmitted
103	Dc!RRC_DataReq	ca_DataReq(tsc_CellDedicated, tsc_RB4, cs_CP_ACK(tcv_TI_1_S))		Step 70 CPACK (n->ue)
104	+lt_ClearU10_SS			Step 71-73
105	+ts_RRC_ConnRel(tsc_CellA, cell_Dch)			Step 74 WA#SMS1031

4.3   cs_TP_OrigAddr01 (WA#SMS1035)

Constraint name	cs_TP_OrigAddr01
Reason for change	The length indication does not identify the length of the remainder of the IE in octets, but it provides a count of the useful semioctets.
Summary of change	Length corrected to 2 * LENGTH_OF (…)
Source of change	New Change
Label	WA#SMS1035

Structured Type Constraint Declaration	
Constraint Name:	cs_TP_OrigAddr01(p_TPOA: BCDN)
Group:	
Type Name:	TP_Addr
Derivation Path:	
Encoding Variation:	
Comments:	

Element Name	Element Value	Type Encoding	Comments
iel	o_IntToOct(2 * LENGTH_OF(p_TPOA), 1)		Integer representation of useful semi-octets; as BCDN is declared as OCTETSTRING the number must be even ! WA#SMS1035
typeOfNumPlan	cs_TypeOfNumPlan03		ton: international, npi: ISDN/tel. E.164
digits	p_TPOA		

Detailed Comment:

4.4   ts_AT_CPMS (WA#SMS1043)

Constraint name	ts_AT_CPMS
Reason for change	The SM should be configured rather than ME because memory cleaning otherwise does not delete the short messages stored in SM.
Summary of change	2 x use SM instead of ME
Source of change	New Change
Label	WA#SMS1043

It_AT_Init				
109		+ts_AT_CSMS		Set SMS mode
110		+ts_AT_CPMS("""SM""", """SM""", """MT""")		Set Preferrred memory to "SM", "SM", "MT" @sic EW ER 1527 sic @ WA#SMS1043
111		+ts_AT_CMGF		Set Text Mode
112		+ts_AT_CSCS("""GSM""")		Set Character Set "GSM"
113		+ts_AT_CMGD_All		Delete message storages

5 Branches executed in test case 16.1.1

The test case implementation executed with CS and PS activated, UE_OpMode A with Integrity activated, Ciphering disabled, AutoAttach off.

6 Execution Log Files

6.1 Nokia 3G UE 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 16_1_1_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 16_1_1-pics-pixit-Nokia.html**
  Text file containing all PICS/PIXIT parameters used for testing.

7 References

[1]   **T1s040265**
       This archive comprises HTML Execution log files, PICS/PIXIT files and the TTCN MP file

CR-Form-v7

CHANGE REQUEST

| ⌘ | **TS 34.123-3** CR | 361 | ⌘**rev** | - | ⌘ | Current version: | **3.5.1** | ⌘ |

*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 16.1.9.1 to SMS ATS V3.5.1
Source:	⌘	Rohde & Schwarz

Work item code: ⌘	N/A		***Date:*** ⌘	19/05/2004

Category:	⌘	**B**	***Release:*** ⌘	R99

Use one 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 one 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 3 SMS test case 16.1.9.1 to the approved SMS ATS V3.5.1
Summary of change:	⌘	This document lists all changes applied to test case 16.1.9.1 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

		Y	N		
Other specs affected:	⌘		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 16.1.9.1 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 16.1.9.1 which is part of the SMS 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

3 Verification Test Summary

Test Case: TC_16_1_9_1

Test Group: SMS/CS_Mode/

ATS Version: iWD-TVB2003-03_D04wk15 + 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 16.1.9.1

4.1 Introduction

This section describes the changes required to make test case 16.1.9.1 run correctly with a 3G UE. All modifications are marked with label "**WA#SMS<number>**" for SMS related changes in the TTCN comments column of the enclosed ATS [1].

The ATS version used as basis was SMS_wk15.mp which is part of the iWD-TVB2003-03_D04wk15 release.

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 16.1.9.1:

WA#SMS1037, WA#SMS1091

4.2 tc_16_1_9_1 (WA#SMS1043)

Test case name tc_16_1_9_1

Reason for change SM not ME to be used as memory, because the UE always writes SM. If ME is used, thus the incorrect memory is deleted with CMGD.

Summary of change SM not ME to be used as memory in the CPMS AT Command

Source of change New Change

Label WA#SMS1043

It_AT_Init			
47	+ts_AT_CSMS		Set SMS mode
48	+ts_AT_CPMS("SM", "SM", "MT")		Set Preferred memory to "SM","SM","MT" @sic EW ER 1527 sic@ WA#SMS1043

4.3   tc_16_1_9_1 (WA#SMS1062)

Test case name   tc_16_1_9_1
Reason for change   SMS service type should be set explicitly by the test case
Summary of change   SMS service type set explicitly by the test case (AT+CGSMS=1)
Source of change   New Change
Label   WA#SMS1062

50	+ts_AT_CSCS(""GSM"")		Set Character Set "GSM"
51	+ts_AT_CGSMS_CS		Set MO SMS mode to Circuit Switched WA#SMS1062
52	+ts_AT_CMGD_All		Delete message storages

4.4   ts_AT_CGSMS_CS (WA#SMS1064)

Test step name   ts_AT_CGSMS_CS
Reason for change   To set SMS CS service type set explicitly by the test case (AT+CGSMS=1)
Summary of change   New test step to set SMS CS service type set explicitly
Source of change   New Change
Label   WA#SMS1064

Test Step				
Test Step Id:	ts_AT_CGSMS_CS			
Test Step Group Ref:	AT_Steps/			
Objective:	To set the UE to send MO SMS in CS mode			
Defaults:	UT_OtherwiseFail			
Comments:	MO SMS in CS mode is selected by using the AT command '+CGSMS=1' WA#SMS1064			
Nr	Label	Behaviour Description	Constraint Ref	Verdict	Comments
1		Ut ! AT_CmdReq	ca_AT_CmdReq ("AT+CGSMS=1<CR>")		1.
2		Ut ? AT_CmdCnf(tcv_AT_Cmd := AT_CmdCnf.resultString)	ca_AT_CmdCnf		

4.5   tc_16_1_9_1 (WA#SMS1089)

Test case name   tc_16_1_9_1
Reason for change   Revision of lt_Part1a_And2a
Summary of change   Algorithm reworked/optimized
Source of change   New Change
Label   WA#SMS1089

lt_Part1a_And2a					
19		Dc?RRC_DataInd START t_Dly(5000)	car_UplinkDirectTransfer(tsc_CellDedicated, tsc_RB3, cd_CM_ServReqShortMsg (tcv_CS_KeySeq))	(P)	Step 13 / 19 CM Service Request / 2nd short message / 3r d short message @sic EWER 1599 sic@ WA#SMS1089
20	TBP1	Dc?RRC_DataInd CANCEL t_Dly	car_UplinkDirectTransfer(tsc_CellDedicated, tsc_RB4, cr_CP_ACK(tcv_TI_R))	(P)	Step A14 / A20 CPACK (ue->n)
21		Dc!RRC_DataReq	ca_DataReq(tsc_CellDedicated, tsc_RB3, c_CM_ServAcp)		Step A15 / A21 CM Service Accept @sic EWER 1599 sic@
22		?TIMEOUT t_Dly			
23		Dc!RRC_DataReq START t_Dly(5000)	ca_DataReq(tsc_CellDedicated, tsc_RB3, c_CM_ServAcp)		Step B15a / B21a CM Service Accept @sic EWER 1599 sic@
24	TBP4	Dc?RRC_DataInd CANCEL t_Dly	car_UplinkDirectTransfer(tsc_CellDedicated, tsc_RB4, cr_CP_ACK(tcv_TI_R))	(P)	Step B15b / B21b CPACK (ue->n)
25	TBF1	?TIMEOUT t_Dly [pc_Rel99 = TRUE]		(F)	
26	TBP3	?TIMEOUT t_Dly [(pc_Rel4 = TRUE) OR (pc_Rel5 = TRUE)]		(P)	

4.6   ts_AT_CMMS (WA#SMS1088)

Test step name   ts_AT_CMMS
Reason for change   To prepare the sending of multiple SMS
Summary of change   New test step to prepare the sending of multiple SMS
Source of change   New Change
Label   WA#SMS1088

Test Step				
Test Step Id:	ts_AT_CMMS			
Test Step Group Ref:	AT_Steps/			
Objective:	To set the UE for continuity of the SMS relay protocol link			
Defaults:	UT_OtherwiseFail			
Comments:	Continuity of the SMS relay protocol link is selected by using the AT command '+CMMS=1' WA#SMS1088			
Nr	**Label**	**Behaviour Description**	**Constraint Ref**	**Verdict**	**Comments**
1		Ut ! AT_CmdReq	ca_AT_CmdReq ("AT+CMMS=1<CR>")		1.
2		Ut ? AT_CmdCnf(tcv_AT_Cmd := AT_Cm dCnf.resultString)	ca_AT_CmdCnf		

4.7   ts_AT_InitSMS_ThreeMsgs (WA#SMS1088)

Test step name   ts_AT_InitSMS_ThreeMsgs

Reason for change   To use AT+CMMS to prepare the sending of multiple SMS

Summary of change   Added AT+CMMS to prepare the sending of multiple SMS

Source of change   New Change

Label   WA#SMS1088

Test Step					
Test Step Id:	ts_AT_InitSMS_ThreeMsgs				
Test Step Group Ref:	AT_Steps/				
Objective:	To attempt sending three MO short messages at the UE under test.				
Defaults:	NAS_OtherwiseFail				
Comments:	To attempt sending three MO short messages at the UE under test. @sic EW ER 1530 sic@ WA#SMS1088				
Nr	Label	Behaviour Description	Constraint Ref	Verdict	Comments
1		+ts_AT_CMMS			set continuity of SMS relay protocol link
2		+ts_AT_CMSS(1)			send msg with index 1
3		+ts_AT_CMSS(2)			send msg with index 2
4		+ts_AT_CMSS(3)			send msg with index 3

5   Branches executed in test case 16.1.9.1

The test case implementation executed with CS and PS activated, UE_OpMode A with Integrity activated, Ciphering disabled, AutoAttach off.

6   Execution Log Files

6.1   Nokia 3G UE 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 16_1_9_1_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 16_1_9_1-pics-pixit-Nokia.html**
  Text file containing all PICS/PIXIT parameters used for testing.

7   References

[1]   **T1s040308**
        This archive comprises HTML Execution log files, PICS/PIXIT files and the TTCN MP file

CR-Form-v7

CHANGE REQUEST

| ⌘ | **TS 34.123-3** CR | 362 | ⌘**rev** | - | ⌘ | Current version: | **3.5.1** | ⌘ |

*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 16.1.9.2 to SMS ATS V3.5.1
Source: ⌘	Rohde & Schwarz
Work item code: ⌘	N/A ***Date:*** ⌘ 19/05/2004

Category: ⌘	**B**		***Release:*** ⌘ R99
	Use one of the following categories:		*Use one 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 SMS test case 16.1.9.2 to the approved SMS ATS V3.5.1
Summary of change: ⌘	This document lists all changes applied to test case 16.1.9.2 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

	Y	N		⌘	
Other specs affected: ⌘		X	Other core specifications	⌘	
		X	Test specifications		
		X	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.

3GPP TSG-T1 E-Mail 2004   **T1s040309**
Jan - 31 Dec 2004

Title:	**Changes to test case 16.1.9.2 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 16.1.9.2 which is part of the SMS 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

3 Verification Test Summary

Test Case: TC_16_1_9_2

Test Group: SMS/CS_Mode/

ATS Version: iWD-TVB2003-03_D04wk15 + 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 16.1.9.2

4.1 Introduction

This section describes the changes required to make test case 16.1.9.2 run correctly with a 3G UE. All modifications are marked with label "**WA#SMS<number>**" for SMS related changes in the TTCN comments column of the enclosed ATS [1].

The ATS version used as basis was SMS_wk15.mp which is part of the iWD-TVB2003-03_D04wk15 release.

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 16.1.9.2:

WA#SMS1037

4.2 tc_16_1_9_2 (WA#SMS1043)

Test case name tc_16_1_9_2

Reason for change SM not ME to be used as memory, because the UE always writes SM. If ME is used, thus the incorrect memory is deleted with CMGD.

Summary of change SM not ME to be used as memory in the CPMS AT Command

Source of change New Change

Label WA#SMS1043

lt_AT_Init			
47	+ts_AT_CSMS		Set SMS mode
48	+ts_AT_CPMS("SM", "SM", "MT")		Set Preferred memory to "SM", "SM", "MT" @sic EW ER 1527 sic@ WA#SMS1043

4.3   tc_16_1_9_2 (WA#SMS1062)

Test case name   tc_16_1_9_2
Reason for change   SMS service type should be set explicitly by the test case
Summary of change   SMS service type set explicitly by the test case (AT+CGSMS=1)
Source of change   New Change
Label   WA#SMS1062

50	+ts_AT_CSCS(""GSM"")		Set Character Set "GSM"
51	+ts_AT_CGSMS_CS		Set MO SMS mode to Circuit Switched WA#SMS1062
52	+ts_AT_CMGD_All		Delete message storages

4.4   ts_AT_CGSMS_CS (WA#SMS1064)

Test step name   ts_AT_CGSMS_CS
Reason for change   To set SMS CS service type set explicitly by the test case (AT+CGSMS=1)
Summary of change   New test step to set SMS CS service type set explicitly
Source of change   New Change
Label   WA#SMS1064

Test Step				
Test Step Id:	ts_AT_CGSMS_CS			
Test Step Group Ref:	AT_Steps/			
Objective:	To set the UE to send MO SMS in CS mode			
Defaults:	UT_OtherwiseFail			
Comments:	MO SMS in CS mode is selected by using the AT command '+CGSMS=1' WA#SMS1064			

Nr	Label	Behaviour Description	Constraint Ref	Verdict	Comments
1		Ut ! AT_CmdReq	ca_AT_CmdReq ("AT+CGSMS=1<CR>")		1.
2		Ut ? AT_CmdCnf(tcv_AT_Cmd := AT_CmdCnf.resultString)	ca_AT_CmdCnf		

4.5 tc_16_1_9_2 (WA#SMS1090)

Test case name	tc_16_1_9_2
Reason for change	Revision of lt_Part1a_And2a
Summary of change	Algorithm reworked/optimized
Source of change	New Change
Label	WA#SMS1089

lt_Part1a_And2a					
23		Dc?RRC_DataInd START t_Dly(5000)	car_UplinkDirectTransfer(tsc_CellDedicated, tsc_RB3, cd_CM_ServReqShortMsg (tcv_CS_KeySeq])		Step 10 / 16 CM Service Request / 2n d short message / 3rd sh ort message @sic EW ER 1599 sic@ WA#SMS1090
24	TBP1	Dc?RRC_DataInd CANCEL t_Dly	car_UplinkDirectTransfer(tsc_CellDedicated, tsc_RB4, cr_CP_ACK(tcv_TI_R))	(P)	Step A11 / A17 CPACK (ue->n)
25		Dc!RRC_DataReq	ca_DataReq(tsc_CellDedicated, tsc_RB3, c_CM_ServAcp)		Step A12 / A18 CM Service Accept @sic EW ER 1599 sic@
26		?TIMEOUT t_Dly			
27		Dc!RRC_DataReq START t_Dly(5000)	ca_DataReq(tsc_CellDedicated, tsc_RB3, c_CM_ServAcp)		Step B11 / B17 CM Service Accept @sic EW ER 1599 sic@
28	TBP2	Dc?RRC_DataInd CANCEL t_Dly	car_UplinkDirectTransfer(tsc_CellDedicated, tsc_RB4, cr_CP_ACK(tcv_TI_R))	(P)	Step B12 / B18 CPACK (ue->n)
29	TBF1	?TIMEOUT t_Dly [pc_Rel99 = TRU E]		(F)	
30	TBP3	?TIMEOUT t_Dly [(pc_Rel4 = TRU E) OR (pc_Rel5 = TRUE)]		(P)	

4.6 ts_AT_CMMS (WA#SMS1088)

Test step name	ts_AT_CMMS
Reason for change	To prepare the sending of multiple SMS
Summary of change	New test step to prepare the sending of multiple SMS
Source of change	New Change
Label	WA#SMS1088

Test Step

Test Step Id:	ts_AT_CMMS
Test Step Group Ref:	AT_Steps/
Objective:	To set the UE for continuity of the SMS relay protocol link
Defaults:	UT_OtherwiseFail
Comments:	Continuity of the SMS relay protocol link is selected by using the AT command '+CMMS=1'
	WA#SMS1088

Nr	Label	Behaviour Description	Constraint Ref	Verdict	Comments
1		Ut ! AT_CmdReq	ca_AT_CmdReq ("AT+CMMS=1<CR>")		1.
2		Ut ? AT_CmdCnf(tcv_AT_Cmd := AT_CmdCnf.resultString)	ca_AT_CmdCnf		

4.7   ts_AT_InitSMS_ThreeMsgs (WA#SMS1088)

Test step name	ts_AT_InitSMS_ThreeMsgs
Reason for change	To use AT+CMMS to prepare the sending of multiple SMS
Summary of change	Added AT+CMMS to prepare the sending of multiple SMS
Source of change	New Change
Label	WA#SMS1088

Test Step

Test Step Id:	ts_AT_InitSMS_ThreeMsgs
Test Step Group Ref:	AT_Steps/
Objective:	To attempt sending three MO short messages at the UE under test.
Defaults:	NAS_OtherwiseFail
Comments:	To attempt sending three MO short messages at the UE under test.
	@sic EW ER 1530 sic@
	WA#SMS1088

Nr	Label	Behaviour Description	Constraint Ref	Verdict	Comments
1		+ts_AT_CMMS			set continuity of SMS relay protocol link
2		+ts_AT_CMSS(1)			send msg with index 1
3		+ts_AT_CMSS(2)			send msg with index 2
4		+ts_AT_CMSS(3)			send msg with index 3

4.8   tc_16_1_9_2 (WA#SMS1050)

Test case name	tc_16_1_9_2
Reason for change	Incorrect ASP type used
Summary of change	ASP changed from InitialDirectTransfer to UplinkDirectTransfer
Source of change	New Change
Label	WA#SMS1050

19		Dc?RRC_DataInd	car_UplinkDirectTransfer(tsc_CellDedicated, tsc_RB3, cd_CM_ServReqShortMsg (tcv_CS_KeySeq))		Step 3 CM Service Request @sic EW ER 1599 sic@ @sic EW ER 1759 sic@ WA#SMS1050

4.9 ts_SMSCS_SetupMT_U10 (WA#SMS1041)

Test step name	ts_SMSCS_SetupMT_U10
Reason for change	cellConfigType being used by the CC step to bring UE into U10 not initialized
Summary of change	cellConfigType setting added (cell_DCH_StandAloneSRB_NoConn)
Source of change	New Change
Label	WA#SMS1050

Test Step	
Test Step Id:	ts_SMSCS_SetupMT_U10
Test Step Group Ref:	SMS_Steps/
Objective:	To bring the UE into state U10.
Defaults:	NAS_OtherwiseFail
Comments:	To bring the UE into state U10 to set up a mobile terminated SMS connection

Nr	Label	Behaviour Description	Constraint Ref	Verdict	Comments
1		(tcv_CellInfoA.cellConfig := cell_DCH_StandAloneSRB_NoConn)			1. WA#SMS1041
2		+ts_CC_EnterU10_MT_Def(tsc_CellA)			2.

5 Branches executed in test case 16.1.9.1

The test case implementation executed with CS and PS activated, UE_OpMode A with Integrity activated, Ciphering disabled, AutoAttach off.

6 Execution Log Files

6.1 Nokia 3G UE 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 16_1_9_2_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 16_1_9_2-pics-pixit-Nokia.html**
  Text file containing all PICS/PIXIT parameters used for testing.

7 References

[1]   **T1s040310**
        This archive comprises HTML Execution log files, PICS/PIXIT files and the TTCN MP file

CR-Form-v7

CHANGE REQUEST

| ⌘ | **TS 34.123-3 CR** ³⁶³ | ⌘**rev** | **-** | ⌘ | Current version: | **3.5.1** | ⌘ |

*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 16.1.10 to SMS ATS V3.5.1

Source: ⌘	Rohde & Schwarz

Work item code: ⌘	N/A	***Date:*** ⌘	19/05/2004

Category: ⌘	**B**	***Release:*** ⌘	R99

*Use **one** of the following categories:*	*Use **one** 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 SMS test case 16.1.10 to the approved SMS ATS V3.5.1

Summary of change: ⌘	This document lists all changes applied to test case 16.1.10 required for approval. See detailed change description for further information.

Consequences if not approved: ⌘	Test case will not be added to ATS

Clauses affected: ⌘	N/A

		Y	N		
Other specs affected:	⌘		X	Other core specifications ⌘	
			X	Test specifications	
			X	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 16.1.10 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 16.1.10 which is part of the SMS 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

3 Verification Test Summary

Test Case: TC_16_1_10

Test Group: SMS/CS_Mode/

ATS Version: iWD-TVB2003-03_D04wk15 + 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 16.1.10

4.1 Introduction

This section describes the changes required to make test case 16.1.10 run correctly with a 3G UE. All modifications are marked with label "**WA#SMS<number>**" for SMS related changes in the TTCN comments column of the enclosed ATS [1].

The ATS version used as basis was SMS_wk15.mp which is part of the iWD-TVB2003-03_D04wk15 release.

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 16.1.10:

WA#SMS1037, WA#SMS1088, WA#SMS1091

4.2 tc_16_1_10 (WA#SMS1043)

Test case name   tc_16_1_10

Reason for change   SM not ME to be used as memory, because the UE always writes SM. If ME is used, thus the incorrect memory is deleted with CMGD.

Summary of change SM not ME to be used as memory in the CPMS AT Command

Source of change   New Change

Label   WA#SMS1043

lt_AT_Init			
47	+ts_AT_CSMS		Set SMS mode
48	+ts_AT_CPMS("SM", "SM", "MT")		Set Preferred memory to "SM","SM","MT" @sic EW ER 1527 sic@ WA#SMS1043

4.3   tc_16_1_10 (WA#SMS1062)

Test case name   tc_16_1_10
Reason for change   SMS service type should be set explicitly by the test case
Summary of change   SMS service type set explicitly by the test case (AT+CGSMS=1)
Source of change   New Change
Label   WA#SMS1062

50	+ts_AT_CSCS(""GSM"")		Set Character Set "GSM"
51	+ts_AT_CGSMS_CS		Set MO SMS mode to Circuit Switched WA#SMS1062
52	+ts_AT_CMGD_All		Delete message storages

4.4   ts_AT_CGSMS_CS (WA#SMS1064)

Test step name   ts_AT_CGSMS_CS
Reason for change   To set SMS CS service type set explicitly by the test case (AT+CGSMS=1)
Summary of change   New test step to set SMS CS service type set explicitly
Source of change   New Change
Label   WA#SMS1064

Test Step					
Test Step Id:	ts_AT_CGSMS_CS				
Test Step Group Ref:	AT_Steps/				
Objective:	To set the UE to send MO SMS in CS mode				
Defaults:	UT_OtherwiseFail				
Comments:	MO SMS in CS mode is selected by using the AT command '+CGSMS=1' WA#SMS1064				

Nr	Label	Behaviour Description	Constraint Ref	Verdict	Comments
1		Ut ! AT_CmdReq	ca_AT_CmdReq ("AT+CGSMS=1<CR>")		1.
2		Ut ? AT_CmdCnf(tcv_AT_Cmd := AT_CmdCnf(resultString)	ca_AT_CmdCnf		

4.5 cs_TP_OrigAddr_01 (WA#SMS1035)

Constraint name   cs_TP_OrigAddr_01
Reason for change   Incorrect length calculation
Summary of change   Length means number of useful semi-octets
Source of change   New Change
Label   WA#SMS1035

Structured Type Constraint Declaration			
Constraint Name:	cs_TP_OrigAddr01(p_TPOA: BCDN)		
Group:			
Type Name:	TP_Addr		
Derivation Path:			
Encoding Variation:			
Comments:			

Element Name	Element Value	Type Encoding	Comments
iel	o_IntToOct(2 * LENGTH_OF(p_TPOA), 1)		Integer representation of useful semi-octets; as BCDN is declared as OCTETSTRING the number must be even ! WA#SMS1035
typeOfNumPlan	cs_TypeOfNumPlan03		ton: international, npi: ISDN/tel. E.164
digits	p_TPOA		

5 Branches executed in test case 16.1.10

The test case implementation executed with CS and PS activated, UE_OpMode A with Integrity activated, Ciphering disabled, AutoAttach off.

6 Execution Log Files

6.1 Nokia 3G UE 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 16_1_10_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 16_1_10-pics-pixit-Nokia.html**
  Text file containing all PICS/PIXIT parameters used for testing.

7 References

[1]   **T1s040312**
        This archive comprises HTML Execution log files, PICS/PIXIT files and the TTCN MP file

CR-Form-v7

CHANGE REQUEST

| ⌘ | **TS 34.123-3 CR** | 364 | ⌘**rev** | - | ⌘ | Current version: | **3.6.1** | ⌘ |

*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 16.2.1 to SMS ATS V3.6.1
Source: ⌘	Rohde & Schwarz
Work item code:⌘	N/A **Date:** ⌘ 29/06/2004
Category: ⌘ **B**	**Release:** ⌘ R99

Use one 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 one 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 3 SMS test case 16.2.1 to the approved SMS ATS V3.6.1
Summary of change:⌘	This document lists all changes applied to test case 16.2.1 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

	Y	N		
Other specs affected: ⌘		X	Other core specifications ⌘	
		X	Test specifications	
		X	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.

3GPP TSG-T1 E-Mail 2004   **T1s040313**
01 Jan - 31 Dec 2004

Title: **Changes to test case 16.2.1 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 16.2.1 which is part of the SMS 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

3 Verification Test Summary

Test Case: TC_16_2_1

Test Group: SMS/CS_Mode/

ATS Version: iWD-TVB2003-03_D04wk26

System Simulator used: Rohde & Schwarz 3G system simulator CRTU-W

UE used: Nokia 7600

Verification Status: PASS

4 Corrections required for test case 16.2.1

4.1 Introduction

No SMS related changes were required in the TTCN of the enclosed ATS [1].

The ATS version used as basis was SMS_wk26.mp which is part of the iWD-TVB2003-03_D04wk26 release.

Note that there are prose changes needed to align the prose to the TTCN.

5 Branches executed in test case 16.2.1

The test case implementation executed with CS and PS activated, UE_OpMode A with Integrity activated, Ciphering disabled, AutoAttach on and off respectively.

6 Execution Log Files

6.1 Nokia 3G UE 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 16_2_1_AutoAttach_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 files. These log files show the test execution with the UE in "auto attach" mode.

- **Execution log files 16_2_1_ManualAttach_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 files. These log files show the test execution with the UE in "manual attach" mode.

- **PICS/PIXIT file 16_2_1_AutoAttach-pics-pixit-Nokia.html**
  Text file containing all PICS/PIXIT parameters used for testing. This file shows the PICS/PIXIT parameters applied with the UE in "auto attach" mode.

- **PICS/PIXIT file 16_2_1_ManualAttach-pics-pixit-Nokia.html**
  Text file containing all PICS/PIXIT parameters used for testing. This file shows the PICS/PIXIT parameters applied with the UE in "manual attach" mode

7 References

[1]   **T1s040314**
        This archive comprises HTML Execution log files, PICS/PIXIT files and the TTCN MP file

CR-Form-v7

CHANGE REQUEST

⌘ **TS 34.123-3 CR** ³⁶⁵ ⌘**rev** **-** ⌘ Current version: **3.5.1** ⌘

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 16.2.2 to SMS ATS V3.5.1
Source: ⌘	Rohde & Schwarz
Work item code: ⌘ N/A	**Date:** ⌘ 09/06/2004

Category: ⌘ **B**

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.

Release: ⌘ R99

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 3 SMS test case 16.2.2 to the approved SMS ATS V3.5.1.
Summary of change: ⌘	This document lists all changes applied to test case 16.2.2 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: ⌘	Y	N	
		X	Other core specifications ⌘
		X	Test specifications
		X	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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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 16.2.2 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 16.2.2 which is part of the SMS 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

3 Verification Test Summary

Test Case: TC_16_2_2

Test Group: SMS/CS_Mode/

ATS Version: iWD-TVB2003-03_D04wk15 + 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 16.2.2

4.1 Introduction

This section describes the changes required to make test case 16.2.2 run correctly with a 3G UE. All modifications are marked with label "**WA#SMS<number>**" for SMS related changes in the TTCN comments column of the enclosed ATS [1].

The ATS version used as basis was SMS_wk15.mp which is part of the iWD-TVB2003-03_D04wk15 release.

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 16.2.2:

WA#SMS1039, WA#SMS 1088

4.2   ts_AT_CPMS (WA#SMS1043)

Constraint name	ts_AT_CPMS
Reason for change	The SM should be configured rather than ME because memory cleaning otherwise does not delete the short messages stored in SM.
Summary of change	2 x use SM instead of ME
Source of change	New Change
Label	WA#SMS1043

It_AT_Init				
77		+ts_AT_CSMS		Set SMS mode
78		+ts_AT_CPMS(""SM"", ""SM"", ""MT"")		Set Preferred memory to " SM", "SM", "MT" @sic EW ER 1527 sic@ WA#SMS1043
79		+ts_AT_CMGF		Set Text Mode
80		+ts_AT_CSCS(""GSM"")		Set Character Set "GSM"
81		+ts_AT_CMGD_All		Delete message storages
82		+ts_AT_CSCA(""2222222222"", 129)		Set service center address @sic EW ER 1521 sic@
83		+ts_AT_CMGW(""1111111111"", 129)		Write message with index 1 to memory @sic EW ER 1521 sic@

4.3   tc_16_2_2 (WA#SMS1043)

Test case name	tc_16_2_2
Reason for change	SM not ME to be used as memory, because the UE always writes SM. If ME is used, thus the incorrect memory is deleted with CMGD.
Summary of change	SM not ME to be used as memory in the CPMS AT Command
Source of change	New Change
Label	WA#SMS1043

It_AT_Init				
47		+ts_AT_CSMS		Set SMS mode
48		+ts_AT_CPMS(""SM"", ""SM"", ""MT"")		Set Preferred memory to "SM", "SM", "MT" @sic EW ER 1527 sic@ WA#SMS1043

4.4   tc_16_2_2 (WA#SMS1063)

Test case name	tc_16_2_2
Reason for change	SMS service type should be set explicitly by the test case
Summary of change	SMS service type set explicitly by the test case (AT+CGSMS=0)
Source of change	New Change
Label	WA#SMS1063

41		+ts_AT_CSCS(""GSM"")			Set Character Set "GSM"
42		+ts_AT_CGSMS_PS			Set MO SMS mode to Packet Domain WA#SMS1063
43		+ts_AT_CMGD_All			Delete message storages

4.5   ts_AT_CGSMS_PS (WA#SMS1065)

Test step name   ts_AT_CGSMS_PS
Reason for change   To set SMS PS service type set explicitly by the test case (AT+CGSMS=0)
Summary of change   New test step to set SMS PS service type set explicitly
Source of change   New Change
Label   WA#SMS1065

Test Step					
Test Step Id:	ts_AT_CGSMS_PS				
Test Step Group Ref:	AT_Steps/				
Objective:	To set the UE to send MO SMS in PS mode				
Defaults:	UT_OtherwiseFail				
Comments:	MO SMS in PS mode is selected by using the AT command '+CGSMS=0' WA#SMS1065				
Nr	Label	Behaviour Description	Constraint Ref	Verdict	Comments
1		Ut ! AT_CmdReq	ca_AT_CmdReq ("AT+CGSMS=0<CR>")		1.
2		Ut ? AT_CmdCnf(tcv_AT_Cmd := AT_CmdCnf.resultString)	ca_AT_CmdCnf		

4.6   cs_TP_OrigAddr_01 (WA#SMS1035)

Constraint name   cs_TP_OrigAddr_01
Reason for change   Incorrect length calculation
Summary of change   Length means number of useful semi-octets
Source of change   New Change
Label   WA#SMS1035

Structured Type Constraint Declaration			
Constraint Name:	cs_TP_OrigAddr01(p_TPOA: BCDN)		
Group:			
Type Name:	TP_Addr		
Derivation Path:			
Encoding Variation:			
Comments:			
Element Name	Element Value	Type Encoding	Comments
iel	o_IntToOct(2 * LENGTH_OF(p_TPOA), 1)		Integer representation of useful semi-octets; as BCDN is declared as OCTETSTRING the number must be even ! WA#SMS1035
typeOfNumPlan	cs_TypeOfNumPlan03		ton: international, npi: ISDN/tel . E.164
digits	p_TPOA		

4.7 ts_SMSPS_SetupMO_Part1/configType (WA#SMS1073)

Test step name	ts_SMSPS_SetupMO_Part1
Reason for change	config type not set as required by subsequent test step
Summary of change	config type set as required by subsequent test step (tcv_CellInfoA.cellConfig := cell_DCH_StandAloneSRB_NoConn)
Source of change	New Change
Label	WA#SMS1073

		Test Step			
Test Step Id:	ts_SMSPS_SetupMO_Part1(p_Mode: INTEGER)				
Test Step Group Ref:	SMS_Steps/				
Objective:	To set up a mobile originated SMS-PS connection till receipt of Service Request				
Defaults:	NAS_OtherwiseFail				
Comments:	MO SMS-PS connections are requested to be established via AT or MMI command. The mode indicates the type of SMS-PS activity to be performed. An MO RRC connection results.				
Nr	Label	Behaviour Description	Constraint Ref	Verdict	Comments
1		(tcv_CellInfoA.cellConfig := cell_DCH_StandAloneSRB_NoConn)			1. WA#SMS1073
2		+ts_SMS_SetupMO_Mode(p_Mode)			1.

4.8 ts_SMSPS_SetupMO_Part1/ASP Type (WA#SMS1040)

Test step name	ts_SMSPS_SetupMO_Part1
Reason for change	incorrect ASP type used for Service Request
Summary of change	ASP type used for Service Request corrected to RRC_DataInd
Source of change	New Change
Label	WA#SMS1040

4		Dc ? RRC_DataInd	car_PS_InitDirectTransfer(tsc_CellDedicated, tsc_RB3, cr_ServiceRequest(c_ServiceType_v('000'B), c_MobileIdPTMSI_lv (tcv_AssignedPTMSI), tcv_PS_KeySeq))		3. WA#SMS1040

4.9 tc_16_2_2 (WA#SMS1037)

Test case name	tc_16_2_2
Reason for change	Initialization potentially incomplete for PS
Summary of change	Use ts_RRC_InitVariables, implying usage of tcv_RRC_EstCauMO and RLC_IncMode
Source of change	New Change
Label	WA#SMS1037

4		(tcv_RP_OrigAddrMT:='1111 111111'O, tcv_TP_OrigAddr01:='3333333 333'O, tcv_RP_MsgRef := '00'O)			
5		+ts_RRC_InitVariablesPS(c ell_DCH)			WA#SMS1037
6		(tcv_CN_Domain :=ps_do main)			@sic EW ER 1535 sic@

tcv_RRC_EstCauMO	EstablishmentCause	originatingConversationalCall	To hold the establishment cause for M O call that is supported by UE. Assigne d in ts_RRC_InitVariables. WA#SMS1037

ASN.1 Type Definition	
Type Name:	RLC_IncMode
Group:	
Encoding Variation:	
Comments:	WA#SMS1037

Type Definition
ENUMERATED {notInc(0), inc(1)}

4.10 tc_16_2_2 (WA#SMS1030)

Test case name	tc_16_2_2
Reason for change	Incorrect ASP Type used
Summary of change	Use PS ASPs instead of CS ASPs
Source of change	New Change
Label	WA#SMS1030

it_SMS_1

39		Dc?RRC_DataInd (tcv_CP_Data := RRC_DataInd.msg, tcv_TI_1_S.tiVal := tcv_CP_Data.tiVal, tcv_RP_MsgRef:= tcv_CP_Data.cP_UserD ata.rP_DATA.rP_MsgRef)	car_PS_UplinkDirectTransfer(tsc_CellDedicated, tsc_RB4, cr_CP_DATA_03(cr_CP_UserData03(cr_RP_DATA_02())		Steps 10 / 49 CPDATA / RP_DATA / SMS_SUBM IT (ue->n) WA#SMS1030 WA#SMS1092

it_SMS_2

41		Dc!RRC_DataReq	ca_PS_DataReq(tsc_CellDedicated, tsc_RB4, cs_CP_ACK(tcv_TI_1_S))		Steps 11 / 50 CPACK (n->ue) WA#SMS1030
42		Dc!RRC_DataReq (tcv_TI_1_R.tiVal := tcv_TI_1_S.tiVal) START t_Dly(tsc_TWait25Sec)	ca_PS_DataReq(tsc_CellDedicated, tsc_RB4, cs_CP_DATA_01(tcv_TI_1_S, cs_CP_UserData04(tcv_RP_MsgRef())		Steps 12 / 51 CPDATA / RP_ACK (n->ue) WA#SMS1030
43	TBF1	?TIMEOUT t_Dly		(F)	
44		+ts_RRC_ConnRel(tsc_CellA, cell_Dch)			
45	TBF2	Dc?RRC_DataInd CANCEL t_Dly	car_PS_UplinkDirectTransfer(tsc_CellDedicated, tsc_RB4, cr_CP_ACK(tcv_TI_1_R()	(P)	Steps 13 / 52 CPACK (ue->n) WA#SMS1030

lt_SMS_3(p_Time:INTEGER)

46		Dc?RRC_DataInd	car_PS_UplinkDirectTransfer{ tsc_CellDedicated, tsc_RB4, cr_CP_DATA_03{ cr_CP_UserData03{ cr_RP_DATA_02())		Steps 27 / 59 CPDATA / RP_DATA / SMS_SUBM IT (ue->n) WA#SMS1030 WA#SMS1092
47		{tcv_CP_DataRetx := 0}			
48		REPEAT lt_SMS_6 UNTIL {tcv_CP_DataRe tx := px_MaxCP_DataRetx}			Steps 28-30 / 60-62 MO-SM is retransmitted
49		START t_LowerBound{tcv_TTC1Mmin + p _Time)			
50	TBF2	Dc?RRC_DataInd	car_PS_UplinkDirectTransfer{ tsc_CellDedicated, tsc_RB4, cr_CP_DATA_03{ cr_CP_UserData03{ cr_RP_DATA_02())	(F)	CPDATA / RP_DATA / SMS_SUBM IT (ue->n) shall NOT be sent more than px_ MaxCP_DataRetx times WA#SMS1030 WA#SMS1092
51		+ts_RRC_ConnRel{ tsc_CellA, cell_Dch)			
52		?TIMEOUT t_LowerBound			
53		+ts_RRC_ConnRel{ tsc_CellA, cell_Dch)			Steps 31-32 / 63-64

lt_SMS_4

54		Dc?RRC_DataInd {tcv_CP_Data := RRC_DataInd.msg, tcv_TI_1_8.tiVal := tcv_CP_Data.ti.tiVal, tcv_RP_MsgRef := tcv_CP_Data.cP_UserD ata.rP_DATA.rP_MsgRef)	car_PS_UplinkDirectTransfer{ tsc_CellDedicated, tsc_RB4, cr_CP_DATA_03{ cr_CP_UserData03{ cr_RP_DATA_02())		Step 41 CPDATA / RP_DATA / SMS_SUBM IT (ue->n) WA#SMS1030 WA#SMS1092
55		Dc!RRC_DataReq	ca_PS_DataReq{ tsc_CellDedicated, tsc_RB4, cs_CP_ERROR{ tcv_TI_1_8()		Step 42 CPERROR (n->ue) "Network Fail ure" WA#SMS1030

lt_SMS_5

56		Dc?RRC_DataInd{ tcv_CP_Data := RRC_DataInd.msg, tcv_TI_1_8.tiVal := tcv_CP_Data.ti.tiVal, tcv_RP_MsgRef := tcv_CP_Data.cP_UserD ata.rP_DATA.rP_MsgRef)	car_PS_UplinkDirectTransfer{ tsc_CellDedicated, tsc_RB4, cr_CP_DATA_03{ cr_CP_UserData03{ cr_RP_DATA_02())		Step 75 CPDATA / RP_DATA / SMS_SUBM IT (ue->n) WA#SMS1030 WA#SMS1092
57		+t_TI1			
58		Dc!RRC_DataReq{ tcv_CP_Data := RRC_DataReq.msg, tcv_SM_Contents := tcv_CP_Data.rP_User Data.rP_DATA.rP_UserData_tx(rP_DELIVER .rP_UserData) START t_Dly(tsc_TWait25Sec)	ca_PS_DataReq{ tsc_CellDedicated, tsc_RB4, cs_CP_DATA_01{ tcv_TI_8, cs_CP_UserData01{ tcv_TP_OrigAddr01, tcv_RP_OrigAddrMT, tcv_RP_MsgRef, tsc_T2one4()		Steps 76-77 CPDATA / RP_DATA / SMS_DELIV ER (n->ue) WA#SMS1030
59	TBF3	?TIMEOUT t_Dly		(F)	
60		+ts_RRC_ConnRel{ tsc_CellA, cell_Dch)			
61	TBF3	Dc?RRC_DataInd START t_Dly(tsc_TWait60Sec)	car_PS_UplinkDirectTransfer{ tsc_CellDedicated, tsc_RB4, cr_CP_ACK{ tcv_TI_ff()	(P)	Step 79 CPACK (ue->n) WA#SMS1030
62	TBF4	?TIMEOUT t_Dly		(F)	
63		+ts_RRC_ConnRel{ tsc_CellA, cell_Dch)			
64	TBF4	Dc?RRC_DataInd CANCEL t_Dly	car_PS_UplinkDirectTransfer{ tsc_CellDedicated, tsc_RB4, cr_CP_DATA_02{ tcv_TI_R, cr_CP_UserData02{ tcv_RP_MsgRef()	(P)	Step 79 cc CPDATA / RP_ACK (ue->n) WA#SMS1030
65		Dc!RRC_DataReq	ca_PS_DataReq{ tsc_CellDedicated, tsc_RB4, cs_CP_ACK{ tcv_TI_S()		CPACK (n->ue) WA#SMS1030

lt_SMS_6

66		START t_UpperBound{tcv_TTwiceTC1Mma x)			
67	TBF5	?TIMEOUT t_UpperBound		(F)	
68		+ts_RRC_ConnRel{ tsc_CellA, cell_Dch)			
69		Dc?RRC_DataInd CANCEL t_UpperBound	car_PS_UplinkDirectTransfer{ tsc_CellDedicated, tsc_RB4, cr_CP_DATA_03{ cr_CP_UserData03{ cr_RP_DATA_02())		CPDATA / RP_DATA / SMS_SUBM IT (ue->n) WA#SMS1030 WA#SMS1092
70		{tcv_CP_DataRetx := tcv_CP_DataRetx + 1 }			

4.11 ts_SM_ActCtxtMO (WA#SMS1061)

Test step name	ts_SM_ActCtxtMO
Reason for change	incorrect establishment cause used
Summary of change	establishment cause 'registration' used
Source of change	New Change
Label	WA#SMS1061

lt_PDP_CtxtEst					
6		+ts_AT_OrgPS_Call (tsc_CellA)			Originate a PDP Context Request using AT commands
7		+ ts_RRC_ConnEst (tsc_CellA, est_Reg, ?)			Establish RRC Connection WA#SMS1061

4.12 ts_GMM_PS_Registration (WA#SMS1067)

Test step name	ts_GMM_PS_Registration
Reason for change	incorrect constraint for AttachType used (not initialized)
Summary of change	correct constraint c_AttachTypeAny used instead of tcv_AttachType
Source of change	New Change
Label	WA#SMS1067

Test Step					
Test Step Id:	ts_GMM_PS_Registration (p_CellId : INTEGER)				
Test Step Group Ref:	L3M_MM_GMM_Steps/				
Objective:	Contains the core GMM signalling for PS registration (see ts_GMM_IdleUpdated for detailed comments)				
Defaults:	NAS_OtherwiseFail				
Comments:	@SIC_NAPP				
Nr	Label	Behaviour Description	Constraint Ref	Verdict	Comments
1		+ts_SetTmpCellInfo (p_CellId)			
2		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_Iv, c_RAI_Any_v, tcv_PS_KeySeq))		ATTACH REQUEST - Extract Attach type requested @sic T1-031835 and T1-03xtc2 sic@ WA#SMS1067

4.13 ts_SM_DeactCtxt_MT (WA#SMS1072)

Test step name	ts_SM_DeactCtxt_MT
Reason for change	Detach required after Deactivate PDP Context Request
Summary of change	Detach procedure added after PDP context deactivation
Source of change	New Change
Label	WA#SMS1072

Test Step					
Test Step Id:	ts_SM_DeactCbt_MT(p_CellId: INTEGER ; p_ti: TI)				
Test Step Group Ref:	SM_Steps/				
Objective:	To deactivate a PDP Context from the UTRAN Side				
Defaults:	NAS_OtherwiseFail				
Comments:	This will be used to deactivate a PDP Context from the UTRAN Side.				

Nr	Label	Behaviour Description	Constraint Ref	Verdict	Comments
1		Dc ! RRC_DataReq START t_3395	ca_PS_DataReq(tsc_CellDedicated, tsc_RB3, cs_DeactPDP_ContextRe qMT(p_ti, tsc_RejCauPDP_CbdDeac t))		Send Deactivate PDP Context with tear down flag set to 1
2		Dc? RRC_DataInd CANCEL t_3395, START t_Dly(5000)	car_PS_UplinkDirectTransfer (tsc_CellDedicated, tsc_RB3, cr_DeactPDP_ContextAcp MO)	(P)	Send Deactivate PDP Context with tear down flag set to 1 WA#SMS1072
3		Dc ? RRC_DataInd CANCEL t_Dly	car_PS_UplinkDirectTransfer (tsc_CellDedicated , tsc_RB3, cr_DetachRequest_MO)	(P)	Receive Detach Request WA#SMS1072
4		Dc ! RRC_DataReq	ca_PS_DataReq(tsc_Cell Dedicated , tsc_RB3, cs_DetachAcc)		DETACH ACCEPT WA#SMS1072
5		(tcv_AttachFlag := FALSE)			Note that UE is not GMM attached WA#SMS1074
6		? TIMEOUT t_Dly		(F)	WA#SMS1072
7		? TIMEOUT t_3395		(F)	On expiry of T3395, FAIL

4.14 ts_SM_DeactCtxt_MT (WA#SMS1074)

Test step name	ts_SM_DeactCtxt_MT
Reason for change	attach flag not set as required by subsequent test step
Summary of change	attach flag set as required by subsequent test step (tcv_AttachFlag := FALSE)
Source of change	New Change
Label	WA#SMS1074

4		Dc ! RRC_DataReq	ca_PS_DataReq(tsc_Cell Dedicated , tsc_RB3, cs_DetachAcc)		DETACH ACCEPT WA#SMS1072
5		(tcv_AttachFlag := FALSE)			Note that UE is not GMM attached WA#SMS1074

4.15 px_MaxNumOfChars (WA#SMS1092)

Test suite parameter name	px_MaxNumOfChars
Reason for change	A comment from Sasken which claimed that short messages to be sent by the UE must have maximum length
Summary of change	Introduce new PIXIT item to hold the max. number of characters in an SM.
Source of change	New Change
Label	WA#SMS1092

px_MaxNumOfChars	INTEGER		PIXIT Table B.4	max. number of characters in a MO SMS WA#SMS1092

4.16 tsc_Fox (WA#SMS1092)

Test suite constant name	tsc_Fox
Reason for change	A comment from Sasken which claimed that short messages to be sent by the UE must have maximum length
Summary of change	Introduce a string constant as long as a maximum length SM.
Source of change	New Change
Label	WA#SMS1092

tsc_Fox	IA5String	"The quick brown fox jumps over the lazy dog's back. Kaufen Sie Ihrer Frau vier bequeme Pelze. - 0123456789 - THE QUICK BROWN FOX JUMPS OVER THE LAZY DOG'S BACK."	Fox String of maximum SMS length of 16 0 characters WA#SMS1092

4.17 cr_TP_SUBMIT_02 (WA#SMS1092)

Constraint name	cr_TP_SUBMIT_02
Reason for change	A comment from Sasken which claimed that short messages to be sent by the UE must have maximum length
Summary of change	To hold a maximum length SM submitted by the UE.
Source of change	New Change
Label	WA#SMS1092

Structured Type Constraint Declaration			
Constraint Name: cr_TP_SUBMIT_02			
Group:			
Type Name: SMS_SUBMIT			
Derivation Path:			
Encoding Variation:			
Comments: MO SMS with maximum amount of user data WA#SMS1092			

Element Name	Element Value	Type Encoding	Comments
tP_ReplyPath	?		
tP_UD_HeaderInd	?		
tP_StatusRptReq	?		
tP_ValPeriodFrmt	?		
tP_RejDuplicates	?		
tP_MsgTypeInd	'01'B		
tP_MsgRef	?		
tP_DestAddr	cr_TP_DestAddr01		
tP_ProtId	c_TP_ProtId01		
tP_DataCodingScheme	c_TP_DCS_01		
tP_ValPeriodRel	?		
tP_ValPeriodAbs	-		
tP_ValPeriodEnh			
tP_UD_Len	o_IntToOct(px_MaxNumOfChars, 1)		
tP_UserData	?		

4.18 cr_RP_UserData03_lv (WA#SMS1092)

Constraint name	cr_RP_UserData03_lv
Reason for change	A comment from Sasken which claimed that short messages to be sent by the UE must have maximum length
Summary of change	To hold a maximum length SM submitted by the UE and caught with cr_TP_SUBMIT_02.
Source of change	New Change
Label	WA#SMS1092

Structured Type Constraint Declaration			
Constraint Name: cr_RP_UserData03_lv			
Group:			
Type Name: RP_UserData_lv			
Derivation Path:			
Encoding Variation:			
Comments: WA#SMS1092			

Element Name	Element Value	Type Encoding	Comments
iei	?		
tP_COMMAND	-		
tP_DELIVER	-		
tP_DELIVER_REPORT	-		
tP_SUBMIT	cr_TP_SUBMIT_02		
tP_SUBMIT_REPORT	-		
tP_STATUS_REPORT	-		

4.19 cr_ RP_DATA_02 (WA#SMS1092)

Constraint name	cr_RP_DATA_02
Reason for change	A comment from Sasken which claimed that short messages to be sent by the UE must have maximum length
Summary of change	To hold a maximum length SM submitted by the UE and caught with cr_TP_SUBMIT_02 and cr_RP_UserData03_lv.
Source of change	New Change
Label	WA#SMS1092

Structured Type Constraint Declaration			
Constraint Name: cr_RP_DATA_02			
Group:			
Type Name: RP_DATA			
Derivation Path:			
Encoding Variation:			
Comments: WA#SMS1092			

Element Name	Element Value	Type Encoding	Comments
spare5	'00000'B		
rP_MsgTypeInd	'001'B		
rP_MsgRef	?		
rP_OrigAddr	cr_RP_OrigAddr02		
rP_DestAddr	cr_RP_DestAddr02		
rP_UserData_lv	cr_RP_UserData03_lv		

4.20 ts_AT_CMGW (WA#SMS1092)

Test step name	ts_AT_CMGW
Reason for change	A comment from Sasken which claimed that short messages to be sent by the UE must have maximum length. A 3rd parameter needed to pass the SM to be sent to the AT command.
Summary of change	Parameter containing the SM added, and all of it constructed in the AT command including delimeters.
Source of change	New Change
Label	WA#SMS1092

Test Step					
Test Step Id:	ts_AT_CMGW(p_DA: IA5String; p_TODA: INTEGER; p_Str: IA5String)				
Test Step Group Ref	AT_Steps/				
Objective:	To write message to Preferred message store				
Defaults:	UT_OtherwiseFail				
Comments:	The TP Destination Address is set to p_DA by using the AT command '+CMGW'				
	The string to be sent as the message to be stored by the UE is determined by p_Str.				
	WA#SMS1092				
	This test step has to be adapted to p_MaxNumOfChars < 160 !!				

Nr	Label	Behaviour Description	Constraint Ref	Verdict	Comments
1		+lt_BuildAT_Cmd			
2		Ut ! AT_CmdReq	ca_AT_CmdReq (tcv_AT_Cmd)		1.
3		Ut ? AT_CmdCnf(tcv_AT_Cmd := AT_CmdCnf.resultString)	ca_AT_CmdCnfWithString		@sic EW ER 1529 sic@
4		(tcv_Res := o_CheckStringStartWith (tcv_AT_Cmd , "<CR><LF>+CMGW:"))			2.
5	TSP	[tcv_Res]		(P)	
6	TSF	[NOT tcv_Res]		(F)	
lt_BuildAT_Cmd					
7		(tcv_IA5_String1 := o_ConcatStrg("AT+CMGW=", p_DA))			3.
8		(tcv_IA5_String2 := o_ConcatStrg(",", o_IntToIA5(p_TODA, 2)))			4.
9		(tcv_IA5_String1 := o_ConcatStrg(tcv_IA5_String1, tcv_IA5_String2))			5.
10		(tcv_IA5_String1 := o_ConcatStrg(tcv_IA5_String1, "<CR>"))			6.
11		(tcv_IA5_String1 := o_ConcatStrg(tcv_IA5_String1, p_Str))			7.
12		(tcv_AT_Cmd := o_ConcatStrg(tcv_IA5_String1, "<ESC><CR>"))			8.

Detailed Comment:	1. see TS 27.005 cl. 3.5.3
	2. the String in the AT ASP Confirmation primitive shall indicate that the setting was successful
	3. AT+CMGW=<DA>
	4. ,<TODA>
	5. AT+CMGW=<DA>,<TODA>
	6. AT+CMGW=<DA>,<TODA><CR>
	7. AT+CMGW=<DA>,<TODA><CR>p_Str
	8. AT+CMGW=<DA>,<TODA><CR>p_Str<ESC><CR>

4.21 tc_16_2_2 (WA#SMS1092)

Test case name	tc_16_2_2
Reason for change	A comment from Sasken which claimed that short messages to be sent by the UE must have maximum length.
Summary of change	Newly created constraint cr_RP_DATA_02 and modified test step ts_AT_CMGW used.
Source of change	New Change
Label	WA#SMS1092

tl_SMS_1

39			Dc?RRC_DataInd (tcv_CP_Data := RRC_DataInd.msg, tcv_TI_1_S.tiVal := tcv_CP_Data.ti.tiVal, tcv_RP_MsgRef := tcv_CP_Data.cP_UserData.rP_DATA.rP_MsgRef)	car_PS_UplinkDirectTransfer(tsc_CellDedicated, tsc_RB4, cr_CP_DATA_03(cr_CP_UserData03(cr_RP_DATA_02()))		Steps 18 / 49 CPDATA / RP_DATA / SMS_SUBM IT (ue->n) WA#SMS1030 WA#SMS1092

tl_SMS_3(p_Time INTEGER)

46			Dc?RRC_DataInd	car_PS_UplinkDirectTransfer(tsc_CellDedicated, tsc_RB4, cr_CP_DATA_03(cr_CP_UserData03(cr_RP_DATA_02()))		Steps 27 / 59 CPDATA / RP_DATA / SMS_SUBM IT (ue->n) WA#SMS1030 WA#SMS1092
47			(tcv_CP_DataRetx := 0)			
48			REPEAT tl_SMS_6 UNTIL [tcv_CP_DataRe tx := px_MaxCP_DataRetx]			Steps 28-30 / 60-62 MO-SM is retransmitted
49			START t_LowerBound(tcv_TTC1Mmin + p _Time)			
50	TBF3		Dc?RRC_DataInd	car_PS_UplinkDirectTransfer(tsc_CellDedicated, tsc_RB4, cr_CP_DATA_03(cr_CP_UserData03(cr_RP_DATA_02()))	(F)	CPDATA / RP_DATA / SMS_SUBM IT (ue->n) shall NOT be sent more than px_ MaxCP_DataRetx times WA#SMS1030 WA#SMS1092

tl_SMS_4

54			Dc?RRC_DataInd (tcv_CP_Data := RRC_DataInd.msg, tcv_TI_1_S.tiVal := tcv_CP_Data.ti.tiVal, tcv_RP_MsgRef := tcv_CP_Data.cP_UserD ata.rP_DATA.rP_MsgRef)	car_PS_UplinkDirectTransfer(tsc_CellDedicated, tsc_RB4, cr_CP_DATA_03(cr_CP_UserData03(cr_RP_DATA_02()))		Step 41 CPDATA / RP_DATA / SMS_SUBM IT (ue->n) WA#SMS1030 WA#SMS1092

tl_SMS_5

56			Dc?RRC_DataInd(tcv_CP_Data := RRC_DataInd.msg, tcv_TI_1_S.tiVal := tcv_CP_Data.ti.tiVal, tcv_RP_MsgRef := tcv_CP_Data.cP_UserD ata.rP_DATA.rP_MsgRef)	car_PS_UplinkDirectTransfer(tsc_CellDedicated, tsc_RB4, cr_CP_DATA_03(cr_CP_UserData03(cr_RP_DATA_02()))		Step 75 CPDATA / RP_DATA / SMS_SUBM IT (ue->n) WA#SMS1030 WA#SMS1092

tl_SMS_6

66			START t_UpperBound(tcv_TTwiceTC1Mma x)			
67	TBF5		?TIMEOUT t_UpperBound		(F)	
68			+ts_RRC_ConnRel(tsc_CellA, cell_Dch)			
69			Dc?RRC_DataInd CANCEL t_UpperBound	car_PS_UplinkDirectTransfer(tsc_CellDedicated, tsc_RB4, cr_CP_DATA_03(cr_CP_UserData03(cr_RP_DATA_02())		CPDATA / RP_DATA / SMS_SUBM IT (ue->n) WA#SMS1030 WA#SMS1092
70			(tcv_CP_DataRetx := tcv_CP_DataRetx + 1)			

5 Branches executed in test case 16.2.2

The test case implementation executed with CS and PS activated, UE_OpMode A with Integrity activated, Ciphering disabled, AutoAttach off.

6 Execution Log Files

6.1 Nokia 3G UE 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 16_2_2_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 16_2_2-pics-pixit-Nokia.html**
  Text file containing all PICS/PIXIT parameters used for testing.

7 References

[1]   **T1s040316**
         This archive comprises HTML Execution log files, PICS/PIXIT files and the TTCN MP file

CR-Form-v7

CHANGE REQUEST

| ⌘ | **TS 34.123-3 CR** | ³⁶⁶ | ⌘**rev** | **-** | ⌘ | Current version: | **3.5.1** | ⌘ |

*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 16.2.10 to SMS ATS V3.5.1
Source:	⌘	Rohde & Schwarz
Work item code: ⌘	N/A	**Date:** ⌘ 19/05/2004
Category: ⌘	**B**	**Release:** ⌘ R99

Use *one* 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 *one* 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 3 SMS test case 16.2.10 to the approved SMS ATS V3.5.1
Summary of change: ⌘	This document lists all changes applied to test case 16.2.10 required for approval. See detailed change description for further information.	
Consequences if not approved:	⌘	Test case will not be added to ATS

Clauses affected:	⌘	N/A

Other specs affected:	⌘	Y	N		⌘	
			X	Other core specifications		
			X	Test specifications		
			X	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 16.2.10 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 16.2.10 which is part of the SMS 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

3   Verification Test Summary

Test Case:	TC_16_2_10
Test Group:	SMS/CS_Mode/
ATS Version:	iWD-TVB2003-03_D04wk15 + 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 16.2.10

4.1   Introduction

This section describes the changes required to make test case 16.2.10 run correctly with a 3G UE. All modifications are marked with label "**WA#SMS<number>**" for SMS related changes in the TTCN comments column of the enclosed ATS [1].

The ATS version used as basis was SMS_wk15.mp which is part of the iWD-TVB2003-03_D04wk15 release.

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 16.2.10:

WA#SMS1037, WA#SMS1088, WA#SMS1091

4.2   tc_16_2_10 (WA#SMS1043)

Test case name	tc_16_2_10
Reason for change	SM not ME to be used as memory, because the UE always writes SM. If ME is used, thus the incorrect memory is deleted with CMGD.
Summary of change	SM not ME to be used as memory in the CPMS AT Command
Source of change	New Change
Label	WA#SMS1043

It_AT_Init			
47	+ts_AT_CSMS		Set SMS mode
48	+ts_AT_CPMS("SM", "SM", "MT")		Set Preferred memory to "SM", "SM", "MT" @sic EW ER 1527 sic@ WA#SMS1043

4.3   tc_16_2_10 (WA#SMS1063)

Test case name   tc_16_2_10
Reason for change   SMS service type should be set explicitly by the test case
Summary of change   SMS service type set explicitly by the test case (AT+CGSMS=0)
Source of change   New Change
Label   WA#SMS1063

41		+ts_AT_CSCS(""GSM"")			Set Character Set "GSM"
42		+ts_AT_CGSMS_PS			Set MO SMS mode to Packet Domain WA#SMS1063
43		+ts_AT_CMGD_All			Delete message storages

4.4   ts_AT_CGSMS_PS (WA#SMS1065)

Test step name   ts_AT_CGSMS_PS
Reason for change   To set SMS PS service type set explicitly by the test case (AT+CGSMS=0)
Summary of change   New test step to set SMS PS service type set explicitly
Source of change   New Change
Label   WA#SMS1065

Test Step					
Test Step Id:	ts_AT_CGSMS_PS				
Test Step Group Ref:	AT_Steps/				
Objective:	To set the UE to send MO SMS in PS mode				
Defaults:	UT_OtherwiseFail				
Comments:	MO SMS in PS mode is selected by using the AT command '+CGSMS=0' WA#SMS1065				
Nr	Label	Behaviour Description	Constraint Ref	Verdict	Comments
1		Ut ! AT_CmdReq	ca_AT_CmdReq ("AT+CGSMS=0<CR>")		1.
2		Ut ? AT_CmdCnf(tcv_AT_Cmd := AT_CmdCnf.resultString)	ca_AT_CmdCnf		

4.5 cs_TP_OrigAddr_01 (WA#SMS1035)

Constraint name	cs_TP_OrigAddr_01
Reason for change	Incorrect length calculation
Summary of change	Length means number of useful semi-octets
Source of change	New Change
Label	WA#SMS1035

Structured Type Constraint Declaration			
Constraint Name:	cs_TP_OrigAddr01(p_TPOA: BCDN)		
Group:			
Type Name:	TP_Addr		
Derivation Path:			
Encoding Variation:			
Comments:			

Element Name	Element Value	Type Encoding	Comments
iei	o_IntToOct(2 * LENGTH_OF(p_TPOA), 1)		Integer representation of useful semi-octets; as BCDN is declared as OCTETSTRING the number must be even ! WA#SMS1035
typeOfNumPlan	cs_TypeOfNumPlan03		ton: international, npi: ISDN/tel. E.164
digits	p_TPOA		

4.6 ts_SMSPS_SetupMO_Part1/configType (WA#SMS1073)

Test step name	ts_SMSPS_SetupMO_Part1
Reason for change	config type not set as required by subsequent test step
Summary of change	config type set as required by subsequent test step (tcv_CellInfoA.cellConfig := cell_DCH_StandAloneSRB_NoConn)
Source of change	New Change
Label	WA#SMS1073

Test Step					
Test Step Id:	ts_SMSPS_SetupMO_Part1(p_Mode: INTEGER)				
Test Step Group Ref:	SMS_Steps/				
Objective:	To set up a mobile originated SMS-PS connection till receipt of Service Request				
Defaults:	NAS_OtherwiseFail				
Comments:	MO SMS-PS connections are requested to be established via AT or MMI command. The mode indicates the type of SMS-PS activity to be performed. An MO RRC connection results.				

Nr	Label	Behaviour Description	Constraint Ref	Verdict	Comments
1		(tcv_CellInfoA.cellConfig := cell_DCH_StandAloneSRB_NoConn)			1. WA#SMS1073
2		+ts_SMS_SetupMO_Mode(p_Mode)			1.

4.7 ts_SMSPS_SetupMO_Part1/ASP Type (WA#SMS1040)

Test step name   ts_SMSPS_SetupMO_Part1
Reason for change   incorrect ASP type used for Service Request
Summary of change   ASP type used for Service Request corrected to RRC_DataInd
Source of change   New Change
Label   WA#SMS1040

| 4 | | Dc ? RRC_DataInd | car_PS_InitDirectTransfer(

tsc_CellDedicated,
tsc_RB3,
cr_ServiceRequest(
c_ServiceType_v(
'000'B),
c_MobileIdPTMSI_lv (
tcv_AssignedPTMSI),
tcv_PS_KeySeq)) | | 3.
WA#SMS1040 |

4.8 tc_16_2_10 (WA#SMS1037)

Test case name   tc_16_2_10
Reason for change   Initialization potentially incomplete for PS
Summary of change   Use ts_RRC_InitVariables, implying usage of tcv_RRC_EstCauMO and RLC_IncMode
Source of change   New Change
Label   WA#SMS1037

4		(tcv_RP_OrigAddrMT:='11111111111'O, tcv_TP_OrigAddr01:='5555555555'O)			
5		+ts_RRC_InitVariablesPS(cell_DCH)			WA#SMS1037
6		(tcv_CN_Domain :=ps_domain)			@sic EWER 1535 sic@

| tcv_RRC_EstCauMO | EstablishmentCause | originatingConversationalCall | To hold the establishment cause for MO call that is supported by UE. Assigned in ts_RRC_InitVariables.
WA#SMS1037 |

ASN.1 Type Definition	
Type Name:	RLC_IncMode
Group:	
Encoding Variation:	
Comments:	WA#SMS1037

Type Definition
ENUMERATED {notInc(0), inc(1)}

4.9 tc_16_2_10 (WA#SMS1030)

Test case name   tc_16_2_10
Reason for change   Incorrect ASP Type used
Summary of change   Use PS ASPs instead of CS ASPs
Source of change   New Change
Label   WA#SMS1030

lt_SMS_2					
19		Dc!RRC_DataReq	ca_PS_DataReq(tsc_CellDedicated, tsc_RB4, cs_CP_ACK(tcv_TI_1_S))		CPACK (n->ue) WA#SMS1030
20		Dc!RRC_DataReq (tcv_TI_1_R.tiVal := tcv_TI_1_S.tiV al) START t_Dly(tsc_TWait25Sec)	ca_PS_DataReq(tsc_CellDedicated, tsc_RB4, cs_CP_DATA_01(tcv_TI_1_S, cs_CP_UserData04(tcv_RP_MsgRef)))		CPDATA / RP_ACK (n-> ue) WA#SMS1030
21	TBF1	?TIMEOUT t_Dly		(F)	
22		+ts_RRC_ConnRel(tsc_CellA, cell_Dch)			
23	TBP1	Dc?RRC_DataInd CANCEL t_Dly	car_PS_UplinkDirectTran sfer(tsc_CellDedicated, tsc_RB4, cr_CP_ACK(tcv_TI_1_R))	(P)	CPACK (ue->n) WA#SMS1030

It_SMS_5					
24		Dc?RRC_DataInd(tcv_CP_Data := RRC_DataInd.ms g, tcv_TI_1_S.tiVal := tcv_CP_Data.ti. tiVal, tcv_RP_MsgRef := tcv_CP_Data.c P_UserData.rP_DATA.rP_MsgRef)	car_PS_UplinkDirectTrans fer(tsc_CellDedicated, tsc_RB4, cr_CP_DATA_03(cr_CP_UserData03(cr_RP_DATA_03)))		CPDATA / RP_DATA / S MS_SUBMIT (ue->n) WA#SMS1030
25		+It_TI1			
26		Dc!RRC_DataReq(tcv_CP_Data := RRC_DataReq.m sg, tcv_SM_Contents := tcv_CP_Data. cP_UserData.rP_DATA.rP_UserD ata_lv.tP_DELIVER.tP_UserData) START t_Dly(tsc_TWait25Sec)	ca_PS_DataReq(tsc_CellDedicated, tsc_RB4, cs_CP_DATA_01(tcv_TI_S, cs_CP_UserData01(tcv_TP_OrigAddr01, tcv_RP_OrigAddrMT, tcv_RP_MsgRef, tsc_Tzone4)))		CPDATA / RP_DATA / S MS_DELIVER (n->ue) WA#SMS1030
27	TBF2	?TIMEOUT t_Dly		(F)	
28		+ts_RRC_ConnRel(tsc_CellA, cell_Dch)			
29	TBP2	Dc?RRC_DataInd START t_Dly(tsc_TWait60Sec)	car_PS_UplinkDirectTrans fer(tsc_CellDedicated, tsc_RB4, cr_CP_ACK(tcv_TI_R))	(P)	CPACK (ue->n) WA#SMS1030
30	TBF3	?TIMEOUT t_Dly		(F)	
31		+ts_RRC_ConnRel(tsc_CellA, cell_Dch)			

32	TBP3	Dc?RRC_DataInd CANCEL t_Dly	car_PS_UplinkDirectTrans fer(tsc_CellDedicated, tsc_RB4, cr_CP_DATA_02(tcv_TI_R, cr_CP_UserData02(tcv_RP_MsgRef))	(P)	CPDATA / RP_ACK (ue- >n) WA#SMS1030
33		Dc!RRC_DataReq	ca_PS_DataReq(tsc_CellDedicated, tsc_RB4, cs_CP_ACK(tcv_TI_S))		CPACK (n->ue) WA#SMS1030

5 Branches executed in test case 16.2.10

The test case implementation executed with CS and PS activated, UE_OpMode A with Integrity activated, Ciphering disabled, AutoAttach off.

6 Execution Log Files

6.1 Nokia 3G UE 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 16_2_10_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 16_2_10-pics-pixit-Nokia.html**
  Text file containing all PICS/PIXIT parameters used for testing.

7 References

[1]   **T1s040318**
        This archive comprises HTML Execution log files, PICS/PIXIT files and the TTCN MP file

CR-Form-v7

CHANGE REQUEST

⌘	**TS 34.123-3** CR	**367**	⌘**rev**	**-**	⌘	Current version:	**3.5.1**	⌘

*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 NAS test case 9.4.2.4 proc 2 to NAS ATS V3.5.1 (revision of T1-040109)
Source: ⌘	Anritsu Limited
Work item code: ⌘ N/A	***Date:*** ⌘ 25/05/2004
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: ⌘	The cell selection quality meaurement parameter was wrongly set in SIB3. This causes errors in the UE in measuring the correct cell power levels for the reselection.
Summary of change: ⌘	cb_SIB3_DefUTRAN the cellSelectQualityMeasure is changed from cpich_Ec_N0 to cpich_RSCP.
Consequences if not approved: ⌘	Test case will fail.

Clauses affected: ⌘	N/A

	Y	N		
Other specs affected: ⌘		X	Other core specifications ⌘	
		X	Test specifications	
		X	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 9.4.2.4 proc 2 required for approval**
Source:	Anritsu Limited
Agenda Item:	TTCN Issues
Document for:	Approval
Contact:	Dan Fox
	dan.fox@eu.anritsu.com
	Tel. +44 1582 433200

1 Overview

This document lists all the changes needed to correct problems in the TTCN implementation of test case 9.4.2.4 proc 2 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).

2 Table of Contents

3 Verification Test Summary

Test Case: tc_9_4_2_4_2

ATS Version: iWD-TVB2003-03_D04wk17

Domain Tested: CS

Test Configuration: Integrity Enabled

Ciphering Disabled

pc_CS = TRUE

System Simulator used: Anritsu Protocol Test System MX785201A

UE used: Nokia 3G UE 7600

Verification Status: PASS

4 Corrections required for test case 9.4.2.4 proc 2

4.1 Introduction

The ATS version used as basis was NAS_wk17.mp which is part of the iWD-TVB2003-03_D04wk17 release. The agreed changes described in T1s040109 (the original CR to introduce this test case) have been implemented by MCC160 in iWD-TVB2003-03_D04wk17. This revised CR describes the additional changes made to iWD-TVB2003-03_D04wk17.

4.2 cb_SIB3_DefUTRAN

For cb_SIB3_DefUTRAN the cellSelectQualityMeasure is set to cpich_Ec_N0 instead of cpich_RSCP. This IE needs to match that sent in SIB11 (25.331 clause 10.3.2.3) which is cpich_RSCP. This causes a problem as all the parameters are not present for cpich_Ec_N0 which causes errors in measuring the correct cell power levels for the reselection. This will prevent Cell B from being seen as suitable for reselection.

Before:-

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
Constraint Value	
{	

```
sib4indicator TRUE,
cellIdentity INT_TO_BIT   ( p_CellInfoCfg.cellId , 28 ) ,
cellSelectReselectInfo   {
    mappingInfo OMIT,
    cellSelectQualityMeasure cpich_Ec_N0 :   { q_HYST_2_S 0 },
    modeSpecificInfo fdd :   {
        s_Intrasearch 8,
        s_Intersearch 8,
        s_SearchHCS OMIT,
        rat_List OMIT,
        q_QualMin -24,
        q_RxlevMin -40 --   (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,
        notBarred,
        notBarred,
        notBarred,
        notBarred,
        notBarred,
        notBarred,
        notBarred,
        notBarred,
        notBarred,
        notBarred,
        notBarred
    }
},
nonCriticalExtensions OMIT --@sic T1s-040086 sic@
}
```

After:-

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

Constraint Value

{
  sib4indicator TRUE,
  cellIdentity INT_TO_BIT   (p_CellInfoCfg.cellId , 28) ,
  cellSelectReselectInfo {
     mappingInfo OMIT,
     <mark>cellSelectQualityMeasure cpich_RSCP: NULL,</mark>
     modeSpecificInfo fdd : {
       s_Intrasearch 8,
       s_Intersearch 8,
       s_SearchHCS OMIT,
       rat_List OMIT,
       q_QualMin -24,
       q_RxlevMin -40 -- (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,
       notBarred,
       notBarred,
       notBarred,
       notBarred,
       notBarred,
       notBarred,
       notBarred,
       notBarred,
       notBarred,
       notBarred,
       notBarred
     }
  },
  nonCriticalExtensions OMIT --@sic T1s-040086 sic@
}

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CHANGE REQUEST

| ⌘ | **TS 34.123-3** CR | ³⁶⁸ ³⁶⁸ | ⌘**rev** | **-** ⌘ | Current version: | **3.5.1** ⌘ |

*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 12.4.2.5a.2 to NAS ATS V3.5.1
Source: ⌘	Rohde & Schwarz
Work item code:⌘	N/A	**Date:** ⌘	27/05/2004
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 verified GCF package 3 NAS test case 12.4.2.5a.2 to the approved NAS ATS V3.5.1
Summary of change:⌘	This document lists all changes applied to test case 12.4.2.5a.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

	Y	N		
Other specs ⌘		X	Other core specifications	⌘
affected:		X	Test specifications	
		X	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 12.4.2.5a.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 12.4.2.5a.2 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

3   Verification Test Summary

Test Case: TC_12_4_2_5a_2

Test Group: GMM/ Routing_Area_updating / Combined_RAU

ATS Version: iWD-TVB2003-03_D04wk20 + essential modifications

System Simulator used: Rohde & Schwarz 3G system simulator CRTU-W

UE used: Nokia 3G UE 7600

Verification Status: PASS

4   Corrections required for test case 12.4.2.5a.2

4.1   Introduction

This section describes the changes required to make test case 12.4.2.5a.2 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_wk20.mp which is part of the iWD-TVB2003-03_D04wk20 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 12.4.2.5a.2:

   WA#NAS4453

4.2   tc_12_4_2_5a_2

4.2.1   WA#NAS4525

Test step name	tc_12_4_2_5a_2 : lt_TestBody
Reason for change	As UE is already Switched on, an alternative test step needs to take care of Registration on CS domain.
Summary of change	Replaced "ts_GMM_TriggerPSRegistrationAtSwitchOn_NMO_I" with "lt_GMM_TriggerPSRegistration_NMO_I"
Source of change	New change
Label	WA#NAS4525

17	+ts_CS_Paging_TMSI (tsc_CellB, terminatingConversational Call)		Step 15 @sic VB ER1568 sic@
18	+ts_VerifyNoAccess (3)		Step 16
19	+ ts_MM_PwrOrUSIM_Off (TRUE)		Step 17 If possible USIM removal is performed. Otherwise if possible switch off is performed. Otherwise the power is removed @sic VB USIM removal sic@
20	+ ts_MM_PwrOrUSIM_On (TRUE)		@sic VB USIM removal sic@
21	+lt_GMM_TriggerPSRegistration_NMO_I		Steps 18a-19a WA#NAS4525
22	+lt_Attach_Steps_20To22		
23	+ts_CS_Paging_TMSI (tsc_CellB, terminatingConversationalCall)		Step 23
24	+ts_CS_PagingResp (tsc_CellB, terminatingConversationalCall)		Step 27

…

lt_GMM_TriggerPSRegistration_NMO_I			
34	+ts_RRC_ConnEst(tsc_CellB, est_Reg, registration)		Attempt registration on Cell D
35	[pc_AutomaticAttachSwitchON = TRUE]		Do nothing, the UE will automatically start PS registration
36	[TRUE]		UE will first perform CS registration, and then the user should trigger it to perform PS registration
37	+ts_RegistrationOnCS_IfOpModeA (tsc_CellB, px_TMSI_Def)		
38	+ts_RRC_ConnRel(tsc_CellB, cell_Dch)		
39	START t_WaitS (1)		Wait 1 s to allow UE to relax
40	?TIMEOUT t_WaitS		
41	+ts_AT_TriggerGMM_Attach		trigger UE to initiate GMM Attach
42	+ts_RRC_ConnEst(tsc_CellB, est_Reg, registration)		Establish RRC connection

4.2.2   WA#NAS4361

Test step name	tc_12_4_2_5a_2 : lt_RAUpdRej_Steps_9To10
Reason for change	As TMSI has already been alocated to the UE, No TMSI_Status info should be expected
Summary of change	Replaced wildcard '*' with '-' (omit) for parameter "p_TMSIStatus"
Source of change	New change
Label	WA#NAS4361

It_RAUpdRej_Steps_9To10			
40	+ts_RRC_ConnEst(tsc_CellB, est_Reg, registration)		
41	Dc ? RRC_DataInd (tcv_Start := RRC_DataInd.start)	car_PS_InitDirectTransfer(tsc_CellDedic ated, tsc_RB3, cbr_RA_UpdReq_3 (c_GMM_UpdateTypeCombRA_LA, c_RAI_v (tcv_CellInfoA.mcc, tcv_CellInfoA.mnc, tcv_CellInfoA.lac, tcv_CellInfoA.rac), c_PTMSI_Signature (px_PTMSI_Sig2), -, tcv_PS_KeySeq, c_MobileIdPTMSI (px_PTMSI_2)))	Step 9. ROUTING AREA UPDATING REQUEST - Update type 'Combine d LA/RA updating' - RAI-2 (corresponding to cell A) - P-TMSI-2 signature - Mobile Id = P-TMSI-2 WM#NAS4448
42	+ ts_SS_SecurityDownloadStart (ps_domain, tcv_Start)		
43	Dc ! RRC_DataReq	ca_PS_DataReq(tsc_CellDedicated, tsc_ RB3, cs_RA_UpdRej ('0D'O))	Step 10. ROUTING ARE A UPDATING REJECT - cause = 'Roaming not allowed in this area'
44	+ts_RRC_ConnRel(tsc_CellB, cell_Dch)		

5 Branches executed in test case 12.4.2.5a.2

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

6 Execution Log Files

6.1 Nokia 3G UE 7600

The Nokia 3G UE 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_2_5a_2_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_4_2_5a_2-pics-pixit-Nokia.txt**
  Text file containing all PICS/PIXIT parameters used for testing.

7 References

[1]   T1s040338
        This archive comprises HTML Execution log files, PICS/PIXIT files and the TTCN MP file

CR-Form-v7

CHANGE REQUEST

| ⌘ | **TS 34.123-3 CR** | 369 | ⌘**rev** | **-** | ⌘ | Current version: | **3.5.1** | ⌘ |

*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:	⌘	Revised CR for addition of GCF P3 test case 8.2.4.1a to RRC ATS V3.5.1
Source:	⌘	Rohde & Schwarz
Work item code: ⌘	N/A	**Date:** ⌘ 07/06/2004

Category: ⌘	**B**	**Release:** ⌘ R99

Use one 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 one 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 3 RRC test case 8.2.4.1a to the approved RRC ATS V3.5.1
Summary of change: ⌘	This document lists all changes applied to test case 8.2.4.1a 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:	⌘	Y	N		⌘	
			X	Other core specifications	⌘	
		X		Test specifications		See Prose CR T1 -041002
			X	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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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 8.2.4.1a 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 8.2.4.1a 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.

2 Table of Contents

3 Verification Test Summary

Test Case: TC_8_2_4_1a

Test Group: RRC/ RRC_TrCH_ReConf/

ATS Version: iWD-TVB2003-03_D04wk20 + essential modifications

System Simulator used: Rohde & Schwarz 3G system simulator CRTU-W

UE used: Nokia 7600 & Motorola A835

Verification Status: PASS

4 Corrections required for test case 8.2.4.1a

4.1 Introduction

This section describes the changes required to make test case 8.2.4.1a 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_wk20.mp which is part of the iWD-TVB2003-03_D04wk20 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 8.2.4.1a:

WA#RRC4339.

4.2 c_TFCS_Cmpl0_To8 (WA#RRC4480)

Test step name	c_TFCS_Cmpl0_To8
Reason for change	According to the prose the use of Max rate TFCI must be restricted, i.e [TF4,TF0] & [TF4,TF1]
Summary of change	Removed "ctfc 4" from the original constraint.
Source of change	New change
Label	WA#RRC4480

ASN.1 Type Constraint Declaration	
Constraint Name:	c_TFCS_Cmpl0_To8 (p_PowerOffsetInformation : PowerOffsetInformation)
Group:	
Type Name:	TFCS
Derivation Path:	
Encoding Variation:	
Comments:	TFCS information with power offset information @sic OG 16/03/04 T1S040217 sic@. WA#RRC4480

Constraint Value

```
normalTFCI_Signalling: complete: {
 ctfcSize ctfc4Bit:{
  {
   ctfc4 0,
   powerOffsetInformation c_PowerOffsetInfoComputed
  },
  {
   ctfc4 1,
   powerOffsetInformation c_PowerOffsetInfoComputed
  },
  {
   ctfc4 2,
   powerOffsetInformation c_PowerOffsetInfoComputed
  },
  {
   ctfc4 3,
   powerOffsetInformation c_PowerOffsetInfoComputed
  },
  {
   ctfc4 5,
   powerOffsetInformation c_PowerOffsetInfoComputed
  },
  {
   ctfc4 6,
   powerOffsetInformation c_PowerOffsetInfoComputed
  },
  {
   ctfc4 7,
   powerOffsetInformation c_PowerOffsetInfoComputed
  },
  {
   ctfc4 8,
   powerOffsetInformation c_PowerOffsetInfoComputed
  } }}
```

4.3   c_DCH_336_148_UL_Info_TFCS (WA#RRC4479)

Test step name   c_DCH_336_148_UL_Info_TFCS

Reason for change   To use the constraint c_TFCS_Cmpl0_To8 for Uplink

Summary of change	Created a new constraint to apply the TFCS restriction for Uplink
Source of change	New change
Label	WA#RRC4479

ASN.1 Type Constraint Declaration	
Constraint Name:	c_DCH_336_148_UL_Info_TFCS (p_ActTime : ActivationTime)
Group:	
Type Name:	CphyTrchConfigReq
Derivation Path:	
Encoding Variation:	
Comments:	WA#RRC4479

Constraint Value

{
  activationTime activationCFN : p_ActTime,
  ulconnectedTrCHList {
   { trchid tsc_UL_DCH1,
    ul_TransportChannelType dch,
    transportChannelInfo c_DCH_336_TFS},
   { trchid tsc_UL_DCH5,
    ul_TransportChannelType dch,
    transportChannelInfo c_DCH_148_TFS_UL }
  },
  ulTFCS c_TFCS_Cmpl0_To8(c_PowerOffsetInfoHigher64k), -- sent to SS
  dlconnectedTrCHList OMIT,
  dlTFCS OMIT
}

4.4 c_TrChInfoUL_336_148_TFCS (WA#RRC4481)

Test step name	c_TrChInfoUL_336_148_TFCS
Reason for change	To use the constraint c_TFCS_Cmpl0_To8 for Uplink
Summary of change	Created a new constraint to apply the TFCS restriction for Uplink
Source of change	New change
Label	WA#RRC4481

ASN.1 Type Constraint Declaration	
Constraint Name:	c_TrChInfoUL_336_148_TFCS
Group:	
Type Name:	TrCHInfo
Derivation Path:	
Encoding Variation:	
Comments:	WA#RRC4481

Constraint Value

{
 ulconnectedTrCHList {
  { trchid tsc_UL_DCH1,
    transportChannelInfo c_DCH_336_TFS },
  { trchid tsc_UL_DCH5,
    transportChannelInfo c_DCH_148_TFS_UL }},
  ulTFCS c_TFCS_Cmpl0_To8 (c_PowerOffsetInfoHigher64k)-- sent to SS
 }

4.5 cds_TrChReconf64k_PS_TFCS_UL (WA#RRC4482)

Test step name   cds_TrChReconf64k_PS_TFCS_UL

Reason for change   Prose CR raised T1-041002

Summary of change   Modified the constraint to change the UL TFCS.

Source of change   New change

Label   WA#RRC4482

ASN.1 PDU Constraint Declaration	

Constraint Name:	cds_TrChReconf64k_PS_TFCS_UL (
	    p_IntegrityCheckInfo : IntegrityCheckInfo;
	    p_RRC_TI : RRC_TransactionIdentifier;
	    p_Act_time : ActivationTime ;
	    p_FreqInfo : FrequencyInfo;
	    p_PrimaryScramblingCode : PrimaryScramblingCode;
	    p_UL_ScramblingCode : UL_ScramblingCode
	  )

Group:	
PDU Name:	DL_DCCH_Message
Derivation Path:	cbs_108_TrChReconf64k_PS.
Encoding Rule Name:	
Encoding Variation:	
Comments:	@SIC_NAPP. WA#RRC4482

```
                                         Constraint Value
REPLACE message.transportChannelReconfiguration.r3.transportChannelReconfiguration_r3.ul_CommonTransChInfo BY
{
 tfc_Subset OMIT,
 prach_TFCS OMIT,
 modeSpecificInfo fdd:{
  ul_TFCS normalTFCI_Signalling: complete: {
   ctfcSize ctfc4Bit:{
    {
     ctfc4 0,
     powerOffsetInformation c_PowerOffsetInfoComputed
    },
    {
     ctfc4 1,
     powerOffsetInformation c_PowerOffsetInfoComputed
    },
    {
     ctfc4 2,
     powerOffsetInformation c_PowerOffsetInfoComputed
    },
    {
     ctfc4 3,
     powerOffsetInformation c_PowerOffsetInfoComputed
    },
    {
     ctfc4 5,
     powerOffsetInformation c_PowerOffsetInfoComputed
    },
    {
     ctfc4 6,
     powerOffsetInformation c_PowerOffsetInfoComputed
    },
    {
     ctfc4 7,
     powerOffsetInformation c_PowerOffsetInfoComputed
    },
    {
     ctfc4 8,
     powerOffsetInformation c_PowerOffsetInfoHigher64k
    }  }  } }},
REPLACE message.transportChannelReconfiguration.r3.transportChannelReconfiguration_r3.ul_AddReconfTransChInfoList BY OMIT,
REPLACE message.transportChannelReconfiguration.r3.transportChannelReconfiguration_r3.dl_CommonTransChInfo BY OMIT,
REPLACE message.transportChannelReconfiguration.r3.transportChannelReconfiguration_r3.dl_AddReconfTransChInfoList BY OMIT
Detailed Comment:
```

4.6   tc_8_2_4_1a (WA#RRC4474)

Test step name	tc_8_2_4_1a
Reason for change	The UL TFC is restricted in +ts_SS_ModifyDL_DCH_TFCS_0_To8_PS (tsc_CellA), therefore this test step is not required.
Summary of change	Removed the test step +ts_SS_TFC_Restriction (tsc_CellDedicated, c_TFC_Allowed_0_1_2_3_4_5_6_7_8, c_TFC_AllowedFull)]
Source of change	New change
Label	WA#RRC4474

4.7   tc_8_2_4_1a (WA#RRC4483)

Test step name	tc_8_2_4_1a
Reason for change	Prose CR raised T1-041002
Summary of change	Used the new Transport Channel Reconfiguration constraint.

cds_TrChReconf64k_PS_TFCS_UL

Source of change	New change
Label	WA#RRC4483

4.8 tc_8_2_4_1a (WA#RRC4484)

Test step name	tc_8_2_4_1a
Reason for change	To Test that the UE does not send the data using Max TFC
Summary of change	Changed the data size to 1280
Source of change	New change
Label	WA#RRC4484

4.9 Ts_SS_ModifyDL_DCH_TFCS_0_TO_8_PS (WA#RRC4478)

Test step name	Ts_SS_ModifyDL_DCH_TFCS_0_TO_8_PS
Reason for change	According to the new Transport channel reconfiguration message the UL TFCS is modified,therfore the local config

is modified accordingly.

Summary of change	Modified the test step to change the UL TFCS in the local configuration (c_DCH_336_148_UL_Info_TFCS) and to use the standard 64K configuration for DL(c_DCH_336_148_DL_Info)
Source of change	New change
Label	WA#RRC4478

Test Step				
Test Step Id:	ts_SS_ModifyDL_DCH_TFCS_0_To8_PS (p_CellId:INTEGER)			
Test Step Group Ref:	RRC_SS_Specific'			
Objective:	To Configure the new DL TFCS from 0_9 to 0_8 in SS.			
Defaults:	SS_Def			
Comments:	@sic OG 16/03/04 T18040217 sic@ WA#RRC4478			

..	L..	Behaviour Description	Constraint Ref	..	Comments
1		+ ts_SetTmpCellInfo (p_CellId)			
2		+ts_SS_2DCH_Modify (p_CellId, c_DCH_336_148_UL_Info_TFCS (tcv_ActTime), c_DCH_336_148_DL_Info(tcv_ActTime) , c_TrChInfoUL_336_148_TFCS, c_TrChInfoDL_336_148, c_TrLogMappingUL_4DCCH_1DTCH_PS, c_TrLogMappingDL_4DCCH_1DTCH_PS, tcv_ActTime, cb_DL_DPCH_64K_PS (c_DL_CommonInformationRB_SetUp (tsc_DL_DPCH1_SFP_64k_PS), tcv_CellInfoA.dl_DPCH_2ndScrCode), cb_UL_DPCH_Info (tsc_UL_DPDCH_SF_64k_PS, pI0_96, tcv_TmpCellInfo.uL_ScramblingCode))			

Branches executed in test case 8.2.4.1a

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

5 Execution Log Files

5.1 Nokia 3G Ue 7600

The Nokia 3G UE 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 8_2_4_1a_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 8_2_4_1a-pics-pixit-Nokia.html**
  Text file containing all PICS/PIXIT parameters used for testing.

5.2 Motorola 3G UE A835

The Motorola 3G UE A835 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_4_1a_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 8_2_4_1a-pics-pixit-Motorola.html**
  Text file containing all PICS/PIXIT parameters used for testing.

6 References

[1]   T1s040340
This archive comprises HTML Execution log files, PICS/PIXIT files and the TTCN MP file

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CHANGE REQUEST

⌘ **34.123-3 CR** ³⁷⁰ ⌘**rev** **-** ⌘ Current version: **3.5.1** ⌘

*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 **X** Radio Access Network ☐ Core Network ☐

Title: ⌘	Revised CR for Addition of P2 test case 6.2.1.1 to IR_U ATS v3.5.1 (Revision of T1s040325)
Source: ⌘	Racal Instruments Wireless Solutions, an Aeroflex Company
Work item code: ⌘	TEI ***Date:*** ⌘ 7/06/2004

Category: ⌘ **B**	***Release:*** ⌘ Rel-5

Use one 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 one 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 2 Idle Mode test case 6.2.1.1 to the approved ATS v 3.5.1 and to formally state that the test case has been tested using iWD-TVB2003-03_D04wk23 and outstanding comments have been resolved.
Summary of change: ⌘	This document lists all changes applied to test case 6.2.1.1 required for approval. See detailed change description for further information.
Consequences if not approved: ⌘	The test case will not be added to ATS.

Clauses affected: ⌘	6.2.1.1

	Y	N		
Other specs affected: ⌘		X	Other core specifications ⌘	
	X		Test specifications	34.123-3
		X	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 6.2.1.1 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 6.2.1.1, which is part of IR_U_wk23 test suite. Minimum changes are made so that it can be executed with one or more 3G UE.

2 Table of Contents

3   Verification Test Summary

Test Case: tc_6_2_1_1

Test Group: IR_U_wk23/ DualIdleMode /

ATS Version: IR_U_wk23 + modifications

System Simulator used: Racal Instruments Wireless Solution 6401 AIME/CT ISHO

UE used: Nokia 3G UE 7600, Qualcomm 6200

Verification Status: PASS

4   Corrections required for test case 6.2.1.1

4.1   Introduction

This documents lists the changes made to test case 6_2_1_1 to make it work with 3G UE. The changes made are given a change label and are explained in the following session.

The TTCN ATS used is IR_U_wk23.mp which is part of the iWD-TVB2003-03_D04wk23 release. The agreed changes/comments described in T1s040325, (the original CR to introduce this test case), have been implemented by MCC160 in iWD-TVB2003-03_D04wk23. In addition, one minor change is made to iWD-TVB2003-03_D04wk23 as below in section 4.3.1.

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	*tc_6_2_1_1*
Reference ATS	*IR_U_wk23.mp*
Change Label	*RACAL#IR_U0101*
Reason for change	*<Textual description of change reason>*.
Summary of change	*<Textual description of performed changes>*
Other affected objects	*< other fields affected>* (optional)
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_U'*, 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 ts_GSM_RegistrationWithoutRRConreq

TTCN object	ts_GSM_RegistrationWithoutRRConreq
Reference ATS	IR_U_wk23.mp [1]
Change Label	RACAL#IR_U_0101
Reason for change	As per 10.5.2.30 of 44.018 the RFN value passed to the UE in Immediate Assignment should be same as the RFN on which Channel Request was received.
Summary of change	Changed the paramter to the constraint cs_ImmediateAssignment from c_G_RFN_Omit to tcv_RR_RFN
Other affected objects	
ETSI comment	
Racal conclusion	

4.4   Changes referred to from previous CRs

N/A

5 Branches executed in test case 6.2.1.1

Test case was executed with pc_AccessTechPriSuppInHPLMNwACT set to FALSE.

6 Execution Log Files

The Nokia 3G UE 7600 and Qualcomm 6200 passed this test case in CS mode on the Racal Instruments Wireless Solution 6401 AIME/CT ISHO Test platform. Logs of the successful test case execution are available on request directly from Racal Instruments.

7 References

[1]   IR_U_wk23.mp
           ETSI IR_U_wk23 ATS version of week 23.

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CHANGE REQUEST

| ⌘ | **TS 34.123-3 CR** | 371 | ⌘ **rev** | - | ⌘ | Current version: | **3.5.1** | ⌘ |

*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 **X** Radio Access Network ☐ Core Network ☐

Title: ⌘	Revised CR for Addition of P2 test case 6.2.1.6 to IR_U ATS v3.5.1 (Revision of T1s040327)
Source: ⌘	Racal Instruments Wireless Solutions, an Aeroflex Company
Work item code: ⌘	TEI **Date:** ⌘ 7/06/04
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 2 Idle Mode test case 6.2.1.6 to the approved ATS v 3.5.1 and to formally state that the test case has been tested using iWD-TVB2003-03_D04wk23 and outstanding comments have been resolved.
Summary of change: ⌘	This document lists all changes applied to test case 6.2.1.6 required for approval. See detailed change description for further information.
Consequences if not approved: ⌘	The test case will not be added to ATS.

Clauses affected: ⌘	6.2.1.6

	Y	N		
Other specs affected: ⌘		X	Other core specifications ⌘	
	X		Test specifications	34.123-3
		X	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 6.2.1.6 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 6.2.1.6, which is part of IR_U_wk23 test suite. Minimum changes are made so that it can be executed with one or more 3G UE.

2 Table of Contents

3   Verification Test Summary

Test Case: tc_6_2_1_6

Test Group: IR_U_wk23/ DualIdleMode /

ATS Version: IR_U_wk23 + modifications

System Simulator used: Racal Instruments Wireless Solution 6401 AIME/CT ISHO

UE used: Nokia 3G UE 7600 and Qualcomm 6200

Verification Status: PASS

4   Corrections required for test case 6.2.1.6

4.1   Introduction

This documents lists the changes made to test case 6_2_1_6 to make it work with 3G UE. The changes made are given a change label and are explained in the following session.

The TTCN ATS used is IR_U_wk23.mp which is part of the iWD-TVB2003-03_D04wk23 release. The agreed changes/comments described in T1s040327, (the original CR to introduce this test case), have been implemented by MCC160 in iWD-TVB2003-03_D04wk23.

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	*tc_6_2_1_6*
Reference ATS	*IR_U_wk23.mp [1]*
Change Label	*RACAL#IR_U_0101*
Reason for change	*<Textual description of change reason>.*
Summary of change	*<Textual description of performed changes>*
Other affected objects	*< other fields affected>* (optional)
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_U'*, 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

N/A

4.4 Changes referred to from previous CRs

Change Label	Change title
RACAL#IR_U_0101 [T1s040345]	ts_GSM_RegistrationWithoutRRConreq

5   Branches executed in test case 6.2.1.6

Test case was executed with pc_AccessTechPriSuppInHPLMNwACT set to FALSE.

6   Execution Log Files

The Nokia 3G UE 7600 and Qualcomm 6200 passed this test case in CS mode on the Racal Instruments Wireless Solution 6401 AIME/CT ISHO Test platform. Logs of the successful test case execution are available on request directly from Racal Instruments.

7   References

[1]   IR_U_wk23.mp
             ETSI IR_U_wk23 ATS version of week 23.

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CHANGE REQUEST

⌘	**34.123-3**	CR	**372**	⌘**rev**	**-**	⌘	Current version:	**3.5.1**	⌘

*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 8.4.1.40 to RRC ATS V3.5.1

Source:	⌘ Rohde&Schwarz

Work item code: ⌘	N/A		**Date:** ⌘	16/06/04

Category:	⌘	**B**		**Release:** ⌘	R99

Use one 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 3GPPTR 21.900.

Use one 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 3 RRC test case 8.4.1.40 to the approved RRC ATS V3.5.1

Summary of change: ⌘	This document lists all changes applied to test case 8.4.1.40 required for approval.

Consequences if not approved:	⌘ The Test case will not be added to the ATS

Clauses affected:	⌘ N/A

		Y	N		
Other specs affected:	⌘		X	Other core specifications	⌘
			X	Test specifications	
			X	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 8.4.1.40 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 new CR on RRC test case 8.4.1.40. It lists all the changes needed to correct problems in the TTCN implementation of test case 8.4.1.40 which is part of the RRC test suite.

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

3   Verification Test Summary

Test Case: tc_8_4_1_40

Test Group: RRC_Measurements/

ATS Version: IR_U_wk23.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 8.4.1.40

4.1   Introduction

This CR presents RRC_Measurements test case tc_8_4_1_40 for approval.

The last ATS provided by MCC160 which contains GCF package 1 to 3 RRC_Measurements test cases is IR_U_wk23.mp [2]. The ATS enclosed in T1s040353.zip [1], specifying the modified test case tc_8_4_1_40 presented for approval, contains only material from this ATS.

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

   a) If the changes are explicitly described in this CR, and the related TTCN objects **are contained** in IR_U_wk23.mp [2], the change description refers to this ATS;

   b) All other change labels (if present) refer to proposals for new TTCN Objects.

The reference ATS from which the object has been taken and to which the described change refers, is indicated for each TTCN object to be changed. Annex A contains a table listing all change label/affected object combinations, as well as their reference ATSs.

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	tc_8_4_1_40
Reference ATS	IR_U_wk23.mp [2]
Change Label	WA#2G3RRC0110
Reason for change	<Textual description of change reason>.
Summary of change	<Textual description of performed changes>
Other affected objects	<GOTO fields to other change descriptions> (optional)
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_4_1_40 behaviour table

4.3.1 tc_8_4_1_40

TTCN object	tc_8_4_1_40
Reference ATS	IR_U_wk23.mp [2]
Change Label	WA#2G3RRC0287
Reason for change	Wrong CellId (tsc_CellDedicated) in CPHY_RL_Modify_REQ.
Summary of change	Replace tsc_CellDedicated by tsc_CellA.
Other affected objects	
ETSI comment	
Change Label	WA#2G3RRC0288
Reason for change	The reconfiguration of the physical layer on SS is not synchronized with the reconfiguration on the UE side, therefore SS and UE will go out of syncronization.
Summary of change	In constraint c_DPCH_CompressedModeStatusInfoActive_TGPSIList used for CPHY_RL_Modify_REQ, change actual value for parameter tgps_Reconfiguration_CFN from OMIT to tcv_TGPSRFCN.
Other affected objects	
ETSI comment	
Change Label	WA#2G3RRC0289
Reason for change	The TC sends CPHY_RL_Modify_REQ but cannot receive CPHY_RL_Modify_CNF; moreover on the SS side the compressed modes for uplink and/or downlink are not activated according to the PIXIT settings.
Summary of change	Add a line for the reception of CPHY_RL_Modify_CNF, make activation of compressed mode for uplink and/or downlink on SS side dependent on the PIXIT settings.
Other affected objects	
ETSI comment	
Change Label	WA#2G3RRC0290
Reason for change	In lt_Step2_To4_WithCompMode tcv_TGPSRFCN is not initialized according to TS 34.123-1.
Summary of change	Assigned proper value to tcv_TGPSRFCN according to TS 34.123-1.
Other affected objects	
ETSI comment	
Change Label	WA#2G3RRC0299
Reason for change	The wait timer is initialized to 160 ms instead of 1.6 s as the prose demands, therefore the UE does not get sufficient time to send a measurement report.
Summary of change	Change timeout value from 160 to 1600.
Other affected objects	
ETSI comment	
R&S conclusion	

		Test Case			

Test Case Id:	tc_8_4_1_40
Test Group Reference:	RRC_Measurements\
Purpose:	This test case is applicable to only UEs supporting both FDD and GSM, and which require compressed mode to perform the GSM related measurements.
	1. To verify that the UE performs Inter-RAT measurement using a sparse compressed mode pattern as specified in the MEASUREMENT CONTROL message.
	2. To verify that the UE send MEASUREMENT REPORT message when event 3C is triggered, and if the quality of the other system becomes better than the given threshold for event 3c.
	3. To confirm that no other UE MEASUREMENT REPORT message is sent by the UE for a cell that has already triggered event 3c as long as the hysteresis condition for triggering once again even 13c has not been fulfilled.
Configuration:	
Defaults:	RRC_Deft
Comments:	@tsc_NAPP

Nr	Label	Behaviour Description	Constraint Ref	V.	Comments
1		START t_Guard			
2		[px_RAT=fdd]			FDD specific behaviour
3		+it_InitVariables			
4		+ts_SS_CreateCellDCH(tsc_CellA)			Configure lower tester for cell B
5		+ts_SendDef_sysinfo_MultiCell (tsc_CellA)			Sends the default system information in CellB
6		+ts_CreateCell_GSM(tsc_GSM_CellA)			
7		(tx_SI2qualInfRO := c_SI2qualInfROCT8, i_SI2qualdx_3G_1NCell(INT_TO_BIT(tcv_CellInfoA. frequencyInfo. modeSpecificInfo.fdd.uarfcn_DL, 14), INT_TO_BIT(tcv_CellInfoA.priScrmCode, 10), t_T9, i_SI2qualxMeasParamx3G_Meas(tsc_G_QGsmcit_t_100E9, '800'B), t9, OMIT)			@tsc_Thomas ER7777 tsc@
8		+ts_SendGSMSysInfo(tsc_GSM_CellA,tsc_PhyCh0,gsmonly,bcch,si2quater)			@tsc_Thomas ER7777 tsc@
9		+ts_CreateCell_GSM(tsc_CellB)			
10		+ts_SendGSMSysInfo(tsc_GSM_CellB,tsc_PhyCh0,gsmonly,bcch,si2quater)			@tsc_Thomas ER7777 tsc@
11		+ts_IdleUpdated (tsc_CellA)			Idle Update and bring UE to cell_Dch state and release the connection again
12		+ts_ToStateMO_CS_8_8_PS_8_19Or6_11 (tsc_CellA)			
13		+it_TestBody			
14		+po_ConnectionAndSS_Rels			To release all the configured but not released cells
15		+it_PO_0_SS_Releases			To release all the configured but not released GSM cells
16	ERR1	[px_RAT=tdd]			TDD specific behaviour
17	ERR2	[TRUE]			
it_ToStateBody					
18	TB5	(tcv_TestBody = TRUE)			
19		+ts_CalculateAdTime (tsc_CellA)			
20		+it_Step2_To4_WithCompMode			
21		START t_WaitMS (10 * 1000)			Initialize the wait timer to 10 seconds
22	TBF1	AM ?RLC_AM_DATA_IND	car_MeasurementReport(tsc_CellDedicated, tsc_RB2, cr_MeasReportInterRatMeas (*,*,*,*,*))	(F)	If report comes in this interval it fails
23	TBP1	? TIMEOUT t_WaitMS		(P)	
24		(tcv_G_CellInfoA.downlinkPowerLevel := tsc_G_DL_PowerLevel_39EMF)			Step 6 in proce; Initialize parameters such that power levels at time T1 can be configured
25		+ts_GSM_SetChPowerLevel(tsc_GSM_CellA, tsc_PhyCh0, tcv_G_CellInfoA.downlinkPowerLevel)			Changing the power level of GSM cell A as given in Table at time T1
26		(tcv_Tolerance := (2 * 48) + 55)			
27		START t_WaitMS (1600 + tcv_Tolerance)			Initialize the wait timer to 160ms seconds. W#2G3RRC0299
28	TBF2	? TIMEOUT t_WaitMS		(F)	
29		+it_CheckReportForMultiCell			Step 7 in proce
30		(tcv_G_CellInfoA.downlinkPowerLevel := tsc_G_DL_PowerLevel_33EMF)			Step 8 in proce; Initialize parameters such that power levels at time T2 can be configured.
31		+ts_GSM_SetChPowerLevel(tsc_GSM_CellA, tsc_PhyCh0, tcv_G_CellInfoA.downlinkPowerLevel)			Changing the power level of GSM cell A as given in Table at time T2
32		(tcv_G_CellInfoA.downlinkPowerLevel := tsc_G_DL_PowerLevel_38EMF)			Step 8 in proce; Initialize parameters such that power levels at time T3 can be configured.
33		+ts_GSM_SetChPowerLevel(tsc_GSM_CellA, tsc_PhyCh0, tcv_G_CellInfoA.downlinkPowerLevel)			Changing the power level of GSM cell A as given in Table at time T3
34		START t_WaitMS (10 * 1000)			Initialize the wait timer to 10 seconds
35	TBF3	AM ?RLC_AM_DATA_IND	car_MeasurementReport(tsc_CellDedicated, tsc_RB2, cr_MeasReportInterRatMeas (*,*,*,*,*))	(F)	If report comes in this interval it fails
36	TBP3	? TIMEOUT t_WaitMS		(P)	
37		+ts_C1_CheckCellDCH (tsc_CellA)			Step 11 in proce; Note : Dummy step used
38	TBE	(tcv_TestBody := FALSE)		(P)	
it_InitVariables					
39		+ts_RRC_InitVariablesCS			
40		+ts_GSM_InitVariables_TwoCells			Initialises the Variables depending on the GSM Band under usage For all Cells.
41		(tcv_CellInfoA := c_CellInfoDeft (tsc_CellA, px_PriScrmCode, tsc_URA_IdCellA, tsc_CRNTI, px_TCellA, tsc_SFN_OffsetA, tcv_FreqInfoMid, px_UL_ScramblingCode ()			
42		(tcv_CellInfoA.attenuationLevel := tcv_CellInfoA.powerpCPICH+60)			
43		(tcv_G_CellInfoA.ncc:=tsc_MCC_PLMN1,tcv_G_CellInfoA.mnc:=tsc_MNC_PLMN1,tcv_G_CellInfoA.lac:=tsc_LAC_PLMN1,tcv_G_CellInfoA.downlinkPowerLevel:=tsc_G_DL_PowerLevel_33EMF, tcv_G_CellInfoA.ncc:=tsc_NCC_0, tcv_G_CellInfoA.bcc:=tsc_BCC_1)			Initialize GCELL A Variable as the test case demands; @tsc_Thomas ER 1899 tsc@
44		(tcv_G_CellInfoB.mcc:=tsc_MCC_PLMN2,tcv_G_CellInfoB.mnc:=tsc_MNC_PLMN2,tcv_G_CellInfoB.lac:=tsc_LAC_PLMN2,tcv_G_CellInfoB.downlinkPowerLevel:=tsc_G_DL_PowerLevel_33EMF, tcv_G_CellInfoB.ncc:=tsc_NCC_0, tcv_G_CellInfoB.bcc:=tsc_BCC_2)			Initialize GCELL B Variable as the test case demands; @tsc_Thomas ER 1899 tsc@
it_PO_0_SS_Releases					
45		+po_GSM_SS_CellRelease(tsc_GSM_CellA)			G cell A switched off
46		+po_GSM_SS_CellRelease(tsc_GSM_CellB)			G cell B switched off
it_CheckReportForMultiCell					
47		AM ?RLC_AM_DATA_IND	car_MeasurementReport(tsc_CellDedicated, tsc_RB2, cr_MeasReportInterRatMeas (3 , OMIT, verifiedBSIC : tsc_GSM_InterRAT_CellA, verifiedBSIC : tsc_GSM_InterRAT_CellB, c_InterRATMeas_EventResults3a_3b_3c_3d(e3c , tsc_GSM_InterRAT_CellA))	(P)	Step 7 in proce
48		CANCEL t_WaitMS			

49	AM↑RLC_AM_DATA_IND	csr_MeasurementReport (tsc_CellDedicated, tsc_RB2, cr_MeasReportInterRatMeas (3 , OMIT, verifiedD2IC: tsc_GSM_InterRAT_CellID, verifiedD2IC: tsc_GSM_InterRAT_CellA, c_InterRATMeas_EventResults3a_3b_3c_3d(s3c , tsc_GSM_InterRAT_CellA())	(P) Step 7 in prose
50	CANCEL t_WaitMS		
t_PhyChReconf_CompressedModeActivate			
51	[((pc_InterRAT_DL_CompressedModeRequired) AND (pc_InterRAT_UL_CompressedModeRequired)]		
52	AM↑RLC_AM_DATA_REQ	csd_PhyChReconf (tsc_CellDedicated, tsc_RB2, cds_PhyChReconfSpeechEvent3cCompModeDL_UL (tcv_CellIndInfo.dl_IntegrityCheckInfo, tcv_RRC_TI, tcv_ActTime, tcv_CellInfoA.frequencyInfo, tcv_CellInfoA.priScrmCode, tcv_CellInfoA.sl_ScramblingCode) }	Step 2 in prose; SS sends physical Channel Reconfiguration message
53	CPHY↑CPHY_RL_Modify_REQ	ca_CompressedModeDPCH_Info_REQ (tsc_CellA, tsc_DL_DPCH1 , tcv_ActTime, c_DPCHInfo_DL (c_DL_DPCHInfo (c_DL_CommonInformation_Event3cCompMode(DL_UL (tsc_DL_DPCH1_SFP_Speech), c_DL_DPCH_InfoPerRadioLink (tsc_DL_DPCH1_SVC_5, tsc_DL_DPCH1_CRC_Speech))D)	
54	CPHY↓CPHY_RL_Modify_CNF	ca_CompressedModeInfoCNF (tsc_CellA, tsc_DL_DPCH1)	
55	CPHY↑CPHY_RL_Modify_REQ	ca_CompressedModeDPCH_Info_REQ (tsc_CellA, tsc_UL_DPCH1 , tcv_ActTime, c_DPCHInfo_UL (cb_UL_DPCH_Info (tsc_UL_DPDCH_GF_Speech , pl0_84, tcv_CellInfoA.ul_ScramblingCode)())	
56	CPHY↓CPHY_RL_Modify_CNF	ca_CompressedModeInfoCNF (tsc_CellA, tsc_UL_DPCH1)	
57	+ts_RRC_ReceivePhyChReconfCmpl (tsc_CellA , tcv_RRC_RAB_Type)		Step 3 in prose;
58	[(pc_InterRAT_DL_CompressedModeRequired)]		
59	AM↑RLC_AM_DATA_REQ	csd_PhyChReconf (tsc_CellDedicated, tsc_RB2, cds_PhyChReconfSpeechEvent3cCompModeDL (tcv_CellIndInfo.dl_IntegrityCheckInfo, tcv_RRC_TI, tcv_ActTime, tcv_CellInfoA.frequencyInfo, tcv_CellInfoA.priScrmCode, tcv_CellInfoA.sl_ScramblingCode) }	Step 2 in prose; SS sends physical Channel Reconfiguration message
60	CPHY↑CPHY_RL_Modify_REQ	ca_CompressedModeDPCH_Info_REQ (tsc_CellA, tsc_DL_DPCH1 , tcv_ActTime, c_DPCHInfo_DL (c_DL_DPCHInfo (c_DL_CommonInformation_Event3cCompModeDL (tsc_DL_DPCH1_SFP_Speech), c_DL_DPCH_InfoPerRadioLink (tsc_DL_DPCH1_SVC_5, tsc_DL_DPCH1_CRC_Speech))D)	
61	CPHY↓CPHY_RL_Modify_CNF	ca_CompressedModeInfoCNF (tsc_CellA, tsc_DL_DPCH1)	
62	CPHY↑CPHY_RL_Modify_REQ	ca_CompressedModeDPCH_Info_REQ (tsc_CellA, tsc_UL_DPCH1 , tcv_ActTime, c_DPCHInfo_UL (cb_UL_DPCH_Info (tsc_UL_DPDCH_GF_Speech , pl0_84, tcv_CellInfoA.ul_ScramblingCode)())	
63	CPHY↓CPHY_RL_Modify_CNF	ca_CompressedModeInfoCNF (tsc_CellA, tsc_UL_DPCH1)	
64	+ts_RRC_ReceivePhyChReconfCmpl (tsc_CellA , tcv_RRC_RAB_Type)		Step 3 in prose;
65	[(pc_InterRAT_UL_CompressedModeRequired)]		
66	AM↑RLC_AM_DATA_REQ	csd_PhyChReconf (tsc_CellDedicated, tsc_RB2, cds_PhyChReconfSpeechEvent3cCompModeUL (tcv_CellIndInfo.dl_IntegrityCheckInfo, tcv_RRC_TI, tcv_ActTime, tcv_CellInfoA.frequencyInfo, tcv_CellInfoA.priScrmCode, tcv_CellInfoA.sl_ScramblingCode) }	Step 2 in prose; SS sends physical Channel Reconfiguration message
67	CPHY↑CPHY_RL_Modify_REQ	ca_CompressedModeDPCH_Info_REQ (tsc_CellA, tsc_DL_DPCH1 , tcv_ActTime, c_DPCHInfo_DL (c_DL_DPCHInfo (c_DL_CommonInformation_Event3cCompModeUL (tsc_DL_DPCH1_SFP_Speech), c_DL_DPCH_InfoPerRadioLink (tsc_DL_DPCH1_SVC_5, tsc_DL_DPCH1_CRC_Speech))D)	
68	CPHY↓CPHY_RL_Modify_CNF	ca_CompressedModeInfoCNF (tsc_CellA, tsc_DL_DPCH1)	
69	CPHY↑CPHY_RL_Modify_REQ	ca_CompressedModeDPCH_Info_REQ (tsc_CellA, tsc_UL_DPCH1 , tcv_ActTime, c_DPCHInfo_UL (cb_UL_DPCH_Info (tsc_UL_DPDCH_GF_Speech , pl0_84, tcv_CellInfoA.ul_ScramblingCode)())	
70	CPHY↓CPHY_RL_Modify_CNF	ca_CompressedModeInfoCNF (tsc_CellA, tsc_UL_DPCH1)	
71	+ts_RRC_ReceivePhyChReconfCmpl (tsc_CellA , tcv_RRC_RAB_Type)		Step 3 in prose;
72	[TRUE]		@sic Thomas ER 1686 sic@
t_Step2_Tx4_WithCompMode			
73	+t_PhyChReconf_CompressedModeActivate		Step 2 in prose; SS sends physical Channel Reconfiguration message
74	+ts_CalculateActTime (tsc_CellA)		
75	(tcv_TGPSIRFCN := (tcv_FrameNumber+(256-4)) MOD 256)		WA#2G3RRC0290
76	+ts_CPHY_TGCFN_256_256_256 (tsc_CellA)		
77	AM↑RLC_AM_DATA_REQ	csd_MeasurementControl (tsc_CellDedicated, tsc_RB2, cs_MeasurementControlInterRATMeas)_Event3cWithCompMode (tcv_CellIndInfo.dl_IntegrityCheckInfo, tcv_RRC_TI, 3, tsc_GSM_InterRAT_CellA, tsc_GSM_InterRAT_CellB, c_InterRAT_Event3c(ttt180), tcv_TGPSIRFCN, tcv_TGCFN_252, tcv_TGCFN_254, tcv_TGCFN_256)}	Step 4 in prose
78	[((pc_InterRAT_DL_CompressedModeRequired) AND (pc_InterRAT_UL_CompressedModeRequired)]		WA#2G3RRC0289

79	CPHY↑CPHY_RL_Modify_REQ	ca_CompressedModeStatusInfo_REQ (txc_CellA, txc_DL_DPCH1, t cv_ActTime, c_DPCH_CompressedModeStatusInfoActive_TGPSIList(txx_TGPSR FCN, 1,2,3, txx_TGCFN_252, tcv_TGCFN_254 , tcv_TGCFN_250))	WM#2G3RRC0287 WM#2G3RRC0289
80	CPHY↑CPHY_RL_Modify_CNF	ca_CompressedModeInfoCNF (txc_CellA, txc_DL_DPCH1)	WM#2G3RRC0289
81	CPHY↑CPHY_RL_Modify_REQ	ca_CompressedModeStatusInfo_REQ (txc_CellA, txc_UL_DPCH1, t cv_ActTime, c_DPCH_CompressedModeStatusInfoActive_TGPSIList(txx_TGPSR FCN, 1,2,3, txx_TGCFN_252, tcv_TGCFN_254 , tcv_TGCFN_250))	WM#2G3RRC0289
82	CPHY↑CPHY_RL_Modify_CNF	ca_CompressedModeInfoCNF (txc_CellA, txc_UL_DPCH1)	WM#2G3RRC0289
83	[prc_InterRAT_DL_CompressedModeRequired]		WM#2G3RRC0289
84	CPHY↑CPHY_RL_Modify_REQ	ca_CompressedModeStatusInfo_REQ (txc_CellA, txc_DL_DPCH1, t cv_ActTime, c_DPCH_CompressedModeStatusInfoActive_TGPSIList(txx_TGPSR FCN, 1,2,3, txx_TGCFN_252, tcv_TGCFN_254 , tcv_TGCFN_250))	WM#2G3RRC0287 WM#2G3RRC0280
85	CPHY↑CPHY_RL_Modify_CNF	ca_CompressedModeInfoCNF (txc_CellA, txc_DL_DPCH1)	WM#2G3RRC0289
86	[prc_InterRAT_UL_CompressedModeRequired]		WM#2G3RRC0289
87	CPHY↑CPHY_RL_Modify_REQ	ca_CompressedModeStatusInfo_REQ (txc_CellA, txc_UL_DPCH1, t cv_ActTime, c_DPCH_CompressedModeStatusInfoActive_TGPSIList(txx_TGPSR FCN, 1,2,3, txx_TGCFN_252, tcv_TGCFN_254 , tcv_TGCFN_250))	WM#2G3RRC0289
88	CPHY↑CPHY_RL_Modify_CNF	ca_CompressedModeInfoCNF (txc_CellA, txc_UL_DPCH1)	WM#2G3RRC0289

Detailed Comment

4.4 Other modifications relevant for tc_8_4_1_40

4.4.1 ts_CPHY_TGCFN_256_256_256

TTCN object	ts_CPHY_TGCFN_256_256_256
Reference ATS	IR_U_wk23.mp [2]
Change Label	WA#2G3RRC0300
Reason for change	The values assigned to tcv_TGCFN_250, tcv_TGCFN_252, tcv_TGCFN_254 are not according to TS 34.123-1 for tc_8_4_1_40.
Summary of change	Changed values so that they are according to TS 34.123-1 (in each case value 4 subtracted before taking modulus).
Other affected objects	
ETSI comment	
R&S conclusion	

4.5   Changes referred to from previous CRs

N/A

5 Branches executed in test case 8.4.1.40

The test case was executed for the GSM 900 band in Combined Attach (CSPS) Mode with Integrity activated and Ciphering disabled. UL and DL compressed modes were activated.

6 Execution Log Files

6.1 Nokia 3G UE 7600

The Nokia 3G UE 7600 passed this test case in Combined Attach (CSPS) mode on the Rohde & Schwarz 3G System Simulators CRTU-W and CRTU-G, on the 900 MHz band, UL and DL compressed modes activated. The documentation below is enclosed as evidence of the successful test case run T1s040353.zip [1]:

   a)   **TTCN ATS containing modified tc_8_4_1_40 (RRC_8_4_1_40.mp).**

   b)   **Execution log files 8-4-1-40-CSPS-UL-DL-compmode-PASS\Index.html**
        This execution log files in HTML format show the dynamic behaviour of the test's Combined Attach (CSPS) branch, executed on the 900 MHz band with UL- and DL-compressed mode activated, 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.

   c)   **PICS/PIXIT file TC_8_4_1_40_CSPS_900_Pics_Pixit.txt**
        Text file containing all PICS/PIXIT parameters used for Combined Attach (CSPS) testing, executed on the 900 MHz band with UL- and DL-compressed mode activated.

7 References

[1]	T1s040353.zip Archive comprising HTML Execution log files, PICS/PIXIT files and the TTCN MP file for the current CR (supplementary information).
[2]	IR_U_wk23.mp ETSI RRC ATS version of week 20 (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#2G3RRC0287	tc_8_4_1_40	IR_U_wk23.mp [2]
WA#2G3RRC0288	tc_8_4_1_40	IR_U_wk23.mp [2]
WA#2G3RRC0289	tc_8_4_1_40	IR_U_wk23.mp [2]
WA#2G3RRC0290	tc_8_4_1_40	IR_U_wk23.mp [2]
WA#2G3RRC0299	tc_8_4_1_40	IR_U_wk23.mp [2]
WA#2G3RRC0300	ts_CPHY_TGCFN_256_256_256	IR_U_wk23.mp [2]

CR-Form-v7

CHANGE REQUEST

| ⌘ | **TS 34.123-3** CR | 373 | ⌘**rev** | - | ⌘ | Current version: | **3.5.1** | ⌘ |

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 3 test case 8.4.1.33 to IR_U ATS V3.5.1
Source: ⌘	Anite
Work item code: ⌘ N/A	***Date:*** ⌘ 22/06/04

Category: ⌘ **B**	***Release:*** ⌘ R99

Use one 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 one 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 3 RRC test cases 8.4.1.33 to the approved RRC ATS V3.5.1
Summary of change: ⌘	This document lists all changes applied to test cases 8.4.1.33 required for approval. See detailed change description for further information.
Consequences if not approved: ⌘	Test case will not be added to ATS

Clauses affected: ⌘				
	Y	**N**		
Other specs affected: ⌘		X	Other core specifications ⌘	Prose CR will be submitted for the email approval
	Y		Test specifications	
		X	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.

3GPP TSG-T1 E-Mail 2004   **T1s040285**
01 Jan - 31 Dec 2004

Title: **Changes to test cases 8.4.1.33 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 8.4.1.33, 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

3 Verification Test Summary

Test Case: TC_8_4_1_33

Test Group: RRC/RRCMeasurements

ATS Version:

System Simulator used: **Anite MultiRAT CT**

UE used: Nokia 7600

Verification Status: PASS

4 Corrections required for test cases 8.4.1.33

4.1 Introduction

This section describes the changes required to make test cases 8.4.1.33 run correctly with a 3G UE. The ATS version used as basis was IR_U_wk20.mp, which is part of the iWD-TVB2003-03_D04wk20 release.

4.2 Change 1

Local Tree and Test step	Local tree lt_Step2_To4_WithOrWithoutCompMode of tc_8_4_1_33
Reason for change	The TGPSRFCN value should not be set to OMIT while doing SS side CPHY_RL_Modify_REQ after Measurement Control Message for UEs required Compress Mode
Summary of change	tcv_TGPSRFCN is passed as per parameter to the constraint c_DPCH_CompressedModeStatusInfoActive_TGPSIList for SS side RL modification.

Before:

After:

4.3 Change 2

Local Tree and Test step	Constraint cs_MeasurementControlInterRATMeas_Event3aWithCompMode
Reason for change	The second measurement control message contains the BCCH ARFCN value "2" for GSM Cell_3 is wrong.
Summary of change	BCCH ARFCN should be set to 39
Source of change	New change

Before:

ASN.1 PDU Constraint Declaration	

Constraint Name:	cs_MeasurementControlInterRATMeas_Event3aWithCompMode {
	p_IntegrityInfo : IntegrityCheckInfo ;
	p_RRC_TI: RRC_TransactionIdentifier;
	p_measId_NewInterRAT: INTEGER ;
	p_Tgpsi_Reconf_Cfn : TGPS_Reconfiguration_CFN ;
	p_Tgcfn_252 : TGCFN ;
	p_Tgcfn_254 : TGCFN ;
	p_Tgcfn_250 : TGCFN
	}

Group:	
PDU Name:	DL_DCCH_Message
Derivation Path:	
Encoding Rule Name:	PER_Unaligned
Encoding Variation:	
Comments:	@SIC_NAPP Measurement Control Command to start Inter RAT measurement; UE is in CellA and CellB has to be measured

Constraint Value

{
integrityCheckInfo p_IntegrityInfo ,
message measurementControl : r3 {
measurementControl_r3 {
rrc_TransactionIdentifier p_RRC_TI,
measurementIdentity p_measId_NewInterRAT,
measurementCommand setup : interRATMeasurement :
{
interRATCellInfoList
{
removedInterRATCellList removeAllInterRATCells : NULL,
newInterRATCellList
{
interRATCellID tsc_GSM_InterRAT_CellA,
technologySpecificInfo gsm :
{
cellSelectionReselectionInfo OMIT,
interRATCellIndividualOffset tsc_InterRATCellIndividualOffset,
bsic
{
ncc 0,
bcc 1
},
frequency_band dcs1800BandUsed,
bcch_ARFCN 1,
dummy OMIT
}
},
{
interRATCellID tsc_GSM_InterRAT_CellB,
technologySpecificInfo gsm :
{
cellSelectionReselectionInfo OMIT,
interRATCellIndividualOffset tsc_InterRATCellIndividualOffset,
bsic
{
ncc 0,
bcc 2
},
frequency_band dcs1800BandUsed,
bcch_ARFCN 7,
dummy OMIT
}
},
{
interRATCellID tsc_GSM_InterRAT_CellC,
technologySpecificInfo gsm :
{
cellSelectionReselectionInfo OMIT,
interRATCellIndividualOffset tsc_InterRATCellIndividualOffset,
bsic
{
ncc 0,
bcc 3
},
frequency_band dcs1800BandUsed,
bcch_ARFCN 2,
dummy OMIT
}
}
}

After:

Constraint Name:	cs_MeasurementControlInterRATMeas_EventSaWithCompMode {
	p_IntegrityInfo : IntegrityCheckInfo ;
	p_RRC_TI: RRC_TransactionIdentifier;
	p_measId_NewInterRAT: INTEGER ;
	p_Tgps_Reconf_Cfn : TGPS_Reconfiguration_CFN ;
	p_Tgcfn_252 : TGCFN;
	p_Tgcfn_256 : TGCFN ;
	p_Tgcfn_250 : TGCFN
	}
Group:	
PDU Name:	DL_DCCH_Message
Derivation Path:	
Encoding Rule Name:	PER_Unaligned
Encoding Variation:	
Comments:	@RC_NAPP_Measurement Control Command to start Inter RAT measurement; UE is in CellA and CellB has to be measured

Constraint Value

```
{
IntegrityCheckInfo p_IntegrityInfo ,
message measurementControl : r3 {
 measurementControl_r3 {
  rrc_TransactionIdentifier p_RRC_TI,
  measurementIdentity p_measId_NewInterRAT,
  measurementCommand setup : interRATMeasurement :
  {
  interRATCellInfoList
  {
   removedInterRATCellList removeAllInterRATCells : NULL,
   newInterRATCellList
   {
    interRATCellID tsc_GSM_InterRAT_CellA,
    technologySpecificInfo gsm :
    {
     cellSelectionReselectionInfo OMIT,
     interRATCellIndividualOffset tsc_InterRATCellIndividualOffset,
     bsic
     {
      ncc 0,
      bcc 1
     },
     frequency_band dcs1800BandUsed,
     bcch_ARFCN 1,
     dummy OMIT
    }
   },
   {
     interRATCellID tsc_GSM_InterRAT_CellB,
     technologySpecificInfo gsm :
     {
      cellSelectionReselectionInfo OMIT,
      interRATCellIndividualOffset tsc_InterRATCellIndividualOffset,
      bsic
      {
       ncc 0,
       bcc 2
      },
      frequency_band dcs1800BandUsed,
      bcch_ARFCN 7,
      dummy OMIT
     }
   },
   {
     interRATCellID tsc_GSM_InterRAT_CellC,
     technologySpecificInfo gsm :
     {
      cellSelectionReselectionInfo OMIT,
      interRATCellIndividualOffset tsc_InterRATCellIndividualOffset,
      bsic
      {
       ncc 0,
       bcc 3
      },
      frequency_band dcs1800BandUsed,
      bcch_ARFCN 39,
      dummy OMIT
     }
   }
```

6

Branches executed in test case 8.4.1.33

The test case implementation executed the combined CS/PS branch 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 MultiRAT 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 and the TTCN MP file.

CR-Form-v7

CHANGE REQUEST

| ⌘ | **TS 34.123-3** CR | **374** | ⌘**rev** | **-** | ⌘ | Current version: | **3.5.1** | ⌘ |

*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: ⌘	Revised CR for addition of GCF P3 test case 16.1.2 to SMS ATS V3.5.1
Source: ⌘	Rohde & Schwarz
Work item code: ⌘ N/A	*Date:* ⌘ 22/06/2004

Category: ⌘ **B**	*Release:* ⌘ R99

Use one 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 one 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 3 SMS test case 16.1.2 to the approved SMS ATS V3.5.1. The original version of this CR was commented by Sasken regarding the length of SMS messages which should be of maximum length (according to the prose).
Summary of change: ⌘	This document lists all changes applied to test case 16.1.2 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

	Y	N		
Other specs affected: ⌘		X	Other core specifications	⌘
		X	Test specifications	
		X	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 16.1.2 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 16.1.1 which is part of the SMS 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.

The present revised version contains additional workarounds (clauses 4.5 – 4.11) which are motivated by a comment from Sasken which claimed that short messages to be sent by the UE must have maximum length.

2 Table of Contents

3 Verification Test Summary

Test Case: TC_16_1_2

Test Group: SMS/CS_Mode/

ATS Version: iWD-TVB2003-03_D04wk15 + 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 16.1.2

4.1 Introduction

This section describes the changes required to make test case 16.1.2 run correctly with a 3G UE. All modifications are marked with label "**WA#SMS<number>**" for SMS related changes in the TTCN comments column of the enclosed ATS [1].

The ATS version used as basis was SMS_wk15.mp which is part of the iWD-TVB2003-03_D04wk15 release.

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 16.1.2:

   WA#SMS1035, WA#SMS1037.

4.2 tc_16_1_2 (WA#SMS1042)

Test case name	tc_16_1_2
Reason for change	Incorrect ASP type used as the message is expected only after U10 has been entered
Summary of change	Changed ASP from InitialDirectTransfer to UplinkDirectTransfer
Source of change	New Change
Label	WA#SMS1042

It_TwiceSMS				
36	+ts_NAS_Delay(tsc_TWait1Sec)			
37	+ts_SMSCS_SetupMT_U10			Step 46
38	+ts_AT_InitSMS_MO			Step 47
39	Dc?RRC_DataInd	car UplinkDirectTransfer(tsc_CellDedicated, tsc_RB3, cd_CM_ServReqShortMsg (tcv_CS_KeySeq))		Step 48 CM Service Request @sic EW ER 1599 sic@ WA#SMS1042
40	Dc!RRC_DataReq	ca_DataReq(tsc_CellDedicated, tsc_RB3, c_CM_ServAcp)		Step 49 CM Service Accept @sic EW ER 1599 sic@

4.3   ts_SMSCS_SetupMT_U10 (WA#SMS1041)

Test step name   ts_SMSCS_SetupMT_U10

Reason for change   The cell config type is used by a test step called within ts_CC_EnterU10_MT_Def.

Summary of change   tcv_CellInfoA.cellConfig set to cell_DCH_StandAloneSRB_NoConn

Source of change   New Change

Label   WA#SMS1041

Test Step					
Test Step Id:	ts_SMSCS_SetupMT_U10				
Test Step Group Ref:	SMS_Steps/				
Objective:	To bring the UE into state U10.				
Defaults:	NAS_OtherwiseFail				
Comments:	To bring the UE into state U10 to set up a mobile terminated SMS connection				
Nr	Label	Behaviour Description	Constraint Ref	Verdict	Comments
1		(tcv_CellInfoA.cellConfig := cell_ DCH_StandAloneSRB_NoConn)			1. WA#SMS1041
2		+ts_CC_EnterU10_MT_Def(tsc _CellA)			2.

4.4   ts_AT_CPMS (WA#SMS1043)

Constraint name   ts_AT_CPMS

Reason for change   The SM should be configured rather than ME because memory cleaning otherwise does not delete the short messages stored in SM.

Summary of change   2 x use SM instead of ME

Source of change   New Change

Label   WA#SMS1043

It_AT_Init				
77	+ts_AT_CSMS			Set SMS mode
78	+ts_AT_CPMS(""SM"", ""SM"", ""MT"")			Set Preferrred memory to " SM", "SM", "MT" @sic EW ER 1527 sic@ WA#SMS1043
79	+ts_AT_CMGF			Set Text Mode
80	+ts_AT_CSCS(""GSM"")			Set Character Set "GSM"
81	+ts_AT_CMGD_All			Delete message storages
82	+ts_AT_CSCA(""2222222222"", 129)			Set service center address @sic EW ER 1521 sic@
83	+ts_AT_CMGW(""1111111111"", 129)			Write message with index 1 to memory @sic EW ER 1521 sic@

4.5 px_MaxNumOfChars (WA#SMS1092)

Test suite parameter name	px_MaxNumOfChars
Reason for change	A comment from Sasken which claimed that short messages to be sent by the UE must have maximum length
Summary of change	Introduce new PIXIT item to hold the max. number of characters in an SM.
Source of change	New Change
Label	WA#SMS1092

px_MaxNumOfChars	INTEGER		PIXIT Table B.4	max. number of characters in a MO SMS WA#SMS1092

4.6 tsc_Fox (WA#SMS1092)

Test suite constant name	tsc_Fox
Reason for change	A comment from Sasken which claimed that short messages to be sent by the UE must have maximum length
Summary of change	Introduce a string constant as long as a maximum length SM.
Source of change	New Change
Label	WA#SMS1092

tsc_Fox	IA5String	"The quick brown fox jumps over the lazy dog's back. Kaufen Sie Ihrer Frau vier bequeme Pel ze. - 0123456789 - THE QUICK BROWN FOX J UMPS OVER THE LAZY DOG'S BACK."	Fox String of maximum SMS length of 16 0 characters WA#SMS1092

4.7 cr_TP_SUBMIT_02 (WA#SMS1092)

Constraint name	cr_TP_SUBMIT_02
Reason for change	A comment from Sasken which claimed that short messages to be sent by the UE must have maximum length
Summary of change	To hold a maximum length SM submitted by the UE.
Source of change	New Change
Label	WA#SMS1092

Structured Type Constraint Declaration			
Constraint Name:	cr_TP_SUBMIT_02		
Group:			
Type Name:	SMS_SUBMIT		
Derivation Path:			
Encoding Variation:			
Comments:	MO SMS with maximum amount of user data WA#SMS1092		

Element Name	Element Value	Type Encoding	Comments
tP_ReplyPath	?		
tP_UD_HeaderInd	?		
tP_StatusRptReq	?		
tP_ValPeriodFrmt	?		
tP_RejDuplicates	?		
tP_MsgTypeInd	'01'B		
tP_MsgRef	?		
tP_DestAddr	cr_TP_DestAddr01		
tP_ProtId	c_TP_ProtId01		
tP_DataCodingScheme	c_TP_DCS_01		
tP_ValPeriodRel	?		
tP_ValPeriodAbs	-		
tP_ValPeriodEnh	-		
tP_UD_Len	o_IntToOct(px_MaxNumOfChars, 1)		
tP_UserData	?		

4.8   cr_RP_UserData03_lv (WA#SMS1092)

Constraint name	cr_RP_UserData03_lv
Reason for change	A comment from Sasken which claimed that short messages to be sent by the UE must have maximum length
Summary of change	To hold a maximum length SM submitted by the UE and caught with cr_TP_SUBMIT_02.
Source of change	New Change
Label	WA#SMS1092

Structured Type Constraint Declaration			
Constraint Name:	cr_RP_UserData03_lv		
Group:			
Type Name:	RP_UserData_lv		
Derivation Path:			
Encoding Variation:			
Comments:	WA#SMS1092		

Element Name	Element Value	Type Encoding	Comments
lal	?		
tP_COMMAND	-		
tP_DELIVER	-		
tP_DELIVER_REPORT	-		
tP_SUBMIT	cr_TP_SUBMIT_02		
tP_SUBMIT_REPORT	-		
tP_STATUS_REPORT	-		

4.9   cr_ RP_DATA_02 (WA#SMS1092)

Constraint name	cr_RP_DATA_02
Reason for change	A comment from Sasken which claimed that short messages to be sent by the UE must have maximum length
Summary of change	To hold a maximum length SM submitted by the UE and caught with cr_TP_SUBMIT_02 and cr_RP_UserData03_lv.
Source of change	New Change
Label	WA#SMS1092

Structured Type Constraint Declaration			
Constraint Name:	cr_RP_DATA_02		
Group:			
Type Name:	RP_DATA		
Derivation Path:			
Encoding Variation:			
Comments:	WA#SMS1092		

Element Name	Element Value	Type Encoding	Comments
spare5	'000001'B		
rP_MsgTypeInd	'001'B		
rP_MsgRef	?		
rP_OrigAddr	cr_RP_OrigAddr02		
rP_DestAddr	cr_RP_DestAddr03		
rP_UserData_lv	cr_RP_UserData03_lv		

4.10 ts_AT_CMGW (WA#SMS1092)

Test step name	ts_AT_CMGW
Reason for change	A comment from Sasken which claimed that short messages to be sent by the UE must have maximum length. A 3rd parameter needed to pass the SM to be sent to the AT command.
Summary of change	Parameter containing the SM added, and all of it constructed in the AT command including delimeters.
Source of change	New Change
Label	WA#SMS1092

Test Step					
Test Step Id:	ts_AT_CMGW(p_DA: IA5String; p_TODA: INTEGER; p_Str: IA5String)				
Test Step Group Ref	AT_Steps/				
Objective:	To write message to Preferred message store				
Defaults:	UT_OtherwiseFail				
Comments:	The TP Destination Address is set to p_DA by using the AT command '+CMGW' The string to be sent as the message to be stored by the UE is determined by p_Str. WA#SMS1092 This test step has to be adapted to pv_MaxNumOfChars < 160 !!				

Nr	Label	Behaviour Description	Constraint Ref	Verdict	Comments
1		+It_BuildAT_Cmd			
2		Ut ! AT_CmdReq	ca_AT_CmdReq (tcv_AT_Cmd)		1.
3		Ut ? AT_CmdCnf(tcv_AT_Cmd := AT_CmdCnf.resultString)	ca_AT_CmdCnfWithString		@sic EW ER 1529 sic@
4		(tcv_Res := o_CheckStringStartWith (tcv_AT_Cmd , "<CR><LF>+CMGW:"))			2.
5	TSP	[tcv_Res]		(P)	
6	TSF	[NOT tcv_Res]		(F)	
It_BuildAT_Cmd					
7		(tcv_IA5_String1 := o_ConcatStrg("AT+CMGW=", p_DA))			3.
8		(tcv_IA5_String2 := o_ConcatStrg(",", o_IntToIA5(p_TODA, 2)))			4.
9		(tcv_IA5_String1 := o_ConcatStrg(tcv_IA5_String1, tcv_IA5_String2))			5.
10		(tcv_IA5_String1 := o_ConcatStrg(tcv_IA5_String1, "<CR>"))			6.
11		(tcv_IA5_String1 := o_ConcatStrg(tcv_IA5_String1, p_Str))			7.
12		(tcv_AT_Cmd := o_ConcatStrg(tcv_IA5_String1, "<ESC><CR>"))			8.

Detailed Comment:	1. see TS 27.005 cl. 3.5.3
	2. the String in the AT ASP Confirmation primitive shall indicate that the setting was successful
	3. AT+CMGW=<DA>
	4. ,<TODA>
	5. AT+CMGW=<DA>,<TODA>
	6. AT+CMGW=<DA>,<TODA><CR>
	7. AT+CMGW=<DA>,<TODA><CR>p_Str
	8. AT+CMGW=<DA>,<TODA><CR>p_Str<ESC><CR>

4.11 tc_16_1_2 (WA#SMS1092)

Test case name	tc_16_1_2
Reason for change	A comment from Sasken which claimed that short messages to be sent by the UE must have maximum length.
Summary of change	Newly created constraint cr_RP_DATA_02 and modified test step ts_AT_CMGW used.
Source of change	New Change
Label	WA#SMS1092

lt_SMS_1					
41		Dc?RRC_DataInd (tcv_CP_Data := RRC_DataInd.msg, tcv_TI_1_S.tiVal := tcv_CP_Data.ti.tiVal, tcv_RP_MsgRef := tcv_CP_Data.cP_Us erData.rP_DATA.rP_MsgRef)	car_UplinkDirectTransfer(tsc_CellDedicated, cr_CP_DATA_03(cr_CP_UserData03(cr_RP_DATA_02)))		Steps 10 / 50 CPDATA / RP_DATA / SMS_S UBMIT (ue->n) WA#SMS1092

lt_SMS_3(p_Time INTEGER)					
48		Dc?RRC_DataInd	car_UplinkDirectTransfer(tsc_CellDedicated, tsc_RB4, cr_CP_DATA_03(cr_CP_UserData03(cr_RP_DATA_02)))		Steps 27 / 50 CPDATA / RP_DATA / SMS_S UBMIT (ue->n) WA#SMS1092
49		(tcv_CP_DataRetx := 0)			
50		REPEAT lt_SMS_6 UNTIL (tcv_CP_Da taRetx = px_MaxCP_DataRetx)			Steps 28-30 / 61-63 MO-SM is retransmitted
51		START t_LowerBound(tcv_TTC1Mmin * p_Time)			
52	TBF2	Dc?RRC_DataInd	car_UplinkDirectTransfer(tsc_CellDedicated, tsc_RB4, cr_CP_DATA_03(cr_CP_UserData03(cr_RP_DATA_02)))	(F)	CPDATA / RP_DATA / SMS_S UBMIT (ue->n) shall NOT be sent more than px_MaxCP_DataRetx times WA#SMS1092

lt_SMS_4					
56		Dc?RRC_DataInd (tcv_CP_Data := RRC_DataInd.msg, tcv_TI_1_S.tiVal := tcv_CP_Data.ti.tiVal, tcv_RP_MsgRef := tcv_CP_Data.cP_Us erData.rP_DATA.rP_MsgRef)	car_UplinkDirectTransfer(tsc_CellDedicated, tsc_RB4, cr_CP_DATA_03(cr_CP_UserData03(cr_RP_DATA_02)))		Step 42 CPDATA / RP_DATA / SMS_S UBMIT (ue->n) WA#SMS1092
57		Dc!RRC_DataReq	ca_DataReq(tsc_CellDedicated, tsc_RB4, cs_CP_ERROR(tcv_TI_1_S))		Step 43 CPERROR (n->ue) "Network Failure"

lt_SMS_5					
58		Dc?RRC_DataInd(tcv_CP_Data := RRC_DataInd.msg, tcv_TI_1_S.tiVal := tcv_CP_Data.ti.tiVal, tcv_RP_MsgRef := tcv_CP_Data.cP_Us erData.rP_DATA.rP_MsgRef)	car_UplinkDirectTransfer(tsc_CellDedicated, tsc_RB4, cr_CP_DATA_03(cr_CP_UserData03(cr_RP_DATA_02)))		Step 75 CPDATA / RP_DATA / SMS_S UBMIT (ue->n) WA#SMS1092

lt_SMS_6					
68		START t_UpperBound(tcv_TTwiceTC1 Mmax)			
69	TBF5	?TIMEOUT t_UpperBound		(F)	
70		+ts_RRC_ConnRel(tsc_CellA, cell_Dch)			
71		Dc?RRC_DataInd CANCEL t_UpperBound	car_UplinkDirectTransfer(tsc_CellDedicated, tsc_RB4, cr_CP_DATA_03(cr_CP_UserData03(cr_RP_DATA_02)))		CPDATA / RP_DATA / SMS_S UBMIT (ue->n) WA#SMS1092

| 84 | | +ts_AT_CMGW(""1111111111"", 129, tss_Fox) | | | Write message with index 1 to memory @sic EW ER 1521 sic@ WA#SMS1092 |

5 Branches executed in test case 16.1.2

The test case implementation executed with CS and PS activated, UE_OpMode A with Integrity activated, Ciphering disabled, AutoAttach off.

6 Execution Log Files

6.1 Nokia 3G UE 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 16_1_2_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 16_1_2-pics-pixit-Nokia.html**
  Text file containing all PICS/PIXIT parameters used for testing.

7 References

[1]   **T1s040271**
        This archive comprises HTML Execution log files, PICS/PIXIT files and the TTCN MP file

<div align="right">*CR-Form-v7*</div>

CHANGE REQUEST

<table>
<tr><td>⌘</td><td>**34.123-3**</td><td>**CR**</td><td>**375**</td><td>⌘**rev**</td><td>**-**</td><td>⌘</td><td>Current version:</td><td>**3.5.1**</td><td>⌘</td></tr>
</table>

*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:	⌘	Revised CR for the addition of GCF P3 test case 8.4.1.35 to IR_U ATS V3.5.1
Source:	⌘	Rohde&Schwarz

Work item code:	⌘	N/A	***Date:*** ⌘	25/06/04

Category: ⌘ **B**   ***Release:*** ⌘ R99

<table>
<tr><td>

Use one 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<u>TR 21.900.</u>

</td><td>

Use one 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)

</td></tr>
</table>

Reason for change:	⌘	To add verified GCF package 3 test case 8.4.1.35 to the approved IR_U ATS V3.5.1
Summary of change:	⌘	This document lists all changes applied to test case 8.4.1.35 required for approval.
Consequences if not approved:	⌘	The Test case will not be added to the ATS

Clauses affected:	⌘	N/A

		Y	**N**		
Other specs affected:	⌘		**X**	Other core specifications	⌘
			X	Test specifications	
			X	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 8.4.1.35 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 revised CR on IR_U test case 8.4.1.35. It lists all the changes needed to correct problems in the TTCN implementation of test case 8.4.1.35 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).

2   Table of Contents

3   Verification Test Summary

Test Case: tc_8_4_1_35

Test Group: RRC_Measurements/

ATS Version: IR_U_wk23.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 8.4.1.35

4.1   Introduction

This document presents a revised CR on RRC_Measurements test case tc_8_4_1_35 for approval. The initial CR on tc_8_4_1_35 submitted by R&S is contained in T1s040343 [2]. The initial CR was commented by Anite and by ETSI in T1s040343(8_4_1_35)_MCC160comments.doc [6]. Both comments accepted the R&S changes up to WA#2G30263, which was rejected, taking an alternative proposal of Anite instead. Since the accepted changes are not yet implemented in IR_U_wk23.mp [3], they appear again in this CR with a note indicating acceptance by ETSI MCC160 in T1s040343(8_4_1_35)_MCC160comments.doc [6].

In addition, Anite proposed further changes in document Anite's_additional_modifications_to_8_4_1_35-MCC160comments.doc [7], which were accepted by ETSI MCC160. The current document contains a merge of R&S changes and Anite changes.

The additional Anite changes were addressed as 'Change 1' to 'Change 6'. The current CR gives R&S change labels to these changes, as far as applicable, and refers in their change description to Anite's document.

Anite's change 2 is covered by R&S WA#2G3RRC0265, and Anite's change 4 is only applicable to tc_8_4_1_33. Both changes do not explicitly appear in this CR.

While initial CR T1s040343 [2] was based on IR_U_wk20.mp [4], the current CR is based on IR_U_wk23.mp [3], which has e.g. the effect that some originally proposed changes are not applicable any more. While most changes presented in this CR are explicitly described, a few changes appear by reference to T1s040347 [5], which is outstanding for ETSI MCC160 comments.

The ATS enclosed in the supplementary information T1s040362.zip [1], specifying the modified test case tc_8_4_1_35 presented for approval, contains only material from IR_U_wk23.mp [3] (apart from the modifications described here).

Table 3 in Annex A lists all required changes, including the ones described in previous CR T1s040347 [5].

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

   a)   If the changes are explicitly described in this CR, and the related TTCN objects **are contained** in IR_U_wk23.mp [3], the change description refers to this ATS;

b) If the changes are described in previous CR T1s040347 [5], the change description refers to IR_U_wk20.mp [4].

c) All other change labels (if present) refer to proposals for new TTCN Objects.

The reference ATS from which the object has been taken and to which the described change refers, is indicated for each TTCN object to be changed. Annex A contains a table listing all change label/affected object combinations, as well as their reference ATSs.

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	tc_8_4_1_35
Reference ATS	IR_U_wk20.mp [4]
Change Label	WA#2G3RRC0110
Reason for change	<Textual description of change reason>.
Summary of change	<Textual description of performed changes>
Other affected objects	<GOTO fields to other change descriptions> (optional)
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_4_1_35 behaviour table

TTCN object	tc_8_4_1_35
Reference ATS	IR_U_wk23.mp [3]
Change Label	WA#2G3RRC0264
Reason for change	On the SS side compressed mode for uplink and/or downlink are not activated according to the PIXIT settings.
Summary of change	Make activation of compressed mode for uplink and/or downlink on the SS side depending on the PIXIT settings. Note: Accepted in T1s040343(8_4_1_35)_MCC160comments.doc [6].
Other affected objects	
Change Label	WA#2G3RRC0265
Reason for change	The reconfiguration of the physical layer on the SS is not synchronized with reconfiguration on the UE side, therefore SS and UE will go out-of-sync.
Summary of change	Change tgps_Reconfiguration_CFN from OMIT to tcv_TGPSRFCN. Note: Accepted in T1s040343(8_4_1_35)_MCC160comments.doc [6].
Other affected objects	
Change Label	WA#2G3RRC0283
Reason for change	In lt_CheckReportForMultiCell, the constraint for measurement report to be received in line 1 contains a wrong cell parameter.
Summary of change	In constraints column of line 1 replace tsc_GSM_CellA by tsc_GSM_InterRAT_CellA. Note: Accepted in T1s040343(8_4_1_35)_MCC160comments.doc [6].
Other affected objects	
ETSI comment	
Change Label	WA#2G3RRC0322
Reason for change	As per 34.108 the timer tolerance could be 10% of timer value or (2*TTI +55ms) which ever is higher. In test cases 8.4.1.35, the wait time for getting measurement report is 900 ms. Note: see change 5 in Anite's_additional_modifications_to_8_4_1_35-MCC160comments.doc [7].
Summary of change	Tolerance is taken as (2*TTI + 55ms).
Other affected objects	
ETSI comment	
Change Label	WA#2G3RRC0323
Reason for change	The constraint cs_MeasurementControlInterRATMeas_Event3b_3c_3dNoCompMode is being used in testcase 8.4.1.35 for sending measurement control message to UE for which Compress Mode information is not required. The cellIndividualOffset for Cell2 is hardcoded to tsc_InterRATCellIndividualOffset_3, but this value varies from testcase to testcase. Note: See change 6 in Anite's_additional_modifications_to_8_4_1_35-MCC160comments.doc [7].
Summary of change	The cellIndividualOffset of GSM Cell 2 is also parameterized in constraint cs_MeasurementControlInterRATMeas_Event3b_3c_3dNoCompMode. The actual value passed for this new formal parameter is tsc_InterRATCellIndividualOffset_3.
Other affected objects	cs_MeasurementControlInterRATMeas_Event3b_3c_3dNoCompMode
ETSI comment	
R&S conclusion	

			Test Case			

Test Case Id:	tc_8_4_1_35
Test Group Reference:	RRC_Measurements/
Purpose:	1 To confirm that the UE sends MEASUREMENT REPORT message if event 3c is configured, and if the quality of the other system becomes better than the given threshold for event 3c. 2 To confirm that no other UE MEASUREMENT REPORT message is sent by the UE for a cell that has already triggered event 3c as long as the hysteresis condition for triggering once again event 3c has not been fulfilled.
Configuration:	
Defaults:	RRC_Def1
Comments:	@SIC_NAPP

Nr	Label	Behaviour Description	Constraint Ref	V..	Comments
1		START t_Guard			
2		[px_RAT=fdd]			FDD specific behaviour
3		+lt_InitVariables			
4		+ts_SS_CreateCellDCH(tsc_CellA)			Configure lower tester for cell B
5		+ts_SendDef_sysinfo_MultiCell (tsc_CellA)			Sends the default system information in CellB
6		+ts_CreateCell_GSM(tsc_GSM_CellA)			
7		(tcv_SI2quaterRO := c_SI2quaterRO('1'B, c_SI2quater_3G_1NCell(INT_TO_BIT(tcv_CellInfoA.frequencyInfo. mode@specificInfo.fdd.uarfcn_DL, 14), INT_TO_BIT(tcv_CellInfoA.priScrmCode, 10)), '1'B, c_SI2quaterMeasParams3G_Meas(tsc_G_QSearch_I,'1000'B, '1000'B), '0'B, OMIT))			@sic Thomas ER???? sic@
8		+ts_SendGSMSysinfo(tsc_GSM_CellA,tsc_PhyCh0,gsmonly,bcch,si2quater)			@sic Thomas ER???? sic@
9		+ts_CreateCell_GSM(tsc_GSM_CellB)			
10		+ts_SendGSMSysinfo(tsc_GSM_CellB,tsc_PhyCh0,gsmonly,bcch,si2quater)			@sic Thomas ER???? sic@
11		+ts_IdleUpdated (tsc_CellA)			Idle Update and bring UE to cell_Dch state and release the connection again
12		+ts_ToStateNO_CS_6_9_PS_6_10Or6_11 (tsc_CellA)			
13		+lt_TestBody			
14		+po_ConnectionAndSS_Rels			To release all the configured but not released cells
15		+lt_PO_G_SS_Releases			To release all the configured but not released GSM cells
16	ERR1	[px_RAT=tdd]			TDD specific behaviour
17	ERR2	[TRUE]		I	
lt_TestBody					
18	TBS	(tcv_TestBody := TRUE)			
19		+ts_CalculateActTime (tsc_CellA)			
20		+lt_Step2_To4_WithOrWithoutCompMode			
21		START t_WaitMS (10*1000)			Initialize the wait timer to 10 seconds
22	TBF1	AM ?RLC_AM_DATA_IND	car_MeasurementReport (tsc_CellDedicated, tsc_RB2, cr_MeasReportInterRatMeas (*, *, *, *, *))	(F)	If report message comes in this interval it fails
23	TBP1	? TIMEOUT t_WaitMS		(P)	
24		(tcv_G_CellInfoA.downlinkPowerLevel:= tsc_G_DL_PowerLevel_38EMF)			Step 6 in prose; Initialise parameters such that power levels at time T1 can be configured.
25		+ts_GSM_SetChPowerLevel(tsc_GSM_CellA, tsc_PhyCh0, tcv_G_CellInfoA.downlinkPowerLevel)			Changing the power level of GSM cell A as given in Table at time T1
26		(tcv_Tolerance := 2*40 + 55)			WA#2G3RRC0322
27		START t_WaitMS (900 + tcv_Tolerance)			Initialize the wait timer to 900 ms seconds
28		+lt_CheckReportForMultiCell			Step 7 in prose
29		(tcv_G_CellInfoA.downlinkPowerLevel:= tsc_G_DL_PowerLevel_33EMF)			Step 8 in prose; Initialise parameters such that power levels at time T2 can be configured.
30		+ts_GSM_SetChPowerLevel(tsc_GSM_CellA, tsc_PhyCh0, tcv_G_CellInfoA.downlinkPowerLevel)			Changing the power level of GSM cell A as given in Table at time T2
31		(tcv_G_CellInfoA.downlinkPowerLevel:= tsc_G_DL_PowerLevel_38EMF)			Step 9 in prose; Initialise parameters such that power levels at time T3 can be configured.
32		+ts_GSM_SetChPowerLevel(tsc_GSM_CellA, tsc_PhyCh0, tcv_G_CellInfoA.downlinkPowerLevel)			Changing the power level of GSM cell A as given in Table at time T3

33		START t_WaitMS (10*1000)			Initialize the wait timer to 10 seconds
34	TBF3	AM ?RLC_AM_DATA_IND	car_MeasurementReport (tsc_CellDedicated, tsc_RB2, cr_MeasReportInterRatMeas (*,*,*,*,*))	(F)	If report message comes in this interval it fails
35	TBP2	? TIMEOUT t_WaitMS		(P)	
36		+ts_C3_CheckCellDCH (tsc_CellA)			Step 11 in prose; Note :-Dummy step used
37	TBE	(tcv_TestBody := FALSE)		(P)	
lt_InitVariables					
38		+ts_RRC_InitVariablesCS			
39		+ts_GSM_InitVariables_TwoCells			Initialises the Variables depending on the GSM Band under usage For all Cells.
40		(tcv_CellInfoA := c_CellInfoDiff (tsc_CellA, px_PriScrmCode, tsc_URA_IdCellA, tsc_CRNTI , px_TCellA, tsc_SFN_OffsetA, tcv_FreqInfo Mid, px_UL_ScramblingCode))			
41		(tcv_CellInfoA.attenuationLevel := tcv_CellInfoA.powerpCPICH+60)			
42		(tcv_G_CellInfoA.mcc:=tsc_MCC_PLMN1,tcv_G_CellInfoA.mnc:=tsc_MNC_PLMN1,tcv_G_CellInfoA.lac:=tsc_LAC_PLMN1,tcv_G_CellInfoA.downlinkPowerLevel:=tsc_G_DL_PowerLevel_23EMF, tcv_G_CellInfoA.ncc:=tsc_NCC_0, tcv_G_CellInfoA.bcc:=tsc_BCC_1)			Initialize GCELL A Variable as the test case demands; @sic Thomas ER 1609 sic@
43		(tcv_G_CellInfoB.mcc:=tsc_MCC_PLMN2,tcv_G_CellInfoB.mnc:=tsc_MNC_PLMN2,tcv_G_CellInfoB.lac:=tsc_LAC_PLMN2,tcv_G_CellInfoB.downlinkPowerLevel:=tsc_G_DL_PowerLevel_38EMF, tcv_G_CellInfoB.ncc:=tsc_NCC_0, tcv_G_CellInfoB.bcc:=tsc_BCC_2)			Initialize GCELL B Variable as the test case demands; @sic Thomas ER 1609 sic@
lt_PO_G_SS_Releases					
44		+po_GSM_SS_CellRelease(tsc_GSM_CellA)			G cell A switched off
45		+po_GSM_SS_CellRelease(tsc_GSM_CellB)			G cell B switched off
lt_CheckReportForMultiCell					
46		AM ?RLC_AM_DATA_IND	car_MeasurementReport (tsc_CellDedicated, tsc_RB2, cr_MeasReportInterRatMeas (3 , OMIT , verifiedBSIC : tsc_GSM_InterRAT_CellA, verifiedBSIC : tsc_GSM_InterRAT_CellB, c_interRATMeas_EventResults3a_3b_3c_3d(e3c ,tsc_GSM_InterRAT_CellA)))	(P)	Step 7 in prose WA#2G3RRC0283
47		CANCEL t_WaitMS			
48		AM ?RLC_AM_DATA_IND	car_MeasurementReport (tsc_CellDedicated, tsc_RB2, cr_MeasReportInterRatMeas (3 , OMIT , verifiedBSIC : tsc_GSM_InterRAT_CellB , verifiedBSIC : tsc_GSM_InterRAT_CellA, c_interRATMeas_EventResults3a_3b_3c_3d(e3c ,tsc_GSM_InterRAT_CellA)))	(P)	Step 7 in prose
49		CANCEL t_WaitMS			
50	TBF2	? TIMEOUT t_WaitMS		(F)	
lt_PhyChReconf_CompressedModeActivate					
51		[((px_InterRAT_DL_CompressedModeRequired) AND (px_InterRAT_UL_CompressedModeRequired)]]			
52		AM ! RLC_AM_DATA_REQ	cas_PhyChReconf { tsc_CellDedicated, tsc_RB2, cds_PhyChReconfSpeechEventTriggerCompModeDL_UL (trv_CellIndInfo.dl_IntegrityCheckInfo, trv_RRC_TI, trv_ActTime, trv_CellInfoA.frequencyInfo, trv_CellInfoA.priScrmCode, trv_CellInfoA.uL_ScramblingCode) }		Step 2 in prose; SS sends physical Channel Reconfiguration message
53		CPHY ! CPHY_RL_Modify_REQ	ca_CompressedModeDPCH_Info_REQ (tsc_CellA, tsc_DL_DPCH1, tcv_ActTime, c_DPCHInfo_DL (c_DL_DPCHInfo (c_DL_CommonInformation_EventTriggerCompModeDL_UL (tsc_DL_DPCH1_SFP_Speech , mode0), c_DL_DPCH_InfoPerRadioLink (tsc_DL_DPCH_ScrC_5, tsc_DL_DPCH1_ChC_Speech))0))		
54		CPHY ? CPHY_RL_Modify_CNF	ca_CompressedModeInfoCNF (tsc_CellA, tsc_DL_DPCH1)		

55	CPHY ! CPHY_RL_Modify_REQ	ca_CompressedModeDPCH_Info_REQ (tsc_CellA, tsc_UL_DPCH1, tcv_ActTime, c_DPCHinfo_UL (cb_UL_DPCH_Info (tsc_UL_DPD CH_SF_Speech, pl0_84, tcv_CellInfoA.uL_Scramblin gCode)))	
56	CPHY ? CPHY_RL_Modify_CNF	ca_CompressedModeInfoCNF (tsc_CellA, tsc_UL_ DPCH1)	
57	+ts_RRC_ReceivePhyChReconfCmpl (tsc_CellA , tcv_RRC_RAB_Typ e)		Step 3 in prose;
58	[(pc_InterRAT_DL_CompressedModeRequired)]		
59	AM ! RLC_AM_DATA_REQ	cas_PhyChReconf (tsc_CellDedicated, tsc_RB2, cds_PhyChReconfSpeechEventTriggerCompModeD L (tcv_CellIndInfo.dl_IntegrityCheckInfo, tcv_RRC_TI, tcv_ActTime, tcv_CellInfoA.frequencyInfo, tcv_CellInfoA.priScrmCode, tcv_CellInfoA.uL_ScramblingCode))	Step 2 in prose; SS sends physical Channel R econfiguration message
60	CPHY ! CPHY_RL_Modify_REQ	ca_CompressedModeDPCH_Info_REQ (tsc_CellA, tsc_DL_DPCH1, tcv_ActTime, c_DPCHinfo_DL (c_DL_DPCHinfo (c_DL_CommonInformation_EventTriggerCompMod eDL (tsc_DL_DPCH1_SFP_Speech , mode0), c_D L_DPCH_InfoPerRadioLink (tsc_DL_DPCH_ScrC_5, tsc_DL_DPCH1_ChC_Speech))))	
61	CPHY ? CPHY_RL_Modify_CNF	ca_CompressedModeInfoCNF (tsc_CellA, tsc_DL_ DPCH1)	
62	CPHY ! CPHY_RL_Modify_REQ	ca_CompressedModeDPCH_Info_REQ (tsc_CellA, tsc_UL_DPCH1, tcv_ActTime, c_DPCHinfo_UL (cb_UL_DPCH_Info (tsc_UL_DPD CH_SF_Speech, pl0_84, tcv_CellInfoA.uL_Scramblin gCode)))	
63	CPHY ? CPHY_RL_Modify_CNF	ca_CompressedModeInfoCNF (tsc_CellA, tsc_UL_ DPCH1)	
64	+ts_RRC_ReceivePhyChReconfCmpl (tsc_CellA , tcv_RRC_RAB_Typ e)		Step 3 in prose;
65	[(pc_InterRAT_UL_CompressedModeRequired)]		
66	AM ! RLC_AM_DATA_REQ	cas_PhyChReconf (tsc_CellDedicated, tsc_RB2, cds_PhyChReconfSpeechEventTriggerCompModeU L (tcv_CellIndInfo.dl_IntegrityCheckInfo, tcv_RRC_TI, tcv_ActTime, tcv_CellInfoA.frequencyInfo, tcv_CellInfoA.priScrmCode, tcv_CellInfoA.uL_ScramblingCode))	Step 2 in prose; SS sends physical Channel R econfiguration message
67	CPHY ! CPHY_RL_Modify_REQ	ca_CompressedModeDPCH_Info_REQ (tsc_CellA, tsc_DL_DPCH1, tcv_ActTime, c_DPCHinfo_DL (c_DL_DPCHinfo (c_DL_CommonInformation_EventTriggerCompMod eUL (tsc_DL_DPCH1_SFP_Speech , mode0), c_D L_DPCH_InfoPerRadioLink (tsc_DL_DPCH_ScrC_5, tsc_DL_DPCH1_ChC_Speech))))	
68	CPHY ? CPHY_RL_Modify_CNF	ca_CompressedModeInfoCNF (tsc_CellA, tsc_DL_ DPCH1)	
69	CPHY ! CPHY_RL_Modify_REQ	ca_CompressedModeDPCH_Info_REQ (tsc_CellA, tsc_UL_DPCH1, tcv_ActTime, c_DPCHinfo_UL (cb_UL_DPCH_Info (tsc_UL_DPD CH_SF_Speech, pl0_84, tcv_CellInfoA.uL_Scramblin gCode)))	
70	CPHY ? CPHY_RL_Modify_CNF	ca_CompressedModeInfoCNF (tsc_CellA, tsc_UL_ DPCH1)	
71	+ts_RRC_ReceivePhyChReconfCmpl (tsc_CellA , tcv_RRC_RAB_Typ e)		Step 3 in prose;
72	[TRUE]		@sic Thomas ER 1606 sic@

		It_Step2_To4_WithOrWithoutCompMode		
73		](NOT pc_InterRAT_DL_CompressedModeRequired) AND (NOT pc_InterRAT_UL_CompressedModeRequired)]		
74		AM ! RLC_AM_DATA_REQ	cas_MeasurementControl (tsc_CellDedicated, tsc_RB2, cs_MeasurementControlInterRATMeas_Event3b_3c_3dNoCompMode (tcv_CellInstInfo.dl_IntegrityCheckInfo, tcv_RRC_TI, 3, tsc_GSM_InterRAT_CellA, tsc_GSM_InterRAT_CellB, tsc_InterRATCellIndividualOffset_10, tsc_InterRATCellIndividualOffset_3, c_InterRAT_Event3c(tti100)))	Step 4 in prose WA#2G3RRC0323
75		](pc_InterRAT_DL_CompressedModeRequired) OR (pc_InterRAT_UL_CompressedModeRequired)]		
76		+It_PhyChRecon_CompresseModeActivate		
77		+ts_CalculateActTime (tsc_CellA)		
78		+ts_CPHY_TGCFN_250_252_254 (tsc_CellA)		
79		AM ! RLC_AM_DATA_REQ	cas_MeasurementControl (tsc_CellDedicated, tsc_RB2, cs_MeasurementControlInterRATMeas_Event3b_3c_3dWithCompMode (tcv_CellInstInfo.dl_IntegrityCheckInfo, tcv_RRC_TI, 3, tsc_GSM_InterRAT_CellA, tsc_GSM_InterRAT_CellB, tsc_InterRATCellIndividualOffset_10, tsc_InterRATCellIndividualOffset_3, c_InterRAT_Event3c(tti100), tcv_TGPSRFCN , tcv_TGCFN_252, tcv_TGCFN_254 , tcv_TGCFN_250))	Step 4 in prose
80		](pc_InterRAT_DL_CompressedModeRequired) AND (pc_InterRAT_UL_CompressedModeRequired)]		WA#2G3RRC0264
81		CPHY ! CPHY_RL_Modify_REQ	ca_CompressedModeStatusInfo_REQ (tsc_CellA, tsc_DL_DPCH1, tcv_ActTime, c_DPCH_CompressedModeStatusInfoActive_TGPSIList(tcv_TGPSRFCN, 1,2,3, tcv_TGCFN_252, tcv_TGCFN_254 , tcv_TGCFN_250))	WA#2G3RRC0264 WA#2G3RRC0265
82		CPHY ? CPHY_RL_Modify_CNF	ca_CompressedModeInfoCNF (tsc_CellA, tsc_DL_DPCH1)	WA#2G3RRC0264
83		CPHY ! CPHY_RL_Modify_REQ	ca_CompressedModeStatusInfo_REQ (tsc_CellA, tsc_UL_DPCH1, tcv_ActTime, c_DPCH_CompressedModeStatusInfoActive_TGPSIList(tcv_TGPSRFCN, 1,2,3, tcv_TGCFN_252, tcv_TGCFN_254 , tcv_TGCFN_250))	WA#2G3RRC0264 WA#2G3RRC0265
84		CPHY ? CPHY_RL_Modify_CNF	ca_CompressedModeInfoCNF (tsc_CellA, tsc_UL_DPCH1)	WA#2G3RRC0264
85		[pc_InterRAT_DL_CompressedModeRequired]		WA#2G3RRC0264
86		CPHY ! CPHY_RL_Modify_REQ	ca_CompressedModeStatusInfo_REQ (tsc_CellA, tsc_DL_DPCH1, tcv_ActTime, c_DPCH_CompressedModeStatusInfoActive_TGPSIList(tcv_TGPSRFCN, 1,2,3, tcv_TGCFN_252, tcv_TGCFN_254 , tcv_TGCFN_250))	WA#2G3RRC0264 WA#2G3RRC0265
87		CPHY ? CPHY_RL_Modify_CNF	ca_CompressedModeInfoCNF (tsc_CellA, tsc_DL_DPCH1)	WA#2G3RRC0264
88		[pc_InterRAT_UL_CompressedModeRequired]		WA#2G3RRC0264
89		CPHY ! CPHY_RL_Modify_REQ	ca_CompressedModeStatusInfo_REQ (tsc_CellA, tsc_UL_DPCH1, tcv_ActTime, c_DPCH_CompressedModeStatusInfoActive_TGPSIList(tcv_TGPSRFCN, 1,2,3, tcv_TGCFN_252, tcv_TGCFN_254 , tcv_TGCFN_250))	WA#2G3RRC0264 WA#2G3RRC0265
90		CPHY ? CPHY_RL_Modify_CNF	ca_CompressedModeInfoCNF (tsc_CellA, tsc_UL_DPCH1)	WA#2G3RRC0264
91		[TRUE]		@sic Thomas ER 1606 sic@

Detailed Comment:

4.4 Other modifications relevant for tc_8_4_1_35

4.4.1 tsc_InterRATCellIndividualOffset_3

TTCN object	tsc_InterRATCellIndividualOffset_3
Reference ATS	IR_U_wk23.mp [3]
Change Label	WA#2G3RRC0291
Reason for change	The current value of tsc_InterRATCellIndividualOffset_3 (3) does not match value to be used for GSM cell 2 in TC 8.4.1.35 according to 3GPP TS 34.108. Moreover, using the value 3 does not provide for any measurement tolerance in positive direction for the RSSI (e.g. measuring -74 dBm instead of the nominal -75 dBm).
Summary of change	The value of tsc_InterRATCellIndividualOffset_3 has been changed from 3 to -3. Note: Accepted in T1s040343(8_4_1_35)_MCC160comments.doc [6].
Other affected objects	
ETSI comment	
R&S conclusion	

4.4.2 TS Constants for LAC/RAC

TTCN object	tsc_LAC_Def tsc_LAC_PLMN1 tsc_LAC_PLMN2 tsc_RAC_Def
Reference ATS	IR_U_wk23.mp [3]
Change Label	WA#2G3RRC0280
Reason for change	The default Location Area/Routing Area Codes for 3G side have been changed in CR T1-040656 [8] for 3GPP TS 34.108.
Summary of change	Change the values of the test suite constants accordingly, since on the one side TS Constants tsc_LAC_PLMN1 etc. are used in the DualIdleMode test cases, and on the other side there is no indication in 3GPP TS 34.108 that LAC/RAC values different from the default values shall be used. Note: Accepted in T1s040343(8_4_1_35)_MCC160comments.doc [6], but postponed (will be implemented after delivery of formal release v360).
Other affected objects	
ETSI comment	
R&S conclusion	

4.4.3 c_DL_CommonInformation_EventTriggerCompModeDL_UL

TTCN object	c_DL_CommonInformation_EventTriggerCompModeDL_UL
Reference ATS	IR_U_wk23.mp [3]
Change Label	WA#2G3RRC0321
Reason for change	The DL_CommonInformation params (positionFixedOrFlexible and tfci_Existence) are not as per default contents for 25.331. Note: see change 3 in Anite's_additional_modifications_to_8_4_1_35-MCC160comments.doc [7].
Summary of change	In constraint c_DL_CommonInformationRB_SetUp_DL_ULCompressModeInfo the IEs positionFixedOrFlexible is set to "fixed " and tfci_Existence is set to "FALSE".
Other affected objects	
ETSI comment	
R&S conclusion	

ASN.1 Type Constraint Declaration	
Constraint Name:	c_DL_CommonInformation_EventTriggerCompModeDL_UL (p_Sf SF512_AndPilot ; p_Rpp : RPP)
Group:	
Type Name:	DL_CommonInformation
Derivation Path:	
Encoding Variation:	
Comments:	@SIC_NAPP

Constraint Value

{
dl_DPCH_InfoCommon(
  cfnHandling maintain :NULL,
  modeSpecificInfo fdd:{
   dl_DPCH_PowerControlInfo {
    modeSpecificInfo fdd:{
     dpc_Mode singleTPC
    }
   },
   powerOffsetPilot_pdpdch tsc_DPCH_PowerOffsetPILOT,
   dl_rate_matching_restriction OMIT ,
   spreadingFactorAndPilot p_Sf,
   positionFixedOrFlexible fixed – WA#2G3RRC0321
   tfci_Existence FALSE – WA#2G3RRC0321
  }
 },
modeSpecificInfo fdd:{

…

4.4.4　cs_MeasurementControlInterRATMeas_Event3b_3c_3dNoCompMode

TTCN object	cs_MeasurementControlInterRATMeas_Event3b_3c_3dNoCompMode
Reference ATS	IR_U_wk23.mp [3]
Change Label	WA#2G3RRC0323
Reason for change	The constraint cs_MeasurementControlInterRATMeas_Event3b_3c_3dNoCompMode is being used in testcase 8.4.1.35 for sending measurement control message to UE for which Compress Mode information is not required. The cellIndividualOffset for Cell2 is hardcoded to tsc_InterRATCellIndividualOffset_3, but this value varies from testcase to testcase. Note:　See change 6 in Anite's_additional_modifications_to_8_4_1_35-MCC160comments.doc [7].
Summary of change	The cellIndividualOffset of GSM Cell 2 is also parameterized in cs_MeasurementControlInterRATMeas_Event3b_3c_3dNoCompMode.
Other affected objects	tc_8_4_1_35
ETSI comment	
R&S conclusion	

ASN.1 PDU Constraint Declaration

Constraint Name:	cs_MeasurementControlInterRATMeas_Event3b_3c_3dNoCompMode (p_IntegrityInfo : IntegrityCheckInfo ; p_RRC_TI: RRC_TransactionIdentifier; p_measId_NewInterRAT: INTEGER ; p_CellId1 : INTEGER; p_CellId2 : INTEGER; p_InterRATCellIndividualOffset1 : INTEGER ; p_InterRATCellIndividualOffset2 : INTEGER ; p_event : InterRATEvent)
Group:	
PDU Name:	DL_DCCH_Message
Derivation Path:	
Encoding Rule Name:	PER_Unaligned
Encoding Variation:	
Comments:	@SIC_NAPP Measurement Control Command to start inter RAT measurement; UE is in CellA and CellB has to be measured WA#2G3RRC0323

Constraint Value

```
{
 integrityCheckInfo p_IntegrityInfo ,
 message measurementControl : r3 {
  measurementControl_r3 {
   rrc_TransactionIdentifier p_RRC_TI,
   measurementIdentity p_measId_NewInterRAT,
   measurementCommand setup : interRATMeasurement :
   {
    interRATCellInfoList
    {
     removedInterRATCellList removeAllInterRATCells : NULL,
     newInterRATCellList
     {{
       interRATCellID p_CellId1,
       technologySpecificInfo gsm :
       {
        cellSelectionReselectionInfo OMIT,
        interRATCellIndividualOffset p_InterRATCellIndividualOffset1, -- WA#2G3RRC0323
        bsic
```

```
        {
         nss 0,
         bcc 1
        },
        frequency_band dcs1800BandUsed,
        bcch_ARFCN 1,
        dummy OMIT
       }
      },
      {
       interRATCellID p_CellId2,
       technologySpecificInfo gsm :
       {
        cellSelectionReselectionInfo OMIT,
        interRATCellIndividualOffset p_interRATCellIndividualOffset2, -- WA#2G3RRC0323
        bsic
        {
         nss 0,
         bcc 2
        },
        frequency_band dcs1800BandUsed,
        bcch_ARFCN 7,
        dummy OMIT
       }
      }
     },
```
...

4.4.5   ts_CPHY_TGCFN_250_252_254

TTCN object	ts_CPHY_TGCFN_250_252_254
Reference ATS	IR_U_wk23.mp [3]
Change Label	WA#2G3RRC0320
Reason for change	1) tti value 20ms is wrong 2) TS 34.123-1 specifies that the TGPS reconfiguration CFN in Measurement Control Message should be set to (Current CFN + (250 – TTI/10msec)) mod 256. But TTCN tcv_TGPRFCN is set to '0' and used in the measurement control message. Note: See change 1 in Anite's_additional_modifications_to_8_4_1_35-MCC160comments.doc [7].
Summary of change	1) tti value is set to 40ms. 2) tcv_TGPRFCN is updated as per the calculation given in specs inside the test step ts_CPHY_TGCFN_250_252_254. 3) The updated tcv_TGPSRFCN is passed as parameter for Measurement control message and local end configuration.
Other affected objects	
ETSI comment	
R&S conclusion	

Test Step				
Test Step Id:	ts_CPHY_TGCFN_250_252_254 (p_CellId: INTEGER)			
Test Step Group Ref:	General/			
Objective:	To calculate the activation time based on CHY frame number			
Defaults:	SS_Def			
Comments:	@SIC_NAPP p_ttiValue : is equal to tti/10			

..	La..	Behaviour Description	Constraint Ref	..	Comments
1		CPHY ! CPHY_Frame_Number_REQ	cas_GetFrameNum(p_CellId, tsc_DL_DPCH1)		
2		CPHY ? CPHY_Frame_Number_CNF	car_GetFrameNum(p_CellId, tsc_DL_DPCH1)		
		(tcv_FrameNumber := CPHY_Frame_Number_CNF.frameNumber)			
3		(tcv_TGCFN_250 := (tcv_FrameNumber+(250-4)) MOD 256)			WA#2G3RRC0320
4		(tcv_TGCFN_252 := (tcv_FrameNumber+(252-4)) MOD 256)			WA#2G3RRC0320
5		(tcv_TGCFN_254 := (tcv_FrameNumber+(254-4)) MOD 256)			WA#2G3RRC0320
6		(tcv_TGCFN := (tcv_FrameNumber+(254-4)) MOD 256)			WA#2G3RRC0320

4.4.6   ts_RRC_ReceiveConnSetupCmpl

TTCN object	ts_RRC_ReceiveConnSetupCmpl
Reference ATS	IR_U_wk23.mp [3]
Change Label	WA#2G3RRC0244
Reason for change	Default RRC_DefConnEst had been previously added to the defaults list of ts_RRC_ReceiveConnSetupCmpl in order to recognize repeated RRC_ConnectionRequest messages and ignore them. But when default RRC_Def1 is listed first, a repeated RRC_ConnectionRequest message will fall into the OTHERWISE line of RRC_Def1, giving a (I) or (F) verdict instead of ignoring the message.
Summary of change	The order of Defaults is interchanged. A repeated RRC_ConnectionRequest message is now recognized in RRC_DefConnEst and leads to a RETURN statement. Note: Originally rejected by ETSI MCC160 because of a misunderstanding, in the mean time accepted (verbal communication of Thomas Wacker).
Other affected objects	
ETSI comment	
R&S conclusion	

Test Step

Test Step Id:	ts_RRC_ReceiveConnSetupCmpl (p_CellId : INTEGER)	
Test Step Group Ref	BasicM_RRC_Steps/	
Objective:	To receive RRC CONNECTION SETUP COMPLETE message and download SS security keys according to the received information element.	
Defaults:	RRC_DefConnEst, RRC_Def1	
Comments:	@sic T1-031944 sic@	
	WA#2G3RRC0244	

Nr	Label	Behaviour Description	Constraint Ref	V..	Comments
1		+ ts_SetTmpCellInfo (p_CellId)			
2		[(tcv_TmpCellInfo.cellConfig = cell_DCH_StandAloneSRB_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_DCH_StandAloneSRB) 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)]			
3		START t_WaitMS			
4	TSF1	? TIMEOUT t_WaitMS		(F)	
5	TSP1	AM ? RLC_AM_DATA_IND (tcv_StartList := RLC_AM_DATA_IND.aM_message.uL_DCCH_Message.message.rrcConnectionSetupComplete.startList, tcv_CellIndInfo.cipheringAlgorithmCapability := RLC_AM_DATA_IND.aM_message.uL_DCCH_Message.message.rrcConnectionSetupComplete.ue_RadioAccessCapability.securityCapability.cipheringAlgorithmCap) CANCEL t_WaitMS	car_RRC_ConnSetupCmpl (tsc_CellDedicated, tsc_RB2, cr_108_RRC_ConnSetupCmpl (tcv_RRC_TI, ?))	(P)	UE capability ie is present in a DCH configuration
6		+ it_GetHFN			

…

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_4_1_35, 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#2G3RRC0292	tcv_AcceptDetachFromPreviousCell	New	T1s040347 [5]
WA#2G3RRC0292	IntersystemDef	IR_U_wk20.mp [3]	T1s040347 [5]

5   Branches executed in test case 8.4.1.35

The test case was executed for the GSM 900 band in Combined Attach (CSPS) Mode with Integrity activated and Ciphering disabled. UL and DL compressed modes were activated.

6   Supplementary information

The TTCN ATS containing modified tc_8_4_1_35 (RRC_8_4_1_35.mp) is contained in T1s040362.zip [1].

7   References

[1]	T1s040362.zip Archive comprising the TTCN MP file for the current CR (supplementary information).
[2]	T1s040343.doc Initial R&S CR on tc_8_4_1_35.
[3]	IR_U_wk23.mp ETSI RRC ATS version of week 23 (2004).
[4]	IR_U_wk20.mp ETSI RRC ATS version of week 20 (2004).
[5]	T1s040347 Previous R&S CR (on tc_6_2_1_1) containing several change proposals also referred to in the current CR.
[6]	T1s040343(8_4_1_35)_MCC160comments.doc MCC160 comments on R&S T1s040343.
[7]	Anite's_additional_modifications_to_8_4_1_35-MCC160comments.doc Additional modification proposals for tc_8_4_1_35 from Anite.
[8]	T1-040656 CR to 34.108 Rel-5: Change of default LAC/RAC for inter-RAT test cases.

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#2G3RRC0244	ts_RRC_ReceiveConnSetupCmpl	IR_U_wk23.mp [3]
WA#2G3RRC0264	tc_8_4_1_35	IR_U_wk23.mp [3]
WA#2G3RRC0265	tc_8_4_1_35	IR_U_wk23.mp [3]
WA#2G3RRC0280	tsc_LAC_Def	IR_U_wk23.mp [3]
WA#2G3RRC0280	tsc_LAC_PLMN1	IR_U_wk23.mp [3]
WA#2G3RRC0280	tsc_LAC_PLMN2	IR_U_wk23.mp [3]
WA#2G3RRC0280	tsc_RAC_Def	IR_U_wk23.mp [3]
WA#2G3RRC0283	tc_8_4_1_35	IR_U_wk23.mp [3]
WA#2G3RRC0291	tsc_InterRATCellIndividualOffset_3	IR_U_wk23.mp [3]
WA#2G3RRC0292	tcv_AcceptDetachFromPreviousCell	IR_U_wk20.mp [4]
WA#2G3RRC0292	IntersystemDef	IR_U_wk20.mp [4]
WA#2G3RRC0320	ts_CPHY_TGCFN_250_252_254	IR_U_wk23.mp [3]
WA#2G3RRC0321	c_DL_CommonInformation_EventTriggerCompModeDL_UL	IR_U_wk23.mp [3]
WA#2G3RRC0322	tc_8_4_1_35	IR_U_wk23.mp [3]
WA#2G3RRC0323	cs_MeasurementControlInterRATMeas_Event3b_3c_3dNoCompMode	IR_U_wk23.mp [3]
WA#2G3RRC0323	tc_8_4_1_35	IR_U_wk23.mp [3]

CR-Form-v7

CHANGE REQUEST

⌘ **34.123-3** CR **376** ⌘**rev** **-** ⌘ Current version: **3.6.1** ⌘

*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: ⌘	CR for the addition of GCF P3 test case 8.4.1.36 to IR_U ATS V3.6.1
Source: ⌘	Rohde & Schwarz

Work item code: ⌘	N/A	**Date:** ⌘	05/07/04

Category: ⌘ **B**   **Release:** ⌘ R99

Use one 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 one 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 3 test case 8.4.1.36 to the approved IR_U ATS V3.6.1
Summary of change: ⌘	This document lists all changes applied to test case 8.4.1.36 required for approval.
Consequences if not approved: ⌘	The Test case will not be added to the ATS

Clauses affected: ⌘	N/A

	Y	N		
Other specs ⌘		X	Other core specifications ⌘	
affected:		X	Test specifications	
		X	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 8.4.1.36 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 IR_U test case 8.4.1.36. It lists all the changes needed to correct problems in the TTCN implementation of test case 8.4.1.36 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).

2   Table of Contents

3   Verification Test Summary

Test Case: tc_8_4_1_36

Test Group: RRC_Measurements/

ATS Version: IR_U_wk23.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 8.4.1.36

4.1   Introduction

This CR presents RRC_Measurements test case tc_8_4_1_36 for approval.

The ATS enclosed in T1s040365.zip [1], specifying the modified test case tc_8_4_1_36 presented for approval, is based on IR_U_wk23.mp [2], provided by ETSI MCC160.

While most changes presented in this CR are explicitly described, a few changes appear by reference to previously issued CRs T1s040347 [4] and T1s040361 [5].

Table 3 in Annex A lists all required changes, including the ones described in previous CRs T1s040347 [4] and T1s040361 [5].

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

   a) If the WA/change is related to a previously issued CR, the reference ATS is the one given in Table 2 on page 13; otherwise

   b) If the related TTCN objects **are contained** in IR_U_wk23.mp [2], the change description refers to this ATS;

   c) All other change labels (if present) refer to proposals for new TTCN Objects.

Annex A contains a table listing all change label/affected object combinations, as well as their reference ATSs, including the ones described in previous CRs T1s040347 [4] and T1s040361 [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	*tc_8_4_1_36*
Reference ATS	*IR_U_wk20.mp* [3]
Change Label	*WA#2G3RRC0110*
Reason for change	*<Textual description of change reason>*.
Summary of change	*<Textual description of performed changes>*
Other affected objects	*<GOTO fields to other change descriptions>* (optional)
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_4_1_36 behaviour table

TTCN object	tc_8_4_1_36
Reference ATS	IR_U_wk23.mp [2]
Change Label	WA#2G3RRC0285
Reason for change	On the SS side compressed mode for uplink and/or downlink are not activated/deactivated according to the PIXIT settings.
Summary of change	Made activation and deactivation of compressed mode for uplink and/or downlink on SS side dependent on PIXIT settings.
Other affected objects	
ETSI comment	
Change Label	WA#2G3RRC0286
Reason for change	The reconfiguration of physical layer on SS is not synchronized with the reconfiguration on the UE side, therefore SS and UE will go out-of-sync.
Summary of change	In constraint c_DPCH__CompressedModeStatusInfoActive_TGPSIList used for CPHY_RL_Modify_REQ, change actual value for parameter tgps_Reconfiguration_CFN from OMIT to tcv_TGPSRFCN.
Other affected objects	
ETSI comment	
Change Label	WA#2G3RRC0301
Reason for change	In lt_Step8_WithOrWithoutCompMode the 1st CPHY_RL_Modify_CNF is erroneously expected with CellID tsc_CellDedicated instead of tsc_CellA.
Summary of change	Replace tsc_CellDedicated by tsc_CellA.
Other affected objects	
ETSI comment	
Change Label	WA#2G3RRC0323
Reason for change	The constraint cs_MeasurementControlInterRATMeas_Event3b_3c_3dNoCompMode is being used in some test cases for sending measurement control message to UE for which Compress Mode information is not required. The cellIndividualOffeset for Cell2 is hard-coded to tsc_InterRATCellIndividualOffset_3, but this value varies from test cases to test cases. Note: See change 6 in Anite's_additional_modifications to_8_4_1_35-MCC160comments.doc [6].
Summary of change	The cellIndividualOffeset of GSM Cell 2 is also parameterized in cs_MeasurementControlInterRATMeas_Event3b_3c_3dNoCompMode. The actual values passed for this new formal parameter is tsc_InterRATCellIndividualOffset for tc_8_4_1_36.
Other affected objects	cs_MeasurementControlInterRATMeas_Event3b_3c_3dNoCompMode (see T1s040361 [5])
ETSI comment	
Change Label	WA#2G3RRC0325
Reason for change	Timer t_WaitMS when used to receive the first measurement report (step 5) is too short for a UE that uses compressed mode.
Summary of change	Timer t_WaitMS started with 8000ms instead of 200 ms + tolerance; the related assignment for tcv_Tolerance is removed.
Other affected objects	
ETSI comment	
Change Label	WA#2G3RRC0326
Reason for change	When waiting for the first measurement report (step 5), timer t_WaitMS is not cancelled after the report was received.
Summary of change	Add a behaviour line CANCEL t_WaitMS.
Other affected objects	
ETSI comment	

Change Label	WA#2G3RRC0327
Reason for change	In tc_8_4_1_36, when reporting event 3d for the first time (step 5) the UE may not have the full set of measurements ready, so several forms of the measurement report with restricted information contents must be considered as alternatives.
Summary of change	Introduce new local test step lt_Receive_Measurement_Report1 that allows reception of alternative forms for the first measurement report (step 5).
Other affected objects	
ETSI comment	
Change Label	WA#2G3RRC0328
Reason for change	In TC 8.4.1.36, cr_MeasReportInterRatMeas is used to receive a measurement report containing two measured results. Alternatively, the UE may send a measurement report containing only one measured result.
Summary of change	Introduce new constraint cr_MeasReportInterRatMeas1 similar to cr_MeasReportInterRatMeas but containing only one measured result, and add an alternative receive statement applying this constraint.
Other affected objects	cr_MeasReportInterRatMeas1
ETSI comment	
R&S conclusion	

Test Case				

Test Case Id: tc_8_4_1_36
Test Group Reference: RRC_Measurements/
Purpose: 1. To confirm that the UE sends MEASUREMENT REPORT message if event 3d is configured, and if the best cell changes in the other system. To confirm that no other UE MEASUREMENT REPORT message is sent by the UE for a cell that has already triggered event 3d as long as the hysteresis condition for triggering once again event 3d has not been fulfilled.
Configuration:
Defaults: RRC_Def1
Comments: @SIC_NAPP

Nr	Label	Behaviour Description	Constraint Ref	V..	Comments
1		START t_Guard			
2		[px_RAT=fdd]			FDD specific behaviour

...

	lt_TestBody				
18	TBS	(tcv_TestBody = TRUE)			
19		+ts_CalculateActTime (tsc_CellA)			
20		+lt_Step2_To4_WithOrWithoutCompMode			
21		START t_WaitMS (8000)			Initialize the wait timer to 8000 ms seconds WA#2G3RRC0325
22	TBF1	? TIMEOUT t_WaitMS		(F)	
23		+lt_Receive_Measurement_Report1			Step 5 in prose WA#2G3RRC0327 WA#2G3RRC0326
24		CANCEL t_WaitMS			
25		(tcv_G_CellInfoA.downlinkPowerLevel = tsc_G_DL_PowerLevel_23EMF, tcv_G_CellInfoB.downlinkPowerLevel = tsc_G_DL_PowerLevel_43EMF)			Step 6 in prose, Initialise parameters such that power levels at time T1 can be configured.

...

lt_Step2_To4_WithOrWithoutCompMode				
68	[[(NOT pc_InterRAT_DL_CompressedModeRequired) AND (NOT pc_InterRAT_UL_CompressedModeRequired)]]			
69	AM ! RLC_AM_DATA_REQ	cas_MeasurementControl (tsc_CellDedicated, tsc_RB2, cs_MeasurementControlInterRATMeas_Event3b_3c_3dNoCompMode (tcv_CellIndInfo dl_IntegrityCheck Info, tcv_RRC_TI, 3, OMIT, OMIT, tsc_InterRATCellIndividualOffset, tsc_InterRATCellIndividualOffset, c_InterRAT_Event3d))	Step 4 in prose WA#2G3RRC0323	
70	[[(pc_InterRAT_DL_CompressedModeRequired) OR (pc_InterRAT_UL_CompressedModeRequired)]			
71	=lt_PhyChReconf_CompresseModeActivate			
72	+ts_CalculateActTime (tsc_CellA)			
73	+ts_CPHY_TGCFN_250_252_254 (tsc_CellA)			
74	AM ! RLC_AM_DATA_REQ	cas_MeasurementControl (tsc_CellDedicated, tsc_RB2, cs_MeasurementControlInterRATMeas_Event3b_3c_3dWithCompMode (tcv_CellIndInfo dl_IntegrityChe ckInfo, tcv_RRC_TI, 3, OMIT, OMIT, tsc_InterRATCellIndividualOffset, tsc_InterRATCellIndividualOffset, c_InterRAT_Event3d, tcv_TGPSRFCN , tcv_TGCFN_252, tcv_TGCFN_254, tcv_TGCFN_250))	Step 4 in prose	
75	[(pc_InterRAT_DL_CompressedModeRequired) AND (pc_InterRAT_UL_CompressedModeRequired)]		WA#2G3RRC0285	
76	CPHY ! CPHY_RL_Modify_REQ	ca_CompressedModeStatusInfo_REQ (tsc_CellA, tsc_DL_DPCH1, tcv_ActTime, c_DPCH_CompressedModeStatusInfoActive_TGPSIList)tcv_TGPSRFCN, 1,2,3, tcv_TGCFN_252, tcv_TGCFN_254, tcv_TGCFN_250))	WA#2G3RRC0285 WA#2G3RRC0286	
77	CPHY ? CPHY_RL_Modify_CNF	ca_CompressedModeInfoCNF (tsc_CellA, tsc_DL_DPCH1)	WA#2G3RRC0285	
78	CPHY ! CPHY_RL_Modify_REQ	ca_CompressedModeStatusInfo_REQ (tsc_CellA, tsc_UL_DPCH1, tcv_ActTime, c_DPCH_CompressedModeStatusInfoActive_TGPSIList)tcv_TGPSRFCN, 1,2,3, tcv_TGCFN_252, tcv_TGCFN_254, tcv_TGCFN_250))	WA#2G3RRC0285 WA#2G3RRC0286	
79	CPHY ? CPHY_RL_Modify_CNF	ca_CompressedModeInfoCNF (tsc_CellA, tsc_UL_DPCH1)	WA#2G3RRC0285	
80	[pc_InterRAT_DL_CompressedModeRequired]		WA#2G3RRC0285	
81	CPHY ! CPHY_RL_Modify_REQ	ca_CompressedModeStatusInfo_REQ (tsc_CellA, tsc_DL_DPCH1, tcv_ActTime, c_DPCH_CompressedModeStatusInfoActive_TGPSIList)tcv_TGPSRFCN, 1,2,3, tcv_TGCFN_252, tcv_TGCFN_254, tcv_TGCFN_250))	WA#2G3RRC0285 WA#2G3RRC0286	
82	CPHY ? CPHY_RL_Modify_CNF	ca_CompressedModeInfoCNF (tsc_CellA, tsc_DL_DPCH1)	WA#2G3RRC0285	
83	[pc_InterRAT_UL_CompressedModeRequired]		WA#2G3RRC0285	
84	CPHY ! CPHY_RL_Modify_REQ	ca_CompressedModeStatusInfo_REQ (tsc_CellA, tsc_UL_DPCH1, tcv_ActTime, c_DPCH_CompressedModeStatusInfoActive_TGPSIList)tcv_TGPSRFCN, 1,2,3, tcv_TGCFN_252, tcv_TGCFN_254, tcv_TGCFN_250))	WA#2G3RRC0285 WA#2G3RRC0286	
85	CPHY ? CPHY_RL_Modify_CNF	ca_CompressedModeInfoCNF (tsc_CellA, tsc_UL_DPCH1)	WA#2G3RRC0285	
lt_Step8_WithOrWithoutCompMode				
86	[[(NOT pc_InterRAT_DL_CompressedModeRequired) AND (NOT pc_InterRAT_UL_CompressedModeRequired)]]			
87	AM ! RLC_AM_DATA_REQ	cas_MeasurementControl (tsc_CellDedicated, tsc_RB2, cs_MeasurementControlReleaseInterRATMeas_Event3dNoCompMode (tcv_CellIndInfo dl_IntegrityCheckInfo, tcv_RRC_TI, 3))	Step 8 in prose	
88	[[(pc_InterRAT_DL_CompressedModeRequired) OR (pc_InterRAT_UL_CompressedModeRequired)]			

89	AM ! RLC_AM_DATA_REQ	cas_MeasurementControl (tsc_CellDedicated, tsc_RB2, cs_MeasurementControlReleaseInterRATMeas_Event3d (tcv_CellIndInfo.dl_IntegrityCheckInfo, tcv_RRC_TI, 3, tcv_TGPSRFCN))	Step 8 in prose
90	[(pc_InterRAT_DL_CompressedModeRequired) AND (pc_InterRAT_UL_CompressedModeRequired)]		WA#2G3RRC0285
91	CPHY ! CPHY_RL_Modify_REQ	ca_CompressedModeStatusInfo_REQ (tsc_CellA, tsc_DL_DPCH1, tcv_ActTime, c_DPCH_CompressedModeStatusInfoDeactive(tcv_TGPSRFCN, 1))	WA#2G3RRC0285
92	CPHY ? CPHY_RL_Modify_CNF	ca_CompressedModeInfoCNF (tsc_CellA, tsc_DL_DPCH1)	WA#2G3RRC0301 WA#2G3RRC0285
93	CPHY ! CPHY_RL_Modify_REQ	ca_CompressedModeStatusInfo_REQ (tsc_CellA, tsc_DL_DPCH1, tcv_ActTime, c_DPCH_CompressedModeStatusInfoDeactive(tcv_TGPSRFCN, 2))	WA#2G3RRC0285
94	CPHY ? CPHY_RL_Modify_CNF	ca_CompressedModeInfoCNF (tsc_CellA, tsc_DL_DPCH1)	WA#2G3RRC0285
95	CPHY ! CPHY_RL_Modify_REQ	ca_CompressedModeStatusInfo_REQ (tsc_CellA, tsc_DL_DPCH1, tcv_ActTime, c_DPCH_CompressedModeStatusInfoDeactive(tcv_TGPSRFCN, 3))	WA#2G3RRC0285
96	CPHY ? CPHY_RL_Modify_CNF	ca_CompressedModeInfoCNF (tsc_CellA, tsc_DL_DPCH1)	WA#2G3RRC0285
97	CPHY ! CPHY_RL_Modify_REQ	ca_CompressedModeStatusInfo_REQ (tsc_CellA, tsc_UL_DPCH1, tcv_ActTime, c_DPCH_CompressedModeStatusInfoDeactive(tcv_TGPSRFCN, 1))	WA#2G3RRC0285
98	CPHY ? CPHY_RL_Modify_CNF	ca_CompressedModeInfoCNF (tsc_CellA, tsc_UL_DPCH1)	WA#2G3RRC0301 WA#2G3RRC0285
99	CPHY ! CPHY_RL_Modify_REQ	ca_CompressedModeStatusInfo_REQ (tsc_CellA, tsc_UL_DPCH1, tcv_ActTime, c_DPCH_CompressedModeStatusInfoDeactive(tcv_TGPSRFCN, 2))	WA#2G3RRC0285
100	CPHY ? CPHY_RL_Modify_CNF	ca_CompressedModeInfoCNF (tsc_CellA, tsc_UL_DPCH1)	WA#2G3RRC0285
101	CPHY ! CPHY_RL_Modify_REQ	ca_CompressedModeStatusInfo_REQ (tsc_CellA, tsc_UL_DPCH1, tcv_ActTime, c_DPCH_CompressedModeStatusInfoDeactive(tcv_TGPSRFCN, 3))	WA#2G3RRC0285
102	CPHY ? CPHY_RL_Modify_CNF	ca_CompressedModeInfoCNF (tsc_CellA, tsc_UL_DPCH1)	WA#2G3RRC0285
103	[pc_InterRAT_DL_CompressedModeRequired]		WA#2G3RRC0285
104	CPHY ! CPHY_RL_Modify_REQ	ca_CompressedModeStatusInfo_REQ (tsc_CellA, tsc_DL_DPCH1, tcv_ActTime, c_DPCH_CompressedModeStatusInfoDeactive(tcv_TGPSRFCN, 1))	WA#2G3RRC0285
105	CPHY ? CPHY_RL_Modify_CNF	ca_CompressedModeInfoCNF (tsc_CellA, tsc_DL_DPCH1)	WA#2G3RRC0301 WA#2G3RRC0285
106	CPHY ! CPHY_RL_Modify_REQ	ca_CompressedModeStatusInfo_REQ (tsc_CellA, tsc_DL_DPCH1, tcv_ActTime, c_DPCH_CompressedModeStatusInfoDeactive(tcv_TGPSRFCN, 2))	WA#2G3RRC0285
107	CPHY ? CPHY_RL_Modify_CNF	ca_CompressedModeInfoCNF (tsc_CellA, tsc_DL_DPCH1)	WA#2G3RRC0285
108	CPHY ! CPHY_RL_Modify_REQ	ca_CompressedModeStatusInfo_REQ (tsc_CellA, tsc_DL_DPCH1, tcv_ActTime, c_DPCH_CompressedModeStatusInfoDeactive(tcv_TGPSRFCN, 3))	WA#2G3RRC0285
109	CPHY ? CPHY_RL_Modify_CNF	ca_CompressedModeInfoCNF (tsc_CellA, tsc_DL_DPCH1)	WA#2G3RRC0285
110	[pc_InterRAT_UL_CompressedModeRequired]		WA#2G3RRC0285
111	CPHY ! CPHY_RL_Modify_REQ	ca_CompressedModeStatusInfo_REQ (tsc_CellA, tsc_UL_DPCH1, tcv_ActTime, c_DPCH_CompressedModeStatusInfoDeactive(tcv_TGPSRFCN, 1))	WA#2G3RRC0285
112	CPHY ? CPHY_RL_Modify_CNF	ca_CompressedModeInfoCNF (tsc_CellA, tsc_UL_DPCH1)	WA#2G3RRC0301 WA#2G3RRC0285

113		CPHY ! CPHY_RL_Modify_REQ	ca_CompressedModeStatusInfo_REQ (tsc_CellA, ts c_UL_DPCH1, tcv_ActTime, c_DPCH_CompressedModeStatusInfoDeactive(tcv_ TGPSRFCN, 2))		WA#2G3RRC0285
114		CPHY ? CPHY_RL_Modify_CNF	ca_CompressedModeInfoCNF (tsc_CellA, tsc_UL_ DPCH1)		WA#2G3RRC0285
115		CPHY ! CPHY_RL_Modify_REQ	ca_CompressedModeStatusInfo_REQ (tsc_CellA, ts c_UL_DPCH1, tcv_ActTime, c_DPCH_CompressedModeStatusInfoDeactive(tcv_ TGPSRFCN, 3))		WA#2G3RRC0285
116		CPHY ? CPHY_RL_Modify_CNF	ca_CompressedModeInfoCNF (tsc_CellA, tsc_UL_ DPCH1)		WA#2G3RRC0285
lt_Receive_no_Measurement_Report					
117		START t_WaitMS (3* 1000)			Initialize the wait timer to 3 se conds
118		? TIMEOUT t_WaitMS		(P)	
119	TBF3	AM ?RLC_AM_DATA_IND CANCEL t_WaitMS	car_MeasurementReport (tsc_CellDedicated, tsc_RB2, cr_MeasReportInterRatMeas (*, *, *, *, *))	(F)	
lt_Receive_Measurement_Report1					
120		AM ?RLC_AM_DATA_IND	car_MeasurementReport (tsc_CellDedicated, tsc_RB2, cr_MeasReportInterRatMeas (3 , OMIT , verifiedBSIC : tsc_GSM_InterRAT_CellA, verifiedBSIC : tsc_GS M_InterRAT_CellB, c_InterRATMeas_EventResults3 a_3b_3c_3d(e3d ,tsc_GSM_InterRAT_CellA)))	(P)	Step 5 in prose WA#2G3RRC0327
121		AM ?RLC_AM_DATA_IND	car_MeasurementReport (tsc_CellDedicated, tsc_RB2, cr_MeasReportInterRatMeas (3 , OMIT , verifiedBSIC : tsc_GSM_InterRAT_CellA , nonVerifiedBSIC : 7, c_ InterRATMeas_EventResults3a_3b_3c_3d(e3d ,tsc_ GSM_InterRAT_CellA)))	(P)	Step 5 in prose WA#2G3RRC0327
122		AM ?RLC_AM_DATA_IND	car_MeasurementReport (tsc_CellDedicated, tsc_RB2, cr_MeasReportInterRatMeas1 (3 , OMIT , verifiedBSI C : tsc_GSM_InterRAT_CellA, c_InterRATMeas_Eve ntResults3a_3b_3c_3d(e3d ,tsc_GSM_InterRAT_Ce llA)))	(P)	Step 5 in prose WA#2G3RRC0327 WA#2G3RRC0328

Detailed Comment:

4.4 Other modifications relevant for tc_8_4_1_36

4.3.1 cr_MeasReportInterRatMeas1

TTCN object	cr_MeasReportInterRatMeas1
Reference ATS	IR_U_wk23.mp [2]
Change Label	WA#2G3RRC0328
Reason for change	In TC 8.4.1.36, cr_MeasReportInterRatMeas is used to receive a measurement report containing two measured results. Alternatively, the UE may send a measurement report containing only one measured result. A new constraint is required for this purpose.
Summary of change	Introduce new constraint cr_MeasReportInterRatMeas1 similar to cr_MeasReportInterRatMeas but containing only one measured result.
Other affected objects	tc_8_4_1_36
ETSI comment	
R&S conclusion	

```
                          ASN.1 PDU Constraint Declaration
Constraint Name:    cr_MeasReportInterRatMeas1 (
                    p_measId: INTEGER;
                    p_observedTimeDifferenceToGSM : INTEGER;
                    p_BSICReported1 : BSICReported ;
                    p_eventResults : EventResults
                    )
Group:
PDU Name:           UL_DCCH_Message
Derivation Path:
Encoding Rule Name:
Encoding Variation:
Comments:           @SIC_NAPP
                    WA#2G3RRC0328
```

```
                               Constraint Value
{
integrityCheckInfo *,
message measurementReport :
{
 measurementIdentity p_measId,
 measuredResults interRATMeasuredResultsList :
 {
  gsm : {
   {
    gsm_CarrierRSSI ?,
    dummy OMIT,
    -- pathloss OMIT,
    bsicReported p_BSICReported1,
    observedTimeDifferenceToGSM p_observedTimeDifferenceToGSM
   }
  }
 },
 measuredResultsOnRACH OMIT,
 additionalMeasuredResults OMIT,
 eventResults p_eventResults,
 v390nonCriticalExtensions *
}
}
```

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_4_1_36, 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#2G3RRC0244	ts_RRC_ReceiveConnSetupCmpl	IR_U_wk23.mp [3]	T1s040361
WA#2G3RRC0292	IntersystemDef	IR_U_wk20.mp [3]	T1s040347
WA#2G3RRC0292	tcv_AcceptDetachFromPreviousCell	New	T1s040347
WA#2G3RRC0320	ts_CPHY_TGCFN_250_252_254	IR_U_wk23.mp [3]	T1s040361
WA#2G3RRC0321	c_DL_CommonInformation_EventTriggerCompModeDL_UL	IR_U_wk23.mp [3]	T1s040361
WA#2G3RRC0323	cs_MeasurementControlInterRATMeas_Event3b_3c_3dNoCompMode	IR_U_wk23.mp [3]	T1s040361

5 Branches executed in test case 8.4.1.36

The test case was executed for the GSM 900 band in Combined Attach (CSPS) Mode, with automatic attach switched on and switched off, with Integrity activated and Ciphering disabled. UL and DL compressed modes were activated.

6 Supplementary information

6.1 ATS

The TTCN ATS containing modified tc_8_4_1_36 (IR_U_8_4_1_36.mp) is contained in T1s040365.zip [1].

6.2 Nokia 3G UE 7600 log files

The Nokia 3G UE 7600 passed this test case in Combined Attach (CSPS) mode, with automatic attach switched on and switched off, 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 T1s040365.zip [1]:

a1) **Execution log files 8-4-1-36-Nokia-CSPS-AutAttachOn-UL-DL-compmode-PASS(900)-html-logs\Index.html**
This execution log files in HTML format show the dynamic behaviour of the test's CSPS 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.

a2) **Execution log files 8-4-1-36-Nokia-CSPS-AutAttachOff-UL-DL-compmode-PASS(900)-html-logs\Index.html**
This execution log files in HTML format show the dynamic behaviour of the test's CSPS 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.

b1) **PICS/PIXIT file TC_8_4_1_36_Nokia_CSPS_AutAttOn_900_Pics_Pixit.txt**
Text file containing all PICS/PIXIT parameters used for a1).

b2) **PICS/PIXIT file TC_8_4_1_36_Nokia_CSPS_AutAttOff_900_Pics_Pixit.txt**
Text file containing all PICS/PIXIT parameters used for a2).

7 References

[1]		T1s040365.zip Archive comprising HTML Execution log files, PICS/PIXIT files and the TTCN MP file for the current CR (supplementary information).
[2]		IR_U_wk23.mp ETSI RRC ATS version of week 23 (2004).
[3]		IR_U_wk20.mp ETSI RRC ATS version of week 20 (2004).
[4]		T1s040347 Previous R&S CR (on tc_6_2_1_1) containing change proposals also referred to in the current CR.
[5]		T1s040361 Previous R&S revised CR (on tc_8_4_1_35) containing change proposals also referred to in the current CR.
[6]		Anite's_additional_modifications to_8_4_1_35-MCC160comments.doc Additional modification proposals for tc_8_4_1_35 from Anite.

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#2G3RRC0244	ts_RRC_ReceiveConnSetupCmpl	IR_U_wk23.mp [2]
WA#2G3RRC0285	tc_8_4_1_36	IR_U_wk23.mp [2]
WA#2G3RRC0286	tc_8_4_1_36	IR_U_wk23.mp [2]
WA#2G3RRC0292	tcv_AcceptDetachFromPreviousCell	New
WA#2G3RRC0292	IntersystemDef	IR_U_wk20.mp [3]
WA#2G3RRC0301	tc_8_4_1_36	IR_U_wk23.mp [2]
WA#2G3RRC0320	ts_CPHY_TGCFN_250_252_254	IR_U_wk23.mp [2]
WA#2G3RRC0321	c_DL_CommonInformation_EventTriggerCompModeDL_UL	IR_U_wk23.mp [2]
WA#2G3RRC0323	cs_MeasurementControlInterRATMeas_Event3b_3c_3dNoCompMode	IR_U_wk23.mp [2]
WA#2G3RRC0323	tc_8_4_1_36	IR_U_wk23.mp [2]
WA#2G3RRC0325	tc_8_4_1_36	IR_U_wk23.mp [2]
WA#2G3RRC0326	tc_8_4_1_36	IR_U_wk23.mp [2]
WA#2G3RRC0327	tc_8_4_1_36	IR_U_wk23.mp [2]
WA#2G3RRC0328	cr_MeasReportInterRatMeas1	New

CR-Form-v7

CHANGE REQUEST

⌘ **TS 34.123-3 CR** ³⁷⁷ ⌘**rev** - ⌘ Current version: **3.6.1** ⌘

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 8.3.2.12 to RRC ATS V3.6.1
Source: ⌘	Rohde & Schwarz
Work item code:⌘	N/A ***Date:*** ⌘ 12/07/2004
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 verified GCF package 3 RRC test case 8.3.2.12 to the approved RRC ATS V3.6.1
Summary of change:⌘	This document lists all changes applied to test case 8.3.2.12 required for approval. See detailed change description for further information.
Consequences if not approved: ⌘	Test case will not be added to ATS

Clauses affected: ⌘	N/A

	Y	N		
Other specs affected: ⌘		X	Other core specifications ⌘	
		X	Test specifications	
		X	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 8.3.2.12 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 8.3.2.12 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.

2 Table of Contents

3 Verification Test Summary

Test Case: TC_8_3_2_12

Test Group: RRC/ RRC_URA_Update /

ATS Version: iWD-TVB2003-03_D04wk26 + 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 8.3.2.12

4.1 Introduction

This section describes the changes required to make test case 8.3.2.12 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_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.

4.2 Tsc_RejCauRoam_NA (WA#RRC4336)

Test step name   Tsc_RejCauRoam_NA

Reason for change   To include reject cause Roaming not allowed.

Summary of change   Added new constant tsc_RejCauRoam_NA

Source of change   New change

Label   WA#RRC44336

tsc_RejCauRoam_NA	RejCau	'0D'O	reject cause: Roaming not allowed in this location Area. WA#RRC4336

4.3 tcv_UE_SwitchOnRequired (WA#RRC4508)

Test step name   tcv_UE_SwitchOnRequired

Reason for change   To control the Switch ON commands when re using common test steps

Summary of change   Introduced a new test case variable tcv_UE_SwitchOnRequired

Source of change   New change

Label   WA#RRC4508

tcv_UE_SwitchOnRequired	BOOLEAN	TRUE	This TCV is used in test step ts_MMI_UE_SwitchOn. When set to FALSE the MMI command is not sent. WA#RRC4508

4.4 Tc_8_3_2_12 (WA#RRC4500)

Test step name	tc_8_3_2_12
Reason for change	In the +ts_IdleUpdatedSpecial test step, after the location update is rejected the test steps follows to do +ts_AT_TriggerGMM_Attach, this should not be the case. Therefore introduced a new test step and deleleted ts_AT_TriggerGMM_Attach.
Summary of change	replaced +ts_GMM_IdleUpdatedSpecial_8_3_2_12 (tsc_CellB,tsc_StartRej) for +ts_IdleUpdatedSpecial(tsc_CellB,tsc_StartRej)
Source of change	New change
Label	WA#RRC4500

4.5 Tc_8_3_2_12 (WA#RRC4505)

Test step name	tc_8_3_2_12
Reason for change	Accoding to the prose Cell2 must be switched off.
Summary of change	Changed the following in tc_8_3_2_12 Line 7 **from** +ts_SetAttenuationLevel (tsc_CellB, 30) **To** +ts_SS_SwitchCellOff (tsc_CellB)
Source of change	New change
Label	WA#RRC4505

4.6 Tc_8_3_2_12 (WA#RRC4509)

Test step name	tc_8_3_2_12
Reason for change	In order to avoid the execution of the switch ON MMI commands.
Summary of change	Assigned (tcv_UE_SwitchOnRequired:= FALSE) before + pr_GotoState6_11_MO (tsc_CellA) and assigned (tcv_UE_SwitchOnRequired:= TRUE) after the test step pr_GotoState6_11_MO (tsc_CellA)
Source of change	New change
Label	WA#RRC4509

...	Lab...	Behaviour Description	Constraint Ref	...	Comments

Test Case Id:	tc_8_3_2_12
Test Group Reference:	RRC/RRC_URA_Update/
Purpose:	1.To confirm that the UE refrains from selects a UTRA cell and performs a URA update if that cell has a LA identity that is part of the list of LAs stored in the UE as "forbidden location areas for roaming". NOTE: Test case in 8.3.2.1 is a test where the UE reselects to a cell with the same LA identity as the LA identity in the original cell.
Configuration:	
Defaults:	RRC_Def1
Comments:	@SIC_NAPP

...	Lab...	Behaviour Description	Constraint Ref	...	Comments
1		START t_Guard			
2		[px_RAT=fdd]			FDD specific behaviour
3		+It_InitVariables			Initial Test Case Variables
4		+ts_SS_CreateCellFACH (tsc_CellB)			Configure lower tester
5		+ts_SendDefSysInfo (tsc_CellB)			Sends the default system information in CellB
6		+ts_GMM_IdleUpdatedSpecial_8_3_2_12 (tsc_CellB,l_St_StartRej)			Reject with Location area not t allowed WA#RRC4500
7		+ts_SS_SwitchCellOff (tsc_CellB)			Step 2; Set Atte as per table 8.3.2.12-1 of T0 WA#RRC4505
8		(tcv_UE_SwitchOnRequired:= FALSE)			WA#RRC4509
9		+ pr_GotoState6_11_MO (tsc_CellA)			Initial Test Case Variables
10		(tcv_UE_SwitchOnRequired:= TRUE)			WA#RRC4509
11	TBS	(tcv_TestBody:=TRUE)		(P)	Initial Test Case Variables
12		+ts_TransitToURA_PCH_P47_P18 (tsc_CellA)			Step 1. Bring UE to URA_PCH status
13		+It_TestBody			
14		+ ts_C5_CheckURA_PCH (tsc_CellA)			
15	TBE	(tcv_TestBody:=FALSE)			
16		+po_ConnectionAndSS_Rel (tsc_CellA)			Postamble
17	ERR1	[px_RAT=tdd]		I	TDD specific behaviour
18	ERR2	[TRUE]		I	

4.7 ts_GMM_IdleUpdatedSpecial_8_3_2_12 (WA#RRC4501)

Test step name	ts_GMM_IdleUpdatedSpecial_8_3_2_12
Reason for change	In the +ts_IdleUpdatedSpecial test step, after the location update is rejected the test steps follows to do +ts_AT_TriggerGMM_Attach, this should not be the case. Therefore introduced a new test step and deleleted ts_AT_TriggerGMM_Attach.
Summary of change	Removed ts_AT_TriggerGMM_Attach after ts_MMIdleUpdatedSpecial_NMO_I
Source of change	New change
Label	WA#RRC4501

Test Step Id:	ts_GMM_IdleUpdatedSpecial_8_3_2_12 (p_CellId : INTEGER; p_CaseId : INTEGER)			
Test Step Group Ref:	RRC_SS_Specific/			
Objective:	Turn on UE and register for PS or combined PS/CS services / special cases			
Defaults:	NAS_OtherwiseFail			
Comments:	Initial conditions:			

Comments:
Initial conditions:
- Cell referenced by p_CellId is configured and sending SysInfos on BCCH
- UE is switched off with a USIM inserted

Input paramters:
- p_CellId referencing the Cell
- p_CaseId the special case to be executed
  [p_CaseId = tsc_StartRe()]: execute location update reject / attach reject procedures with cause LA not allowed, resulting in a deletion of st
ored USIM paramters (LAI, RAI, TMSI, P-TMSI, CKSN etc:) except that LAI and RAI are stored in the list of forbidden LAs and RAs.
  [p_CaseId = tsc_StartIMSI]: execute IMSI attach (but do not assign TMIS, P-TMSI, etc)
  [p_CaseId = tsc_StartPLMN_Not]: execute location update reject / attach reject procedures with cause 'PLMN not allowed'
WA#RRC4501

Nr	Label	Behaviour Description	Constraint Ref	V...	Comments
1		+ts_SetTmpCellInfo (p_CellId)			
2		[(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.
3		[pc_AutomaticAttachSwitchON]			ATTACH REQUEST was NOT yet received and the UE does not automatically attach at switch on
4		+ ts_MMI_UE_SwitchOn			@sic ER1664 sic@
5		+ts_RRC_ConnEst(p_CellId, est_Reg, registration)			Establish RRC connection
6		+lt_AttachRequest			ATTACH REQUEST sent by the UE (for PS attach or CS/PS combined procedure)
7		+lt_GMMIdleUpdatedSpecial (p_CaseId)			
8		[NOT pc_AutomaticAttachSwitchON]			ATTACH REQUEST was NOT yet received and the UE does not automatically attach at switch on
9		+ts_MMI_UE_SwitchOn			
10		+ts_MMIdleUpdatedSpecial_NMO_I (p_CellId, p_CaseId)			
11		[(tcv_UE_OpMode = opModeA) AND (tcv_TmpCellInfo.nmo = tsc_NMO_I)]			If UE is in operation mode A and network mode of operation

4.8 ts_GMM_IdleUpdatedSpecial_8_3_2_12: lt_GMMIdleUpdatedSpecial (WA#RRC4504)

Test step name   ts_GMM_IdleUpdatedSpecial_8_3_2_12: lt_GMMIdleUpdatedSpecial

Reason for change   The Cause Roaming Not Allowed will only store the Location Area Id to the **Forbidden** location area for roaming.

The Cause Location area not allowed will only store the LA Id to location areas for regional provision of service (Required when testing with Auto Attach)

Summary of change   Changed the Rejection Cause to Roam Not allowed

Source of change   New change

Label   WA#RRC4504

4.9 ts_GMM_IdleUpdatedSpecial_8_3_2_12: lt_GMMIdleUpdatedSpecial (WA#RRC4506)

Test step name   ts_GMM_IdleUpdatedSpecial_8_3_2_12: lt_GMMIdleUpdatedSpecial

Reason for change	The Cell Config condition will be Cell –FACH and therefore the condition must be checked and call the appropriate connection release procedure. (Required when testing with Auto Attach)
Summary of change	Changed the following in ts_GMM_IdleUpdatedSpecial_8_3_2_12 : lt_GMMIdleUpdatedSpecial **from** +ts_RRC_ConnRel(p_CellId, cell_Dch) **to** +lt_RRC_ConnRel
Source of change	New change
Label	WA#RRC4506

lt_GMMIdleUpdatedSpecial (p_CaseId : INTEGER)			
19	[p_CaseId = tsc_StartRej]		execute location reject t / Attach reject procedures resulting in a deletion of stored USIM paramters (LAI, RAI, TMSI, P-TMSI, CKSN etc) except that LAI and RAI are stored in the list of forbidden LAs and RAs.
20	Dc ! RRC_DataReq	ca_PS_DataReq(tsc_CellDedicated, tsc_RB3, ca_AttachRej, tsc_RejCauRoam_NA))	ATTACH REJECT - GMM cause 'Location Area Not Allowed' 3GPP 24.008/10.5.5.14. WA#RRC4504
21	+lt_RRC_ConnRel		RRC connection release WA#RRC4506

4.10 ts_MMIdleUpdatedSpecial_NMO_I (WA#RRC4337)

Test step name	ts_MMIdleUpdatedSpecial_NMO_I
Reason for change	The Cause Roaming Not Allowed will only store the Location Area Id to the **Forbidden** location area for roaming. The Cause Location area not allowed will only store the LA Id to location areas for regional provision of service
Summary of change	Changed the Rejection Cause to Roam Not allowed
Source of change	New change
Label	WA#RRC4337

4.11 ts_MMIdleUpdatedSpecial_NMO_I (WA#RRC4331)

Test step name	ts_MMIdleUpdatedSpecial_NMO_I
Reason for change	The UE should not be switched off/ON after the Location update Reject procedure. If the UE is switched ON/OFF then the Forbidden list will be erased.
Summary of change	Removed +ts_MM_PwrOrUSIM_Off(tsc_USIM_NeedRmv) after lt_RRC_ConnRel,when p_StartType = tsc_StartRej
Source of change	New change
Label	WA#RRC4331

4.12 ts_SS_ReconfNoDedicatedToCellFACH (WA#RRC4339)

Test step name   ts_SS_ReconfNoDedicatedToCellFACH

Reason for change   To add BCCH FACH for Cell A as it was not configured initially

Summary of change   Added test step +ts_SS_RB_BCCH_FACH_Cfg_Selectively(p_CellId)

Source of change   New change

Label   WA#RRC4339

4.13 tc_8_3_2_12 (WA#RRC4330)

Test step name   tc_8_3_2_12

Reason for change   To restore the power value for postamble procedures.

Summary of change   Added the test step ts_SetAttenuationLevel (tsc_CellA, 0)

Source of change   New change

Label		WA#RRC4330		

		t_TestBody			
17		+ts_SetAttenuationLevel (tsc_CellB, 12)			Set Atte as per table 8.3.2.12-1 of T 1
18		+ts_SetAttenuationLevel (tsc_CellA, 18)			Set Atte as per table 8.3.2.12-1 of T 1
19		START t_WaitS			
20	TBF1	TM ? RLC_TR_DATA_IND CANCEL t_WaitMS	car_URA_Update(tsc_CellB, tsc_RB0, cr_100_URA_U pdate (?,?,nsError:NULL))	(F)	
21	TBP1	? TIMEOUT t_WaitS		(P)	Wait to check no response comes o n Cell B
22		+ts_SetAttenuationLevel (tsc_CellA, 0)			WA#RRC4330
		t_InitVariable			

4.14 tc_8_3_2_12 (WA#RRC4507)

Test step name	ts_MMI_UE_SwitchOn
Reason for change	To control the Switch on MMI commands by the variable tcv_UE_SwitchOnRequired
Summary of change	Added condition [tcv_UE_SwitchOnRequired = TRUE]
Source of change	New change
Label	WA#RRC4507

Test Step					
Test Step Id:	ts_MMI_UE_SwitchOn				
Test Step Group Ref:	BasicM_UT_Steps/				
Objective:	To make the operator switch on the UE				
Defaults:	UT_OtherwiseFail				
Comments:	WA#RRC4507				

...	Lab...	Behaviour Description	Constraint Ref	...	Comments
1		[tcv_UE_SwitchOnRequired = TRUE]			
2		Ut ! MMI_CmdReq	ca_MMI_CmdReq ("Please switch on the U E")		
3		Ut ? MMI_CmdCnf	ca_MMI_CmdCnf		
4		[TRUE]			

Branches executed in test case 8.3.2.12

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

5   Execution Log Files

5.1   Nokia 3G Ue 7600

The Nokia 3G UE 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 8_3_2_12_Auto_ON_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 8_3_2_12-pics-pixit-Auto-ON-Nokia.html**
  Text file containing all PICS/PIXIT parameters used for testing.

- **Execution log files 8_3_2_12_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 8_3_2_12-pics-pixit-Nokia.html**
  Text file containing all PICS/PIXIT parameters used for testing.

6 References

[1]   **T1s040386**
         This archive comprises HTML Execution log files, PICS/PIXIT files and the TTCN MP file

CR-Form-v7

CHANGE REQUEST

| ⌘ | **TS 34.123-3** CR | 378 | ⌘**rev** | **-** | ⌘ | Current version: | **3.6.1** | ⌘ |

*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 3 test case 14.2.57 to RAB ATS V3.6.1
Source: ⌘	Anite
Work item code:⌘	N/A ***Date:*** ⌘ 14/07/04
Category: ⌘ **B**	***Release:*** ⌘ R99

Use one 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 one 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 3 RAB test case 14.2.57 to the approved RAB ATS V3.6.1
Summary of change:⌘	This document lists all changes applied to test case 14.2.57 required for approval. See detailed change description for further information.
Consequences if not approved: ⌘	Test case will not be added to ATS

Clauses affected: ⌘	

	Y	N	
Other specs ⌘		X	Other core specifications ⌘
affected:		X	Test specifications
		X	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 14.2.57 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 14.2.57, 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.

2 Table of Contents

3 Verification Test Summary

Test Case:	tc_14_2_57
Test Group:	RAB/CombinationOnDPCH/InteractBackgrnd_InteractBackgrnd
ATS Version:	iWD-TVB2003-03_D04wk26 + essential modifications
System Simulator used:	**Anite 3G U-SAT**
UE used:	Sony Ericsson Z1010
Verification Status:	PASS

4 Corrections required for test case 14.2.57

4.1 Introduction

This section describes the changes required to make test case 14.2.57 run correctly with a 3G UE. The ATS version used as basis was RAB_wk26r1.mp, which is part of the iWD-TVB2003-03_D04wk26 release.

4.2 Change 1

Test step name	c_DL_AddReconfTransChInfoListAM_3_4k_RM192
Reason for change	According to 3GPP TS34.108 section:6.10.2.4.1.2.2.1.1: (Transport channel parameters for DL:3.4 kbps SRBs for DCCH) The value for the rate-matching attribute DCH5 in the DL for should be 192. In the Radio Bearer Setup message, DL DCH is mentioned to be same as UL DCH. For UL DCH rate-matching attribute is 170.
Summary of change	Added a new constraint, which is based on "c_DL_AddReconfTransChInfoListAM_3_4k" with explicit tfs_signalling mode for DL DCH 5.
Source of change	New change

```
                          ASN.1 Type Constraint Declaration
Constraint Name:   c_DL_AddReconfTransChInfoListAM_3_4k_RM192 (p_DedTranChTFS:DedicatedTransChTFS)
Group:
Type Name:         DL_AddReconfTransChInfoList
Derivation Path:
Encoding Variation:
Comments:          @SIC_NAPP
                              Constraint Value
{ {
   dl_TransportChannelType dch,
   dl_transportChannelIdentity tsc_DL_DCH1,
   tfs_SignallingMode explicit_config : dedicatedTransChTFS : p_DedTranChTFS,
   dch_QualityTarget { bler_QualityValue -20 },
   dummy OMIT

   },
   {
   dl_TransportChannelType dch,
   dl_transportChannelIdentity tsc_DL_DCH5,
   tfs_SignallingMode explicit_config : dedicatedTransChTFS : c_DCH_148_TFS_UE_DL,

   dch_QualityTarget { bler_QualityValue -20 },
   dummy OMIT
   }
}
```

4.3   Change 2

Test step	ts_RB_SendRB_SetUp_DCH_64k_PS
Reason for change	1. Wrong value of T314 is used for "re-EstablishmentTimer". As per 34.108 default content for Radio Bearer Setup Message for PS RAB T315 should be used. 2. Wrong value RM attribute for DL DCH5 (Refer 4.2).
Summary of change	1. Replaced "c_ReEstTimerT314" with "useT315" at row 2. 2. Used "c_DL_AddReconfTransChInfoListAM_3_4k_RM192" instead of "c_DL_AddReconfTransChInfoListAM_3_4k" at row 2.
Source of change	New change

Before:

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,
		cb_RAB_InfoListAM2_No_Pdcp (
		c_ReEstTimerT314,
		p_RAB_Id,
		p_RAB_Id2),
		  c_UL_CommTrChInfo_AM0To9(c_PowerOffsetInfoHigher64k) ,
		
		  c_UL_AddReconfTransChInfoListAM1 (c_DCH_340_TFS_20_T C_UE),
		
		  c_DL_CommTrChInfo_AM_0To9,
		c_DL_AddReconfTransChInfoListAM_3_4k(c_DCH_340_TFS_20 _TC_UE),
		c_DL_InformationPerRL (tcv_TmpCellInfo.priScrmCode,
		tsc_Sfc32, tcv_TmpCellInfo.dl_DPCH_2ndScrCode),
		 c_DL_CommonInformationRB_SetUp(tsc_Sfd32) ,
		cb_UL_DPCH_Info (tsc_Sf16, pi0_92, tcv_TmpCellInfo.uL_Scram blingCode)
		,
		OMIT
		)
		)

3	AM ? RLC_AM_DATA_CNF	car_AM_DataMuiCnf (tsc_CellDedicated, tsc_RB2, tsc_Mui)

After:

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,
		cb_RAB_InfoListAM2_No_Pdcp (
		useT315,
		p_RAB_Id,
		p_RAB_Id2),
		  c_UL_CommTrChInfo_AM0To9(c_PowerOffsetInfoHigher64k) ,
		  c_UL_AddReconfTransChInfoListAM1 (c_DCH_340_TFS_20_TC _UE),
		
		  c_DL_CommTrChInfo_AM_0To9,
		c_DL_AddReconfTransChInfoListAM_3_4k_RM192(c_DCH_340_T FS_20_TC_UE),
		c_DL_InformationPerRL (tcv_TmpCellInfo.priScrmCode,
		tsc_Sfc32, tcv_TmpCellInfo.dl_DPCH_2ndScrCode),
		 c_DL_CommonInformationRB_SetUp(tsc_Sfd32) ,
		cb_UL_DPCH_Info (tsc_Sf16, pi0_92, tcv_TmpCellInfo.uL_Scramb lingCode)
		,
		OMIT
		)
		)

3	AM ? RLC_AM_DATA_CNF	car_AM_DataMuiCnf (tsc_CellDedicated, tsc_RB2, tsc_Mui)

4.4 Change 3

Test step	ts_SS_2DCH_ModifyInteractiveBackGround_64k_PS

Reason for change	According to 3GPP TS34.108 section:6.10.2.4.1.2.2.1.1: (Transport channel parameters for DL:3.4 kbps SRBs for DCCH) The value for the rate-matching attribute DCH5 in the DL for should be 192. In this test step "c_DCH_148_TFS_DL" is used in which the RM attribute is set to 170.
Summary of change	At row 4 and 6 replaced "c_DCH_148_TFS_DL" with "c_DCH_148_TFS_DL_RM192"
Source of change	New change

Before:

After:

4.5 Change 4

Test step	cb_RAB_InfoListAM2_No_Pdcp
Reason for change	In the Radio Bearer Setup message UL and DL "logicalChannelIdentity" 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 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: 2> set the variable INVALID_CONFIGURATION to TRUE. Thus UL and DL "logicalChannelIdentity" needs to be set in rb_MappingInfo.
Summary of change	In the constraint changed UL and DL "logicalChannelIdentity" to tsc_UL_DTCH1 and tsc_DL_DTCH1 for RB 20 respectively and to tsc_UL_DTCH2 and tsc_DL_DTCH2 fpr RB22 respectively.
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
      },
      dl_LogicalChannelMappingList
      {(
        dl_TransportChannelType fach:NULL,
        logicalChannelIdentity tsc_DL_DTCH1
      )}
    }
  }
)}
},

{
rab_Info
{ rab_Identity gsm_MAP_RAB_Identity: p_RAB_Id2,
  cn_DomainIdentity ps_domain,
  re_EstablishmentTimer p_ReEstTimer
},
rb_InformationSetupList
{( --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
      )}
    },
```

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 1} , { rlc_SizeIndex 2} },
      mac_LogicalChannelPriority 8
    },
    dl_LogicalChannelMappingList
    {{
      dl_TransportChannelType fach:NULL,
      logicalChannelIdentity tsc_DL_DTCH1
    }}
    }
  }

}}
},

{
 rab_Info
 { rab_Identity gsm_MAP_RAB_Identity: p_RAB_Id2,
  cn_DomainIdentity ps_domain,
  re_EstablishmentTimer p_ReEstTimer
 },
 rb_InformationSetupList
 {{ --RB_InformationSetupList
  rb_Identity tsc_RB22,
  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_DTCH2,
      rlc_SizeList configured :NULL,
      mac_LogicalChannelPriority 8
    },
    dl_LogicalChannelMappingList
    {{
      dl_TransportChannelType dch: tsc_DL_DCH1,
      logicalChannelIdentity tsc_DL_DTCH2
    }}
    },
```

4.6 Change 5

Test step	ts_CRLC_UL_CipherCfg_RAB
Reason for change	Ciphering in UL should be activated independent of the PIXIT px_CipheringOnOff.

	This is wrong.
Summary of change	Added a check for PIXIT px_CipheringOnOff at row 1 and 4
Source of change	New change

Before:

After:

4.7   Change 6

Test step	ts_RB_SubTest_RAB_SRB_RB20
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. With the current code PDUs from the UE are received but these are caught wrongly by the "otherwise" mechanism as they are not expected. For additional information refer to T1s-040254 change number 4.6.
Summary of change	At row 11 and 12 instead of Start timer t_Dly call "ts_ReceiveFirstSDUs_RB20". This test step guarantees that at least one PDU in RB20 is received from the UE before sending the measurement control to the UE.
Source of change	New change

Before:

After:

4.8   Change 7

Test step	ts_ReceiveFirstSDUs_RB20
Reason for change	Refer Change 4.7
Summary of change	Added a new test step, which will ensure that at least one PDU in RB20 is received from the UE before sending the measurement control to the UE.
Source of change	New change

Test Step			
Test Step Id:	ts_ReceiveFirstSDUs_RB20 (p_data : BITSTRING)		
Test Step Group Ref:	RB_Steps/RB_Subtests/		
Objective:			
Defaults:	RRC_Def1		
Comments:			

...	...	Behaviour Description	Constraint Ref	Ver...	Comments
1		START t_Dly (tcv_max_Timer)			for TTCN Delay Step 15a.1
2		AM ? RLC_AM_TestDataInd CANCEL t_Dly	car_RLC_AM_DataInd (tsc_CellDedicated, tsc_RB20, c_TrD_Data(p_data))	(P)	15b.1
3		(tcv_count_RB20:=1)			
4		?TIMEOUT t_Dly			

4.9 Change 8

Test step	ts_Simultaneous_Data_SRB_RB20
Reason for change	Due to change 4.7, the initialisation of tcv_count_RB20 to 0 is not required, as already first PDU is received in the test step ts_ReceiveFirstSDUs_RB20.
Summary of change	At row 2 removed the initialisation of tcv_count_RB20
Source of change	New change

Before:

1		AM ! RLC_AM_DATA_REQ	cas_MeasurementControl (tsc_CellDedicated, tsc_RB2, cs_MeasurementControlDefPeriodic (tcv_CellIndInfo.dl_IntegrityCheckInfo , tcv_RRC_Ti , tcv_TmpCellInfo.priScrmCode))		15a.2
2		(tcv_count_RB20 := 0)			
3		START t_Dly(1000)			@sic T1s040254 sic@
4	Get_Report	AM ? RLC_AM_DATA_IND CANCEL t_Dly	car_MeasurementReport(tsc_CellDedicated, tsc_RB2, cr_MeasurementReportAny)	(P)	15b

After:

1		AM ! RLC_AM_DATA_REQ	cas_MeasurementControl (tsc_CellDedicated, tsc_RB2, cs_MeasurementControlDefPeriodic (tcv_CellIndInfo.dl_IntegrityCheckInfo , tcv_RRC_Ti , tcv_TmpCellInfo.priScrmCode))		15a.2
2		START t_Dly(1000)			@sic T1s040254 sic@
3	Get_Report	AM ? RLC_AM_DATA_IND CANCEL t_Dly	car_MeasurementReport(tsc_CellDedicated, tsc_RB2, cr_MeasurementReportAny)	(P)	15b

4.10 Change 9

Test step	ts_RB_SubTest_RAB_SRB_RB22
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. With the current code PDUs from the UE are received but these are caught

	wrongly by the "otherwise" mechanism as they are not expected. For additional information refer to T1s-040254 change number 4.6.
Summary of change	At row 11 and 12 instead of Start timer t_Dly call "ts_ReceiveFirstSDUs_RB22". This test step guarantees that at least one PDU in RB22 is received from the UE before sending the measurement control to the UE.
Source of change	New change

Before:

After:

4.11 Change 10

Test step	ts_ReceiveFirstSDUs_RB22
Reason for change	Refer Change 4.10
Summary of change	Added a new test step, which will ensure that at least one PDU in RB22 is received from the UE before sending the measurement control to the UE.
Source of change	New change

4.12 Change 11

Test step	ts_Simultaneous_Data_SRB_RB22
Reason for change	Due to change 4.11, the initialisation of tcv_count_RB22 to 0 is not required, as already first PDU is received in the test step ts_ReceiveFirstSDUs_RB22.
Summary of change	At row 2 removed the initialisation of tcv_count_RB22
Source of change	New change

Before:

After:

4.13 Change 12

Test step	ts_Subtests_1_to_5_tc_14_2_57
Reason for change	RB ID used at row 5 is "tsc_RB21", this is wrong. It should be "tsc_RB22".
Summary of change	At row 5 instead of "tsc_RB21" use "tsc_RB22".
Source of change	New change

Before:

After:

4.14 Change 13

Test step	ts_RRC_PagType1_P_TMSI_Cause
Reason for change	After release of RRC Connection and before Paging Type 1 a delay is required to ensure that the UE configures its PCH and SCCPCH.
Summary of change	At row 1 added a call to test step ts_RRC_Delay to introduce delay between RRC Connection Release and Paging Type 1 message
Source of change	New change

Before:

After:

4.15 Change 14

Test case Variable	tcv_SwitchPwr_Off
Reason for change	After executing the test case for Interactive RAB, if UE supports Background RAB, then the power/switch off MMI prompt comes twice. Once from the test step ts_GMM_DetachOnSwitchOff and other form the test step ts_SS_CellCfg.

Summary of change	New Test case variable is added with default value set to TRUE
Source of change	New change

New Test Case Variable:

tcv_SwitchPwr_Off	BOOLEAN	TRUE	Switch/Power Off prompt to be used or not.

4.16 Change 15

Local Test Step and Test Case Body	Local tree lt_Interactive in tc_14_2_57
Reason for change	Refer to Change 4.15.
Summary of change	At row 13 added a statement to set tcv_SwitchPwr_Off to FALSE.
Source of change	New change

Before:

11	+ts_GMM_DetachOnSwitchOff(tsc_CellA)		
12	+ po_ConnectionAndSS_Rel (tsc_CellA)		
13	[TRUE]		

After:

11	+ts_GMM_DetachOnSwitchOff(tsc_CellA)		
12	+ po_ConnectionAndSS_Rel (tsc_CellA)		
13	(tcv_SwitchPwr_Off := FALSE)		
14	[TRUE]		

4.17 Change 16

Test step	ts_SS_CellCfg
Reason for change	Refer to Change 4.15.
Summary of change	Passed tcv_SwitchPwr_Off as an additional input to the test step ts_MM_PwrOrUSIM_Off.
Source of change	New change

Before:

12	[tcv_NumCfgCell = 0]		1.
13	+ts_MM_PwrOrUSIM_Off(tsc_USIM_NeedRmv)		1. Deactivate the UE
14	[tcv_DefaultRadioCnf = TRUE]		3.

After:

12	[tcv_NumCfgCell = 0]		1.
13	+ts_MM_PwrOrUSIM_Off(tsc_USIM_NeedRmv, tcv_SwitchPwr_Off)		1. Deactivate the UE
14	[tcv_DefaultRadioCnf = TRUE]		3.

4.18 Change 17

Test step	ts_MM_PwrOrUSIM_Off
Reason for change	Refer to change 4.15.
Summary of change	1. Added p_SwitchPwr_off as one more parameter. 2. At row 3 an additional check is added for tcv_SwitchPwr_Off. If set to TRUE, test step ts_MMI_UE_SwitchOff will be called. 3. At row 5 a check is added for tcv_SwitchPwr_Off. If set to TRUE, test step ts_MMI_UE_PwrOff will be called.

	4. At row 7 a [TRUE] statement is added which will ensure that test step execution continues in case tcv_SwitchPwr_Off is set to FALSE.
Source of change	New change

Before:

Test Step				
Test Step Id:	ts_MM_PwrOrUSIM_Off (p_USIM_Rmvd : BOOLEAN)			
Test Step Group Ref:	BasicM_MM_GMM_Steps/			
Objective:	Deactivation of the UE			
Defaults:	NAS_OtherwiseFail			
Comments:	Depending upon UE's properties (USIM removal, switching off or powering off)			

..	..	Behaviour Description	Constraint..	Verdict	Comments
1		[(p_USIM_Rmvd) AND (pc_USIM_Rmv)]			SIM needs to be removed. @SIC EW T1-...SIC@ @sic T1s040289 sic@
2		+ts_MMI_USIM_Remove			remove SIM card
3		[pc_SwitchOnOff]			
4		+ts_MMI_UE_SwitchOff			switch off the UE
5		[TRUE]			@sic T1s040289 sic@
6		+ts_MMI_UE_PwrOff			power off the UE

After:

Test Step				
Test Step Id:	ts_MM_PwrOrUSIM_Off (p_USIM_Rmvd,p_SwitchPwr_off : BOOLEAN)			
Test Step Group Ref:	BasicM_MM_GMM_Steps/			
Objective:	Deactivation of the UE			
Defaults:	NAS_OtherwiseFail			
Comments:	Depending upon UE's properties (USIM removal, switching off or powering off)			

..	..	Behaviour Description	Constrai..	Verdict	Comments
1		[(p_USIM_Rmvd) AND (pc_USIM_Rmv)]			SIM needs to be removed. @SIC EW T1-...SIC@ @sic T1s040289 sic@
2		+ts_MMI_USIM_Remove			remove SIM card
3		[(pc_SwitchOnOff) AND (p_SwitchPwr_off)]			
4		+ts_MMI_UE_SwitchOff			switch off the UE
5		[p_SwitchPwr_off]			@sic T1s040289 sic@
6		+ts_MMI_UE_PwrOff			power off the UE
7		[TRUE]			

Branches executed in test case 14.2.57

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

5 Execution Log Files

5.1 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

| ⌘ | **TS 34.123-3 CR** | 379 | ⌘**rev** | - | ⌘ | Current version: | **3.6.1** | ⌘ |

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 14.2.58 to RAB ATS V3.6.1
Source:	⌘	Rohde & Schwarz
Work item code: ⌘	N/A	***Date:*** ⌘ 16/07/2004

Category: ⌘	**B**	***Release:*** ⌘ R99

Use one 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 one 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 3 RAB test case 14.2.58 to the approved RAB ATS V3.6.1
Summary of change:	⌘	This document lists all changes applied to test case 14.2.58 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

	Y	N		
Other specs ⌘		X	Other core specifications	⌘
affected:		X	Test specifications	
		X	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.

3GPP TSG-T1 E-Mail 2004
01 Jan - 31 Dec 2004

T1s040395

Title:	Changes to test case 14.2.58 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 14.2.58 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.

2 Table of Contents

3 Verification Test Summary

Test Case: TC_14_2_58

Test Group: RAB/CombinationOnDPCH/InteractBackgrnd_StreamUnknown/

ATS Version: iWD-TVB2003-03_D04wk26 + 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 14.2.58

4.1 Introduction

This section describes the changes required to make test case 14.2.58 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 is the most recent 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 14.2.58:

4.2 ts_RB_SendRB_SetUp_DCH_8k_8k_PS (WA#RAB4362)

Test step name	ts_RB_SendRB_SetUp_DCH_8k_8k_PS
Reason for change	Wrong "Establishment Timer" for a PS configuration. T315 should be used instead of T314.
Summary of change	Used "useT315" instead of "c_ReEstTimerT314 " as parameter for the "Establishment Timer" in the RAB setup message.
Source of change	New Change
Label	WA#RAB4362

Test Step		
Test Step Id:	ts_RB_SendRB_SetUp_DCH_8k_8k_PS (p_CellId: INTEGER; p_RAB_Id : BITSTRING; p_RAB_Id2 : BITSTRING; p_ActTime : ActivationTime)	
Test Step Group Ref:	RB_Steps/RB_Setup/	
Objective:		
Defaults:	RRC_Def1	
Comments:		

..	..	Behaviour Description	Constraint Ref	..	Comments
0		+ ts_SetTmpCellInfo (p_CellId)			
1		AM ! RLC_AM_DATA_REQ	cas_RB_SetUpAM_WithCnf(tsc_CellDedicated, tsc_RB2, tsc_Mul, cs_RRC_RB_SetUp(tcv_CellIndInfo.dl_IntegrityCheckInfo, tcv_RRC_Ti, p_ActTime, cell_DCH, OMIT, cb_RAB_InfoListAM2_PS_No_Pdcp (useT315, p_RAB_Id, p_RAB_Id2), c_UL_CommTrChInfo_AM0To7(c_PowerOffsetInfoBelow64k) , c_UL_AddReconfTransChInfoListAM2 (s_DCH_336_TFS_UL_20_TC_UE, c_DCH_336_TFS_38b_UL_40_TC_UE), c_DL_CommonTransChInfo_AM_0_15, c_DL_AddReconfTransChInfoListAM2 (c_DCH_658_TFS_DL_40_TC_UE, c_DCH_336_TFS_38b_DL_40_TC_UE)		WA#RAB4362

4.3   c_DCH_336_TFS_UL_20_TC_UE (WA#RAB4430)

Test step name   c_DCH_336_TFS_UL_20_TC_UE

Reason for change   Wrong value for the "logicalChannelList" IE for the transport channel "tsc_UL_DCH1". "allSizes : NULL " should be used instead of "configured : NULL"

Summary of change   Used "allSizes : NULL " instead of "configured : NULL" as value for the "logicalChannelList" IE.

Source of change   New Change

Label   WA#RAB4430

ASN.1 Type Constraint Declaration	
Constraint Name:	c_DCH_336_TFS_UL_20_TC_UE
Group:	
Type Name:	DedicatedTransChTFS
Derivation Path:	
Encoding Variation:	
Comments:	transport format set for transport channel used in PS 16k. TS34.108 cl. 6.10.2.4.1.58 WA#RAB4430

Constraint Value
{ tfi tfi20 :{ rlc_Size octetModeType1 : sizeType2 : {part1 2, part2 OMIT}, numberOfTbSizeList (zero : NULL, one : NULL), logicalChannelList allSizes : NULL }, semistaticTF_Information { channelCodingType turbo : NULL, rateMatchingAttribute 155, crc_Size crc16 } }

4.4 c_DL_AddReconfTransChInfoListAM2 (WA#RAB4431)

Test step name	c_DL_AddReconfTransChInfoListAM2
Reason for change	According to the default values for the RAB setup messaged stated in TS34.108 the value for "ch_QualityTarget" IE for "tsc_DL_DCH1" and "tsc_DL_DCH2" should be "bler_QualityValue-20" not "bler_QualityValue- 2".
Summary of change	Used a BLER quality value of -20 for for "tsc_DL_DCH1" and "tsc_DL_DCH2".
Source of change	New Change
Label	WA#RAB4431

ASN.1 Type Constraint Declaration	
Constraint Name:	c_DL_AddReconfTransChInfoListAM2 (p_DedTranChTFS1 p_DedTranChTFS2 : DedicatedTransChTFS)
Group:	
Type Name:	DL_AddReconfTransChInfoList
Derivation Path:	
Encoding Variation:	
Comments:	WA#RAB4431

Constraint Value

{{
    dl_TransportChannelType dch,
    dl_transportChannelIdentity tsc_DL_DCH1,
    tfs_SignallingMode explicit_config : dedicatedTransChTFS : p_DedTranChTFS1,
    dch_QualityTarget (bler_QualityValue -20),
    dummy OMIT
 	
    },
    {
    dl_TransportChannelType dch,
    dl_transportChannelIdentity tsc_DL_DCH2,
    tfs_SignallingMode explicit_config : dedicatedTransChTFS : p_DedTranChTFS2,
    dch_QualityTarget (bler_QualityValue -20),
    dummy OMIT
 	
    },
    {
    dl_TransportChannelType dch,
    dl_transportChannelIdentity tsc_DL_DCH5,
    tfs_SignallingMode explicit_config : dedicatedTransChTFS : c_DCH_148_TFS_UE_DL,
 	
    dch_QualityTarget (bler_QualityValue -2),
    dummy OMIT
 	
    }
}

4.5 c_TFCS_Cmpl0_To7_Rx, c_TFCS_Cmpl0_To7_Tx (WA#RAB4100)

Test step name	c_TFCS_Cmpl0_To7_Rx, c_TFCS_Cmpl0_To7_Tx
Reason for change	Wrong ctfc size used.
Summary of change	Used a CTFC size of 4 instead of 6.
Source of change	New Change
Label	WA#RAB4100

ASN.1 Type Constraint Declaration	
Constraint Name:	c_TFCB_Cmpl0_To7_Rx
Group:	
Type Name:	TFCB
Derivation Path:	
Encoding Variation:	
Comments:	TFCS information with power offset information – for transmitter
	WA#RAB4100

Constraint Value

normalTFCI_Signalling: complete: {
 ctfcSize ctfc4Bit:{
 { ctfc4 0, powerOffsetInformation OMIT },
 { ctfc4 1, powerOffsetInformation OMIT },
 { ctfc4 2, powerOffsetInformation OMIT },
 { ctfc4 3, powerOffsetInformation OMIT },
 { ctfc4 4, powerOffsetInformation OMIT },
 { ctfc4 5, powerOffsetInformation OMIT },
 { ctfc4 6, powerOffsetInformation OMIT },
 { ctfc4 7, powerOffsetInformation OMIT }
 }
}

4.6 ts_RB_SendRB_SetUp_DCH_8k_8k_PS (WA#RAB4209)

Test step name   ts_RB_SendRB_SetUp_DCH_8k_8k_PS

Reason for change   Wrong payload sized used in the local configuration of RB20. It should be 640 instead of 320.

Summary of change   Used new created test step (see point 4.7j) with the correct value of the payload size for RB20.

Source of change   New Change

Label   WA#RAB4209

Test Step			
Test Step Id:	ts_RB_SendRB_SetUp_DCH_8k_8k_PS (p_CellId: INTEGER; p_RAB_Id : BITSTRING; p_RAB_Id2 : BITSTRING; p_ActTime : ActivationTime)		
Test Step Group Ref:	RB_Steps/RB_Setup/		
Objective:			
Defaults:	RRC_Def1		
Comments:			

		Behaviour Description	Constraint Ref		Comments
			}		
			}		
2		AM ? RLC_AM_DATA_CNF	car_AM_DataMulCnf (tsc_CellDedicated,1 sc_RB2, tsc_Mul)		
3		+ts_SS_3DCH_ModifyInteractiveBackGround_8k_8k_PS (p_CellId, p_ActTime, c_DL_CommonInformationRB_SetUp (tsc_Sfd32) , cb_UL_DPCH_Info (tsc_Sf32, pif , tcw_TmpCellInfo.uL_ScramblingCode))			
4		+ts_SS_RB20_AM_22_AM_Cfg_WA			WA#RAB4209
5	TS P	+ ts_RRC_ReceiveRB_SetupCmpl(p_CellId , cell_DCH_2_PS_Cal())			

Detailed Comment:

4.7 ts_SS_RB20_AM_22_AM_Cfg_WA (WA#RAB4190)

Test step name   ts_SS_RB20_AM_22_AM_Cfg_WA

Reason for change   Wrong payload sized used in the local configuration of RB20. It should be 640 instead of 320.

Summary of change   Created new test step with the correct value to be used in WA#RAB4209 (see point 4.6)

Source of change	New Change
Label	WA#RAB4190

Test Step			
Test Step Id:	ts_SS_RB20_AM_22_AM_Cfg_WA		
Test Step Group Ref:	BasicM_RRC_Steps/		
Objective:	setup radio bearers : RB20 and 22 mapped on AM		
Defaults:	RB_Def		
Comments:	WA#RAB4190		

		Behaviour Description	Constraint Ref		Comments
0		CRLC ! CRLC_Config_REQ	ca_RB_AM_Info_RAB (tsc_CellDedicated, tsc_RB20, tcv_TimerPollProhibit, tcv_TimerPoll, tcv_PollSDU, tcv_PollWindow, (uLogicalChannelIdentity tsc_UL_DTCH1, dLogicalChannelIdentity tsc_DL_DTCH1),640)		configure radio bearers : RB20 (AM + DTCH)
1		CRLC ? CRLC_Config_CNF	ca_CRLC_CfgCnf(tsc_CellDedicated, tsc_RB20)		
2		CRLC ! CRLC_Config_REQ	ca_RB_AM_Info_RAB (tsc_CellDedicated, tsc_RB22, tcv_TimerPollProhibit, tcv_TimerPoll, tcv_PollSDU, tcv_PollWindow, (uLogicalChannelIdentity tsc_UL_DTCH2, dLogicalChannelIdentity tsc_DL_DTCH2),320)		SS configuration of the radio bearer information RB22 (AM + DTCH) @sic ER 1492 sic @
3		CRLC ? CRLC_Config_CNF	ca_CRLC_CfgCnf(tsc_CellDedicated, tsc_RB22)		

4.8 ts_SS_3DCH_ModifyInteractiveBackGround_8k_8k_PS (WA#RAB4363)

Test step name	ts_SS_3DCH_ModifyInteractiveBackGround_8k_8k_PS
Reason for change	Wrong RM attribute for the DL in the local configuration.
Summary of change	Used constraint "c_DCH_148_TFS_DL_RM192" instead of "c_DCH_148_TFS_DL"
Source of change	New Change
Label	WA#RAB4363

Test Step			
Test Step Id:	ts_SS_3DCH_ModifyInteractiveBackGround_8k_8k_PS (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 and DCH5 to the physical channel, then map DCCH1-4 on to the DCH5 transport channel and map DTCH(subflow#1) to the DCH1 and DTCH(subflow#2) to the DCH2 transport channel respectively. Used for interactive or background / unknown' UL: 64 DL: 64 kbps, 20ms TTI TC.		
Defaults:	RRC_Def/		
Comments:			

I...	...	Behaviour Description	Constraint Ref	...	Comments
0		[px_RAT = fdd]			
1		CPHY!CPHY_RL_Modify_REQ	ca_DL_DPCH_ModifyInfo (p_CellId, tsc_DL_DPCH1, c_DL_DPCH_Info (tsc_8k:32, p_DL_CommonInformation,tcv_TmpCellInfo.dl_DPCH_2ndScrCode),p_ActTime)		1.
2		CPHY?CPHY_RL_Modify_CNF	ca_RL_ModifyCnf(p_CellId, tsc_DL_DPCH1)		
3		CPHY!CPHY_TrCH_Config_REQ	ca_3_DCH_0_To15_DL_Info (p_CellId, tsc_DL_DPCH1, c_TrChConfigTypeDCH_NoSHO, c_DCH_148_TFS_DL_RM192, c_DCH_656_TFS_DL_40_TC, c_DCH_336_TFS_38b_40_TC, c_PowerOffsetInfoHigher64k ,p_ActTime)		2 WA#RAB4363
4		CPHY?CPHY_TrCH_Config_CNF	ca_TrChCfgCnf(p_CellId, tsc_DL_DPCH1)		
5		CMAC ! CMAC_Config_REQ	ca_CMAC_ReconfigInfo (tsc_CellDedicated, tsc_DL_DPCH1, c_UE_Info (tcv_TmpCellInfo.uRNTI, tcv_TmpCellInfo.cRNTI), c_TrCHInfo_DL_3_0To15 (c_DCH_148_TFS_DL_RM192, c_DCH_656_TFS_DL_40_TC, c_DCH_336_TFS_38b_40_TC, c_PowerOffsetInfoHigher64k), c_TrLogMappingDL_3_PS,p_ActTime)		3 WA#RAB4363
6		CMAC ? CMAC_Config_CNF	ca_CMAC_CfgCnf(tsc_CellDedicated, tsc_DL_DPCH1)		
7		CPHY!CPHY_RL_Modify_REQ	ca_UL_DPCH_ModifyInfo_CellId tsc_UL_DPCH1 p_UL_DPCH_Info,p_ActTime)		1

4.9 ts_Subtests_1_to_7_tc_14_2_58 (WA#RAB4435)

Test step name	ts_Subtests_1_to_7_tc_14_2_58
Reason for change	Wrong TTI passed. The maximum TTI is 40 ms as this is the value for the DL configuration.
Summary of change	Passed a value of 40 ms instead of 20 as the "max TTI" value
Source of change	New Change
Label	WA#RAB4435

4.10 ts_Subtests_1_to_7_tc_14_2_58 (WA#RAB4436)

Test step name	ts_Subtests_1_to_7_tc_14_2_58
Reason for change	Wrong test step used as "ts_RB_SubTest_RAB_SRB_RB20_Special" is designed for a 4 RAB configuration (it uses "lB_SetupRB_IE4" in the third line for example). An analogous test step is needed for 2 RAB configuration.
Summary of change	Used "ts_RB_SubTest_RAB_SRB_RB20_Special_3" (see point 4.10) instead of "ts_RB_SubTest_RAB_SRB_RB20_Special" which handles two RAB instead of 4.
Source of change	New Change
Label	WA#RAB4436

		Test Step			
Test Step Id:		ts_Subtests_1_to_7_tc_14_2_58(p_Data_String : BITSTRING)			
Test Step Group Ref:		RB_Steps/RB_Subtests/			
Objective:					
Defaults:					
Comments:		@SIC_NAPP			

..	..	Behaviour Description	..	..	Comments
0		+ ts_RB_SubTest_RAB_SRB_RB20 (c_TFC_Allowed_0_1_2_4_5, c_TFC_Allowed_0_1_8_9, c_UE_TestLoopMode1_LB_Setup2 (632,tsc_RB20, 312, tsc_RB22), c_RAB_Tx_Info (p_Data_String, 1, c_RB_Tx_Info(tsc_RB20,632,60), OMIT, OMIT, OMIT), 40)			Subtest 1 Steps 11-17 WA#RAB4435
1		+ts_RB_SubTest_RAB_SRB_RB20_Special_3(c_TFC_Allowed_0_1_2_4_5, c_TFC_Allowed_0_1_2_8_10, c_UE_TestLoopMode1_LB_Setup2 (632,tsc_RB20, 312, tsc_RB22), c_RAB_Tx_Info (p_Data_String, 1, c_RB_Tx_Info(tsc_RB20,1272,60), OMIT, OMIT, OMIT), 40, 1)			Subtest 2 Steps 11-17 WA#RAB4435 WA#RAB4436
2		+ts_RB_SubTest_RAB_SRB_RB20_Special_3(c_TFC_Allowed_0_1_2_4_5, c_TFC_Allowed_0_1_3_8_11, c_UE_TestLoopMode1_LB_Setup2 (632,tsc_RB20, 312, tsc_RB22), c_RAB_Tx_Info (p_Data_String, 1, c_RB_Tx_Info(tsc_RB20,2552,60), OMIT, OMIT, OMIT), 40, 1)			Subtest 3 Steps 11-17 WA#RAB4435 WA#RAB4436
3		+ ts_RB_SubTest_RAB_SRB_RB22 (c_TFC_Allowed_0_1_2_4_6, c_TFC_Allowed_0_4_8_12, c_UE_TestLoopMode1_LB_Setup2 (632,tsc_RB20, 312, tsc_RB22), c_RAB_Tx_Info (p_Data_String, 1,			Subtest 4 Steps 11-17

4.11 ts_RB_SubTest_RAB_SRB_RB20_Special_3 (WA#RAB4432)

Test step name	ts_RB_SubTest_RAB_SRB_RB20_Special_3
Reason for change	Wrong test step used as "ts_RB_SubTest_RAB_SRB_RB20_Special" is designed for a 4 RAB configuration (it uses "IB_SetupRB_IE4" in the third line for example). An analogous test step is needed for 2 RAB configuration.
Summary of change	Created test step "ts_RB_SubTest_RAB_SRB_RB20_Special_3" based in "ts_RB_SubTest_RAB_SRB_RB20_Special" but only for 2 RABs.
Source of change	New Change
Label	WA#RAB4432

Test Step			
Test Step Id:	ts_RB_SubTest_RAB_SRB_RB20_Special_3 (p_TFC_UL, p_TFC_DL : TFC_Subset; p_TestLoopModeSetup : UE_TestLoopMode1LB_Setup; p_RAB_Tx_Inf o: 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		
	WA#RAB4432		

	Behaviour Description	Constraint Ref	Verdict	Comments
0	AM ! RLC_AM_DATA_REQ	cas_TranportFormatCombCtrlA M (tsc_CellDedicated, tsc_RB 2, cbs_TransportFormatCombC trl (tcv_CellIndInfo.dl_IntegrityC heckInfo, tcv_RRC_TI, p_TFC_UL))		Step 11
1	+ ts_TC_CloseUE_TestLoop (tsc_CellDedicated, tsc_UE_TestLoopMode1, p_TestLoopModeSet up)			Steps 12-13
2	+ts_RB_Prepare_DataToBeReceived(p_RAB_Tx_Info.testData,BIT_TO_INT(p_TestLoopModeSetu p.lB_SetupRB_IE1 rLC_SDU_Size), p_RAB_Tx_Info.rbTxInfoList.[0] sduSize)			
3	(tcv_RB_Data1 := tcv_RB_testdata3)			
4	+ts_SS_TFC_Restriction (tsc_CellDedicated, p_TFC_UL, p_TFC_DL)			CMAC Restriction
5	+ts_SendDataInContineousTTI(p_RAB_Tx_Info)			Step 14a
6	[tcv_result=TRUE]			
7	(tcv_max_Timer=(p_max_tti * 12) +(p_max_tti/10))			Timer Value ---------- 12 times max tti am ong the RABs + 10 % of max tti
8	+ts_ReceiveData_RB20_Special (tcv_RB_Data1,p_RAB_Tx_Info.rbTxInfoList.[0] nomOfSdu,p_ ReceiveFactor)			Step 14b
9	+ts_SendDataInContineousTTI(p_RAB_Tx_Info)			
10	[tcv_result=TRUE]			
11	+ts_ReceiveFirstSDUs_RB20(tcv_RB_Data1)			for TTCN Delay Step 15a.1
12	+ts_Simultaneous_Data_SRB_RB20_Special(tcv_RB_Data1,p_RAB_Tx_Info.rbTxInfoList.[0] nomOfSdu,p_ReceiveFactor)			
13	+ ts_TC_OpenUE_TestLoop (tsc_CellDedicated)			Step 16-17
10	[tcv_result=FALSE]		(f)	
11	+ ts_TC_OpenUE_TestLoop (tsc_CellDedicated)			@sic T1 s040254 s ic@
6	[tcv_result=FALSE]		(f)	
7	+ ts_TC_OpenUE_TestLoop (tsc_CellDedicated)			@sic T1 s040254 s ic@

Detailed Comment:

4.12 ts_Subtests_1_to_7_tc_14_2_58 (WA#RAB4436)

Test step name	ts_Subtests_1_to_7_tc_14_2_58
Reason for change	Wrong order in the parameters for RB20, RLC size and test data size are in an inverted order.
Summary of change	Corrected order.
Source of change	New Change
Label	WA#RAB4436

Test Step		
Test Step Id:	ts_Subtests_1_to_7_tc_14_2_58(p_Data_String : BITSTRING)	
Test Step Group Ref:	RB_Steps/RB_Subtests/	
Objective:		
Defaults:		
Comments:	@SIC_NAPP	

	Behaviour Description	Comments
0	+ts_RB_SubTest_RAB_SRB_RB20 (c_TFC_Allowed_0_1_2_4_5,c_TFC_Allowed_0_1_8_9,c_UE_TestLoopMode1_LB_Setup2 (632,tsc_RB20,	Subtest 1

	OMIT, 40)		
5	+ ts_RB_SubTest_RAB_SRB_RB20_RB22_Special (c_TFC_Allowed_0_1_2_3_4_5_6, c_TFC_Allowed_0_1_4_6_8_14, c_UE_TestLoopMode1 _LB_Setup2 (832,tsc_RB20, 312, tsc_RB22), c_RAB_Tx_Info (p_Data_String, 2, c_RB_Tx_Info(tsc_RB20, 1272, 60), c_RB_Tx_Info(tsc_RB22, 312, 30), OMIT, OMIT), 40, 1)		Subtest 6 Steps 11-17 <mark>WA#RAB4437</mark>
6	+ ts_RB_SubTest_RAB_SRB_RB20_RB22_Special (c_TFC_Allowed_0_1_2_3_4_5_6_7, c_TFC_Allowed_0_1_4_7_8_15, c_UE_TestLoopMo de1_LB_Setup2 (832,tsc_RB20, 312, tsc_RB22), c_RAB_Tx_Info (p_Data_String, 2, c_RB_Tx_Info(tsc_RB20, 2552, 60), c_RB_Tx_Info(tsc_RB22, 312, 30), OMIT, OMIT), 40, 1)		Subtest 7 Steps 11-17 <mark>WA#RAB4437</mark>

Detailed Comment

4.13 ts_RB_Prepare_DataToBeReceived (WA#RAB4379)

Test step name	ts_RB_Prepare_DataToBeReceived
Reason for change	Test cases variables tcv_RB_testdata1, tcv_RB_testdata2 and tcv_RB_testdata3 need to be initialised otherwise they can inhierit the values from the "interactive" part in the "background" one.
Summary of change	Added line with the initialisation of that variables:
	(tcv_RB_testdata1:="B,
	tcv_RB_testdata2 :="B,
	tcv_RB_testdata3 :="B)
Source of change	New Change
Label	WA#RAB4379

Test Step		
Test Step Id:	ts_RB_Prepare_DataToBeReceived (p_Data : BITSTRING; p_ULSDULength, p_DLTBSLength : INTEGER)	
Test Step Group Ref:	RB_Steps/RB_Subtests/	
Objective:	UE shall send back the same RLC SDU.	
Defaults:	RRC_Deft	
Comments:	@SIC_NAPP	

		Behaviour Description			Comments
0		(tcv_Len :=0,tcv_testdata2_len :=0)			
1		(tcv_RB_testdata1:="B, tcv_RB_testdata2 :="B, tcv_RB_testdata3 :="B)			WA#RAB4379
2		(tcv_Len = (p_ULSDULength - p_DLTBSLength()			
3		(tcv_RB_testdata1:=o_GetMostSignificantBits (p_Data, p_DLTBSLength()			
4		[tcv_Len >0]			
5		REPEAT it_Add UNTIL [tcv_Len==p_DLTBSLength]			
6		(tcv_RB_testdata2=o_BitstringConcat(tcv_RB_testdata2, o_GetMostSignificantBits (tcv_RB_testdata1 , tcv_Len), tcv_testdata2_len, tcv_Len])			
7		(tcv_RB_testdata3 = o_BitstringConcat(tcv_RB_testdata1, tcv_RB_testdata2,			

4.14 ts_RB_Prepare_DataToBeReceived (WA#RAB4380)

Test step name	ts_RB_Prepare_DataToBeReceived
Reason for change	Wrong preliminary verdict (F) use: the case [tcv_Len >0] is valid as well.
Summary of change	Removed (F) fail verdict.
Source of change	New Change
Label	WA#RAB4380

Test Step		
Test Step Id:	ts_RB_Prepare_DataToBeReceived (p_Data : BITSTRING; p_ULSDULength, p_DLTBSLength : INTEGER)	
Test Step Group Ref:	RB_Steps/RB_Subtests/	
Objective:	UE shall send back the same RLC SDU.	
Defaults:	RRC_Deft	
Comments:	@SIC_NAPP	

		Behaviour Description			Comments
0		(tcv_Len :=0,tcv_testdata2_len :=0)			

5	REPEAT lt_Add UNTIL [tcv_Len<=p_DLTBSLength]		
6	(tcv_RB_testdata2:=o_BitstringConcat(tcv_RB_testdata2, o_GetMostSignificantBits (tcv_RB_testdata1, tcv_Len), tcv_testdata2_len, tcv_Len))		
7	(tcv_RB_testdata3 := o_BitstringConcat(tcv_RB_testdata1, tcv_RB_testdata2, p_DLTBSLength, (tcv_testdata2_len+tcv_Len)))		
8	[TRUE]		WA#RAB4380
4	[tcv_Len <=0]		
5	(tcv_RB_testdata3 := o_GetMostSignificantBits (tcv_RB_testdata1 , p_ULSDULength))		
6	[TRUE]		@sic T1s040254 sic@
lt_Add			

4.15 ts_RB_Prepare_DataToBeReceived (WA#RAB4381)

Test step name	ts_RB_Prepare_DataToBeReceived
Reason for change	TTCN error: the local test step "lt_Add" must end in a [TRUE] statement otherwise the execution would be get stuck at this point.
Summary of change	Added line with statement [TRUE]
Source of change	New Change
Label	WA#RAB4381

Test Step			
Test Step Id:	ts_RB_Prepare_DataToBeReceived (p_Data : BITSTRING; p_ULSDULength, p_DLTBSLength : INTEGER)		
Test Step Group Ref:	RB_Steps/RB_Subtests/		
Objective:	UE shall send back the same RLC SDU.		
Defaults:	RRC_Daft		
Comments:	@SIC_NAPP		

		Behaviour Description				Comments
0		(tcv_Len :=0,tcv_testdata2_len :=0)				

lt_Add			
0	[tcv_Len=p_DLTBSLength]		
1	(tcv_RB_testdata2 =o_BitstringConcat(tcv_RB_testdata2, tcv_RB_testdata1, tcv_testdata2_len, p_DLTBSLength))		
2	(tcv_testdata2_len := tcv_testdata2_len +p_DLTBSLength)		
3	(tcv_Len :=tcv_Len- p_DLTBSLength)		
0	[TRUE]		WA#RAB4381

4.16 ts_RB_SubTest_RAB_SRB_RB20, ts_RB_SubTest_RAB_SRB_RB22, ts_RB_SubTest_RAB_SRB_RB20_RB22 (WA#RAB4318)

Test step name	ts_RB_SubTest_RAB_SRB_RB20, ts_RB_SubTest_RAB_SRB_RB22, ts_RB_SubTest_RAB_SRB_RB20_RB22
Reason for change	Wrong use of the timer to control the send of the measurement control during continuos data transmission: the SS have to check the returned data during this time.
	With the current code PDUs from the UE are received but these are caught wrongly by the "otherwise" mechanism as they are not expected.
Summary of change	Used for each Subtest step a step of the type "ts_ReceiveFirstSDUs_..." instead of the control timer (START and TIMEOUT).
	Note: the picture shows only the change applied to "ts_RB_SubTest_RAB_SRB_RB20" but this modification is needed in all the mentioned test steps.
Source of change	New Change
Label	WA#RAB4318

4.17 ts_ReceiveFirstSDUs_RB20, ts_ReceiveFirstSDUs_RB22 (WA#RAB4332)

Test step name	ts_ReceiveFirstSDUs_RB20, ts_ReceiveFirstSDUs_RB22
Reason for change	Wrong use of the timer to control the send of the measurement control during continuos data transmission: the SS have to check the returned data during this time.

	With the current code PDUs from the UE are received but these are caught wrongly by the "otherwise" mechanism as they are not expected.
Summary of change	Included a new test steps "ts_ ReceiveFirstSDUs_RB20" and "ts_ ReceiveFirstSDUs_RB22" which catches the PDUs send on RB20 by the UE during the delay of prose step 15a.1
	Same for RB22.
Source of change	New Change
Label	WA#RAB4332

4.18 ts_Simultaneous_Data_SRB_RB20, ts_Simultaneous_Data_SRB_RB20_Special, ts_Simultaneous_Data_SRB_RB22 (WA#RAB4329)

Test step name	ts_Simultaneous_Data_SRB_RB20, ts_Simultaneous_Data_SRB_RB20_Special, ts_Simultaneous_Data_SRB_RB22
Reason for change	Due to WA#RAB4318 (see point 4.16) the initialisation of the variables tcv_count_RB20 and tcv_count_RB20 to 0 is not needed anymore as this variables are updated in the previous "ts_ReceiveFirstSDU_..." test steps.
Summary of change	Removed line with the inisialisation of tcv_count_RB20 and tcv_count_RB20 to 0.
	Note: the picture shows only the change applied to "ts_Simultaneous_Data_SRB_RB20" but this modification is needed in all the mentioned test steps.
Source of change	New Change
Label	WA#RAB4329

Test Step				
Test Step Id:	ts_Simultaneous_Data_SRB_RB20 (p_data : BITSTRING;p_no_of_sdus : INTEGER)			
Test Step Group Ref:	RB_Steps/RB_Subtests/			
Objective:				
Defaults:	RRC_Def1			
Comments:	@SIC_NAPP			
	WA#RAB4329			

		Behaviour Description	Constraint Ref	Verdict	Comments
0		AM ! RLC_AM_DATA_REQ	cas_MeasurementControl (tsc_CellDedicated, tsc_RB2, cs_MeasurementControlDefPe riodic (tcv_CellIndInfo.dl_IntegrityC heckInfo , tcv_RRC_Ti , tcv_TmpCellInfo.priScrmCo de))		15a.2
1		START t_Dly(1000)			@sic T1 s040254 sic@
2	Ge t_R ep ort	AM ? RLC_AM_DATA_IND CANCEL t_Dly	car_MeasurementReport(tsc_CellDedicated, tsc_RB2, cr_MeasurementReportAny)	(P)	15a
3		REPEAT lt_Receive UNTIL [tcv_count_RB20 = p_no_of_sdus]			

4.19 ts_Simultaneous_Data_SRB_RB20_RB22, ts_Simultaneous_Data_SRB_RB20_RB22_Special (WA#RAB4440)

Test step name	ts_Simultaneous_Data_SRB_RB20_RB22, ts_Simultaneous_Data_SRB_RB20_RB22_Special
Reason for change	Due to WA#RAB4318 (see point 4.16) it is necessary to initialise the variable "tcv_Res" to FALSE again (as the "ts_ReceiveFirstSDU_..." modify its value to TRUE).
Summary of change	Added line with the assignment "tcv_Res":=FALSE. Note: the picture shows only the change applied to "ts_Simultaneous_Data_SRB_RB20_RB22" but this modification is needed in all the mentioned test steps.
Source of change	New Change
Label	WA#RAB4440

Test Step				
Test Step Id:	ts_Simultaneous_Data_SRB_RB20_RB22 (p_data1,p_data2 : BITSTRING; p_RAB_Tx_Info : RabTxInfo)			
Test Step Group Ref:	RB_Steps/RB_Subtests/			
Objective:				
Defaults:	RRC_Def1			
Comments:	@SIC_NAPP			

		Behaviour Description	Constraint Ref	Verdict	Comments
0		AM ! RLC_AM_DATA_REQ	cas_MeasurementControl (tsc_CellDedicated, tsc_RB2, cs_MeasurementControlDefPa riodic (tcv_CellIndInfo.dl_IntegrityC heckInfo , tcv_RRC_Ti , tcv_TmpCellInfo.priScrmCo de))		15a.2
1		(tcv_Res := FALSE)			WA#RAB4440
2		START t_Dly(1000)			@sic T1 s040254 sic@
3	Ge t_R	AM ? RLC_AM_DATA_IND CANCEL t_Dly	car_MeasurementReport(tsc_CellDedicated,	(P)	15b

4.20 ts_Simultaneous_Data_SRB_RB20_RB22_Special (WA#RAB4442)

Test step name	ts_Simultaneous_Data_SRB_RB20_RB22_Special
Reason for change	TTCN error SDU counter for RB22 should be "tcv_count_RB22" not "tcv_count_RB20"
Summary of change	Corrected error.
Source of change	New Change
Label	WA#RAB4442

Test Step				
Test Step Id:	ts_Simultaneous_Data_SRB_RB20_RB22_Special (p_data1,p_data2 : BITSTRING; p_RAB_Tx_Info: RabTxInfo;p_ReceiveFactor : INTEGER)			
Test Step Group Ref:	RB_Steps/RB_Subtests/			
Objective:				
Defaults:	RRC_Def1			
Comments:	@SIC_NAPP			

		Behaviour Description	Constraint Ref	Verdict	Comments
0		AM ! RLC_AM_DATA_REQ	cas_MeasurementControl (tsc_CellDedicated,		15a.2
4		+ts_Exit_Testcase			
lt_Receive2					
0		AM ? RLC_AM_TestDataInd	car_RLC_AM_DataInd (tsc_CellDedicated, tsc_RB20, c_TrD_Data (p_data1))		Step 15b.1
1		(tcv_count_RB20:= tcv_count_RB20 + 1)			
2		+ lt_CheckRes			
0		AM? RLC_AM_TestDataInd	car_RLC_AM_DataInd (tsc_CellDedicated, tsc_RB22, c_TrD_Data (p_data2))		Step 15b.1
1		(tcv_count_RB22:= tcv_count_RB22 + 1)			WA#RAB4442
2		+ lt_CheckRes			
lt_CheckRes					

4.21 ts_ReceiveFirstSDU_RB20_RB22 (WA#RAB4339)

Test step name	ts_ReceiveFirstSDU_RB20_RB22
Reason for change	TTCN error: the local test step "lt_CheckStatus" must end in a [TRUE] statement otherwise the execution would be get stuck at this point.
Summary of change	Added line with statement [TRUE]
Source of change	New Change
Label	WA#RAB4439

Test Step				
Test Step Id:	ts_ReceiveFirstSDU_RB20_RB22 (p_data1 ,p_data2: BITSTRING)			
Test Step Group Ref:	RB_Steps/RB_Subtests/			
Objective:				
Defaults:				
Comments:	@SIC_NAPP			

		Behaviour Description	Constraint Ref	Verdict	Comments
0		(tcv_ReceiveRB20 := FALSE, tcv_ReceiveRB22 := FALSE, tcv_Res := FALSE, tcv_count_RB20 := 0			

3	+ts_Exit_Testcase				
It_CheckStatus					
0	[(tcv_ReceiveRB20 = TRUE) AND (tcv_ReceiveRB22 = TRUE)]				
1	(tcv_Res := TRUE)				
0	[TRUE]				WdRAB4439

Detailed Comment

5 Branches executed in test case 14.2.58

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

6 Execution Log Files

6.1 Nokia 3G UE 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 14_2_58_PS-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_58-pics-pixit-Nokia.html**
  Text file containing all PICS/PIXIT parameters used for testing.

7 References

[1]   **T1s040396**
        This archive comprises HTML Execution log files, PICS/PIXIT files and the TTCN MP file

CR-Form-v7

CHANGE REQUEST

| ⌘ | **TS 34.123-3** CR | 380 | ⌘**rev** | **-** | ⌘ | Current version: | **3.6.1** | ⌘ |

*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 cases 8.1.7.1 to RRC ATS v3.6.1

Source:	⌘	Anite

Work item code:	⌘	N/A		*Date:*	⌘	19/07/04

Category:	⌘	**B**		*Release:*	⌘	R99

Use one 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 one 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 1 RRC test cases 8.1.7.1 to the approved RRC ATS V3.6.1

Summary of change:	⌘	This document lists all changes applied to test cases 8.1.7.1 required for approval. See detailed change description for further information.

Consequences if not approved:	⌘	Test case will not be added to ATS

Clauses affected:	⌘	

		Y	**N**		
Other specs affected:	⌘		X	Other core specifications	⌘
		X			Prose CR is be submitted for the T1-24 meeting.
			X	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.

3GPP TSG-T1 E-Mail 2004   *T1s040398*
01 Jan - 31 Dec 2004

Title:	**Changes to test cases 8.1.7.1 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 cases 8.1.7.1, 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

3 Verification Test Summary

Test Case: TC_8_1_7_1

Test Group: RRC_SecurityModeCtrl

ATS Version: iWD-TVB2003-03_D04wk26 + essential modification

System Simulator used: Anite CT

UE used: Nokia 7600 and Motorola A835

Verification Status: PASS

4 Corrections required for test cases 8.1.7.1

4.1 Introduction

This section describes the changes required to make test cases 8.1.7.1 run correctly with a 3G UE. The ATS version used as basis was RRC_wk26r2.mp, which is part of the iWD-TVB2003-03_D04wk26 release.

4.2 Change 1

Local Tree and Test step	Tc_8_1_7_1
Reason for change	line#48 of test case 8_1_7_1, is "ts_CMAC_DL_CipherCfg". This configures only DL MAC ciphering. UL MAC ciphering also needs to be configured.
Summary of change	line#48 of test case 8_1_7_1 is replaced to "ts_CMAC_UL_DL_CipherCfg"
Source of change	New change

Before:

It_SS_ValidSecurity				
40		+ It_InitSecurityVariables		
41		+ It_CalculateActTime		
42		+ ts_SS_DownloadSecurityKey (tsc_CellA, tcv_AuthCK, tcv_AuthIK,OMIT,tcv_CN_Domain)		
43		+ ts_CRLC_GetRLC_SeqNumSecurity (tsc_CellA)		
44		+ ts_CRLC_SuspendSecurity (tsc_CellA)		
45		+ It_CRLC_DL_CipherCfg		Configure ciphering for RLC (RBs 1, 2, 3 and 4)
46		+ ts_CRLC_DL_Integrity (tcv_CellIndInfo.dL_Integrity)		
47		+ ts_RB2_UL_IntegrityActivate(tcv_RRC_MSN_RB2_UL)		
48		+ ts_CMAC_DL_CipherCfg (tcv_CellIndInfo.dL_CipherMode, tcv_ActTime , incPerCFN_Cycle)		

After:

It_SS_ValidSecurity				
41		+ It_InitSecurityVariables		
42		+ It_CalculateActTime		
43		+ ts_SS_DownloadSecurityKey (tsc_CellA, tcv_AuthCK, tcv_AuthIK,OMIT,tcv_CN_Domain)		
44		+ ts_CRLC_GetRLC_SeqNumSecurity (tsc_CellA)		
45		+ ts_CRLC_SuspendSecurity (tsc_CellA)		
46		+ It_CRLC_DL_CipherCfg		Configure ciphering for RLC (RBs 1, 2, 3 and 4)
47		+ ts_CRLC_DL_Integrity (tcv_CellIndInfo.dL_Integrity)		
48		+ ts_RB2_UL_IntegrityActivate(tcv_RRC_MSN_RB2_UL)		
49		+ ts_CMAC_UL_DL_CipherCfg (tcv_CellIndInfo.dL_CipherMode, tcv_ActTime , incPerCFN_Cycle)		

4.3 Change 2

Local Tree and Test step	cs_RRC_SecModeCmdOMIT
Reason for change	1. In Step 4 of test case 8_1_7_1 invalid security mode command is transmitted. As per 25.331 in the security mode command, IE "UE system specific security capability" is included if the IE "Inter-RAT UE radio access capability" was included in RRC CONNECTION SETUP COMPLETE message. But in security mode command (step 4), IE "UE system specific security capability" is not present.
Summary of change	1. cs_RRC_SecModeCmdOMIT is modified to include UE system specific security capability in the message 2. Step 4 is modified to transmit the modified security mode command.
Source of change	New change

Before:

ASN.1 Type Constraint Declaration	
Constraint Name:	cs_RRC_SecModeCmdOMIT (p_RRC_TI : RRC_TransactionIdentifier; p_cn_domain : CN_DomainIdentity; p_SecurityCapability : BITSTRING)
Group:	
Type Name:	SecurityModeCommand
Derivation Path:	
Encoding Variation:	
Comments:	Contraint with No ciphering mode info nor integrityProtectionModeInfo IEs

Constraint Value

r3 : { securityModeCommand_r3
  {
    rrc_TransactionIdentifier p_RRC_TI,
    securityCapability
    {
      cipheringAlgorithmCap p_SecurityCapability ,
      integrityProtectionAlgorithmCap tsc_IntegrProtAlgCap
    },
    cipheringModeInfo OMIT,
    integrityProtectionModeInfo OMIT,
    cn_DomainIdentity p_cn_domain
  },
  laterNonCriticalExtensions OMIT
}

After:

ASN.1 Type Constraint Declaration	
Constraint Name:	cs_RRC_SecModeCmdOMIT (p_RRC_TI : RRC_TransactionIdentifier; p_cn_domain : CN_DomainIdentity; p_SecurityCapability : BITSTRING p_SystemSpecCap : InterRAT_UE_SecurityCapList)
Group:	
Type Name:	SecurityModeCommand
Derivation Path:	
Encoding Variation:	
Comments:	Contraint with No ciphering mode info nor integrityProtectionModeInfo IEs

Constraint Value

r3 : { securityModeCommand_r3
  {
    rrc_TransactionIdentifier p_RRC_TI,
    securityCapability
    {
      cipheringAlgorithmCap p_SecurityCapability ,
      integrityProtectionAlgorithmCap tsc_IntegrProtAlgCap
    },
    cipheringModeInfo OMIT,
    integrityProtectionModeInfo OMIT,
    cn_DomainIdentity p_cn_domain,
    ue_SystemSpecificSecurityCap p_SystemSpecCap
  },
  laterNonCriticalExtensions OMIT
}

4.4   Change 3

Local Tree and Test step	TC_8_1_7_1
Reason for change	1. In Step 4 of test case 8_1_7_1 invalid security mode command is transmitted. As per 25.331 in the security mode command, IE "UE system specific security capability" is included if the IE "Inter-RAT UE radio access capability" was included in RRC CONNECTION SETUP COMPLETE message. But in security mode command (step 4), IE "UE system specific security capability" is not present. Refer to ANITE T1-24 CR T1-041157
Summary of change	1. Step 4 is modified to transmit the modified security mode command.

Source of change	New change

Before:

lt_TestBody					
13		(tcv_AuthRAND := o_BitstringXtract(tcv_AuthRAND, 128,128, 3))			New RAND different from Existing Generated. This can be guaranteed if guidelines specified for px_AuthRAND are followed
14		+ ts_MM_Authentication (tsc_CellA)			Steps 1a-1b
15		AM!RLC_AM_DATA_REQ	cas_InvalidDCCH_Msg (tsc_CellDedicated, tsc_RB2, cs_InvalidSecurityModeCommand (tcv_CellIndInfo.dl_IntegrityCheckInfo, tcv_RRC_Ti))		Step 2
16	TBP1	AM ? RLC_AM_DATA_IND	car_RRC_SecModeFail (tsc_CellDedicated, tsc_RB2, cr_108_SecModeFail (tcv_RRC_Ti, c_FailCauWithProtErrExtNotComprehended))	(P)	Step 3
17		AM!RLC_AM_DATA_REQ	cas_RRC_SecModeCmd (tsc_CellDedicated, tsc_RB2, cs_108_RRC_SecModeCmd (tcv_CellIndInfo.dl_IntegrityCheckInfo, cs_RRC_SecModeCmdOMIT (tcv_RRC_Ti, tcv_CN_Domain, tcv_CellIndInfo.cipheringAlgorithmCapability)))		Step 4
18	TBP2	AM ? RLC_AM_DATA_IND	car_RRC_SecModeFail (tsc_CellDedicated,	(P)	Step 5

After:

8

It_TestBody

13		(tcv_AuthRAND := o_BitstringXtract (tcv_AuthRAND, 128,128, 3))			New RAND different from Existing Generated. This can be guaranted if guid elines specified for px_A uthRAND are followed
14		+ ts_MM_Authentication (tsc_CellA)			Steps 1a-1b
15		AMIRLC_AM_DATA_REQ	cas_InvalidDCCH_Msg (tsc_CellDedicated, tsc_RB2, cs_InvalidSecurityModeCo mmand (tcv_CellIndInfo.dl _IntegrityCheckInfo, tcv_RR C_Ti))		Step 2
16	TBP1	AM ? RLC_AM_DATA_IND	car_RRC_SecModeFail (tsc_CellDedicated, tsc_RB2, cr_108_SecModeFail (tcv_ RRC_Ti, c_FailCauWithPro tErrExtNotComprehended) }	(P)	Step 3
17		+ It_TxInvalidSMC			Step 4
18	TBP2	AM ? RLC_AM_DATA_IND	car_RRC_SecModeFail (ts c_CellDedicated, tsc_RB2, cr_108_SecModeFail (tcv_ RRC_Ti, invalidConfiguratio n : NULL))	(P)	Step 5
19		+ It_SS_ValidSecurity			
20		+ It_TxSMC			@sic RASH T1-031470 s ic@ Branching based on GSM Supported, step 6

New local test step added:

It_TxInvalidSMC

66		[pc_UMTS_GSM]			
67		AMIRLC_AM_DATA_REQ	cas_RRC_SecModeCmd (tsc_CellDedicated, tsc_RB2, cs_108_RRC_SecModeCm d (tcv_CellIndInfo.dl_Integr ityCheckInfo, cs_RRC_SecModeCmdOM IT (tcv_RRC_Ti, tcv_CN_D omain, tcv_CellIndInfo.ciph eringAlgorithmCapability,cs _UE_SysSpecCap (INT_TO _BIT (tcv_UE_SystemSpeci ficCap,7)))))		
68		[NOT pc_UMTS_GSM]			
69		AMIRLC_AM_DATA_REQ	cas_RRC_SecModeCmd (tsc_CellDedicated, tsc_RB2, cs_108_RRC_SecModeCm d (tcv_CellIndInfo.dl_Integr ityCheckInfo, cs_RRC_SecModeCmdOM IT (tcv_RRC_Ti, tcv_CN_D omain, tcv_CellIndInfo.ciph eringAlgorithmCapability, O MIT)))		

4.5 Change 4

Local Tree and Test step	TC_8_1_7_1
Reason for change	2. In Step 9 of test case 8_1_7_1 the received security mode complete message is checked for the ciphering activation time for RB20. This is a CS mode test and RB20 is not present.
Summary of change	1. New constraint "cr_CipheringActTimeSRB_Any" is defined which does not check the ciphering activation time for RB20. 2. This new constraint is used in step 9 of TC_8_1_7_1
Source of change	New change

New Constraint Defination:

ASN.1 Type Constraint Declaration	
Constraint Name:	cr_CipheringActTimeSRB_Any
Group:	
Type Name:	RB_ActivationTimeInfoList
Derivation Path:	
Encoding Variation:	
Comments:	

Constraint Value

{
 {
  rb_Identity tsc_RB1,
  rlc_SequenceNumber ?
 },
 {
  rb_Identity tsc_RB2,
  rlc_SequenceNumber ?
 },
 {
  rb_Identity tsc_RB3,
  rlc_SequenceNumber ?
 },
 {
  rb_Identity tsc_RB4,
  rlc_SequenceNumber ?
 }
}

Before:

17		+ lt_SS_ValidSecurity			
18		+ lt_TxSMC			@sic RASH T1-031470 sic@ Branching based on GSM Supported, step 6
19	TBP3	AM?RLC_AM_DATA_IND (tcv_CellIndInfo.uL_Integrity := RLC_AM_DATA_IND.aM_message.uL_DCCH_Message.message.securityModeComplete.ul_IntegProtActivationinfo, tcv_CellIndInfo.uL_CipherMode := RLC_AM_DATA_IND.aM_message.uL_DCCH_Message.message.securityModeComplete.rb_UL_CiphActivationTimeInfo)	car_RRC_SecModeCmpl (tsc_CellDedicated, tsc_RB2, cdr_RRC_SecModeCmpl_8_1_7 (tcv_RRC_Ti , cr_CipheringActTimeSRB_RAB20_Any))	(P)	Step 9
20		+ ts_CRLC_UL_CipherCfg (tcv_CellIndInfo.uL_CipherMode, inc)			Download UL ciphering information
21		+ ts_CRLC_UL_Integrity (tcv_CellIndInfo.uL_Integrity)			Download UL integrity information
22		+ ts_CRLC_ResumeSecurity (tsc_CellA)			
23		+ lt_Check_UE_Capability			

After:

| 20 | | + lt_TxSMC | | | @sic RASH T1-031470 s ic@ Branching based on GSM Supported, step 6 |
| 21 | TBP3 | AM?RLC_AM_DATA_IND

(tcv_CellIndInfo.uL_Integrity := RLC _AM_DATA_IND.aM_message.uL_ DCCH_Message.message.securit yModeComplete.uL_IntegProtActivat ionInfo,
tcv_CellIndInfo.uL_CipherMode := RLC_AM_DATA_IND.aM_message .uL_DCCH_Message.message.se curityModeComplete.rb_UL_CiphA ctivationTimeInfo) | car_RRC_SecModeCmpl (
tsc_CellDedicated, tsc_RB 2,
cdr_RRC_SecModeCmpl_ 8_1_7
(
tcv_RRC_TI , cr_Cipheri ngActTimeSRB_Any
)
) | (P) | Step 9 |
22		+ ts_CRLC_UL_CipherCfg (t cv_CellIndInfo.uL_CipherMode, inc)			Download UL ciphering i nformation
23		+ ts_CRLC_UL_Integrity (tcv_ CellIndInfo.uL_Integrity)			Download UL integrity inf ormation
24		+ ts_CRLC_ResumeSecurity (tsc_CellA)			
25		+ lt_Check_UE_Capability			

Branches executed in test case 8.1.7.1

The test case 8_1_7_1 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

| ⌘ | **TS 34.123-3** CR | 381 | ⌘**rev** | - | ⌘ | Current version: | **3.6.1** | ⌘ |

*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 8.1.7.2 to RRC ATS v3.6.1
Source:	⌘	Anite
Work item code:	⌘ N/A	**Date:** ⌘ 19/07/04
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 1 RRC test cases 8.1.7.2 to the approved RRC ATS V3.6.1
Summary of change:	⌘	This document lists all changes applied to test cases 8.1.7.2 required for approval. See detailed change description for further information.
Consequences if not approved:	⌘	Test case will not be added to ATS

Clauses affected:	⌘	

	Y	**N**		
Other specs affected: ⌘		**X**	Other core specifications ⌘	Prose CR is be submitted for the T1-24 meeting.
	X			
		X	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.

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.

3GPP TSG-T1 E-Mail 2004   *T1s040400*
01 Jan - 31 Dec 2004

Title:	**Changes to test cases 8.1.7.2 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 8.1.7.2, 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

3 Verification Test Summary

Test Case: TC_8_1_7_2

Test Group: RRC_SecurityModeCtrl

ATS Version: iWD-TVB2003-03_D04wk26 + essential modifications

System Simulator used: Anite 3G CT

UE used: Nokia 7600 and Motorola A835

Verification Status: PASS

4 Corrections required for test cases 8.1.7.2

4.1 Introduction

This section describes the changes required to make test cases 8.1.7.2 run correctly with a 3G UE. The ATS version used as basis was RRC_wk26r2.mp, which is part of the iWD-TVB2003-03_D04wk26 release.

4.2 Change 1

Local Tree and Test step	Tc_8_1_7_2
Reason for change	line#3 of test case 8_1_7_2, is "pr_GotoState6_11_MO (tsc_CellA)". But this is called without initialising the variables for PS mode.
Summary of change	"ts_RRC_InitVariablesPS(Cell_FACH)" is added at the beginning of the test case
Source of change	New change

Before:

		Test Case			
Test Case Id:	tc_8_1_7_2				
Test Group Reference:	RRC/RRC_SecurityModeCtrl/				
Purpose:	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 the UE applies the old ciphering configuration in the downlink prior to the activation time; and uses the new ciphering configuration on and after the activation time. To confirm that the UE starts to cipher its uplink transmissions after the uplink activation time stated in SECURITY MODE COMPLETE message is reached. To confirm that the UE sends a SECURITY MODE FAILURE message when the 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		+ pr_GotoState6_11_MO (tsc_CellA)			
4	TBS	(tcv_TestBody := TRUE)			
5		+ lt_TestBody			
6	TBE	(tcv_TestBody := FALSE)			
7		+ po_ConnectionAndSS_Rel (tsc_CellA)			Release the RRC Connection
8	ERR1	[px_RAT = tdd]		I	TDD specific behaviour
9	ERR2	[TRUE]		I	

After:

		Test Case			
Test Case Id:	tc_8_1_7_2				
Test Group Reference:	RRC/RRC_SecurityModeCtrl/				
Purpose:	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 the UE applies the old ciphering configuration in the downlink prior to the activation time; and uses the new ciphering configuration on and after the activation time. To confirm that the UE starts to cipher its uplink transmissions after the uplink activation time stated in SECURITY MODE COMPLETE message is reached. To confirm that the UE sends a SECURITY MODE FAILURE message when the 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		+ ts_RRC_InitVariablesPS (cell_FACH)			
3		+ pr_GotoState6_11_MO (tsc_CellA)			
4	TBS	(tcv_TestBody := TRUE)			
5		+ lt_TestBody			
6	TBE	(tcv_TestBody := FALSE)			
7		+ po_ConnectionAndSS_Rel (tsc_CellA)			Release the RRC Connection
1	ERR1	[px_RAT = tdd]		I	TDD specific behaviour
1	ERR2	[TRUE]		I	

4.3 Change 2

Local Tree and Test step	Tc_8_1_7_2
Reason for change	As per 34.123 clause 8.1.7.2.4, security mode complete message in step 9 should be checked for field "RRC message sequence number list" in IE "Uplink integrity protection activation info" and for IE "Radio bearer uplink ciphering activation info". But this is not checked.
Summary of change	Step 9 in the test case is modified to check for these fields. 1. Constraint "cdr_RRC_SecModeCmpl_8_1_7" is used instead of "cbr_108_RRC_SecModeCmpl" 2. Constraint "cr_CipheringActTimeSRB_RAB20_Any" is used instead of "?"
Source of change	New change

Before:

			ErrExtNotComprehended))		
14		+ It_SS_ValidSecurity			
15		+ It_TxSMC			@sic RASH T1-031470 s ic@ Branching based on GSM Supported, step 6
16	TBP3	AM?RLC_AM_DATA_IND (tcv_CellIndInfo.uL_Integrity := RLC _AM_DATA_IND.aM_message.uL_ DCCH_Message.message.security ModeComplete.ul_IntegProtActivatio nInfo, tcv_CellIndInfo.uL_CipherMode := R LC_AM_DATA_IND.aM_message.u L_DCCH_Message.message.secu rityModeComplete.rb_UL_CiphActiv ationTimeInfo)	car_RRC_SecModeCmpl (tsc_CellDedicated, tsc_RB 2, cbr_108_RRC_SecModeCm pl (tcv_RRC_Ti , ?))	(P)	Step 9
17		+ ts_CRLC_UL_CipherCfg (tcv _CellIndInfo.uL_CipherMode, inc)			Download UL ciphering i nformation
18		+ ts_CRLC_UL_Integrity (tcv_C ellIndInfo.uL_Integrity)			Download UL integrity inf ormation
19		+ ts_CRLC_ResumeSecurity (tsc_CellA)			
20		+ It_Check_UE_Capability			

After:

			ErrExtNotComprehended))		
17		+ It_SS_ValidSecurity			
18		+ It_TxSMC			@sic RASH T1-031470 s ic@ Branching based on GSM Supported, step 6
19	TBP3	AM?RLC_AM_DATA_IND (tcv_CellIndInfo.uL_Integrity := RLC _AM_DATA_IND.aM_message.uL_ DCCH_Message.message.security ModeComplete.ul_IntegProtActivatio nInfo, tcv_CellIndInfo.uL_CipherMode := R LC_AM_DATA_IND.aM_message.u L_DCCH_Message.message.secu rityModeComplete.rb_UL_CiphActiv ationTimeInfo)	car_RRC_SecModeCmpl (tsc_CellDedicated, tsc_RB 2, cdr_RRC_SecModeCmpl_8 _1_7 (tcv_RRC_Ti , cr_Cipherin gActTimeSRB_RAB20_Any))	(P)	Step 9
20		+ ts_CRLC_UL_CipherCfg (tcv _CellIndInfo.uL_CipherMode, inc)			Download UL ciphering i nformation
21		+ ts_CRLC_UL_Integrity (tcv_C ellIndInfo.uL_Integrity)			Download UL integrity inf ormation
22		+ ts_CRLC_ResumeSecurity (tsc_CellA)			
23		+ It_Check_UE_Capability			

Branches executed in test case 8.1.7.2

The test case 8_1_7_2 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 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

⌘	**TS 34.123-3** CR	382	⌘**rev**	-	⌘	Current version:	**3.6.1**	⌘

*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 2 test case 14.4.2.1 to RAB ATS V3.6.1	
Source: ⌘	Anite	
Work item code: ⌘	N/A	***Date:*** ⌘ 4/08/04

Category: ⌘	**B**	***Release:*** ⌘ R99
	Use one 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 one 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 2 RAB test case 14.4.2.1 to the approved RAB ATS V3.6.1
Summary of change: ⌘	This document lists all changes applied to test case 14.4.2.1 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: ⌘	Y	N	
		X	Other core specifications ⌘
		X	Test specifications
		X	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 14.4.2.1 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 14.4.2.1, 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.

2 Table of Contents

3 Verification Test Summary

Test Case: tc_14_4_2_1

Test Group: RAB/CombinationsOnSCCPCH

ATS Version: iWD-TVB2003-03_D04wk26 + essential modifications

System Simulator used: **Anite 3G U-SAT**

UE used: Nokia 7600, Sony Ericsson Z1010

Verification Status: PASS

4 Corrections required for test case 14.4.2.1

4.1 Introduction

This section describes the changes required to make test case 14.4.2.1 run correctly with a 3G UE. The ATS version used as basis was RAB_wk26r1.mp, which is part of the iWD-TVB2003-03_D04wk26 release.

4.2 Change 1

Test step name	tc_14_4_2_1
Reason for change	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_2SCCPCH 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. 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	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_2SCCPCH 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_CRNTI ('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. 7. Removed call to test step ts_CalculateActTime from the test case body. 8. Removed parameter p_ActTime: ActivationTime from the test step ts_SendRB_SetUp_FACH_2SCCPCH_32k.

Source of change	New change

Before:

After:

4.3 Change 2

Test step	ts_RB_InitTest_2SCCPCH
Reason for change	1. Test Step ts_RB_InitTest_2SCCPCH always create Interactive type RAB. 2. As per 34.123-3 in case of 2 SCCPCH SIB scheduling used be as per section 8.4.4.1. This is as per T1-24 approved CR T1-041422. 3. Test Step ts_RRC_PagType1_P_TMSI_Cause uses tsc_RB_PCCH to send the Paging Message. However in this test case tsc_RB_PCCH2 is configured for PCCH.
Summary of change	1. 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

	2. Created a new Test step ts_SendSysInfo_2SCCPCH which is same as existing test step ts_SendSysInfo_2PRACH expect for the sending of Paging Information to the mobile. This new test step is called at row 3 in place of ts_SendSysInfoWithSpecialSIB5_And6. 3. Created a new test step ts_RRC_PagType1_P_TMSI_Cause_New which uses tsc_RB_PCCH2 to send the Paging Type 1 message.	
Source of change	New change	

Before:

Test Step Id:	ts_RB_InitTest_2SCCPCH
Test Step Group Ref:	RB_Steps/Initialization/
Objective:	To setup the environement for PS test cases
Defaults:	RRC_Def1
Comments:	@SIC_NAPP

...	L...	Behaviour Description	Constraint Ref	...	Comments
1		+ts_SS_CreateCell2_SCCPCH_StandAlonePCH (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_2SCCPCH(tcv_TmpCellInfo),cb_SIB6_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, terminatingInteractiveCall)			
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

After:

Test Step Id:	ts_RB_InitTest_2SCCPCH(p_PagCause: PagingCause; p_EstCause: EstablishmentCause)
Test Step Group Ref:	RB_Steps/Initialization/
Objective:	To setup the environement for PS test cases
Defaults:	RRC_Def1
Comments:	@SIC_NAPP

...	L...	Behaviour Description	Constraint Ref	...	Comments
1		+ts_SS_CreateCell2_SCCPCH_StandAlonePCH (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_New (tsc_CellA, px_PTMSI_Def, p_PagCause)			
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

New Test Step Added:

Test Step	
Test Step Id:	ts_RRC_PagType1_P_TMSI_Cause_New (p_CellId: INTEGER; p_P_Tmsi:OCTETSTRING; p_PagCause: PagingCause)
Test Step Group Ref:	RB_Steps/Initialization/
Objective:	
Defaults:	RRC_Def1
Comments:	To send PAGING TYPE 1 with PTMSI and with a given paging cause

...	L...	Behaviour Description	Constraint Ref	...	Comments
0		+ts_RRC_Delay(tsc_WaitBeforePaging)			Give delay before paging type1
1		+ts_CMAC_Pag1_Cfg(p_CellId)			
2		TM ! RLC_TR_DATA_REQ	cas_PagingType1 (p_CellId, tsc_RB_PCCH2, cs_RRC_PagingType1_PTMSI(p_PagCause, o_ConvertPTMSI(p_P_Tmsi), tcv_CN_Domain))		

4.4   Change 3

Test step	ts_SendSysInfo_2SCCPCH
Reason for change	1. As per 34.123-3 in case of 2 SCCPCH SIB scheduling used be as per section 8.4.4.1. This is as per T1-24 approved CR T1-041422.
Summary of change	1. Created a new Test step ts_SendSysInfo_2SCCPCH which is same as existing test step ts_SendSysInfo_2PRACH expect for the sending of Paging Information to the mobile.
Source of change	New change

Test Step		
Test Step Id:	ts_SendSysInfo_2SCCPCH (p_CellId: INTEGER; p_SIB5: SysInfoType5)	
Test Step Group Ref:	RRC_Specifc/	
Objective:	To broadcast system information for 2SCCPCH	
Defaults:	InitOtherwiseFail	
Comments:	broadcast MIB, SB1, SIB1, SIB2, SIB3, SIB4, SIB5, SIB7, SIB11, SIB12, SIB18 for test cases using two PRACH or two SCCPCH	

		Behaviour Description			Comments
1		+ ts_SetTmpCellInfo (p_CellId)			Fetch record corresponding to current cell
2		+ ts_UTRAN_GERAN_ParaInit(p_CellId)			
3		+ts_CellDependentPara(p_CellId)			
4		+ ts_InitializeSIB11_SIB12 (p_CellId)			
5		[px_RAT = fdd]			
6		(tcv_SB1 := c_SB1_BMC_2PRACH_2SCCPCH, tcv_MIB := c_MIB_MulRatOrBMC(tcv_TmpCellInfo))			
7		+ts_SendNoSegBMC(p_CellId)			
8		+ts_SendSIB1_MulRatOrBMC (cb_SIB1_Def(tcv_TmpCellInfo), p_CellId, tsc_Now)			
9		+ts_SendSIB2_MulRatOrBMC(c_SIB2_Def (tcv_TmpCellInfo), p_CellId, tsc_Now)			
10		+ts_SendSIB3_MulRatOrBMC(tcv_SIB3, p_CellId, tsc_Now)			
11		+ts_SendSIB4_MulRatOrBMC(tcv_SIB4, p_CellId, tsc_Now)			
12		+ts_SendSIB5_BMC(p_SIB5, p_CellId, tsc_Now)			
13		+ts_SendSIB7_MulRatOrBMC(c_SIB7_Def, p_CellId, tsc_Now)			
14		+ts_SendSIB11_MulRatOrBMC (tcv_SIB11, p_CellId, tsc_Now)			
15		+ts_SendSIB12_BMC(tcv_SIB12, p_CellId, tsc_Now)			
16		+ts_SendSIB18_MulRatOrBMC(c_SIB18_Def(tcv_TmpCellInfo), p_CellId, tsc_Now)			
17		+ts_SendSB1_MulRatOrBMC(tcv_SB1, p_CellId, tsc_Now)			
18		+ts_SendMIB(tcv_MIB, p_CellId, tsc_Now)			
19	ER R1	[px_RAT = tdd]			I
20	ER R2	[TRUE]			I

4.5 Change 4

Test step	cb_SIB5_Def_2SCCPCH

Reason for change	1. As per 34.123-3 section 8.4.4.1 SIB scheduling SIB6 is not broadcasted. Thus sib6indicator in SIB5 should be set to FALSE. This is as per T1-24 approved CR T1-041125
	2. As per 34.108 section 6.1.1 default content for SIB5:
	    a) Power offset Pp-m should be set 0.
	    b) Gain factor ßc should be set to 11.
	    c) AICH transmission timing should be set 0.
	    d) The TFCS complete reconfiguration information should contain 0,1,2,3,4 as a part of CTFC information. In the TTCN implementation CTFC 5 is also used.

Summary of change	1. Changed the value of sib6indicator TRUE to FALSE.
	2. Following changes are done in the constraint to be as per 34.108:
	    a) Changed the value of Power offset Pp-m from –5 to 0.
	    b) Changed the value of Gain factor ßc from 10 to 11.
	    c) Changed the value of AICH transmission timing from e1 to e0.
	    d) Removed CTFC 5 from the TFCS complete reconfiguration information.

Source of change	New change

Before:

```
{
sib6indicator TRUE,
pich_PowerOffset p_CellInfo.powerPICH,
modeSpecificInfo fdd : {
 aich_PowerOffset p_CellInfo.powerAICH
},
primaryCCPCH_Info OMIT,
prach_SystemInformationList {{
  prach_RACH_Info {
   modeSpecificInfo fdd : {
     availableSignatures tsc_PRACH1_Signatures,
     availableSF tsc_PRACH1_SF,
     preambleScramblingCodeWordNumber tsc_PRACH1_ScrC,
     puncturingLimit pl1,
     availableSubChannelNumbers '1111111111111'B
   }
  },
  transportChannelIdentity tsc_RACH1,
  rach_TransportFormatSet commonTransChTFS : c_RACH_TFS_UE,
  rach_TFCS normalTFCI_Signalling : complete : (
  ctfcSize ctfc2Bit : {{
    ctfc2 0,
    powerOffsetInformation { gainFactorInformation computedGainFactors : 0,
     powerOffsetPp_m -5
    }
   },
   { ctfc2 1,
     powerOffsetInformation {
      gainFactorInformation signalledGainFactors : {
       modeSpecificInfo fdd : {
        gainFactorBetaC 10
        },
        gainFactorBetaD 15,
        referenceTFC_ID 0 },
       powerOffsetPp_m -5
     }
    }
    "
    aich_Info {
     channelisationCode256 tsc_AICH1_ChC,
     sttd_Indicator FALSE,
     aich_TransmissionTiming e1
    }
   }
  )
 }}
 tfcs normalTFCI_Signalling : complete: {ctfcSize ctfc4Bit : {
   {ctfc4 0 }, {ctfc4 1 }, {ctfc4 2 }, {ctfc4 3 }, {ctfc4 4}, {ctfc4 5 }
  }},
 fach_PCH_InformationList {
  {
   transportFormatSet commonTransChTFS : c_FACH_TFS_UE,
   transportChannelIdentity tsc_FACH1, -- FACH
   ctch_Indicator FALSE
  },
  {
   transportFormatSet commonTransChTFS : c_FACH_TFS_PS_UE,
   transportChannelIdentity tsc_FACH2, -- FACH
   ctch_Indicator FALSE
  }
```

After:

```
{
sib6indicator FALSE,
pich_PowerOffset p_CellInfo.powerPICH,
modeSpecificInfo fdd : {
 aich_PowerOffset p_CellInfo.powerAICH
},
primaryCCPCH_Info OMIT,
prach_SystemInformationList ({
  prach_RACH_Info {
   modeSpecificInfo fdd : {
    availableSignatures tsc_PRACH1_Signatures,
    availableSF tsc_PRACH1_SF,
    preambleScramblingCodeWordNumber tsc_PRACH1_ScrC,
    puncturingLimit pl1,
    availableSubChannelNumbers '111111111111'B
   }
  },
  transportChannelIdentity tsc_RACH1,
  rach_TransportFormatSet commonTransChTFS : c_RACH_TFS_UE,
  rach_TFCS normalTFCI_Signalling : complete : {
   ctfcSize ctfc2Bit : ({
     ctfc2 0,
     powerOffsetInformation { gainFactorInformation computedGainFactors : 0,
      powerOffsetPp_m 0
     }
    },
    { ctfc2 1,
     powerOffsetInformation {
      gainFactorInformation signalledGainFactors : {
       modeSpecificInfo fdd : {
         gainFactorBetaC 11
       },
       gainFactorBetaD 15,
       referenceTFC_ID 0 },
      powerOffsetPp_m 0
     }
    }
   }
```

```
  aich_Info {
   channelisationCode256 tsc_AICH1_ChC,
   sttd_Indicator FALSE,
   aich_TransmissionTiming e0
  }
 }
```

```
..
tfcs normalTFCI_Signalling : complete: {ctfcSize ctfc4Bit : (
   {ctfc4 0 }, {ctfc4 1 }, {ctfc4 2 }, {ctfc4 3 }, {ctfc4 4)
 }},
 fach_PCH_InformationList {
  {
   transportFormatSet commonTransChTFS : c_FACH_TFS_UE,
   transportChannelIdentity tsc_FACH1, -- FACH
   ctch_Indicator FALSE
  },
  {
   transportFormatSet commonTransChTFS : c_FACH_TFS_PS_UE,
   transportChannelIdentity tsc_FACH2, -- FACH
   ctch_Indicator FALSE
  }
 }
```

4.6   Change 5

Test step	c_TFCS_CmplFACH_NoPCH_Tx
Reason for change	1. As per 34.108 section 6.1.1 default content for SIB5, the TFCS complete reconfiguration information should contain 0,1,2,3,4 as a part of CTFC information. In the TTCN implementation CTFC 5 is not used.
Summary of change	1. Removed CTFC 5 from the normalTFCI_Signalling complete information.

Source of change	New change

Before:

After:

4.7   Change 6

Test step	c_TrLogMappingFACH_PS
Reason for change	In this constraint: 1. Wrong rB_Identity of "tsc_RB_BCCH" is used for logical channel carrying BCCH data mapped to FACH. 2. Wrong logicalChannelType of "dCCH" is used for logical Channel

	tsc_DL_CCCH5.
Summary of change	Following changes are done: 1. Changed rB_Identity from "tsc_RB_BCCH" to "tsc_RB_BCCH_FACH" 2. Changed logicalChannelType from "dCCH" to "cCCH" to tsc_DL_CCCH5.
Source of change	New change

Before:

```
{
 ulconnectedTrCHList OMIT,
 dlconnectedTrCHList {
  {
   trchid tsc_FACH2,
   trCH_LogCHMappingList {
    {
     logicalChannel_Mapping dl_LogicalChannelMapping : {
      macHeaderManipulation normalMacHeader,
      dl_TransportChannelType fach,
      logicalChannelIdentity tsc_DL_DTCH1,
      logicalChannelType dTCH,
      rlc_SizeList configured : NULL,
      mac_LogicalChannelPriority 8
     },
     rB_Identity tsc_RB20
    }
   }
  },
  {
   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,
```

After:

```
(
  ulconnectedTrCHList OMIT,
  dlconnectedTrCHList {
    {
      trchid tsc_FACH2,
      trCH_LogCHMappingList {
        {
          logicalChannel_Mapping dl_LogicalChannelMapping : {
            macHeaderManipulation normalMacHeader,
            dl_TransportChannelType fach,
            logicalChannelIdentity tsc_DL_DTCH1,
            logicalChannelType dTCH,
            rlc_SizeList configured : NULL,
            mac_LogicalChannelPriority 8
          },
          rB_Identity tsc_RB20
        }
      }
    },
    {
      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,
```

4.8   Change 7

Test step	ts_SS_2FACH_CCCH_DCCH_BCCH_DTCH_Cfg
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]		I
12	ERR2	[TRUE]		I

After:

8		CMAC ? CMAC_Config_CNF	ca_CMAC_CfgCnf(p_CellId, tsc_S_CCPCH2)	
9	ERR1	[px_RAT = tdd]		I
10	ERR2	[TRUE]		I

4.9   Change 8

Test step	ts_SS_SecondSCCPCH_PCH_PCCH_Cfg
Reason for change	As per 34.108 section 6.1.1 slot format used for the SCCPCH carrying PCH only should be "4". In the TTCN while configuring SCCPCH at the SS, slot format of 8 is used.
Summary of change	Replaced "tcv_TmpCellInfo.slotFormatsCCPCH1" with "4" at row 3.
Source of change	New change

Before:

After:

4.10 Change 9

Test step	ts_SendRB_SetUp_FACH_2SCCPCH_32k
Reason for change	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. Parameter p_ActTime: ActivationTime is unused
Summary of change	1. Instead of "cs_RRC_RB_SetUp" use cbs_108_RB_SetUpFACH_PS. 2. Created a new test step ts_CMAC_New_RNTI_Reconf_2sccpch and is called at row 3. 3. Removed unused parameter p_ActTime: ActivationTime.
Source of change	New change

Before:

After:

4.11 Change 10

Test step	ts_CMAC_New_RNTI_Reconf_2sccpch
Reason for change	1. 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	1. Created a new test step ts_CMAC_New_RNTI_Reconf_2sccpch. This new test step is required as in this case in the DL, physical channel Id required is tsc_S_CCPCH2 and also the transport channel Mapping information is different than the normal configuration.
Source of change	New change

		Behaviour Description	Constraint Ref		Comments
		Test Step Id: ts_CMAC_New_RNTI_Reconf_2sccpch(p_urnti:BOOLEAN; p_CellId : INTEGER; p_U_RNTI : U_RNTI; p_C_RNTI : BITSTRING)			
		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.			

..	..	Behaviour Description	Constraint Ref	..	Comments
1		+ ts_SetTmpCellInfo (p_CellId)			
2		+ ts_CRLC_ReconfRLC_Size (p_urnti)			
3		+ lt_CMAC_Reconf (p_urnti)			
lt_CMAC_Reconf (p_urnti: BOOLEAN)					
4		[p_urnti]			
5		CMAC ! CMAC_Config_REQ	ca_CMAC_ReconfInfoActNow (p_CellId , tsc_S_CCPCH1, c_UE_Info(p_U_RNTI, OMIT), c_TrChInfoFACH_PS, c_TrLogMappingFACH_PS)		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_urnti]			
8		[tcv_TmpCellInfo.cellConfig = cell_FACH_2SCCPCH_StandAlonePCH]			
9		CMAC ! CMAC_Config_REQ	ca_CMAC_ReconfInfoActNow (p_CellId , tsc_PRACH1, c_UE_Info (OMIT, p_C_RNTI), cb_TrChInfoRACH1, c_TrLogMappingRACH_DTCH)		SS has valid C-RNTI, U-RNTI is not valid Only C-RNTI is required on PRACH
10		CMAC ? CMAC_Config_CNF	ca_CMAC_CfgCnf (p_CellId, tsc_PRACH1)		
11		CMAC ! CMAC_Config_REQ	ca_CMAC_ReconfInfoActNow (p_CellId , tsc_S_CCPCH2, c_UE_Info(OMIT, p_C_RNTI), c_TrChInfoFACH_PS, c_TrLogMappingFACH_PS)		
12		CMAC ? CMAC_Config_CNF	ca_CMAC_CfgCnf (p_CellId , tsc_S_CCPCH2)		
13		[TRUE]			

4.12 Change 11

Test step	ts_RRC_ReceiveRB_SetupCmpl
Reason for change	At row 36 check for p_RbType = cell_FACH_2SCCPCH_StandAlonePCH_PS is required.
Summary of change	At row 36, replaced check for p_RbType = cell_FACH_2SCCPCH_StandAlonePCH to p_RbType = cell_FACH_2SCCPCH_StandAlonePCH_PS.
Source of change	New change

Before:

After:

4.13 Change 12

Test case Variable	ts_RRC_ReceiveConnSetupCmpl
Reason for change	At row 7 check for tcv_TmpCellInfo.cellConfig = cell_FACH_2SCCPCH_StandAlonePCH is missing
Summary of change	At row 7 added a check for tcv_TmpCellInfo.cellConfig = cell_FACH_2SCCPCH_StandAlonePCH
Source of change	New change

Before:

After:

6	+ lt_GetHFN		
7	[(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_StandAlonePCH_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_2SCCPCH_StandAlonePCH) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_4_FACH_Cnfg1_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_4_FACH_Cnfg1) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_4_FACH_Cnfg2_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_4_FACH_Cnfg2)OR (tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_3_FACH_CTCH_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_3_FACH_CTCH)]		
8	START t_WaitMS		

4.14 Change 13

Test step	po_ConnectionAndSS_Rel
Reason for change	At row 8 check for tcv_TmpCellInfo.cellConfig = cell_FACH_2SCCPCH_StandAlonePCH_PS is missing.
Summary of change	At row 8 added a check for tcv_TmpCellInfo.cellConfig = cell_FACH_2SCCPCH_StandAlonePCH_PS
Source of change	New change

Before:

After:

6	[(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_2SCCPCH_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_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)]	3.
7	[TRUE]	4.
8	[(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_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_4_FACH_Cnfg2)OR (tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_3_FACH_CTCH)]	1.

4.15 Change 14

Local Test Step and Test Case Body	ts_SS_Rel
Reason for change	1. At row 77 check for tcv_TmpCellInfo.cellConfig = cell_FACH_2SCCPCH_StandAlonePCH_PS is missing. 2. At the SS side release of Physical channels, transport Channels, MAC and RLC entity is not correct.
Summary of change	1. At row 77 added a check for tcv_TmpCellInfo.cellConfig = cell_FACH_2SCCPCH_StandAlonePCH_PS 2. Replaced rows 78 to 101 with rows 78 to 95.
Source of change	New change

Before:

76	+ ts_SetCellCfg (p_CellId, cell_NotConfigured)		
77	[(tcv_TmpCellInfo.cellConfig = cell_FACH_2SCCPCH_StandAlonePCH_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_2SCCPCH_StandAlonePCH)]		
78	+ lt_RelSRB1_4		
79	+ ts_CRLC_Rel (tsc_CellDedicated, tsc_RB20)		
80	+ ts_CRLC_Rel (p_CellId, tsc_RB_BCCH_FACH)		
81	+ ts_CRLC_Rel (p_CellId, tsc_RB_PCCH2)		
82	+ ts_CRLC_Rel (p_CellId, tsc_RB0)	2.	
83	+ ts_CMAC_Rel (p_CellId, tsc_PRACH1)		
84	+ ts_CPHY_TrChRelNonDch (p_CellId, tsc_PRACH1)		
85	+ ts_SS_StopRL (p_CellId, tsc_PRACH1)		
86	+ ts_SS_StopRL (p_CellId, tsc_AICH1)		
87	+ ts_CMAC_Rel (p_CellId, tsc_S_CCPCH1)		
88	+ ts_CPHY_TrChRelNonDch (p_CellId, tsc_S_CCPCH1)		
89	+ ts_SS_StopRL (p_CellId, tsc_S_CCPCH1)		
90	+ ts_SS_StopRL (p_CellId, tsc_PICH1)		
91	+ ts_CMAC_Rel (p_CellId, tsc_S_CCPCH2)		
92	+ ts_CPHY_TrChRelNonDch (p_CellId, tsc_S_CCPCH2)		
93	+ ts_SS_StopRL (p_CellId, tsc_S_CCPCH2)		
94	+ ts_SS_StopRL (p_CellId, tsc_PICH2)		
95	+ lt_ReleaseCommonCh		
96	+ ts_CMAC_Rel (p_CellId, tsc_S_CCPCH2)		
97	+ ts_CPHY_TrChRelNonDch (p_CellId, tsc_S_CCPCH2)		
98	+ ts_SS_StopRL (p_CellId, tsc_S_CCPCH2)		
99	+ ts_SS_StopRL (p_CellId, tsc_PICH2)		
100	+ lt_Release_BCCH		
101	+ ts_SetCellCfg (p_CellId, cell_NotConfigured)		
102	[(tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_4_FACH_Cnfg1_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_4_FACH_Cnfg1) OR (tcv_TmpCell Info.cellConfig =cell_FACH_3_SCCPCH_4_FACH_Cnfg2_NoConn) OR (tcv_TmpCellInfo.c ellConfig =cell_FACH_3_SCCPCH_4_FACH_Cnfg2)]		

After:

77	[(tcv_TmpCellInfo.cellConfig = cell_FACH_2SCCPCH_StandAlonePCH_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_2SCCPCH_StandAlonePCH) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_2SCCPCH_StandAlonePCH_PS)]		
78	+ lt_RelSRB1_4		
79	+ ts_CRLC_Rel (tsc_CellDedicated, tsc_RB20)		
80	+ ts_CRLC_Rel (p_CellId, tsc_RB_BCCH_FACH)		
81	+ ts_CRLC_Rel (p_CellId, tsc_RB0)	2.	
82	+ ts_CMAC_Rel (p_CellId, tsc_PRACH1)		
83	+ ts_CPHY_TrChRelNonDch (p_CellId, tsc_PRACH1)		
84	+ ts_SS_StopRL (p_CellId, tsc_AICH1)		
85	+ ts_SS_StopRL (p_CellId, tsc_PRACH1)		
86	+ ts_CRLC_Rel (p_CellId, tsc_RB_PCCH2)	3.	
87	+ ts_CMAC_Rel (p_CellId, tsc_S_CCPCH1)		
88	+ ts_CPHY_TrChRelNonDch (p_CellId, tsc_S_CCPCH1)		
89	+ ts_SS_StopRL (p_CellId, tsc_PICH1)		
90	+ ts_SS_StopRL (p_CellId, tsc_S_CCPCH1)		
91	+ ts_CMAC_Rel (p_CellId, tsc_S_CCPCH2)		
92	+ ts_CPHY_TrChRelNonDch (p_CellId, tsc_S_CCPCH2)		
93	+ ts_SS_StopRL (p_CellId, tsc_S_CCPCH2)		
94	+ lt_Release_BCCH		
95	+ ts_SetCellCfg (p_CellId, cell_NotConfigured)		
96	[(tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_4_FACH_Cnfg1_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_4_FACH_Cnfg1) OR (tcv_TmpCellInfo.cellConfi g =cell_FACH_3_SCCPCH_4_FACH_Cnfg2_NoConn) OR (tcv_TmpCellInfo.cellConfig =cell_FACH_3_ SCCPCH_4_FACH_Cnfg2)]		

Branches executed in test case 14.4.2.1

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]:

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]:

6 References

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

CR-Form-v7

CHANGE REQUEST

| ⌘ | **TS 34.123-3** CR | 383 | ⌘**rev** | - | ⌘ | Current version: | **3.6.1** | ⌘ |

*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 3 test case 14.2.38a to RAB ATS V3.6.1
Source:	⌘ Anite
Work item code: ⌘ N/A	**Date:** ⌘ 05/08/04
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 3 RAB test cases 14.2.38a to the approved RAB ATS V3.6.1 For the original version (T1s040391) of this CR, MCC 160 had in principle accepted some of the changes and implemented those changes in a different way.
Summary of change: ⌘	No Changes are required in the wk31 TTCN.
Consequences if not approved: ⌘	Test case will not be added to ATS

Clauses affected:	⌘	

		Y	N		
Other specs affected:	⌘		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.

3GPP TSG-T1 E-Mail 2004   **T1s040432**
01 Jan - 31 Dec 2004

Title: **Changes to test cases 14.2.38a 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 the various branches & execution details needed to verify the TTCN implementation of test case 14.2.38a, 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.

2 Table of Contents

3 Verification Test Summary

Test Case: tc_14_2_38a

Test Group: RAB/CombinationOnDPCH/ConvSpeech_InteractBackgrnd

ATS Version: iWD-TVB2003-03_D04wk31 + essential modifications

System Simulator used: **Anite 3G CT**

UE used: Nokia 7600, Sony Ericsson Z1010

Verification Status: PASS

4 Branches executed in test case 14.2.38a

The test case implementation executed the combined CS/PS branch 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 Sony Ericsson UE Z1010

The Sony Ericsson Z1010 passed this test case on the Anite 3G 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 and the TTCN MP file.

CR-Form-v7

CHANGE REQUEST

⌘	**TS 34.123-3** CR	384	⌘**rev**	-	⌘	Current version:	**3.6.1**	⌘

*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 3 test case 14.2.38e to RAB ATS V3.6.1

Source:	⌘	Anite

Work item code: ⌘	N/A		**Date:** ⌘	05/08/04

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 3 RAB test cases 14.2.38e to the approved RAB ATS V3.6.1

     For the original version (T1s040393) of this CR, MCC 160 had in principle accepted some of the changes and implemented those changes in a different way.

Summary of change: ⌘	No Changes are required in the wk31 TTCN.

Consequences if not approved:	⌘	Test case will not be added to ATS

Clauses affected:	⌘	

		Y	N		
Other specs affected:	⌘		X	Other core specifications	⌘
			X	Test specifications	
			X	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.

3GPP TSG-T1 E-Mail 2004   **T1s040433**
01 Jan - 31 Dec 2004

Title:	**Changes to test cases 14.2.38e 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 the various branches & execution details needed to verify the TTCN implementation of test case 14.2.38e, 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.

2 Table of Contents

3 Verification Test Summary

Test Case: tc_14_2_38e

Test Group: RAB/CombinationOnDPCH/ConvSpeech_InteractBackgrnd

ATS Version: iWD-TVB2003-03_D04wk31 + essential modifications

System Simulator used: Anite 3G CT

UE used: Nokia 7600, Sony Ericsson Z1010

Verification Status: PASS

4 Branches executed in test case 14.2.38e

The test case implementation executed the combined CS/PS branch 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 Sony Ericsson UE Z1010

The Sony Ericsson Z1010 passed this test case on the Anite 3G 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 and the TTCN MP file.

CR-Form-v7

CHANGE REQUEST

| ⌘ | **TS 34.123-3** CR | 385 | ⌘**rev** | **-** | ⌘ | Current version: | **3.6.1** | ⌘ |

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 2 test case 14.4.2.2 to RAB ATS V3.6.1	
Source: ⌘	Anite	
Work item code: ⌘	N/A	***Date:*** ⌘ 13/08/04
Category: ⌘ B	*Use one 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.	***Release:*** ⌘ R99 *Use one 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 2 RAB test case 14.4.2.2 to the approved RAB ATS V3.6.1
Summary of change: ⌘	This document lists all changes applied to test case 14.4.2.2 required for approval. See detailed change description for further information.
Consequences if not approved: ⌘	Test case will not be added to ATS

Clauses affected: ⌘		

	Y	N			
Other specs affected: ⌘		X	Other core specifications	⌘	
		X	Test specifications		
		X	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 14.4.2.2 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 14.4.2.2, 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.

2   Table of Contents

3 Verification Test Summary

Test Case: tc_14_4_2_2

Test Group: RAB/CombinationsOnSCCPCH

ATS Version: iWD-TVB2003-03_D04wk31 + essential modifications

System Simulator used: Anite 3G U-SAT

UE used: Nokia 7600, Motorola A835

Verification Status: PASS

4 Corrections required for test case 14.4.2.2

4.1 Introduction

This section describes the changes required to make test case 14.4.2.2 run correctly with a 3G UE. The ATS version used as basis was RAB_wk31.mp, which is part of the iWD-TVB2003-03_D04wk31 release.

4.2 Change 1

Test step	cb_SIB5_Def_3SCCPCH
Reason for change	As per 34.108 section 6.1.3 default content for SIB5: 　a)　Power offset Pp-m should be set 0. 　b)　Gain factor ßc should be set to 11. 　c)　AICH transmission timing should be set 0. 　d)　The TFCS complete reconfiguration information should contain 0,1,2,3,4 as a part of CTFC information. In the TTCN implementation CTFC 5 is also used. 　e)　TFS for FACH transport channel ID 1 used in TTCN is not correct. 　f)　TFCS for SCCPCH 1 is not correct.
Summary of change	Following changes are done in the constraint to be as per 34.108: 　a)　Changed the value of Power offset Pp-m from −5 to 0. 　b)　Changed the value of Gain factor ßc from 10 to 11. 　c)　Changed the value of AICH transmission timing from e1 to e0. 　d)　Removed CTFC 5 from the TFCS complete reconfiguration information. 　e)　Replaced "c_FACH_TFS_UE_2ndSCCPCH" with "c_FACH_TFS_UE_3rdSCCPCH" for FACH transport Channel ID 1. 　f)　Updated the TFCS for SCCPCH 1 as per 34.108.
Source of change	New change

Before:

```
  ctfcSize ctfc2Bit : {{
    ctfc2 0,
    powerOffsetInformation { gainFactorInformation computedGainFactors : 0,
     powerOffsetPp_m -5
    }
   },
   { ctfc2 1,
     powerOffsetInformation {
      gainFactorInformation signalledGainFactors : {
       modeSpecificInfo fdd : {
        gainFactorBetaC 10
       },
       gainFactorBetaD 15,
       referenceTFC_ID 0 },
       powerOffsetPp_m -5
     }
    }
  } },

   aich_Info {
    channelisationCode256 tsc_AICH1_ChC,
    sttd_Indicator FALSE,
    aich_TransmissionTiming e1
   }

 tfcs normalTFCI_Signalling : complete: (ctfcSize ctfc2Bit : {
   {ctfc2 0 }, {ctfc2 1 }, {ctfc2 2 }}},
 fach_PCH_InformationList {
  {
   transportFormatSet commonTransChTFS : c_FACH_TFS_UE_2ndSCCPCH,
   transportChannelIdentity tsc_FACH1, -- FACH
   ctch_Indicator FALSE
  },
  {
   transportFormatSet commonTransChTFS : c_FACH_TFS_PS_UE,
   transportChannelIdentity tsc_FACH2, -- FACH
   ctch_Indicator FALSE
  }
 }
 },
 {
  secondaryCCPCH_Info {
   modeSpecificInfo fdd : {
    dummy1 mayBeUsed, -- mandatory ie
    secondaryScramblingCode OMIT,
    sttd_Indicator FALSE,
    sf_AndCodeNumber tsc_S_CCPCH3_ChC,
    pilotSymbolExistence FALSE,
    tfci_Existence TRUE,
    positionFixedOrFlexible flexible,
    timingOffset 90
   }
  },
 tfcs normalTFCI_Signalling : complete: (ctfcSize ctfc4Bit : {
   {ctfc4 0 }, {ctfc4 1 }, {ctfc4 2 }, {ctfc4 3 }, {ctfc4 4}, {ctfc4 5 }
  }},
```

After:

```
  ctfcSize ctfc2Bit : {{
    ctfc2 0,
    powerOffsetInformation { gainFactorInformation computedGainFactors : 0,
     powerOffsetPp_m 0
    }
   },
   { ctfc2 1,
     powerOffsetInformation {
      gainFactorInformation signalledGainFactors : {
       modeSpecificInfo fdd : {
        gainFactorBetaC 11
       },
       gainFactorBetaD 15,
       referenceTFC_ID 0 },
       powerOffsetPp_m 0
     }
    }
  } },
```

```
aich_Info {
  channelisationCode256 tsc_AICH1_ChC,
  sttd_Indicator FALSE,
  aich_TransmissionTiming e0
  }
}


tfcs normalTFCI_Signalling : complete: {ctfcSize ctfc4Bit }{
  {ctfc4 0 }, {ctfc4 1 }, {ctfc4 2 }, {ctfc4 3 }, {ctfc4 4}}}},
fach_PCH_InformationList {
  {
    transportFormatSet commonTransChTFS : c_FACH_TFS_UE_3rdSCCPCH,
    transportChannelIdentity tsc_FACH1, -- FACH
    ctch_Indicator FALSE
  },
  {
    transportFormatSet commonTransChTFS : c_FACH_TFS_PS_UE,
    transportChannelIdentity tsc_FACH2, -- FACH
    ctch_Indicator FALSE
  }
  }
},
{
  secondaryCCPCH_Info {
    modeSpecificInfo fdd : {
      dummy1 mayBeUsed, -- mandatory ie
      secondaryScramblingCode OMIT,
      sttd_Indicator FALSE,
      sf_AndCodeNumber tsc_S_CCPCH3_ChC,
      pilotSymbolExistence FALSE,
      tfci_Existence TRUE,
      positionFixedOrFlexible flexible,
      timingOffset 90
    }
  },
  tfcs normalTFCI_Signalling : complete: {ctfcSize ctfc4Bit : {
    {ctfc4 0 }, {ctfc4 1 }, {ctfc4 2 }, {ctfc4 3 }, {ctfc4 4}
```

4.3 Change 2

Test step name	tc_14_4_2_2
Reason for change	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 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	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 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:

After:

4.4   Change 3

Test step	ts_RB_InitTest_3SCCPCH
Reason for change	1. Test Step ts_RB_InitTest_3SCCPCH 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	1. Test step ts_RB_InitTest_3SCCPCH 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 new test step ts_SendDefSysInfo_withoutSIB6_3SCCPCH, which is similar to ts_SendDefSysInfo_withoutSIB6. In the new test step in order to send SIB5 a new constraint cb_SIB5_NoSib6 is added and also removed the call to ts_SendPage1_ModifySI. 3. Added new test step ts_SendPage1_ModifySI_New to page the UE for the new system Information. This test step is similar to ts_SendPage1_ModifySI from which

	call to ts_SendSysInfoChangeInd_InFACHConfig is removed as UE is in Idle Mode.
	4. Added a new local Tree lt_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.
	5. In order to modify the cell as per the new configuration two new test steps are added: ts_SS_ModifyCell3_SCCPCH_4_FACH_Cnfg1 and ts_SS_ModifyCell3_SCCPCH_4_FACH_Cnfg2.
Source of change	New change

Before:

Test Step Id:	ts_RB_InitTest_3SCCPCH
Test Step Group Ref:	RB_Steps/Initialization/
Objective:	To setup the environement 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_Cnfg 1 (tsc_CellA)			
3		(tcv_CellCnfg :=1)			
4		+lt_NextSteps			
5		[(BIT_TO_INT(o_OctToBit(px_PTMSI_Def))MOD 2) = 1]			
6		+ts_SS_CreateCell3_SCCPCH_4_FACH_Cnfg 2 (tsc_CellA)			
7		(tcv_CellCnfg :=2)			
8		+lt_NextSteps			
lt_NextSteps					
9		+ ts_SetTmpCellInfo (tsc_CellA)			Fetch record corresponding to current cell
10		+ts_SendDefSysInfo_withoutSIB6 (tsc_CellA)			
11		+ ts_IdleUpdated (tsc_CellA)			
12	TBS 1	(tcv_TestBody:=TRUE)			
13		+ts_RRC_PagType1_P_TMSI_Cause (tsc_CellA, px_PTMSI_Def, terminatingInteractiveCall)			
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

After:

Test Step Id:	ts_RB_InitTest_3SCCPCH(p_PagingCause :PagingCause ; p_EstablishmentCause :EstablishmentCause)
Test Step Group Ref:	RB_Steps/Initialization/
Objective:	To setup the environement for PS test cases
Defaults:	RRC_Def1
Comments:	@SIC_NAPP

..	..	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_SendSIB5(cb_SIB5_Def_3SCCPCH(tcv_CellInfoA), tsc_CellA, tsc_Now)			
6		+ts_SendMIB (tcv_MIB, tsc_CellA, tsc_Now)			
7		+ts_SendPage1_ModifySI_New(tsc_CellA, tcv_MIB.mib_ValueTag)			
8		+lt_ReConfigureCell			
9	TBS 1	(tcv_TestBody:=TRUE)			
10		+ts_RRC_PagType1_P_TMSI_Cause (tsc_CellA, px_PTMSI_Def, p_PagingCause)			
11		+ ts_RRC_ConnEst (tsc_CellA, est_MT, p_EstablishmentCause)			Steps 2-5
12		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
13		(tcv_CellIndInfo.start_PS := tcv_Start)			
14		+ts_SS_SecurityDownloadStart (ps_domain, tcv_Start)			

lt_ReConfigureCell				
17	+ts_RRC_Delay(5000)			Give delay for UE to listen to new configuration
18	+lt_ReleaseCell			
19	+lt_ModifyCell			
lt_ReleaseCell				
20	+ ts_CRLC_Rel (tsc_CellA, tsc_RB0)		2.	
21	+ ts_CRLC_Rel (tsc_CellA, tsc_RB_BCCH_FACH)			
22	+ ts_CRLC_Rel (tsc_CellDedicated, tsc_RB20)			
23	+ ts_CMAC_Rel (tsc_CellA, tsc_PRACH1)			
24	+ ts_CPHY_TrChRelNonDch (tsc_CellA, tsc_PRACH1)			
25	+ ts_SS_StopRL (tsc_CellA, tsc_AICH1)			
26	+ ts_SS_StopRL (tsc_CellA, tsc_PRACH1)			
27	+ ts_CRLC_Rel (tsc_CellA, tsc_RB_PCCH)		3.	
28	+ ts_CMAC_Rel (tsc_CellA, tsc_S_CCPCH1)			
29	+ ts_CPHY_TrChRelNonDch (tsc_CellA, tsc_S_CCPCH1)			
30	+ ts_SS_StopRL (tsc_CellA, tsc_PICH1)			
31	+ ts_SS_StopRL (tsc_CellA, tsc_S_CCPCH1)			
32	+ ts_CRLC_Rel (tsc_CellDedicated, tsc_RB1)		1.	
33	+ ts_CRLC_Rel (tsc_CellDedicated, tsc_RB2)			
34	+ ts_CRLC_Rel (tsc_CellDedicated, tsc_RB3)			
35	+ ts_CRLC_Rel (tsc_CellDedicated, tsc_RB4)			
lt_ModifyCell				
36	[pc_CS]			
37	[(BIT_TO_INT(o_OctToBit(px_TMSI_Def))MOD 2) = 0]			
38	[(BIT_TO_INT(o_BitstringConcat(tcv_CellInfoA.uRNTI.srnc_Identity,tcv_CellInfoA.uRNTI.s_RNTI,12,20))MOD 2) = 1]			
39	+ts_SS_ModifyCell3_SCCPCH_4_FACH_Cnfg1 (tsc_CellA)			
40	(tcv_CellCnfg :=1)			
41	[(BIT_TO_INT(o_BitstringConcat(tcv_CellInfoA.uRNTI.srnc_Identity,tcv_CellInfoA.uRNTI.s_RNTI,12,20))MOD 2) = 0]			
42	(tcv_CellInfoA.uRNTI.s_RNTI := '00000000000000000001'B)			
43	+ts_SS_ModifyCell3_SCCPCH_4_FACH_Cnfg1 (tsc_CellA)			
44	(tcv_CellCnfg :=1)			
45	[(BIT_TO_INT(o_OctToBit(px_TMSI_Def))MOD 2) = 1]			
46	[(BIT_TO_INT(o_BitstringConcat(tcv_CellInfoA.uRNTI.srnc_Identity,tcv_CellInfoA.uRNTI.s_RNTI,12,20))MOD 2) = 0]			
47	+ts_SS_ModifyCell3_SCCPCH_4_FACH_Cnfg2 (tsc_CellA)			
48	(tcv_CellCnfg :=2)			
49	[(BIT_TO_INT(o_BitstringConcat(tcv_CellInfoA.uRNTI.srnc_Identity,tcv_CellInfoA.uRNTI.s_RNTI,12,20))MOD 2) = 1]			
50	(tcv_CellInfoA.uRNTI.s_RNTI := '00000000000000000000'B)			
51	+ts_SS_ModifyCell3_SCCPCH_4_FACH_Cnfg2 (tsc_CellA)			
52	(tcv_CellCnfg :=2)			
53	[pc_PS]			
54	[(BIT_TO_INT(o_OctToBit(px_PTMSI_Def))MOD 2) = 0]			
55	[(BIT_TO_INT(o_BitstringConcat(tcv_CellInfoA.uRNTI.srnc_Identity,tcv_CellInfoA.uRNTI.s_RNTI,12,20))MOD 2) = 1]			
56	+ts_SS_ModifyCell3_SCCPCH_4_FACH_Cnfg1 (tsc_CellA)			
57	(tcv_CellCnfg :=1)			
58	[(BIT_TO_INT(o_BitstringConcat(tcv_CellInfoA.uRNTI.srnc_Identity,tcv_CellInfoA.uRNTI.s_RNTI,12,20))MOD 2) = 0]			
59	(tcv_CellInfoA.uRNTI.s_RNTI := '00000000000000000001'B)			
60	+ts_SS_ModifyCell3_SCCPCH_4_FACH_Cnfg1 (tsc_CellA)			
61	(tcv_CellCnfg :=1)			
62	[(BIT_TO_INT(o_OctToBit(px_PTMSI_Def))MOD 2) = 1]			
63	[(BIT_TO_INT(o_BitstringConcat(tcv_CellInfoA.uRNTI.srnc_Identity,tcv_CellInfoA.uRNTI.s_RNTI,12,20))MOD 2) = 0]			
64	+ts_SS_ModifyCell3_SCCPCH_4_FACH_Cnfg2 (tsc_CellA)			
65	(tcv_CellCnfg :=2)			
66	[(BIT_TO_INT(o_BitstringConcat(tcv_CellInfoA.uRNTI.srnc_Identity,tcv_CellInfoA.uRNTI.s_RNTI,12,20))MOD 2) = 1]			
67	(tcv_CellInfoA.uRNTI.s_RNTI := '00000000000000000000'B)			
68	+ts_SS_ModifyCell3_SCCPCH_4_FACH_Cnfg2 (tsc_CellA)			
69	(tcv_CellCnfg :=2)			
70	[TRUE]		l	

New Test Step:

		Test Step		
Test Step Id:		ts_SendPage1_ModifySI_New (p_CellId:INTEGER; p_mib_valuetag: MIB_ValueTag)		
Test Step Group Ref:		BasicM_SysInfoHandling_Steps/		
Objective:		Transmit Paging Type 1 with IE "BCCH modification info" on the PCCH, to informed UE the change of System information. and Transmit System Information change indication message with IE "BCCH modification info" on the BCCH, to inform UE the change of System information.		
Defaults:		InitOtherwiseFail		
Comments:				

..	..	Behaviour Description	Constraint Ref	..	Comments
1		+ts_RRC_Delay(tsc_WaitBeforePaging)			Give delay before paging type1
2		+ts_CMAC_Pag1_Cfg(p_CellId)			

3		TM ! RLC_TR_DATA_REQ	cas_PagingType1 (
			  p_CellId,
			  tsc_RB_PCCH,
			  cs_RRC_PagingType1_ModifySI (
			    p_mib_valuetag
			  )
			)
					SS sends PAGING TYPE1 message containing IE "BCCH modification info" on the PCCH to inform UE the change of system information.

New Test Step:

Test Step Id:	ts_SendDefSysInfo_withoutSIB6_3SCCPCH (p_CellId: INTEGER)
Test Step Group Ref:	NewTestSteps/
Objective:	To broadcast default system information.
Defaults:	InitOtherwiseFail
Comments:	@SIC_NAPP

..	..	Behaviour Description	Constraint Ref	..	Comments
1		+ ts_SetTmpCellInfo (p_CellId)			Fetch record corresponding to current cell
2		+ ts_UTRAN_GERAN_ParaInit(p_CellId)			
3		+ts_CellDependentPara(p_CellId)			
4		+ts_InitializeSIB2AndSIB18(tcv_TmpCellInfo)			
5		+ ts_InitializeSIB11_SIB12 (p_CellId)			
6		+ts_InitializeSB			
7		[px_RAT = tdd]			
8		+lt_FillNoneScheduledBlocks			
9		+ts_SendNoSegDefSchedul(p_CellId)			
10		+ts_SendSIB1 (cb_SIB1_Def(tcv_TmpCellInfo), p_CellId, tsc_Now)			
11		+ts_SendSIB2 (tcv_SIB2, p_CellId, tsc_Now)			
12		+ts_SendSIB3(tcv_SIB3, p_CellId, tsc_Now)			
13		+ts_SendSIB4(tcv_SIB4, p_CellId, tsc_Now)			
14		+ts_SendSIB5(cb_SIB5_NoSib6(tcv_TmpCellInfo), p_CellId, tsc_Now)			
15		+ts_SendSIB7(c_SIB7_Def, p_CellId, tsc_Now)			
16		+ts_SendSIB11_RAB(tcv_SIB11, p_CellId, tsc_Now)			
17		+ts_SendSIB12_RAB(tcv_SIB12, p_CellId, tsc_Now)			
18		+ts_SendSIB18_RAB(tcv_SIB18, p_CellId, tsc_Now)			
19		+ts_SendSB1_DefSchedul(tcv_SB1, p_CellId, tsc_Now)			
20		+ts_SendMIB(tcv_MIB, p_CellId, tsc_Now)			
21	ERR1	[px_RAT = tdd]		I	
22	ERR2	[TRUE]		I	
	lt_FillNoneScheduledBlocks				
23		+ts_Scheduling(p_CellId, 6, 3, tsc_Now)			pos = 3
24		CMAC?CMAC_SYSINFO_Config_CNF	ca_SysInfoCfgCnf(p_CellId, tsc_RB_BCCH)		
25		TM/RLC_TR_DATA_REQ	ca_TR_DataReq(p_CellId, tsc_RB_BCCH, cs_SIB_MsgNoSegment)		
26		+ts_Scheduling(p_CellId, 6, 5, tsc_Now)			pos = 5
27		CMAC?CMAC_SYSINFO_Config_CNF	ca_SysInfoCfgCnf(p_CellId, tsc_RB_BCCH)		
28		TM/RLC_TR_DATA_REQ	ca_TR_DataReq(p_CellId, tsc_RB_BCCH, cs_SIB_MsgNoSegment)		
29		+ts_Scheduling(p_CellId, 6, 6, tsc_Now)			pos = 6
30		CMAC?CMAC_SYSINFO_Config_CNF	ca_SysInfoCfgCnf(p_CellId, tsc_RB_BCCH)		
31		TM/RLC_TR_DATA_REQ	ca_TR_DataReq(p_CellId, tsc_RB_BCCH, cs_SIB_MsgNoSegment)		
32		+ts_Scheduling(p_CellId, 6, 7, tsc_Now)			pos = 7
33		CMAC?CMAC_SYSINFO_Config_CNF	ca_SysInfoCfgCnf(p_CellId, tsc_RB_BCCH)		
34		TM/RLC_TR_DATA_REQ	ca_TR_DataReq(p_CellId, tsc_RB_BCCH, cs_SIB_MsgNoSegment)		

New Constraint:

Constraint Name:	cb_SIB5_NoSib6 (p_CellInfo : CellInfoCfg)
Group:	
Type Name:	SysInfoType5
Derivation Path:	cb_SIB5_Def
Encoding Variation:	
Comments:	System information block type 5

Constraint Value
REPLACE sib6indicator BY FALSE

New Test Step:

New Test Step:

4.5 Change 4

Test step	ts_SS_2FACH_CCCH_BCCH_DTCH_SCCPCH3_Cfg
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 "tcv_TmpCellInfo.timingsCCPCH1" with "90"
Source of change	New change

Before:

After:

4.6 Change 5

Test step	ts_SS_2FACH_CCCH_BCCH_DCCH_DTCH_SCCPCH3_Cfg
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 "tcv_TmpCellInfo.timingsCCPCH1" with "90"
Source of change	New change

Before:

After:

4.7 Change 6

Test step	ts_SS_FirstSCCPCH_PCH_PCCH_Cfg
Reason for change	1. As per 34.108 section 6.1.3, the slot format used for SCCPCH carrying PCH should be 4. In the TTCN used value is 8. 2. As per 34.123-3 section 8.3.23 and 8.3.24 RB used for PCCH should be tsc_RB_PCCH. However in the constraint "c_TrLogMappingPCH2" at row 7 uses tsc_RB_PCCH2.
Summary of change	1. At row 3 changed slot format from "tcv_TmpCellInfo.slotFormatsCCPCH1" to "4". 2. Created a new Constraint c_TrLogMappingPCH_NoFACH in which RB ID used for PCCH is set as tsc_RB_PCCH and same is used at row 7
Source of change	New change

Before:

1	+ ts_SetTmpCellInfo (p_CellId)		
2	[px_RAT = fdd]		
3	CPHY!CPHY_RL_Setup_REQ	ca_sCCPCH_InfoPCH_RAB_StandAlone (p_CellId, tsc_S_CCPCH1, tsc_S_CCPCH_2ndScrCode, (tcv_TmpCellInfo.slotFormatsCCPCH1), (tcv_TmpCellInfo.powersCCPCH1))	s-CCPCH2
4	CPHY?CPHY_RL_Setup_CNF	ca_RL_SetupCnf(p_CellId, tsc_S_CCPCH1)	
5	CPHY!CPHY_TrCH_Config_REQ	ca_PCH_Info2 (p_CellId, tsc_S_CCPCH1)	connect PCH and FACH to s-CCPCH1
6	CPHY ? CPHY_TrCH_Config_CNF	ca_TrChCfgCnf (p_CellId, tsc_S_CCPCH1)	
7	CMAC ! CMAC_Config_REQ	ca_CMAC_Cfginfo (p_CellId, tsc_S_CCPCH1, c_UE_Info (OMIT, OMIT), c_TrCHInfoPCH, c_TrLogMappingPCH2)	map PCCH to PCH,
8	CMAC ? CMAC_Config_CNF	ca_CMAC_CfgCnf(p_CellId, tsc_S_CCPCH1)	

After:

1	* ts_SetTmpCellInfo (p_CellId)		
2	[px_RAT = fdd]		
3	CPHY!CPHY_RL_Setup_REQ	ca_sCCPCH_InfoPCH_RAB_StandAlone (p_CellId, tsc_S_CCPCH1, tsc_S_CCPCH_2ndScrCode, (4), (tcv_TmpCellInfo.powersCCPCH1))	s-CCPCH2
4	CPHY?CPHY_RL_Setup_CNF	ca_RL_SetupCnf(p_CellId, tsc_S_CCPCH1)	
5	CPHY!CPHY_TrCH_Config_REQ	ca_PCH_Info2 (p_CellId, tsc_S_CCPCH1)	connect PCH and FACH to s-CCPCH1
6	CPHY ? CPHY_TrCH_Config_CNF	ca_TrChCfgCnf (p_CellId, tsc_S_CCPCH1)	
7	CMAC ! CMAC_Config_REQ	ca_CMAC_Cfginfo (p_CellId, tsc_S_CCPCH1, c_UE_Info (OMIT, OMIT), c_TrCHInfoPCH, c_TrLogMappingPCH_NoFACH)	map PCCH to PCH,
8	CMAC ? CMAC_Config_CNF	ca_CMAC_CfgCnf(p_CellId, tsc_S_CCPCH1)	

New Constraint:

Constraint Name:	c_TrLogMappingPCH_NoFACH
Group:	
Type Name:	TrCH_LogCHMappingList1
Derivation Path:	
Encoding Variation:	
Comments:	@SIC_NAPP For FDD mode only. map PCCH to PCH Used for the configuration cell_FACH_2SCCPCH_StandAlonePCH.

Constraint Value

{
 ulconnectedTrCHList OMIT,
 dlconnectedTrCHList (
  {
   trchid tsc_PCH1,
   trCH_LogCHMappingList {
    {
    logicalChannel_Mapping dl_LogicalChannelMapping : {
     macHeaderManipulation normalMacHeader,
     dl_TransportChannelType pch,
     logicalChannelIdentity tsc_PCCH1,
     logicalChannelType pCCH ,
     rlc_SizeList configured : NULL,
     mac_LogicalChannelPriority 1
    },
    rB_Identity tsc_RB_PCCH
   }
  }
 }
}

4.8 Change 7

Test step	c_TrLogMappingFACH_BCCH_CCCH_SCCPCH3_PS, c_TrLogMappingFACH_BCCH_DCCH_CCCH_SCCPCH2_PS, c_TrLogMappingFACH_BCCH_CCCH_PS and

	c_TrLogMappingFACH_BCCH_DCCH_CCCH_PS
Reason for change	Wrong logicalChannelType of "dCCH" is used for logical Channel tsc_DL_CCCH5/ tsc_DL_CCCH6. Note: The changes shown below are only for the constraint c_TrLogMappingFACH_BCCH_CCCH_SCCPCH3_PS.
Summary of change	Changed logicalChannelType from "dCCH" to "cCCH" to tsc_DL_CCCH5/ tsc_DL_CCCH6.
Source of change	New change

Before:

```
{
  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:

```
{
  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
}
```

4.9   Change 8

Test step	ts_SS_2FACH_CCCH_BCCH_DCCH_DTCH_SCCPCH2_Cfg
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 "tsc_S_CCPCH2_ChC" with "tsc_S_CCPCH2_DL_ChC"
Source of change	New change

Before:

2		[px_RAT = fdd]		
3		CPHY!CPHY_RL_Setup_REQ	ca_sCCPCH_Info (p_CellId, tsc_S_CCPCH 2, tsc_S_CCPCH_2ndScrCode, tsc_S_CCPCH2_ChC, tcv_TmpCellInfo.slotF ormatsCCPCH1, (tcv_TmpCellInfo.powersC CPCH1), 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		CPHY!CPHY_RL_Setup_REQ	ca_sCCPCH_Info (p_CellId, tsc_S_CCPCH 2, tsc_S_CCPCH_2ndScrCode, tsc_S_CCPCH2_DL_ChC, tcv_TmpCellInfo. slotFormatsCCPCH1, (tcv_TmpCellInfo.pow ersCCPCH1), tcv_TmpCellInfo.timingsCCP CH1)	s-CCPCH1
4		CPHY?CPHY_RL_Setup_CNF	ca_RL_SetupCnf(p_CellId, tsc_S_CCPCH2)	

4.10 Change 9

Test step	ca_2_FACH_BCCH_CCCH_SCCPCH3_InfoActNow
Reason for change	1. The TFS used for FACH3 is not as per the 34.108 section 6.1.3 2. The TFCS used is not as per the 34.108 section 6.1.3
Summary of change	1. Replaced "c_FACH_BCCH_CCCH_TFS" with "c_FACH_TFS" for FACH3. 2. Replaced "c_TFCS_CmplFACH_BCCH_CCCH_Tx" with "c_TFCS_CmplFACH_NoPCH_Tx"
Source of change	New change

Before:

After:

4.11 Change 10

Test case Variable	ca_2_FACH_BCCH_CCCH_InfoActNow
Reason for change	3. The TFS used for FACH3 is not as per the 34.108 section 6.1.3 4. The TFCS used is not as per the 34.108 section 6.1.3
Summary of change	3. Replaced "c_FACH_BCCH_CCCH_TFS" with "c_FACH_TFS" for FACH3. 4. Replaced "c_TFCS_CmplFACH_BCCH_CCCH_Tx" with "c_TFCS_CmplFACH_NoPCH_Tx"
Source of change	New change

Before:

After:

4.12 Change 11

Test step	ts_SS_DownloadSecurityKey
Reason for change	At row 12 check for cell state cell_FACH_3_SCCPCH_4_FACH_Cnfg1 and cell_FACH_3_SCCPCH_4_FACH_Cnfg2
Summary of change	At row 12 added check for the above cell states.
Source of change	New change

Before:

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_2SCCPCH_StandAlonePCH_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_2SCCPCH_StandAlonePCH) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_2SCCPCH_StandAlonePCH_PS)]		Cell FACH
13	+ lt_DownloadKeyCRLC (tcv_HFN,OMIT,p_IK)		

After:

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_2SCCPCH_StandAlonePCH_NoConn) 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_4_FACH_Cnfg2)]		Cell FACH
13	+ lt_DownloadKeyCRLC (tcv_HFN,OMIT,p_IK)		

4.13 Change 12

Test step	ts_SendRB_SetUp_FACH_3SCCPCH_32k
Reason for change	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		1. Instead of "cs_RRC_RB_SetUp" use cbs_108_RB_SetUpFACH_PS.
		2. Created a new test step ts_CMAC_New_RNTI_Reconf_3SCCPCH and is called at row 4 and 9.
		3. Removed call to test step ts_SS_Modify3_SCCPCH_4_FACH_Cnfg1 and ts_SS_Modify3_SCCPCH_4_FACH_Cnfg2.
		4. 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_WithCnf(tsc_CellDedicated, tsc_RB2, OMIT, cs_RRC_RB_SetUp(tcv_CellIndInfo.dl_IntegrityCheckInfo, tcv_RRC_Ti, OMIT, cell_FACH, OMIT, c_RAB_InfoListFACH_PS (c_ReEstTimerT314, p_RAB_Id, c_RLC_InfoAM_Def), 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))
5		+ts_SS_Modify3_SCCPCH_4_FACH_Cnfg1 (tsc_CellA)	
6	TS P1	+ ts_RRC_ReceiveRB_SetupCmpl (p_CellId , cell_FACH_3_SCCPCH_4_FACH_Cnfg1)	
7		+ ts_SetCellCfg (tsc_CellA, cell_FACH_3_SCCPCH_4_FACH_Cnfg1)	
8		[tcv_CellCnfg = 2]	
9		+ ts_CPHY_ActTime (p_CellId, tsc_S_CCPCH2, 1)	
10		AM ! RLC_AM_DATA_REQ	cas_RB_SetUpAM_WithCnf(tsc_CellDedicated, tsc_RB2, OMIT, cs_RRC_RB_SetUp(tcv_CellIndInfo.dl_IntegrityCheckInfo, tcv_RRC_Ti, OMIT, cell_FACH, OMIT, c_RAB_InfoListFACH_PS (c_ReEstTimerT314, p_RAB_Id, c_RLC_InfoAM_Def), 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))
11		+ts_SS_Modify3_SCCPCH_4_FACH_Cnfg2(p_CellId)	
12	TS P2	+ ts_RRC_ReceiveRB_SetupCmpl (p_CellId, cell_FACH_3_SCCPCH_4_FACH_Cnfg2)	
13		+ ts_SetCellCfg (tsc_CellA, cell_FACH_3_SCCPCH_4_FACH_Cnfg2)	

After:

1	+ ts_SetTmpCellInfo (p_CellId)	
2	[tcv_CellCnfg = 1]	
3	AM I RLC_AM_DATA_REQ	cas_RB_SetUpAM (tsc_CellDedicated, tsc_RB2, cbs_108_RB_SetUpFACH_PS (tcv_CellIndInfo.dl_IntegrityCheckInfo, tcv_RRC_TI, p_RAB_Id, tcv_TmpCellInfo.cRNTI))
4	+ts_CMAC_New_RNTI_Reconf_3SCCPCH (FALSE, p_CellId, tcv_TmpCellInfo.uRNTI,tcv_TmpCellInfo.cRNTI)	
5 TS P1	+ ts_RRC_ReceiveRB_SetupCmpl (p_CellId , cell_FACH_3_SCCPCH_4_FACH_Cnfg1)	
6	+ ts_SetCellCfg (tsc_CellA, cell_FACH_3_SCCPCH_4_FACH_Cnfg1)	
7	[tcv_CellCnfg = 2]	
8	AM I RLC_AM_DATA_REQ	cas_RB_SetUpAM (tsc_CellDedicated, tsc_RB2, cbs_108_RB_SetUpFACH_PS (tcv_CellIndInfo.dl_IntegrityCheckInfo, tcv_RRC_TI, p_RAB_Id, tcv_TmpCellInfo.cRNTI))
9	+ts_CMAC_New_RNTI_Reconf_3SCCPCH (FALSE, p_CellId, tcv_TmpCellInfo.uRNTI,tcv_TmpCellInfo.cRNTI)	
10 TS P2	+ ts_RRC_ReceiveRB_SetupCmpl (p_CellId , cell_FACH_3_SCCPCH_4_FACH_Cnfg2)	
11	+ ts_SetCellCfg (tsc_CellA, cell_FACH_3_SCCPCH_4_FACH_Cnfg2)	

4.14 Change 13

Test step	ts_CMAC_New_RNTI_Reconf_3SCCPCH
Reason for change	1. 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	1. Created a new test step ts_CMAC_New_RNTI_Reconf_3SCCPCH. This new test step is required as in this case in the DL, physical channel Id required is tsc_S_CCPCH2 or tsc_S_CCPCH_3 and also the transport channel Mapping information is different than the normal configuration.
Source of change	New change

Test Step Id:	ts_CMAC_New_RNTI_Reconf_3SCCPCH (p_urnti:BOOLEAN; p_CellId : INTEGER; p_U_RNTI : U_RNTI; p_C_RNTI : BITSTRING)
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.

		Behaviour Description	Constraint Ref		Comments
1		+ ts_SetTmpCellInfo (p_CellId)			
2		+ ts_CRLC_ReconfRLC_Size (p_urnti)			
3		+ lt_CMAC_Reconf (p_urnti)			
lt_CMAC_Reconf (p_urnti: BOOLEAN)					
4		[p_urnti]			
5		[(tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_4_FACH_Cnfg1)]			
6		CMAC ! CMAC_Config_REQ	ca_CMAC_ReconfigInfoActNow (p_CellId , tsc_S_CCPCH3, c_UE_Info(p_U_RNTI, OMIT), c_TrChInfoFACH_BCCH_CCCH_DCCH_PS, c_TrLogMappingFACH_BCCH_DCCH_CCCH_PS)		SS has valid U-RNTI, C-RNTI 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_Cnfg2)]			
9		CMAC ! CMAC_Config_REQ	ca_CMAC_ReconfigInfoActNow (p_CellId , tsc_S_CCPCH2, c_UE_Info(p_U_RNTI, OMIT), c_TrChInfoFACH_BCCH_CCCH_DCCH_SCCPCH2_PS, c_TrLogMappingFACH_BCCH_DCCH_CCCH_SCCPCH2_PS)		SS has valid U-RNTI, C-RNTI is not valid
10		CMAC ? CMAC_Config_CNF	ca_CMAC_CfgCnf (p_CellId , tsc_S_CCPCH2)		
11		[NOT p_urnti]			
12		[(tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_4_FACH_Cnfg1)]			
13		CMAC ! CMAC_Config_REQ	ca_CMAC_ReconfigInfoActNow (p_CellId , tsc_PRACH1, c_UE_Info (OMIT, p_C_RNTI), cb_TrChInfoRACH1, c_TrLogMappingRACH_DTCH)		SS has valid C-RNTI, U-RNTI is not valid Only C-RNTI is required on 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_UE_Info(OMIT, p_C_RNTI), c_TrChInfoFACH_BCCH_CCCH_DCCH_PS, c_TrLogMappingFACH_BCCH_DCCH_CCCH_PS)		
16		CMAC ? CMAC_Config_CNF	ca_CMAC_CfgCnf (p_CellId , tsc_S_CCPCH3)		
17		[(tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_4_FACH_Cnfg2)]			
18		CMAC ! CMAC_Config_REQ	ca_CMAC_ReconfigInfoActNow (p_CellId , tsc_PRACH1, c_UE_Info (OMIT, p_C_RNTI), cb_TrChInfoRACH1, c_TrLogMappingRACH_DTCH)		SS has valid C-RNTI, U-RNTI is not valid Only C-RNTI is required on 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_UE_Info(OMIT, p_C_RNTI), c_TrChInfoFACH_BCCH_CCCH_DCCH_SCCPCH2_PS, c_TrLogMappingFACH_BCCH_DCCH_CCCH_SCCPCH2_PS)		
21		CMAC ? CMAC_Config_CNF	ca_CMAC_CfgCnf (p_CellId , tsc_S_CCPCH2)		
22		[TRUE]			

4.15 Change 14

Test step	ts_SS_Rel
Reason for change	At row 106 cell ID used for the release of tsc_RB29 should be CellId_A instead of tsc_CellDedicated
Summary of change	At row 106 replaced "tsc_CellDedicated" with "p_CellId"
Source of change	New change

Before:

102	[(tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_4_FACH_Cnfg1_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_4_FACH_Cnfg1) OR (tcv_TmpCellInfo.cellConfig =cell_FACH_3_SCCPCH_4_FACH_Cnfg2_NoConn) OR (tcv_TmpCellInfo.cellConfig =cell_FACH_3_SCCPCH_4_FACH_Cnfg2)]		
103	+ It_RelSRB1_4		
104	+ ts_CRLC_Rel (tsc_CellDedicated, tsc_RB20)		
105	+ ts_CRLC_Rel (tsc_CellDedicated, tsc_RB22)		
106	+ ts_CRLC_Rel (tsc_CellDedicated) tsc_RB29)		
107	+ ts_CRLC_Rel (p_CellId , tsc_RB_BCCH_FACH)		

After:

102	[(tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_4_FACH_Cnfg1_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_4_FACH_Cnfg1) OR (tcv_TmpCellInfo.cellConfig =cell_FACH_3_SCCPCH_4_FACH_Cnfg2_NoConn) OR (tcv_TmpCellInfo.cellConfig =cell_FACH_3_SCCPCH_4_FACH_Cnfg2)]		
103	+ It_RelSRB1_4		
104	+ ts_CRLC_Rel (tsc_CellDedicated, tsc_RB20)		
105	+ ts_CRLC_Rel (tsc_CellDedicated, tsc_RB22)		
106	+ ts_CRLC_Rel (p_CellId,) tsc_RB29)		
107	+ ts_CRLC_Rel (p_CellId , tsc_RB_BCCH_FACH)		

Branches executed in test case 14.4.2.2

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]:

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

⌘ **TS 34.123-3 CR** 386 ⌘**rev** - ⌘ Current version: **3.6.1** ⌘

*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 2 test case 14.4.2.3 to RAB ATS V3.6.1
Source: ⌘	Anite
Work item code: ⌘	N/A ***Date:*** ⌘ 13/08/04

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 <u>TR 21.900</u>.

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 2 RAB test case 14.4.2.3 to the approved RAB ATS V3.6.1
Summary of change: ⌘	This document lists all changes applied to test case 14.4.2.3 required for approval. See detailed change description for further information.
Consequences if not approved: ⌘	Test case will not be added to ATS

Clauses affected: ⌘	

	Y	N		
Other specs affected: ⌘		X	Other core specifications	⌘
		X	Test specifications	
		X	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 14.4.2.3 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 14.4.2.3, 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.

2   Table of Contents

3 Verification Test Summary

Test Case: tc_14_4_2_3

Test Group: RAB/CombinationsOnSCCPCH

ATS Version: iWD-TVB2003-03_D04wk31 + essential modifications

System Simulator used: Anite 3G U-SAT

UE used: Nokia 7600, Motorola A835

Verification Status: PASS

4 Corrections required for test case 14.4.2.3

4.1 Introduction

This section describes the changes required to make test case 14.4.2.3 run correctly with a 3G UE. The ATS version used as basis was RAB_wk31.mp, which is part of the iWD-TVB2003-03_D04wk31 release.

4.2 Change 1

Test step	cb_SIB5_Def_3SCCPCH_1

Reason for change	As per 34.108 section 6.1.2 default content for SIB5:
	   a) Sib6indicator is set to TRUE. In the TTCN it is set to FASLE
	   b) pich_PowerOffset and aich_PowerOffset should be –5.(This is as per T1-24 Approved CR T1-041253)
	   c) Power offset Pp-m should be set 0.
	   d) Gain factor ßc should be set to 11.
	   e) AICH transmission timing should be set 0.
	   f) The TFCS complete reconfiguration information should contain 0,1,2 as a part of CTFC information. In the TTCN implementation CTFC 3, 4 and 5 is also used.
	   g) TFS for FACH transport channel ID 2 used in TTCN is not correct.
	   h) Ctch_indicator should be TRUE.
	   i) Cbs_DRX_ Level1Information should be present.

Summary of change	Following changes are done in the constraint to be as per 34.108:
	   a) Changed sib6indicator from FALSE to TRUE
	   b) Updated values of pich_PowerOffset and aich_PowerOffset.
	   c) Changed the value of Power offset Pp-m from –5 to 0.
	   d) Changed the value of Gain factor ßc from 10 to 11.
	   e) Changed the value of AICH transmission timing from e1 to e0.
	   f) Removed CTFC 3, 4 and 5 from the TFCS complete reconfiguration information.
	   g) Replaced "c_FACH_TFS_PS_UE" with "c_FACH_TFS_UE_2ndSCCPCH" for FACH transport Channel ID 2.
	   h) Changed ctch_indicator to TRUE
	   i) Added cbs_DRX _Level1Information.

Source of change	New change

Before:

```
{
 sib6indicator FALSE,
 pich_PowerOffset ( p_CellInfo.powerPICH - p_CellInfo.powerpCPICH ),
 modeSpecificInfo fdd : {
   aich_PowerOffset ( p_CellInfo.powerAICH - p_CellInfo.powerpCPICH )
 },
```

```
    ctfcSize ctfc2Bit : {{
      ctfc2 0,
      powerOffsetInformation { gainFactorInformation computedGainFactors : 0,
      powerOffsetPp_m -5}
      }
    },
    { ctfc2 1,
      powerOffsetInformation {
       gainFactorInformation signalledGainFactors : {
        modeSpecificInfo fdd : {
         gainFactorBetaC 10
        },
        gainFactorBetaD 15,
        referenceTFC_ID 0 },
       powerOffsetPp_m -5}
      }
     }
    } },

    aich_Info {
     channelisationCode256 tsc_AICH1_ChC,
     sttd_Indicator FALSE,
     aich_TransmissionTiming e1}
    }

tfcs normalTFCI_Signalling : complete: {ctfcSize ctfc4Bit : {
  {ctfc4 0 }, {ctfc4 1 }, {ctfc4 2 }, {ctfc4 3 }, {ctfc4 4}, {ctfc4 5 }
  }},
  fach_PCH_InformationList {
   {
    transportFormatSet commonTransChTFS : c_FACH_TFS_UE_2ndBCCPCH,
    transportChannelIdentity tsc_FACH1, -- FACH
    ctch_Indicator FALSE
   },
   {
    transportFormatSet commonTransChTFS : c_FACH_TFS_PS_UE}
    transportChannelIdentity tsc_FACH2, -- FACH
    ctch_Indicator FALSE}
   }
  }
 },
cbs_DRX_Level1Information OMIT,
nonCriticalExtensions OMIT -- @sic ER 1497 sic@
}
```

After:

```
{
sib6indicator TRUE,
pich_PowerOffset p_CellInfo.powerPICH,
modeSpecificInfo fdd : {
 aich_PowerOffset p_CellInfo.powerAICH}
},

    ctfcSize ctfc2Bit : {{
      ctfc2 0,
      powerOffsetInformation { gainFactorInformation computedGainFactors : 0,
      powerOffsetPp_m 0}
      }
    },
    { ctfc2 1,
      powerOffsetInformation {
       gainFactorInformation signalledGainFactors : {
        modeSpecificInfo fdd : {
         gainFactorBetaC 11}
        },
        gainFactorBetaD 15,
        referenceTFC_ID 0 },
       powerOffsetPp_m 0}
      }
     }
    } },
```

```
aich_Info {
  channelisationCode256 tsc_AICH1_ChC,
  sttd_Indicator FALSE,
  aich_TransmissionTiming e0
  }
}

},
tfcs normalTFCI_Signalling : complete: (ctfcSize ctfc2Bit : (
  {ctfc2 0 }, {ctfc2 1 }, {ctfc2 2 }
)},
fach_PCH_InformationList (
  {
    transportFormatSet commonTransChTFS : c_FACH_TFS_UE_2ndSCCPCH,
    transportChannelIdentity tsc_FACH1, -- FACH
    ctch_Indicator FALSE
  },
  {
    transportFormatSet commonTransChTFS : c_FACH_TFS_UE_2ndSCCPCH,
    transportChannelIdentity tsc_FACH2, -- FACH
    ctch_Indicator TRUE
  }
}
}},
cbs_DRX_Level1Information
{
  ctch_AllocationPeriod 2,
  cbs_FrameOffset 0
},
nonCriticalExtensions OMIT -- @sic ER 1497 sic@
}
```

4.3 Change 2

Test step	cb_SIB6_Def_3SCCPCH
Reason for change	As per 34.108 section 6.1.2 default content for SIB5: a) pich_PowerOffset and aich_PowerOffset should be –5. (This is as per T1-24 Approved CR T1-041253) b) prach_SystemInformationList should be OMIT. c) The TFCS complete reconfiguration information should contain 0,1,2,3,4 as a part of CTFC information. In the TTCN implementation CTFC 5 is also used. d) TFS for FACH transport channel ID 3 used in TTCN is not correct.
Summary of change	Following changes are done in the constraint to be as per 34.108: a) Updated values of pich_PowerOffset and aich_PowerOffset. b) Changed prach_SystemInformationList to OMIT. c) Removed CTFC 5 from the TFCS complete reconfiguration information. d) Replaced "c_FACH_TFS_UE_2ndSCCPCH" with "c_FACH_TFS_UE" for FACH transport Channel ID 3.
Source of change	New change

Before:

```
{
 pich_PowerOffset ( p_CellInfo.powerPICH - p_CellInfo.powerpCPICH ),
 modeSpecificInfo fdd : {
  aich_PowerOffset ( p_CellInfo.powerAICH - p_CellInfo.powerpCPICH )
 },
 primaryCCPCH_Info OMIT,
 prach_SystemInformationList {{
   prach_RACH_Info {
    modeSpecificInfo fdd : {
     availableSignatures tsc_PRACH1_Signatures,
     availableSF tsc_PRACH1_SF,
     preambleScramblingCodeWordNumber tsc_PRACH1_ScrC,
     puncturingLimit pl1,
     availableSubChannelNumbers '111111111111'B
    }
   },
   transportChannelIdentity tsc_RACH1,
   rach_TransportFormatSet commonTransChTFS : c_RACH_TFS_UE,
   rach_TFCS normalTFCI_Signalling : complete : {
    ctfcSize ctfc2Bit : {{
      ctfc2 0,
      powerOffsetInformation { gainFactorInformation computedGainFactors : 0,
       powerOffsetPp_m -5
      }
     },
     { ctfc2 1,
       powerOffsetInformation {
        gainFactorInformation signalledGainFactors : {
         modeSpecificInfo fdd : {
          gainFactorBetaC 10
         },
         gainFactorBetaD 15,
         referenceTFC_ID 0 },
        powerOffsetPp_m -5
       }
      }
   } },
   prach_Partitioning fdd : {{
     accessServiceClass_FDD OMIT
    },
```
...
```
     assignedSubChannelNumber '1111'B
    }
   }},
   persistenceScalingFactorList { psf0_9, psf0_9, psf0_9, psf0_9, psf0_9, psf0_9 },
   modeSpecificInfo fdd : {
    primaryCPICH_TX_Power 31,
    constantValue -10,
    prach_PowerOffset {
     powerRampStep 3, -- db
     preambleRetransMax 4
    },
    rach_TransmissionParameters {
     mmax 2,
     nb01Min 3,
     nb01Max 10
    },
    aich_Info {
     channelisationCode256 tsc_AICH1_ChC,
     sttd_Indicator FALSE,
     aich_TransmissionTiming e1
    }
   }
 }},
```

```
tfcs normalTFCI_Signalling : complete: {ctfcSize ctfc4Bit : {
  {ctfc4 0 }, {ctfc4 1 }, {ctfc4 2 }, {ctfc4 3 }, {ctfc4 4} {ctfc4 5 }
}},
fach_PCH_InformationList {
  {
    transportFormatSet commonTransChTFS c_FACH_TFS_UE_2ndSCCPCH
    transportChannelIdentity tsc_FACH3, -- FACH
    ctch_Indicator FALSE
  },
  {
    transportFormatSet commonTransChTFS : c_FACH_TFS_PS_UE,
    transportChannelIdentity tsc_FACH4, -- FACH
    ctch_Indicator FALSE
  }
}
}
```

After:

```
{
pich_PowerOffset p_CellInfo.powerPICH
modeSpecificInfo fdd : {
  aich_PowerOffset p_CellInfo.powerAICH
},
primaryCCPCH_Info OMIT,
prach_SystemInformationList OMIT,
sCCPCH_SystemInformationList {

  {
    secondaryCCPCH_Info {
      modeSpecificInfo fdd : {
        dummy1 mayBeUsed, -- mandatory ie
        secondaryScramblingCode OMIT,
        sttd_Indicator FALSE,
        sf_AndCodeNumber tsc_S_CCPCH1_ChC,
        pilotSymbolExistence FALSE,
        tfci_Existence TRUE,
        positionFixedOrFlexible flexible,
        timingOffset 90
      }
    },
    tfcs normalTFCI_Signalling : complete: {ctfcSize ctfc4Bit : {
      {ctfc4 0 }, {ctfc4 1 }, {ctfc4 2 }, {ctfc4 3 }, {ctfc4 4}
    }},
    fach_PCH_InformationList {
      {
        transportFormatSet commonTransChTFS : c_FACH_TFS_UE
        transportChannelIdentity tsc_FACH3, -- FACH
        ctch_Indicator FALSE
      },
      {
        transportFormatSet commonTransChTFS : c_FACH_TFS_PS_UE,
        transportChannelIdentity tsc_FACH4, -- FACH
        ctch_Indicator FALSE
      }
    }
  }
}
```

4.4 Change 3

Test step name	tc_14_4_2_3
Reason for change	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 always create Interactive type RAB. 3. The CRNTI used in Radio Bearer Setup message sent from Test Step ts_SendRB_SetUp_FACH_3SCCPCH_32k_1 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	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_CTCH 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:

1		START t_Guard(300)		
2		+ts_InitVariables		
3		+ts_AssignCN_Domain		Sets domain for testing
4		+ts_RB_InitTest_3SCCPCH_CTCH		
5		+ts_SendRB_SetUp_FACH_3SCCPCH_32k_1(tsc_CellA,tsc_RAB_DefPS,tcv_ActTime)		
6		+ ts_SetCellCfg (tsc_CellA, cell_FACH_3_SCCPCH_3_FACH_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	TBE1	(tcv_TestBody := FALSE)		
9		+ ts_TC_DeactivateRB_TestMode (tsc_CellA)		Steps 20-21
10		+ 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(terminatingInteractiveCall,terminatingInteractiveCall)		
8		(tcv_CellInfoA.cRNTI := tsc_New_CRNTI2)		
9		+ts_SendRB_SetUp_FACH_3SCCPCH_32k_1(tsc_CellA,tsc_RAB_DefPS,tcv_ActTime)		
10		+ ts_SetCellCfg (tsc_CellA, cell_FACH_3_SCCPCH_3_FACH_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	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]		
lt_Background				
18		[pc_Background]		
19		+ts_RB_InitTest_3SCCPCH_CTCH(terminatingBackgroundCall,terminatingBackgroundCall)		
20		(tcv_CellInfoA.cRNTI := tsc_New_CRNTI2)		
21		+ts_SendRB_SetUp_FACH_3SCCPCH_32k_1(tsc_CellA,tsc_RAB_DefPS,tcv_ActTime)		
22		+ ts_SetCellCfg (tsc_CellA, cell_FACH_3_SCCPCH_3_FACH_CTCH)		
23		+ 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)		
24	TBE1	(tcv_TestBody := FALSE)		
25		+ ts_TC_DeactivateRB_TestMode (tsc_CellA)		Steps 20-21
26		+ po_ConnectionAndSS_Rel (tsc_CellA)		
27		[TRUE]		

4.5 Change 4

Test step	ts_RB_InitTest_3SCCPCH_CTCH
Reason for change	1. Test Step ts_RB_InitTest_3SCCPCH_CTCH always create Interactive type RAB. 2. Test Step ts_SendSysInfoWithSpecialSIB5_And6 sends the paging Message to the UE at the end. This is not required during the creation of cell.

Summary of change	1. Test step ts_RB_InitTest_3SCCPCH_CTCH is parameterised to take PagingCause and EstablishmentCause as an input parameter and the same are passed to test step ts_RRC_PagType1_P_TMSI_Cause and ts_RRC_ConnEst as input parameter. 2. Created a new test step ts_SendSysInfoWithSpecialSIB5_And6_3CCPCH, similar to ts_SendSysInfoWithSpecialSIB5_And6, which does not the sends the paging Message to the UE. This test step is sued at row 3.
Source of change	New change

Before:

Test Step Id:	ts_RB_InitTest_3SCCPCH_CTCH
Test Step Group Ref:	RB_Steps/Initialization/
Objective:	To setup the environement for PS test cases
Defaults:	RRC_Def1
Comments:	@SIC_NAPP

..	L..	Behaviour Description	Constraint Ref	..	Comments
1		+ts_SS_CreateCell3_SCCPCH_3_FACH_CTCH (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, px_PTMSI_Def, terminatingInteractiveCall)			
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

After:

Test Step Id:	ts_RB_InitTest_3SCCPCH_CTCH(p_PagingCause :PagingCause ; p_EstablishmentCause :EstablishmentCause)
Test Step Group Ref:	RB_Steps/Initialization/
Objective:	To setup the environement for PS test cases
Defaults:	RRC_Def1
Comments:	@SIC_NAPP

..	..	Behaviour Description	Constraint Ref	..	Comments
1		+ts_SS_CreateCell3_SCCPCH_3_FACH_CTCH (tsc_CellA)			Configuration has to be changed
2		+ ts_SetTmpCellInfo (tsc_CellA)			Fetch record corresponding to current cell
3		+ts_SendSysInfoWithSpecialSIB5_And6_3SCCPCH(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, px_PTMSI_Def, p_PagingCause)			
7		+ ts_RRC_ConnEst (tsc_CellA, est_MT, p_EstablishmentCause)			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

New Test Step:

Test Step Id:	ts_SendSysInfoWithSpecialSIB5_And6_3SCCPCH (p_CellId: INTEGER; p_SIB5: SysInfoType5; p_SIB6: SysInfoType6)		
Test Step Group Ref:	L3M_SysInfoHandling/Default/		
Objective:	To broadcast default system infomation except the contents of SIB5 and SIB6 are specified by the caller		
Defaults:	InitOtherwiseFail		
Comments:	@SIC_NAPP		

...	...	Behaviour Description	Constraint Ref	...	Comments
1		+ ts_SetTmpCellInfo (p_CellId)			
2		+ts_UTRAN_GERAN_ParaInit(p_CellId)			
3		+ts_InitializeSIB2AndSIB18(tcv_TmpCellInfo)			
4		+ ts_InitializeSIB11_SIB12 (p_CellId)			
5		[px_RAT = fdd]			
6		+ts_SendNoSegDefSchedul(p_CellId)			
7		+ts_SendSIB1(cb_SIB1_Def(tcv_TmpCellInfo), p_CellId, tsc_Now)			
8		+ts_CellDependentPara(p_CellId)			
9		+ts_SendSIB2(tcv_SIB2 , p_CellId, tsc_Now)			
10		+ts_SendSIB3(tcv_SIB3, p_CellId, tsc_Now)			
11		+ts_SendSIB4(tcv_SIB4, p_CellId, tsc_Now)			
12		+ts_SendSIB5(p_SIB5, p_CellId, tsc_Now)			
13		+ts_SendSIB6(p_SIB6, p_CellId, tsc_Now)			
14		+ts_SendSIB7(c_SIB7_Def, p_CellId, tsc_Now)			
15		+ts_SendSIB11(tcv_SIB11, p_CellId, tsc_Now)			
16		+ts_SendSIB12(tcv_SIB12, p_CellId, tsc_Now)			
17		+ts_SendSIB18(tcv_SIB18 , p_CellId, tsc_Now)			
18		+ts_SendSB1_DefSchedul(tcv_SB1, p_CellId, tsc_Now)			
19		+ts_SendMIB(tcv_MIB, p_CellId, tsc_Now)			
20	ERR1	[px_RAT = tdd]		I	
21	ERR2	[TRUE]		I	

4.6 Change 5

Test step	ts_SS_FirstSCCPCH_PCH_PCCH_Cfg
Reason for change	1. As per 34.108 section 6.1.3, the slot format used for SCCPCH carrying PCH should be 4. In the TTCN used value is 8. 2. As per 34.123-3 section 8.3.25 RB used for PCCH should be tsc_RB_PCCH. However at row 7 in the constraint "c_TrLogMappingPCH2" uses tsc_RB_PCCH2.
Summary of change	1. At row 3 changed slot format from "tcv_TmpCellInfo.slotFormatsCCPCH1" to "4". 2. Created a new Constraint c_TrLogMappingPCH_NoFACH in which RB ID used for PCCH is set as tsc_RB_PCCH and same is used at row 7
Source of change	New change

Before:

1		+ ts_SetTmpCellInfo (p_CellId)		
2		[px_RAT = fdd]		
3		CPHY!CPHY_RL_Setup_REQ	ca_sCCPCH_InfoPCH_RAB_StandAlone (p_CellId, tsc_S_CCPCH1, tsc_S_CCPCH_2ndScrCode, tcv_TmpCellInfo.slotFormatsCCPCH1), (tcv_TmpCellInfo.powersCCPCH1))	s-CCPCH2
4		CPHY?CPHY_RL_Setup_CNF	ca_RL_SetupCnf(p_CellId, tsc_S_CCPCH1)	
5		CPHY!CPHY_TrCH_Config_REQ	ca_PCH_Info2 (p_CellId, tsc_S_CCPCH1)	connect PCH and FACH to s-CCPCH1
6		CPHY ? CPHY_TrCH_Config_CNF	ca_TrChCfgCnf (p_CellId, tsc_S_CCPCH1)	
7		CMAC ! CMAC_Config_REQ	ca_CMAC_Cfginfo (p_CellId, tsc_S_CCPCH1, c_UE_Info (OMIT, OMIT), c_TrCHInfoPCH, c_TrLogMappingPCH2)	map PCCH to PCH,
8		CMAC ? CMAC_Config_CNF	ca_CMAC_CfgCnf(p_CellId, tsc_S_CCPCH1)	

After:

1	• ts_SetTmpCellInfo (p_CellId)		
2	[px_RAT = fdd]		
3	CPHY!CPHY_RL_Setup_REQ	ca_sCCPCH_InfoPCH_RAB_StandAlone (p_CellId, tsc_S_CCPCH1, tsc_S_CCPCH_2ndScrCode, (4,)(tcv_TmpCellInfo.powersCCPCH1))	s-CCPCH2
4	CPHY?CPHY_RL_Setup_CNF	ca_RL_SetupCnf(p_CellId, tsc_S_CCPCH1)	
5	CPHY!CPHY_TrCH_Config_REQ	ca_PCH_Info2 (p_CellId, tsc_S_CCPCH1)	connect PCH and FACH to s-CCPCH1
6	CPHY ? CPHY_TrCH_Config_CNF	ca_TrChCfgCnf (p_CellId, tsc_S_CCPCH1)	
7	CMAC ! CMAC_Config_REQ	ca_CMAC_CfgInfo (p_CellId, tsc_S_CCPCH1, c_UE_Info (OMIT, OMIT), c_TrCHInfoPCH, c_TrLogMappingPCH_NoFACH)	map PCCH to PCH,
8	CMAC ? CMAC_Config_CNF	ca_CMAC_CfgCnf(p_CellId, tsc_S_CCPCH1)	

New Constraint:

Constraint Name:	c_TrLogMappingPCH_NoFACH
Group:	
Type Name:	TrCH_LogCHMappingList1
Derivation Path:	
Encoding Variation:	
Comments:	@SIC_NAPP For FDD mode only. map PCCH to PCH Used for the configuration cell_FACH_2SCCPCH_StandAlonePCH.

Constraint Value

{
 ulconnectedTrCHList OMIT,
 dlconnectedTrCHList {
  {
   trchid tsc_PCH1,
   trCH_LogCHMappingList {
    {
     logicalChannel_Mapping dl_LogicalChannelMapping : {
      macHeaderManipulation normalMacHeader,
      dl_TransportChannelType pch,
      logicalChannelIdentity tsc_PCCH1,
      logicalChannelType pCCH ,
      rlc_SizeList configured : NULL,
      mac_LogicalChannelPriority 1
     },
     rB_Identity tsc_RB_PCCH
    }
   }
  }
 }
}

4.7 Change 6

Test step	ts_SS_CreateCell3_SCCPCH_3_FACH_CTCH,ts_SS_2FACH_CCCH_BCCH_DCCH_DTCH_SCCPCH3_CTCH_Cfg
Reason for change	1. At row 5 ts_SS_2FACH_CCCH_BCCH_DCCH_DTCH_SCCPCH3_Cfg 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. 2. At row 8 ts_SS_RB_2ndPCCH_Cfg is used which configures tsc_RB_PCCH2 for PCCH.
Summary of change	1. Created a new test step ts_SS_2FACH_CCCH_BCCH_DCCH_DTCH_SCCPCH3_CTCH_Cfg which is similar to ts_SS_2FACH_CCCH_BCCH_DCCH_DTCH_SCCPCH3_Cfg 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 is used for test case 14.4.2.2. 2. At row 8 instead of "ts_SS_RB_2ndPCCH_Cfg" call "ts_SS_RB_PCCH_Cfg"
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(p_CellId)
6	+ts_SS_RACH_CCCH_DCCH_DTCH_Cfg (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_CTCH_Cfg(p_CellId)
6	+ts_SS_RACH_CCCH_DCCH_DTCH_Cfg (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)

New test Step:

Test Step Id:	ts_SS_2FACH_CCCH_BCCH_DCCH_DTCH_SCCPCH3_CTCH_Cfg (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 FACH1, and DTCH to FACH2.

...	Label	Behaviour Description	Constraint Ref	...	Comments
1		+ ts_SetTmpCellInfo (p_CellId)			
2		[px_RAT = fdd]			
3		CPHY!CPHY_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		CPHY!CPHY_TrCH_Config_REQ	ca_2_FACH_BCCH_DCCH_CCCH_DTCH_InfoActNow (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_TrLogMappingFACH_BCCH_DCCH_CCCH_PS)		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]		I	
10	ERR2	[TRUE]		I	

4.8   Change 7

Test step	ts_SS_2FACH_CCCH_BCCH_CTCH_Cfg
Reason for change	1. As per 34.108 section 6.1.2 for 2nd SCCPCH channelization code should be sf128:5 and slot format should be 6. In the TTCN during local end configuration it is set as sf64:1 and 8. 2. In this case the 2nd SCCPCH is carrying FACH only. In the TTCN PICH is also configured for this SCCPCH. This is not required.
Summary of change	1. At row 3 on the test step replaced "tsc_S_CCPCH2_DL_ChC" with "sf128:5" and "tcv_TmpCellInfo.slotFormatsCCPCH1" with "8". 2. Removed row 9 and 10 remove the PICH configuration.
Source of change	New change

Before:

After:

4.9 Change 8

Test step	c_TrLogMappingFACH_BCCH_DCCH_CCCH_PS
Reason for change	Wrong logicalChannelType of "dCCH" is used for logical Channel tsc_DL_CCCH6
Summary of change	Changed logicalChannelType from "dCCH" to "cCCH" to tsc_DL_CCCH6.
Source of change	New change

Before:

After:

```
{
  logicalChannel_Mapping dl_LogicalChannelMapping : {
    macHeaderManipulation normalMacHeader,
    dl_TransportChannelType fach,
    logicalChannelIdentity tsc_DL_CCCH6,
    logicalChannelType cCCH
    rlc_SizeList configured : NULL,
    mac_LogicalChannelPriority 1
  },
  rB_Identity tsc_RB29
},
```

4.10 Change 9

Test step	c_TrLogMapping_FACH_BMC
Reason for change	Wrong rB_Identity of "tsc_RB_BCCH" is used for logical channel carrying BCCH data mapped to FACH.
Summary of change	Changed rB_Identity from "tsc_RB_BCCH" to "tsc_RB_BCCH_FACH"
Source of change	New change

Before:
```
{
  logicalChannel_Mapping dl_LogicalChannelMapping : {
    macHeaderManipulation normalMacHeader,
    dl_TransportChannelType fach,
    logicalChannelIdentity tsc_BCCH6,
    logicalChannelType bCCH,
    rlc_SizeList configured : NULL,
    mac_LogicalChannelPriority 6
  }
  rB_Identity tsc_RB_BCCH
},
```

After:
```
  logicalChannel_Mapping dl_LogicalChannelMapping : {
    macHeaderManipulation normalMacHeader,
    dl_TransportChannelType fach,
    logicalChannelIdentity tsc_BCCH6,
    logicalChannelType bCCH,
    rlc_SizeList configured : NULL,
    mac_LogicalChannelPriority 6
  },
  rB_Identity tsc_RB_BCCH_FACH
},
```

4.11 Change 10

Test step	ts_SS_DownloadSecurityKey
Reason for change	At row 12 check for cell state cell_FACH_3_SCCPCH_3_FACH_CTCH is required.
Summary of change	At row 12 added check for the above cell state.
Source of change	New change

Before:

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_2SCCPCH_StandAlonePCH_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_2SCCPCH_StandAlonePCH) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_2SCCPCH_StandAlonePCH_PS)]		Cell FACH
13	+ lt_DownloadKeyCRLC (tcv_HFN, OMIT, p_IK)		

After:

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_2SCCPCH_StandAlonePCH_NoConn) 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_3_FACH_CTCH)]		Cell FACH
13	+ lt_DownloadKeyCRLC (tcv_HFN, OMIT, p_IK)		

4.12 Change 11

Test step	ts_SendRB_SetUp_FACH_3SCCPCH_32k_1
Reason for change	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	1. At row 2 instead of "cs_RRC_RB_SetUp" use cbs_108_RB_SetUpFACH_PS. 2. Created a new test step ts_CMAC_New_RNTI_Reconf_3SCCPCH_CTCH and is called at row 3.
Source of change	New change

Before:

1		+ ts_SetTmpCellInfo (p_CellId)			

2		AM ! RLC_AM_DATA_REQ	cas_RB_SetUpAM_WithCnf(
			 tsc_CellDedicated,
			 tsc_RB2,
			 OMIT,
			 cs_RRC_RB_SetUp(
			   tcv_CellIndInfo.dl_IntegrityCheckInfo, tcv_RRC_Ti,
			   OMIT,
			   cell_FACH,
			   OMIT,
			   c_RAB_InfoListFACH_PS (
			     c_ReEstTimerT314, p_RAB_Id, c_RLC_InfoAM_Def),
			     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
			)
			)		

3	TS P	+ ts_RRC_ReceiveRB_SetupCmpl (p_CellId , cell_FACH_3_SCCPCH_3_FACH_CTCH)			cell_FACH_3 _SCCPCH nee ed to be used

After:

1		+ ts_SetTmpCellInfo (p_CellId)			

2		AM ! RLC_AM_DATA_REQ	cas_RB_SetUpAM (
			 tsc_CellDedicated,
			 tsc_RB2,
			 cbs_108_RB_SetUpFACH_PS (
			   tcv_CellIndInfo.dl_IntegrityCheckInfo,
			   tcv_RRC_Ti,
			   p_RAB_Id,
			   tcv_TmpCellInfo.cRNTI
			))		

3		+ts_CMAC_New_RNTI_Reconf_3SCCPCH _CTCH (FALSE, p_CellId, tcv_TmpCellInfo.uRNTI,tcv_TmpCellInfo.cRNTI)			
4	TS P	+ ts_RRC_ReceiveRB_SetupCmpl (p_CellId , cell_FACH_3_SCCPCH_3_FACH_CTCH)			cell_FACH_3 _SCCPCH nee d to be used

4.13 Change 12

Test step	ts_CMAC_New_RNTI_Reconf_3SCCPCH_CTCH
Reason for change	1. 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	1. Created a new test step ts_CMAC_New_RNTI_Reconf_3SCCPCH_CTCH. This new test step is required as in this case in the DL the transport channel Mapping information is different than the normal configuration.
Source of change	New change

Test Step Id:	ts_CMAC_New_RNTI_Reconf_3SCCPCH_CTCH (p_umti:BOOLEAN; p_CellId : INTEGER; p_U_RNTI : U_RNTI; p_C_RNTI : BITSTRING)
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.

..	..	Behaviour Description	Constraint Ref	..	Comments
1		+ ts_SetTmpCellInfo (p_CellId)			
2		+ ts_CRLC_ReconfRLC_Size (p_umti)			
3		+ lt_CMAC_Reconf (p_umti)			
		lt_CMAC_Reconf (p_umti: BOOLEAN)			
4		[p_umti]			
5		CMAC ! CMAC_Config_REQ	ca_CMAC_ReconfigInfoActNow (p_CellId , tsc_S_CCPCH3, c_UE_Info(p_U_RNTI, OMIT), c_TrChInfoFACH_BCCH_CCCH_DCCH_PS, c_TrLogMappingFACH_BCCH_DCCH_CCCH_PS)		SS has valid U-RNTI, C-RNTI is not valid
6		CMAC ? CMAC_Config_CNF	ca_CMAC_CfgCnf (p_CellId , tsc_S_CCPCH3)		
7		[NOT p_umti]			
8		CMAC ! CMAC_Config_REQ	ca_CMAC_ReconfigInfoActNow (p_CellId , tsc_PRACH1, c_UE_Info (OMIT, p_C_RNTI), cb_TrChInfoRACH1, c_TrLogMappingRACH_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_CCPCH3, c_UE_Info(OMIT, p_C_RNTI), c_TrChInfoFACH_BCCH_CCCH_DCCH_PS, c_TrLogMappingFACH_BCCH_DCCH_CCCH_PS)		
11		CMAC ? CMAC_Config_CNF	ca_CMAC_CfgCnf (p_CellId , tsc_S_CCPCH3)		

4.14 Change 13

Test step	ts_SS_Rel
Reason for change	At row 130 and 131 cell ID used for the release of tsc_RB30 and tsc_RB29 should be CellId_A instead of tsc_CellDedicated
Summary of change	At row 130 and 131 replaced "tsc_CellDedicated" with "p_CellId"
Source of change	New change

Before:

127	[(tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_3_FACH_CTCH_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_3_FACH_CTCH)]		
128	+ lt_RelSRB1_4		
129	+ ts_CRLC_Rel (tsc_CellDedicated, tsc_RB20)		
130	+ ts_CRLC_Rel (tsc_CellDedicated, tsc_RB30)		
131	+ ts_CRLC_Rel (tsc_CellDedicated, tsc_RB29)		

After:

127	[(tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_3_FACH_CTCH_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_FACH_3_SCCPCH_3_FACH_CTCH)]		
128	+ lt_RelSRB1_4		
129	+ ts_CRLC_Rel (tsc_CellDedicated, tsc_RB20)		
130	+ ts_CRLC_Rel (p_CellId) tsc_RB30)		
131	+ ts_CRLC_Rel (p_CellId, tsc_RB29)		
132	+ ts_CRLC_Rel (p_CellId , tsc_RB_BCCH_FACH)		

Branches executed in test case 14.4.2.3

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]:

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

⌘	**TS 34.123-3 CR**	387	⌘**rev**	-	⌘	Current version:	**3.6.0**	⌘

*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 14.2.51.1 to RAB ATS V3.6.0

Source: ⌘	Rohde & Schwarz

Work item code: ⌘	N/A	***Date:*** ⌘	16/08/2004

Category: ⌘ **B**	***Release:*** ⌘ R99

Use one 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 one 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 3 RAB test case 14.2.51.1 to the approved RAB ATS V3.6.0

Summary of change: ⌘	This document lists all changes applied to test case 14.2.51.1 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

	Y	N		
Other specs affected: ⌘		X	Other core specifications ⌘	
		X	Test specifications	
		X	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 14.2.51.1 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 14.2.51.1 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.

2   Table of Contents

3 Verification Test Summary

Test Case: TC_14_2_51_1

Test Group: CombinationOnDPCH/ConvSpeech_InteractBackgrnd/

ATS Version: iWD-TVB2003-03_D04wk31 + 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 14.2.51.1

4.1 Introduction

This section describes the changes required to make test case 14.2.51.1 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_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, 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 14.2.51.1:

WA#RAB4218, WA#RAB4407, WA#RAB4378, WA#RAB4463, WA#RAB4387, WA#RAB4394, WA#RAB4397, WA#RAB4383, WA#RAB4418, WA#RAB4384, WA#RAB4475, WA#RAB4475, WA#RAB4461, WA#RAB4377

4.2 ts_SS_RelDPCH (A#RAB4462)

Test step name   ts_SS_RelDPCH

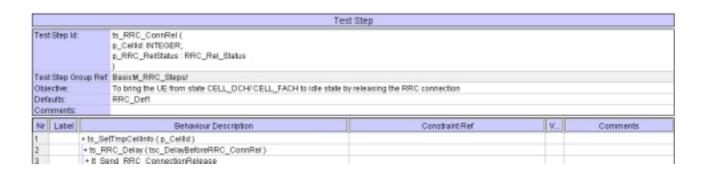**Reason for change**   The configuration "cell_Two_DTCH_CS_PS" is not included in this test step.

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   WA#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	

		Behaviour Description	Constraint Ref		Comments
99		+ ts_SS_StopRL (p_CellId , tsc_UL_DPCH1)			
100		[(lcv_TmpCellInfo.callConfig = 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_DL_DPCH1)			
109		+ ts_SS_StopRL (p_CellId , tsc_UL_DPCH1)			
110	ERR	[TRUE]		l	
it_ReleaseRLC_RB					
111		[(lcv_TmpCellInfo.callConfig = cell_RLC_DCH_AM_RAB_15Lbi)]			
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_Def!			
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	[trv_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_No Conn)			
33	[(trv_TmpCellInfo.cellConfig = cell_DCH_Speech) OR (trv_TmpCellInfo.cellConfig = cell_DCH_64kCS_RAB_SRB) OR (trv_TmpCellInfo.cellConfig = cell_DCH_57_6kCS_RAB_SRB) OR (trv_TmpCellInfo.cellConfig = cell_DCH_64kPS_RAB_SRB) OR (trv_TmpCellInfo.cellConfig = cell_RLC_DCH_AM_RAB_15Lis) OR (trv_TmpCellInfo.cellConfig = cell_RLC_DCH_AM_RAB_7Lis) OR (trv_TmpCellInfo.cellConfig = cell_RLC_DCH_UM_RAB_7Lis) OR (trv_TmpCellInfo.cellConfig = cell_RLC_DCH_UM_RAB_15Lis) OR (trv_TmpCellInfo.cellConfig = cell_PDCP_AM_RAB) OR (trv_TmpCellInfo.cellConfig = cell_PDCP_UM_RAB) OR (trv_TmpCellInfo.cellConfig = cell_PDCP_AM_UM_RAB) OR (trv_TmpCellInfo.cellConfig = cell_Two_DTCH) OR (trv_TmpCellInfo.cellConfig = cell_Four_DTCH_CS) OR (trv_TmpCellInfo.cellConfig = cell_Four_DTCH_CS_PS) OR (trv_TmpCellInfo.cellConfig = cell_DCH_2AM_PS) OR (trv_TmpCellInfo.cellConfig = cell_DCH_2_PS_Call) OR (trv_TmpCellInfo.cellConfig = cell_Two_DTCH_CS_PS]			WA#RAB4461
34	+ ts_88_ReconfigRAB_ToSRB (p_CellId)			
35	+ ts_SetCellCfg (p_CellId, cell_DCH_StandAloneSRB_NoConn)			
36	ERR1	[(trv_TmpCellInfo.cellConfig = cell_DCH_StandAloneSRB_NoConn) OR		1	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 remaining data PDU will be sent the next tti but this is possible only if there is a suitable TF available and also it should have 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 for the SS local configuration.
Source of change	New Change
Label	WA#RAB4448

4.5 ts_3DCH_ModifyConvUnknown_64k_InteractBackg_64k_20_Order1 (WA#RAB4424)

Test step name	ts_3DCH_ModifyConvUnknown_64k_InteractBackg_64k_20_Order1
Reason for change	Wrong list of TFCSs. It should not be "0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14,15, 16, 17, 18 and 19" but instead "0, 2, 4, 6, 8, 1, 3, 5, 7, 9, 10, 12, 14, 16, 18, 11, 13, 15, 17 and 19"
Summary of change	Used c_TrCHInfo_DL_3_0To19_Order1 (line 6) and c_TrCHInfo_UL_3_0To19_Order1 (line 12) instead of c_TrCHInfo_DL_3_0To19 and c_TrCHInfo_UL_3_0To19
Source of change	New Change
Label	WA#RAB4424

Test Step Id:	ts_3DCH_ModifyComUnknown_64k_InteractBackg_64k_20_Order1 (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 DPCH1and 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:64 DL: 64 kbps / PS RAB /
Defaults:	RRC_Def1
Comments:	

		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, c_DCH_336_TFS_25_DL_20_TC, c_PowerOffsetInfoHigher64k, activationCFN: p_ActTime)		2. @sic RASH TTCN Review sic@
5		CPHY?CPHY_TrCH_Config_CNF	ca_TrChCfgCnf(p_CellId, tsc_DL_DPCH1)		
6		CMAC ! CMAC_Config_REQ	ca_CMAC_ReconfigInfo(tsc_CellDedicated, tsc_DL_DPCH1, c_UE_Info (OMIT, OMIT), c_TrChInfo_DL_3_0To19_Order1 (c_DCH_148_TFS_DL, c_DCH_640_TFS, c_DCH_336_TFS_25_DL_20_TC, c_PowerOffsetInfoHigher64k), c_TrLogMappingDL_TM1_AM1,p_ActTime)		3. WA#RAB4424
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)		
10		CPHY!CPHY_TrCH_Config_REQ	ca_3_DCH_0_To19_Order1_UL_Info (p_CellId , tsc_UL_DPCH1, c_TrChConfigTypeDCH_NoSHO, c_DCH_148_TFS_UL, c_DCH_640_TFS, c_DCH_336_TFS_24_UL_20_TC , activationCFN :p_ActTime)		2. @sic RASH TTCN Review sic@
11		CPHY?CPHY_TrCH_Config_CNF	ca_TrChCfgCnf(p_CellId, tsc_UL_DPCH1)		
12		CMAC ! CMAC_Config_REQ	ca_CMAC_ReconfigInfo (tsc_CellDedicated, tsc_UL_DPCH1, c_UE_Info (OMIT, OMIT), c_TrCHInfo_UL_3_0To19_Order1 (c_DCH_148_TFS_UL, c_DCH_640_TFS, c_DCH_336_TFS_24_UL_20_TC), c_TrLogMappingUL_TM1_AM1,p_ActTime)		3. WA#RAB4424
13		CMAC ? CMAC_Config_CNF	ca_CMAC_CfgCnf(tsc_CellDedicated, tsc_UL_DPCH1)		
14		[px_RAT = fdd]			
15		[TRUE]		I	

Detailed Comment	1.to configure physical channel DPCH1and 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:64 DL: 64 kbps / PS RAB / 2. connect DCH1,DCH2 and DCH5 to DPCH1. 3. map logical channels: DCCH1-4 to DCH5, and DTCH1, DTCH2 to DCH1, DCH2 respectively for both uplink and downlink and send relevant transport channel configuration information to MAC.

5 Branches executed in test case 14.2.51.1

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

6 Execution Log Files

6.1 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_51_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_51_1-pics-pixit-Ericsson.html**
  Text file containing all PICS/PIXIT parameters used for testing.

7 References

[1]   **T1s040467**
        This archive comprises HTML Execution log files, PICS/PIXIT files and the TTCN MP file

CR-Form-v7

CHANGE REQUEST

| ⌘ | **TS 34.123-3 CR** | 388 | ⌘**rev** | - | ⌘ | Current version: | **3.6.0** | ⌘ |

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 14.2.51a.1 to RAB ATS V3.6.0

Source: ⌘	Rohde & Schwarz

Work item code:⌘	N/A	*Date:* ⌘	16/08/2004

Category: ⌘	**B**	*Release:* ⌘	R99

Use one 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 one 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 3 RAB test case 14.2.51a.1 to the approved RAB ATS V3.6.0

Summary of change:⌘	This document lists all changes applied to test case 14.2.51a.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

	Y	N		
Other specs ⌘ *affected:*		X	Other core specifications ⌘	
		X	Test specifications	
		X	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.

3GPP TSG-T1 E-Mail 2004   **T1s040468**
01 Jan - 31 Dec 2004

Title: **Changes to test case 14.2.51a.1 required for approval**

Source: Rohde & Schwarz

Agenda Item: TTCN Issues

Document for: Approval

Contact: Thomas Moosburger
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                    Tel. +49 89 4129 11731

1   Overview

This document lists all the changes needed to correct problems in the TTCN implementation of test case 14.2.51a.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.

2   Table of Contents

3 Verification Test Summary

Test Case: TC_14_2_51a.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 7600 and Ericsson U100

Verification Status: PASS

4 Corrections required for test case 14.2.51a.1

4.1 Introduction

This section describes the changes required to make test case 14.2.51a.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_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, 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 14.2.51a.1:

WA#RAB4218, WA#RAB4407, WA#RAB4424, WA#RAB4378, WA#RAB4463, WA#RAB4387, WA#RAB4394, WA#RAB4397, WA#RAB4383, WA#RAB4418, WA#RAB4384, WA#RAB4475, WA#RAB4462, WA#RAB4377.

4.2 ts_SS_RelDPCH (WA#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	WA#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 channel: DCH; logical channels: DCCH; and signalling radio bearer: signalling bearers on DCH radio access bearer on DCH. WA#RAB4462	

	Behaviour Description	Constraint Ref		Comments
99	+ ts_SS_StopRL (p_CellId , tsc_UL_DPCH)			
100	[(tcv_TmpCellInfo.cellConfig = cell_Two_DTCH_CS_PS)]			
101	+ ts_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_DL_DPCH1)			
109	+ ts_SS_StopRL (p_CellId , tsc_UL_DPCH1)			
110	ERR [TRUE]			
ft_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 (WA#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		I	1.

4.4 tc_14_2_51a_1 and c_TFC_Allowed_0_2_3_4_7 (WA#RAB4483)

Test step name   tc_14_2_51a_1 and c_TFC_Allowed_0_2_3_4_7.

Reason for change   Wrong lists of allowed CTFCs passed in the calls of the subtests. Because the constraint for the CTFC used in the RAB setup (0,1,2, 3, 4, 5, 6 and 7) has a different other than the one present in the prose (0, 2, 1, 3, 4, 6, 5 and 7) TFCIs for 1 and 2 has to be swapped. The same for TFCIs 5 and 6.

Summary of change   Subtest 1: c_TFC_Allowed_0_2_4_6 instead of c_TFC_Allowed_0_1_4_6.
Subtest 2: c_ c_TFC_Allowed_0_1_4_5 instead of c_TFC_Allowed_0_2_4_5.

Subtest 3: c_TFC_Allowed_0_2_3_4_7 instead of c_TFC_Allowed_0_1_3_4_7.

Created c_TFC_Allowed_0_2_3_4_7.

Source of change   New Change

Label   WA#RAB4483

Test Case		
Test Case Id:	tc_14_2_51a_1	
Test Group Reference:	CombinationOnDPCH/ConvUnknown_InteractBackgrnd/	
Purpose:	Conversational / unknown / UL:64 DL: 64 kbps / CS RAB / 20 ms TTI + Interactive or background / UL: 8 DL: 8 kbps / PS RAB	
	Test to verify establishment and data transfer of reference radio bearer configuration as specified in TS 34.108, clause 6.10.2.4.1.51a for the 20 ms TTI case	
Configuration:		
Defaults:	RRC_Def1	
Comments:	@SIC_NAPP	
	WA#RAB4483	

	La..	Behaviour Description	..	..	Comments
1		START t_Guard			
2		+ ts_InitVariables			Initial Test Case Variables
3		+t_Interactive			
4		+t_Background			
t_Interactive					
5		[pc_Interactive]			
6		+ts_RB_InitTest_CS_PS (convUnknown_64k_Interact_8k_20, terminatingInteractiveCall, terminatingInteractiveCall)			Steps 1-10
7		+ ts_RB_SubTest_RAB_SRB_RB20 (c_TFC_Allowed_0_1_2_4_6, c_TFC_Allowed_0_2_4_6, c_UE_TestLoopMode1_LB_Setup2 (640,tsc_RB10, 312, tsc_RB20), c_RAB_Tx_Info (tsc_RB_TestData_2688, 1, c_RB_Tx_Info(tsc_RB20,312,30), OMIT, OMIT, OMIT), 40)			Subtest 1 Steps 11-17 @sic RASH ER1923 sic@
8		+ ts_RB_SubTest_RAB_SRB_RB10 (c_TFC_Allowed_0_1_2_4_5, c_TFC_Allowed_0_1_4_5, c_UE_TestLoopMode1_LB_Setup2 (640,tsc_RB10, 312, tsc_RB20), c_RAB_Tx_Info (tsc_RB_TestData_2688, 1, c_RB_Tx_Info(tsc_RB10,1200,60), OMIT, OMIT, OMIT), 20)			Subtest 2 Steps 11-17 @sic RASH TTCN Review sic@

9		+ ts_RB_SubTest_RAB_SRB_RB10_RB20 (c_TFC_Allowed_0_1_2_3_4_5_6_7, c_TFC_Allowed_0_2_3_4_7, c_UE_TestLoopMode1_LB_Setup2 (640,tsc_RB10, 312, tsc_RB20), c_RAB_Tx_Info (tsc_RB_TestData_2688, 2, c_RB_Tx_Info(tsc_RB10,1280,60), c_RB_Tx_Info(tsc_RB20,312,30), OMIT, OMIT), 40)	Subtest 3 Steps 11-17 @sic RASH ER1923 sic@
10	TBE1	(tcv_TestBody := FALSE)	
11		+ ts_TC_DeactivateRB_TestMode (tsc_CellDedicated)	Steps 20-21
12		+ts_RRC_ConnRel (tsc_CellA , cell_Dch)	
13		+ts_GMM_DetachOnSwitchOff(tsc_CellA)	
14		+ po_ConnectionAndSS_Rel (tsc_CellA)	
15		[TRUE]	
lt_Background			
16		[pc_Background]	
17		+ts_RB_InitTest_CS_PS (comvUnknown_64k_Backgrnd_8k_20, terminatingBackgroundCall , terminatingBackgroundCall)	Steps 1-10
18		+ ts_RB_SubTest_RAB_SRB_RB20 (c_TFC_Allowed_0_1_2_4_6, c_TFC_Allowed_0_2_4_6, c_UE_TestLoopMode1_LB_Setup2 (640,tsc_RB10, 312, tsc_RB20), c_RAB_Tx_Info (tsc_RB_TestData_2688, 1, c_RB_Tx_Info(tsc_RB20,312,30), OMIT, OMIT, OMIT), 40)	Subtest 1 Steps 11-17 @sic RASH ER1923 sic@
19		+ ts_RB_SubTest_RAB_SRB_RB10 (c_TFC_Allowed_0_1_2_4_5, c_TFC_Allowed_0_1_4_5, c_UE_TestLoopMode1_LB_Setup2 (640,tsc_RB10, 312, tsc_RB20), c_RAB_Tx_Info (tsc_RB_TestData_2688, 1, c_RB_Tx_Info(tsc_RB10,1280,60), OMIT, OMIT, OMIT), 20)	Subtest 2 Steps 11-17 @sic RASH ER1923 sic@
20		+ ts_RB_SubTest_RAB_SRB_RB10_RB20 (c_TFC_Allowed_0_1_2_3_4_5_6_7, c_TFC_Allowed_0_2_3_4_7, c_UE_TestLoopMode1_LB_Setup2 (640,tsc_RB10, 312, tsc_RB20), c_RAB_Tx_Info (tsc_RB_TestData_2688, 2, c_RB_Tx_Info(tsc_RB10,1280,60), c_RB_Tx_Info(tsc_RB20,312,30), OMIT, OMIT), 40)	Subtest 3 Steps 11-17 @sic RASH ER1923 sic@
21	TBE1	(tcv_TestBody := FALSE)	
22		+ ts_TC_DeactivateRB_TestMode (tsc_CellDedicated)	Steps 20-21
23		+ po_ConnectionAndSS_Rel (tsc_CellA)	
24		[TRUE]	

Detailed Comment:

ASN.1 Type Constraint Declaration	
Constraint Name:	c_TFC_Allowed_0_2_3_4_7
Group:	
Type Name:	TFC_Subset
Derivation Path:	
Encoding Variation:	
Comments:	@SIC_NAPP For speech combination with 2 RBs + DCCH WA#RAB4483
Constraint Value	
allowedTFC_List: (0 , 2,3 , 4 , 7)	

4.5   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 for the SS local configuration.
Source of change	New Change
Label	WA#RAB4448

5 Branches executed in test case 14.2.51a.1

The test case implementation executed the 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 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 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_51a_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_51a_1-pics-pixit-Ericsson.html**
  Text file containing all PICS/PIXIT parameters used for testing.

7   References

[1]   T1s040469
This archive comprises HTML Execution log files, PICS/PIXIT files and the TTCN MP file

CR-Form-v7

CHANGE REQUEST

| ⌘ | **34.123-3** CR **389** | ⌘**rev** | **-** | ⌘ | Current version: | **3.6.1** | ⌘ |

*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 **X** Radio Access Network ☐   Core Network ☐

Title: ⌘	Addition of P3 test case 8.4.1.27 to RRC ATS V3.6.1		
Source: ⌘	Racal Instruments Wireless Solutions, an Aeroflex Company		
Work item code: ⌘	N/A	***Date:*** ⌘	16/08/2004
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 3 RRC test case 8.4.1.27 to the approved RRC ATS V3.6.1
Summary of change: ⌘	This document lists all changes applied to test case 8.4.1.27 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:***	Y	N	
		X	Other core specifications ⌘
		X	Test specifications
		X	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 2 those parts of the specification which are not relevant to the change request.

Title:	**Changes to test case 8.4.1.27 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 8.4.1.27, which is part of RRC iWD_wk31 test suite. Changes are made so that it can be executed with one or more 3G UE. Plesae see section 6 for log information.

2   Table of Contents

3 Verification Test Summary

Test Case: tc_8_4_1_27

Test Group: RRC

ATS Version: iWD_wk31 + modifications

System Simulator used: Racal Instruments Wireless Solution 6401 AIME/CT

UE used: Nokia 3G UE 7600 and Qualcomm 6250

Verification Status: PASS

4 Corrections required for test case 8.4.1.27

4.1 Introduction

The TTCN ATS used is RRC iWD_wk31.mp which is part of the iWD-TVB2003-03_D04wk31 release.

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	tc_8_4_1_27
Reference ATS	RRC
Change Label	RACAL#RRC_0201
Reason for change	<Textual description of change reason>.
Summary of change	<Textual description of performed changes>
Other affected objects	< other fields affected> (optional)
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_U*', 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　　Change 1 - test Suite Constant **tsc_TpcStepSize**

Reason for change	The value of TPC Step size is defined as IE Value + 1 in 25.331. So for 1 dB step size **tsc_TpcStepSize** should be set to 0
Summary of change	Test suite constant **tsc_TpcStepSize** is set to 0.

Constant Name	Type	Value Reference	Comments
tsc_TpcStepSize	TPC_StepSizeFDD	~~1~~0	

4.4　Change 2 - Test case tc_8_4_1_27

Reason for change	1.	IE **ue_TransmittedPowerFDD** in Measurement Report Message ranges from +21 to +104 which corresponds to value –50 to +33 as per clause 9.1.6.2 of TS 25.133
	2.	Incorrect use of Cell Id in line 24 while calling step ts_C3_CheckCellDCH
Summary of change	1.	An offset of +71 is added in line 19, 20, 22 and 23 while checking the value of IE **ue_TransmittedPowerFDD** in Measurement Report
	2.	**tsc_CellA** is passed instead od **tsc_CellDedicated** in step +ts_C3_CheckCellDCH in line 24.

Test Case				
Test Case Id:	tc_8_4_1_27			
Test Group Reference:	RRC_Measurements/			
Purpose:	1. To confirm that the UE performs UE internal measurements and reporting for events 6A and 6B, when requested by the UTRAN to do so in the MEASUREMENT CONTROL message.			
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		+lt_InitVariables			
4		+ts_SS_CreateCellDCH (tsc_CellA)			
5		+ts_SendDef_sysInfo_MultiCell (tsc_CellA)			

#	Label	Behaviour	Constraints/Message	V	Comment
6		+ts_IdleUpdated (tsc_CellA)			Idle Update and bring UE to Cell_Dch state and release the connection again
7		+ts_ToStateMO_CS_6_9_PS_6_10Or6_11 (tsc_CellA)			
8		+lt_TestBody			
9		+po_SHO_ConnectionAndSS_Rel			Postamble : To release the RRC connection and all the SS configuration
10	ERR1	[px_RAT = tdd]			TDD specific behaviour
11	ERR2	[TRUE]		I	
lt_TestBody					
12	TBS	(tcv_TestBody := TRUE)			
13		AM ! RLC_AM_DATA_REQ	cas_MeasurementControl (tsc_CellDedicated, tsc_RB2, cs_MeasurementControlUE_InternalMeas_Event6a_6b ((tcv_CellIndInfo.dl_IntegrityCheckInfo, tcv_RRC_Ti, 5, eventTrigger))		Step 2 in prose
14		CPHY!CPHY_UL_PowerModify_REQ	ca_UL_PowerModify_REQ (tsc_CellA, tsc_DL_DPCH1, tsc_UL_DPCH1, delta: 41)		Step 3 in Prose (set UE UL DPCH transmission power above 18 dBm); @sic Thomas T1-041010 sic@
15		CPHY?CPHY_UL_PowerModify_CNF	ca_UL_PowerModify_CNF (tsc_CellA, tsc_DL_DPCH1)		@sic Thomas T1-041010 sic@
16	TBP1	AM ?RLC_AM_DATA_IND (tcv_checkUETxPower:= RLC_AM_DATA_IND.aM_message. uL_DCCH_Message.message.measurementReport.measuredResults.ue_InternalMeasuredResults.modeSpecificInfo.fdd.ue_TransmittedPowerFDD)	car_MeasurementReport (tsc_CellDedicated, tsc_RB2, cr_MeasReportUE_InternalMeas_Event6a_6b (5, c_EventResult (event6a : NULL)))	(P)	Step 4 in prose (Step 3 not needed as UE transmission power already above 18 dBm)
17	~~TBP1~~	~~[tcv_checkUETxPower <= 18]~~		~~(F)~~	
18	~~TBP2~~	~~[tcv_checkUETxPower > 18]~~		~~(P)~~	
19	TBF1	[tcv_checkUETxPower <= 89]		(F)	
20	TBP2	[tcv_checkUETxPower > 89]		(P)	
21		CPHY!CPHY_UL_PowerModify_REQ	ca_UL_PowerModify_REQ (tsc_CellA, tsc_DL_DPCH1, tsc_UL_DPCH1, delta: -10)		Step 5 in prose; UE transmission power set below 15 dBm to 11 dBm to avoid measurement uncertainties); @sic Thomas T1-041010 sic@
22		CPHY?CPHY_UL_PowerModify_CNF	ca_UL_PowerModify_CNF (tsc_CellA, tsc_DL_DPCH1)		@sic Thomas T1-041010 sic@
23	TBP3	AM ?RLC_AM_DATA_IND (tcv_checkUETxPower:= RLC_AM_DATA_IND.aM_message. uL_DCCH_Message.message.measurementReport.measuredResults.ue_InternalMeasuredResults.modeSpecificInfo.fdd.ue_TransmittedPowerFDD)	car_MeasurementReport (tsc_CellDedicated, tsc_RB2, cr_MeasReportUE_InternalMeas_Event6a_6b (5, c_EventResult (event6b : NULL)))	(P)	Step 6 in prose
24	~~TBP2~~	~~[tcv_checkUETxPower >= 15]~~		~~(F)~~	
25	~~TBP4~~	~~[tcv_checkUETxPower < 15]~~		~~(P)~~	
26		~~+ts_C3_CheckCellDCH (tsc_CellDedicated)~~			~~Step 7 in prose;~~
27	TBF2	[tcv_checkUETxPower >= 86]		(F)	
28	TBP4	[tcv_checkUETxPower < 86]		(P)	
29		+ts_C3_CheckCellDCH (tsc_CellA)			Step 7 in prose;
30	TBE	(tcv_TestBody := FALSE)		(P)	
lt_InitVariables					
31		+ ts_RRC_InitVariables (cell_DCH)			

| 32 | | (tcv_CellInfoA := c_CellInfoDiff (
tsc_CellA, px_PriScrmCode,
tsc_URA_IdCellA, tsc_CRNTI , tsc_tCellA, tsc_SFN_OffsetA, tcv_FreqInfoMid, px_UL_ScramblingCode)) | | | |

5 Branches executed in test case 8.4.1.27

For Nokia 7600 - test case was executed with pc_CS=TRUE, pc_PS=TRUE, px_CN_DomainTested set to cs_domain.

For Qualcomm test case was executed with pc_CS=TRUE, pc_PS=FALSE, px_CN_DomainTested set to cs_domain.

6 Execution Log Files

Nokia 7600 and Qualcomm 6250 UEs have been used and this test case passed in CS mode on the Racal Instruments Wireless Solution 6401 AIME/CT Test platform. Logs of the successful test case execution is enclosed in T1s040471[2].

7 References

[1]	RRC iWD_wk31.mp
[2]	T1s040471[2].zip Attachment containing the successful log and and the TTCN MP file for 8.4.1.27

<table>
<tr><td colspan="2" align="right">CR-Form-v7</td></tr>
<tr><td colspan="2" align="center"><h1>CHANGE REQUEST</h1></td></tr>
</table>

⌘ **TS 34.123-3 CR** 393 ⌘**rev** - ⌘ Current version: **3.6.1** ⌘

*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 8.4.1.34 to IR_U ATS v3.6.1
Source: ⌘	Anite
Work item code: ⌘	N/A **Date:** ⌘ 17/08/04
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 3 RRC test cases 8.4.1.34 to the approved IR_U ATS V3.6.1
Summary of change: ⌘	This document lists all changes applied to test cases 8.4.1.34 required for approval. See detailed change description for further information.
Consequences if not approved: ⌘	Test case will not be added to ATS

Clauses affected: ⌘	

	Y	N		
Other specs affected: ⌘		X	Other core specifications ⌘	Reference: Draft Prose CR attached. Same will be submitted in the next T1SIG meeting for approval.
	Y		Test specifications	
		X	O&M Specifications	

Other comments: ⌘	

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3GPP TSG-T1 E-Mail 2004   **T1s040479**
01 Jan - 31 Dec 2004

Title:	**Changes to test case 8.4.1.34 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 8.4.1.34, which are part of the IR_U 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

3 Verification Test Summary

Test Case: TC_8_4_1_34

Test Group: RRC/RRCMeasurements

ATS Version:

System Simulator used: Anite MultiRAT CT

UE used: Nokia 7600

Verification Status: PASS

4 Corrections required for test cases 8.4.1.34

4.1 Introduction

This section describes the changes required to make test cases 8.4.1.34 run correctly with a 3G UE. The ATS version used as basis was IR_U_wk31.mp, which is part of the iWD-TVB2003-03_D04wk31 release.

4.2 Change 1

Local Tree and Test step	tc_8_4_1_34, local tree lt_Step2_To4_WithOrWithoutCompMode
Reason for change	1) The TGPSRFCN value should not be set to OMIT while doing SS side RL Modification after Measurement Control Message for UE, which required Compress Mode. 2) On the SS side Activation of compressed mode for uplink is not done.
Summary of change	1) At row 82 tcv_TGPSRFCN is passed as a parameter to the constraint c_DPCH_CompressedModeStatusInfoActive_TGPSIList for SS side RL modification. 2) At row 84 and 85 added statements for Activation of Uplink Compress Mode after sending Measurement Control.
Source of change	New change

Before:

After:

4.3   Change 2

Local Tree and Test step	tc_8_4_1_34, local tree lt_PhyChReconf_CompresseModeActivate (Line #56)
Reason for change	The Cell ID "tsc_CellDedicated" used for for receiving CPHY_RL_Modify_CNF is incorrect. It should be "tsc_CellA".
Summary of change	Au row 56 replaced "tsc_CellDedicated" with "tsc_CellA".
Source of change	New change

Before:

After:

4.4 Change 3

Local Tree and Test step	tc_8_4_1_34, local tree lt_TestBody
Reason for change	1) The wait time 800ms for SS to receive first Measurement Report is not enough at line #29. According to 25.133 section 8.1.2.5.4: The measurement reporting delay is defined as (2*TMeasurement Period). Thus the wait timer calculation should be (2 * TMeasurement Period + Time to trigger event), where: As per 25.133 section 8.1.2.5, TMeasurement Period is 480ms and in Measurement Control message for test case 8.4.1.34 time to trigger event is 60 ms. As per the above section references the calculated timer for first Measurement Report is: (2 * 480ms + 60 ms) = 1020ms A prose CR for the same is drafted and will be submitted in the next T1SIG meeting for approval. (For more information please refer to attached Prose CR) 2) The "tolerance = 80ms" for the first Measurement Report wait timer is incorrect at line #28. As per 34.108 the timer tolerance could be 10% of timer value or (2*TTI +55ms) which ever is higher. 3) The wait time for SS to receive second Measurement Report is not enough at line #34. As per 25.331 table 8.7: "The worst-case times for identification of one previously not identified GSM cell" For a UE requiring compressed mode gap patterns (pattern 2) the time required for initial BSIC verification of the 3rd GSM cell is 5.8s. A prose CR for the same is drafted and will be submitted in the next T1SIG meeting for approval. (For more information please refer to attached Prose CR) 4) CANCEL t_WaitMS missing after reception of first Measurement Report at line #31
Summary of change	1) Wait Timer value changed from 800ms to 1020ms. 2) Tolerance is taken as (2*TTI + 55ms) 3) UE requires some time for identification of one previously not identified GSM cell, so the wait time is changed to 5.8s instead of 0.8s. Please refer the attached Prose CR. 4) CANCEL t_WaitMS added after reception first Measurement Report.
Source of change	New change

Before:

After:

4.5   Change 4

Local Tree and Test step	ts_GSM_InitVariables_ThreeCells
Reason for change	1) GSM_P_900 Band is missed while checking GSM Band Under test.
Summary of change	1) Added tsc_GSM_P_900Band_Test at line #9
Source of change	New change

Before:

After:

4.6 Change 5

Local Tree and Test step	Constraint cr_MeasReportInterRatMeas_Event3b
Reason for change	1) In InterRAT Event3b result, the CellToReportList should contain the cell Id as tsc_GSM_InterRAT_CellC instead of tsc_GSM_CellC
Summary of change	1) Changed tsc_GSM_CellC to tsc_GSM_InterRAT_CellC
Source of change	New change

Before:

Constraint Name:	cr_MeasReportInterRatMeas_Event3b(p_measId: INTEGER; p_observedTimeDifferenceToGSM : INTEGER; p_BSICReported1 : BSICReported ; p_BSICReported2 : BSICReported; p_BSICReported3 : BSICReported)
Group:	
PDU Name:	UL_DCCH_Message
Derivation Path:	
Encoding Rule Name:	
Encoding Variation:	
Comments:	@SIC_NAPP

Constraint Value

```
{
 integrityCheckInfo *,
 message measurementReport :
 {
  measurementIdentity p_measId,
  measuredResults interRATMeasuredResultsList :
  {
   gsm : {
    {
     gsm_CarrierRSSI ?,
     dummy OMIT,
     -- pathloss OMIT,
     bsicReported p_BSICReported1,
     observedTimeDifferenceToGSM p_observedTimeDifferenceToGSM
    },
    {
     gsm_CarrierRSSI ?,
     dummy OMIT,
     -- pathloss OMIT,
     bsicReported p_BSICReported2,
     observedTimeDifferenceToGSM p_observedTimeDifferenceToGSM
    },
    {
     gsm_CarrierRSSI ?,
     dummy OMIT,
     -- pathloss OMIT,
     bsicReported p_BSICReported3,
     observedTimeDifferenceToGSM p_observedTimeDifferenceToGSM
    }
   }
  },
  measuredResultsOnRACH OMIT,
  additionalMeasuredResults OMIT,
  eventResults interRATEventResults : (
   eventID      e3b,
   cellToReportList    {{
     bsicReported    verifiedBSIC : tsc_GSM_CellC
   }}
  },
  v390nonCriticalExtensions *
 }
}
```

Detailed Comment:

After:

Constraint Name:	cr_MeasReportInterRatMeas_Event3b(p_measId: INTEGER; p_observedTimeDifferenceToGSM : INTEGER; p_BSICReported1 : BSICReported ; p_BSICReported2 : BSICReported; p_BSICReported3 : BSICReported)
Group:	
PDU Name:	UL_DCCH_Message
Derivation Path:	
Encoding Rule Name:	
Encoding Variation:	
Comments:	@SIC_NAPP

Constraint Value

```
{
 integrityCheckInfo *,
 message measurementReport :
 {
  measurementIdentity p_measId,
  measuredResults interRATMeasuredResultsList :
  {
   gsm : {
    {
     gsm_CarrierRSSI ?,
     dummy OMIT,
     -- pathloss OMIT,
     bsicReported p_BSICReported1,
     observedTimeDifferenceToGSM p_observedTimeDifferenceToGSM
    },
    {
     gsm_CarrierRSSI ?,
     dummy OMIT,
     -- pathloss OMIT,
     bsicReported p_BSICReported2,
     observedTimeDifferenceToGSM p_observedTimeDifferenceToGSM
    },
    {
     gsm_CarrierRSSI ?,
     dummy OMIT,
     -- pathloss OMIT,
     bsicReported p_BSICReported3,
     observedTimeDifferenceToGSM p_observedTimeDifferenceToGSM
    }
   }
  },
  measuredResultsOnRACH OMIT,
  additionalMeasuredResults OMIT,
  eventResults interRATEventResults : {
   eventID      e3b,
   cellToReportList     {{
     bsicReported     verifiedBSIC : tsc_GSM_InterRAT_CellC
   }}
  },
  v390nonCriticalExtensions *
 }
}
```

Detailed Comment:

10

Branches executed in test case 8.4.1.34

The test case implementation executed the combined CS/PS branch 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 MultiRAT 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 and the TTCN MP file.

CR-Form-v7

CHANGE REQUEST

⌘	~~RRC~~ ~~ATS~~TS34.123-3	CR	390	⌘rev	1 ~~1~~	⌘	Current version:	3.6.0	⌘

*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:	⌘	Revision CR to introduce GCF P3 Test Case 8.4.1.24 to ATS v3.6.0
Source:	⌘	Anritsu Ltd
Work item code: ⌘	N/A	***Date:*** ⌘ 18/08/2004

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),*
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   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 8.4.1.24 to ATS 3.6.0
Summary of change: ⌘	1 table modified.	
Consequences if not approved:	⌘	Test case will not be introduced.

Clauses affected:	⌘	N/A

		Y	N		
Other specs affected:	⌘		X	Other core specifications	⌘
			X	Test specifications	
			X	O&M Specifications	

Other comments:	⌘	This is a revision for T1s040354

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Anritsu

ANRITSU LIMITED

TSG-T W~~orking~~ ~~Group~~ 1 ~~SWG~~ ~~SIG~~ E-Mail 2004

01 Jan - 31 Dec 2004

Title	Revision CR to introduce GCF P3 Test Case 8.4.1.24 to 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

This document details the changes required. 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 and PS

2   Tables added to iWD-TVB2003-03_D04wk31

None

3   Tables Modifed to iWD-TVB2003-03_D04wk31

3.1   ts_PhyChannelReconfig_NoTFCI

Reason for change:

In line 4, the cell ID used for the frequencyInfo IE is incorrect.

Changes made:

Line 4, changed Cell ID used for frequencyInfo IE from D to A.

Test Step
ts_PhyChannelReconfig_NoTFCI (p_DL_FrameType: DL_FrameType)
DPCH_CompressedModeModeSpecific/

RRC_Def1
@SIC_NAPP

aviour Description	Constraint Ref	Verdict	
eActTime (tsc_CellA)			
q_DL_CompressedModeRequired q_UL_CompressedModeRequired			
RAB_Type = cell_DCH_Speech]			
AM_DATA_REQ	cas_PhyChReconf (tsc_CellDedicated, tsc_RB2, cs_PhyChReconf_DCH_ToDCH_NoTFCI (tcv_CellIndInfo.dl_IntegrityCheckInfo, tcv_RRC_Ti, tcv_ActTime , tcv_CellInfoD.frequencyInfo, tcv_CellInfoA.frequencyInfo, c_DL_CommonInformation_DCH_ToDCH_InterFreqMeas_UL_DLCompMode (tsc_DL_DPCH1_SFP_Speech, 1, tcv_TGCFN, fdd_Measurement, OMIT, OMIT, p_DL_FrameType) , c_DL_InformationPerRL (tcv_CellInfoA.priScrmCode, tsc_DL_DPCH1_ChC_Speech , tsc_SecScrmbCode5) , tsc_UL_DPDCH_SF_Speech , pl0_84, tcv_CellInfoA.uL_ScramblingCode))		
PHY_RL_Modify_REQ	ca_CompressedModeDPCH_Info_REQ (tsc_CellA, tsc_DL_DPCH1, tcv_ActTime, c_DPCHInfo_DL (c_DL_DPCHInfo (		

	c_DL_CommonInformation_DCH_ToDCH_InterFreqMeas_UL_DLCompMode (tsc_DL_DPCH1_SFP_Speech, 1, tcv_TGCFN, fdd_Measurement, OMIT, OMIT, p_DL_FrameType) , c_DL_DPCH_InfoPerRadioLink (tsc_SecScrmbCode5, tsc_DL_DPCH1_ChC_Speech))))		
CPHY_RL_Modify_CNF	ca_CompressedModeInfoCNF (tsc_CellA, tsc_DL_DPCH1)		
CPHY_RL_Modify_REQ	ca_CompressedModeDPCH_Info_REQ (tsc_CellA, tsc_UL_DPCH1, tcv_ActTime, c_DPCHInfo_UL (cb_UL_DPCH_Info (tsc_UL_DPDCH_SF_Speech , pl0_84, tcv_CellInfoA.uL_ScramblingCode)))		
? CPHY_RL_Modify_CNF	ca_CompressedModeInfoCNF (tsc_CellA, tsc_UL_DPCH1)		
RRC_ReceivePhyChReconfCmpl (tcv_RRC_RAB_Type)			
RAB_Type = CS_RAB_SRB]			
AM_DATA_REQ	cas_PhyChReconf (tsc_CellDedicated, tsc_RB2, cs_PhyChReconf_DCH_ToDCH_NoTFCI (tcv_CellIndInfo.dl_IntegrityCheckInfo, tcv_RRC_Ti, tcv_ActTime , tcv_CellInfoA.frequencyInfo, c_DL_CommonInformation_DCH_ToDCH_InterFreqMeas_UL_DLCompMode (tsc_DL_DPCH1_SFP_64k_CS, 1, tcv_TGCFN, fdd_Measurement, OMIT, OMIT, p_DL_FrameType) , c_DL_InformationPerRL (tcv_CellInfoA.priScrmCode, tsc_DL_DPCH1_ChC_64k_CS , tsc_SecScrmbCode5) , tsc_UL_DPDCH_SF_64k_CS, pl0_88, tcv_CellInfoA.uL_ScramblingCode))		
PHY_RL_Modify_REQ	ca_CompressedModeDPCH_Info_REQ (tsc_CellA, tsc_DL_DPCH1, tcv_ActTime, c_DPCHInfo_DL (c_DL_DPCHInfo (c_DL_CommonInformation_DCH_ToDCH_InterFreqMeas_UL_DLCompMode (tsc_DL_DPCH1_SFP_64k_CS, 1, tcv_TGCFN, fdd_Measurement, OMIT,OMIT, p_DL_FrameType) , c_DL_DPCH_InfoPerRadioLink (tsc_SecScrmbCode5, tsc_DL_DPCH1_ChC_64k_CS))))		
CPHY_RL_Modify_CNF	ca_CompressedModeInfoCNF (tsc_CellA, tsc_DL_DPCH1)		
CPHY_RL_Modify_REQ	ca_CompressedModeDPCH_Info_REQ (tsc_CellA, tsc_UL_DPCH1, tcv_ActTime, c_DPCHInfo_UL (cb_UL_DPCH_Info (tsc_UL_DPDCH_SF_64k_CS, pl0_88, tcv_CellInfoA.uL_ScramblingCode)))		
? CPHY_RL_Modify_CNF	ca_CompressedModeInfoCNF (tsc_CellA, tsc_UL_DPCH1)		
RRC_ReceivePhyChReconfCmpl (tcv_RRC_RAB_Type)			
AB_Type = 6kCS_RAB_SRB]			
AM_DATA_REQ	cas_PhyChReconf (tsc_CellDedicated, tsc_RB2, cs_PhyChReconf_DCH_ToDCH_NoTFCI (tcv_CellIndInfo.dl_IntegrityCheckInfo, tcv_RRC_Ti, tcv_ActTime , tcv_CellInfoA.frequencyInfo, c_DL_CommonInformation_DCH_ToDCH_InterFreqMeas_UL_DLCompMode (tsc_DL_DPCH1_SFP_Streaming, 1, tcv_TGCFN, fdd_Measurement,		

	OMIT, OMIT, p_DL_FrameType) , c_DL_InformationPerRL (tcv_CellInfoA.priScrmCode, tsc_DL_DPCH1_ChC_Streaming, tsc_SecScrmbCode5) , tsc_UL_DPDCH_SF_Streaming, pl0_96, tcv_CellInfoA.uL_ScramblingCode))		
PHY_RL_Modify_REQ	ca_CompressedModeDPCH_Info_REQ (tsc_CellA, tsc_DL_DPCH1, tcv_ActTime, c_DPCHInfo_DL (c_DL_DPCHInfo (c_DL_CommonInformation_DCH_ToDCH_InterFreqMeas_UL_DLCompMode (tsc_DL_DPCH1_SFP_Streaming, 1, tcv_TGCFN, fdd_Measurement,OMIT,OMIT, p_DL_FrameType), c_DL_DPCH_InfoPerRadioLink (tsc_SecScrmbCode5, tsc_DL_DPCH1_ChC_Streaming))))		
CPHY_RL_Modify_CNF	ca_CompressedModeInfoCNF (tsc_CellA, tsc_DL_DPCH1)		
CPHY_RL_Modify_REQ	ca_CompressedModeDPCH_Info_REQ (tsc_CellA, tsc_UL_DPCH1, tcv_ActTime, c_DPCHInfo_UL (cb_UL_DPCH_Info (tsc_UL_DPDCH_SF_Streaming, pl0_96, tcv_CellInfoA.uL_ScramblingCode)))		
? CPHY_RL_Modify_CNF	ca_CompressedModeInfoCNF (tsc_CellA, tsc_UL_DPCH1)		
RRC_ReceivePhyChReconfCmpl tcv_RRC_RAB_Type)			
AB_Type = PS_RAB_SRB]			
M_DATA_REQ	cas_PhyChReconf (tsc_CellDedicated, tsc_RB2, cs_PhyChReconf_DCH_ToDCH_NoTFCI (tcv_CellIndInfo.dl_IntegrityCheckInfo, tcv_RRC_Ti, tcv_ActTime , tcv_CellInfoA.frequencyInfo, c_DL_CommonInformation_DCH_ToDCH_InterFreqMeas_UL_DLCompMode (tsc_DL_DPCH1_SFP_64k_PS, 1, tcv_TGCFN, fdd_Measurement, OMIT,OMIT, p_DL_FrameType) , c_DL_InformationPerRL (tcv_CellInfoA.priScrmCode, tsc_DL_DPCH1_ChC_64k_PS , tsc_SecScrmbCode5) , tsc_UL_DPDCH_SF_64k_PS , pl0_96, tcv_CellInfoA.uL_ScramblingCode))		
PHY_RL_Modify_REQ	ca_CompressedModeDPCH_Info_REQ (tsc_CellA, tsc_DL_DPCH1, tcv_ActTime, c_DPCHInfo_DL (c_DL_DPCHInfo (c_DL_CommonInformation_DCH_ToDCH_InterFreqMeas_UL_DLCompMode (tsc_DL_DPCH1_SFP_64k_PS, 1, tcv_TGCFN, fdd_Measurement, OMIT,OMIT, p_DL_FrameType) , c_DL_DPCH_InfoPerRadioLink (tsc_SecScrmbCode5, tsc_DL_DPCH1_ChC_64k_PS))))		
CPHY_RL_Modify_CNF	ca_CompressedModeInfoCNF (tsc_CellA, tsc_DL_DPCH1)		
CPHY_RL_Modify_REQ	ca_CompressedModeDPCH_Info_REQ (tsc_CellA, tsc_UL_DPCH1, tcv_ActTime, c_DPCHInfo_UL (cb_UL_DPCH_Info (tsc_UL_DPDCH_SF_64k_PS , pl0_96, tcv_CellInfoA.uL_ScramblingCode)))		
? CPHY_RL_Modify_CNF	ca_CompressedModeInfoCNF (tsc_CellA, tsc_UL_DPCH1)		
RRC_ReceivePhyChReconfCmpl tcv_RRC_RAB_Type)			
q_UL_CompressedModeRequired			

RAB_Type = cell_DCH_Speech]			
AM_DATA_REQ	cas_PhyChReconf (tsc_CellDedicated, tsc_RB2, cs_PhyChReconf_DCH_ToDCH_NoTFCI (tcv_CellIndInfo.dl_IntegrityCheckInfo, tcv_RRC_Ti, tcv_ActTime , tcv_CellInfoD.frequencyInfo, c_DL_CommonInformation_DCH_ToDCH_InterFreqMeas_ULCompMode (tsc_DL_DPCH1_SFP_Speech, 1, tcv_TGCFN, fdd_Measurement, OMIT,OMIT, p_DL_FrameType) , c_DL_InformationPerRL (tcv_CellInfoA.priScrmCode, tsc_DL_DPCH1_ChC_Speech , tsc_SecScrmbCode5) , tsc_UL_DPDCH_SF_Speech , pl0_84, tcv_CellInfoA.uL_ScramblingCode))		
PHY_RL_Modify_REQ	ca_CompressedModeDPCH_Info_REQ (tsc_CellA, tsc_DL_DPCH1, tcv_ActTime, c_DPCHInfo_DL (c_DL_DPCHInfo (c_DL_CommonInformation_DCH_ToDCH_InterFreqMeas_ULCompMode (tsc_DL_DPCH1_SFP_Speech, 1, tcv_TGCFN, fdd_Measurement, OMIT,OMIT, p_DL_FrameType) , c_DL_DPCH_InfoPerRadioLink (tsc_SecScrmbCode5, tsc_DL_DPCH1_ChC_Speech))))		
CPHY_RL_Modify_CNF	ca_CompressedModeInfoCNF (tsc_CellA, tsc_DL_DPCH1)		
CPHY_RL_Modify_REQ	ca_CompressedModeDPCH_Info_REQ (tsc_CellA, tsc_UL_DPCH1, tcv_ActTime, c_DPCHInfo_UL (cb_UL_DPCH_Info (tsc_UL_DPDCH_SF_Speech , pl0_84, tcv_CellInfoA.uL_ScramblingCode)))		
? CPHY_RL_Modify_CNF	ca_CompressedModeInfoCNF (tsc_CellA, tsc_UL_DPCH1)		
RRC_ReceivePhyChReconfCmpl tcv_RRC_RAB_Type)			
RAB_Type = CS_RAB_SRB]			
AM_DATA_REQ	cas_PhyChReconf (tsc_CellDedicated, tsc_RB2, cs_PhyChReconf_DCH_ToDCH_NoTFCI (tcv_CellIndInfo.dl_IntegrityCheckInfo, tcv_RRC_Ti, tcv_ActTime , tcv_CellInfoA.frequencyInfo, c_DL_CommonInformation_DCH_ToDCH_InterFreqMeas_ULCompMode (tsc_DL_DPCH1_SFP_64k_CS, 1, tcv_TGCFN, fdd_Measurement, OMIT,OMIT,p_DL_FrameType) , c_DL_InformationPerRL (tcv_CellInfoA.priScrmCode, tsc_DL_DPCH1_ChC_64k_CS , tsc_SecScrmbCode5) , tsc_UL_DPDCH_SF_64k_CS, pl0_88, tcv_CellInfoA.uL_ScramblingCode))		
PHY_RL_Modify_REQ	ca_CompressedModeDPCH_Info_REQ (tsc_CellA, tsc_DL_DPCH1, tcv_ActTime, c_DPCHInfo_DL (c_DL_DPCHInfo (c_DL_CommonInformation_DCH_ToDCH_InterFreqMeas_ULCompMode (tsc_DL_DPCH1_SFP_64k_CS, 1, tcv_TGCFN, fdd_Measurement,OMIT,OMIT, p_DL_FrameType) , c_DL_DPCH_InfoPerRadioLink (tsc_SecScrmbCode5, tsc_DL_DPCH1_ChC_64k_CS))))		
CPHY_RL_Modify_CNF	ca_CompressedModeInfoCNF (tsc_CellA, tsc_DL_DPCH1)		
CPHY_RL_Modify_REQ	ca_CompressedModeDPCH_Info_REQ (tsc_CellA, tsc_UL_DPCH1, tcv_ActTime,		

	c_DPCHInfo_UL (cb_UL_DPCH_Info (tsc_UL_DPDCH_SF_64k_CS, pl0_88, tcv_CellInfoA.uL_ScramblingCode)))		
? CPHY_RL_Modify_CNF	ca_CompressedModeInfoCNF (tsc_CellA, tsc_UL_DPCH1)		
RRC_ReceivePhyChReconfCmpl tcv_RRC_RAB_Type)			
AB_Type = 6kCS_RAB_SRB]			
AM_DATA_REQ	cas_PhyChReconf (tsc_CellDedicated, tsc_RB2, cs_PhyChReconf_DCH_ToDCH_NoTFCI (tcv_CellIndInfo.dl_IntegrityCheckInfo, tcv_RRC_Ti, tcv_ActTime , tcv_CellInfoA.frequencyInfo, c_DL_CommonInformation_DCH_ToDCH_InterFreqMeas_ULCompMode (tsc_DL_DPCH1_SFP_Streaming, 1, tcv_TGCFN, fdd_Measurement, OMIT,OMIT, p_DL_FrameType) , c_DL_InformationPerRL (tcv_CellInfoA.priScrmCode, tsc_DL_DPCH1_ChC_Streaming, tsc_SecScrmbCode5) , tsc_UL_DPDCH_SF_Streaming, pl0_96, tcv_CellInfoA.uL_ScramblingCode))		
PHY_RL_Modify_REQ	ca_CompressedModeDPCH_Info_REQ (tsc_CellA, tsc_DL_DPCH1, tcv_ActTime, c_DPCHInfo_DL (c_DL_DPCHInfo (c_DL_CommonInformation_DCH_ToDCH_InterFreqMeas_ULCompMode (tsc_DL_DPCH1_SFP_Streaming, 1, tcv_TGCFN, fdd_Measurement, OMIT,OMIT, p_DL_FrameType), c_DL_DPCH_InfoPerRadioLink (tsc_SecScrmbCode5, tsc_DL_DPCH1_ChC_Streaming))))		
CPHY_RL_Modify_CNF	ca_CompressedModeInfoCNF (tsc_CellA, tsc_DL_DPCH1)		
CPHY_RL_Modify_REQ	ca_CompressedModeDPCH_Info_REQ (tsc_CellA, tsc_UL_DPCH1, tcv_ActTime, c_DPCHInfo_UL (cb_UL_DPCH_Info (tsc_UL_DPDCH_SF_Streaming, pl0_96, tcv_CellInfoA.uL_ScramblingCode)))		
? CPHY_RL_Modify_CNF	ca_CompressedModeInfoCNF (tsc_CellA, tsc_UL_DPCH1)		
RRC_ReceivePhyChReconfCmpl tcv_RRC_RAB_Type)			
AB_Type = PS_RAB_SRB]			
M_DATA_REQ	cas_PhyChReconf (tsc_CellDedicated, tsc_RB2, cs_PhyChReconf_DCH_ToDCH_NoTFCI (tcv_CellIndInfo.dl_IntegrityCheckInfo, tcv_RRC_Ti, tcv_ActTime , tcv_CellInfoA.frequencyInfo, c_DL_CommonInformation_DCH_ToDCH_InterFreqMeas_ULCompMode (tsc_DL_DPCH1_SFP_64k_PS, 1, tcv_TGCFN, fdd_Measurement, OMIT,OMIT, p_DL_FrameType) , c_DL_InformationPerRL (tcv_CellInfoA.priScrmCode, tsc_DL_DPCH1_ChC_64k_PS , tsc_SecScrmbCode5) , tsc_UL_DPDCH_SF_64k_PS , pl0_96, tcv_CellInfoA.uL_ScramblingCode))		
PHY_RL_Modify_REQ	ca_CompressedModeDPCH_Info_REQ (tsc_CellA, tsc_DL_DPCH1, tcv_ActTime, c_DPCHInfo_DL (c_DL_DPCHInfo (		

	c_DL_CommonInformation_DCH_ToDCH_InterFreqMeas_ULCompMode (tsc_DL_DPCH1_SFP_64k_PS, 1, tcv_TGCFN, fdd_Measurement,OMIT,OMIT, p_DL_FrameType) , c_DL_DPCH_InfoPerRadioLink (tsc_SecScrmbCode5, tsc_DL_DPCH1_ChC_64k_PS))))		
CPHY_RL_Modify_CNF	ca_CompressedModeInfoCNF (tsc_CellA, tsc_DL_DPCH1)		
CPHY_RL_Modify_REQ	ca_CompressedModeDPCH_Info_REQ (tsc_CellA, tsc_UL_DPCH1, tcv_ActTime, c_DPCHInfo_UL (cb_UL_DPCH_Info (tsc_UL_DPDCH_SF_64k_PS , pl0_96, tcv_CellInfoA.uL_ScramblingCode)))		
? CPHY_RL_Modify_CNF	ca_CompressedModeInfoCNF (tsc_CellA, tsc_UL_DPCH1)		
RRC_ReceivePhyChReconfCmpl tcv_RRC_RAB_Type)			
q_DL_CompressedModeRequired			
RAB_Type = cell_DCH_Speech]			
AM_DATA_REQ	cas_PhyChReconf (tsc_CellDedicated, tsc_RB2, cs_PhyChReconf_DCH_ToDCH_NoTFCI (tcv_CellIndInfo.dl_IntegrityCheckInfo, tcv_RRC_Ti, tcv_ActTime , tcv_CellInfoD.frequencyInfo, c_DL_CommonInformation_DCH_ToDCH_InterFreqMeas_DLCompMode (tsc_DL_DPCH1_SFP_Speech, 1, tcv_TGCFN, fdd_Measurement, OMIT,OMIT, p_DL_FrameType) , c_DL_InformationPerRL (tcv_CellInfoA.priScrmCode, tsc_DL_DPCH1_ChC_Speech , tsc_SecScrmbCode5) , tsc_UL_DPDCH_SF_Speech , pl0_84, tcv_CellInfoA.uL_ScramblingCode))		
PHY_RL_Modify_REQ	ca_CompressedModeDPCH_Info_REQ (tsc_CellA, tsc_DL_DPCH1, tcv_ActTime, c_DPCHInfo_DL (c_DL_DPCHInfo (c_DL_CommonInformation_DCH_ToDCH_InterFreqMeas_DLCompMode (tsc_DL_DPCH1_SFP_Speech, 1, tcv_TGCFN, fdd_Measurement, OMIT, OMIT, p_DL_FrameType) , c_DL_DPCH_InfoPerRadioLink (tsc_SecScrmbCode5, tsc_DL_DPCH1_ChC_Speech))))		
CPHY_RL_Modify_CNF	ca_CompressedModeInfoCNF (tsc_CellA, tsc_DL_DPCH1)		
CPHY_RL_Modify_REQ	ca_CompressedModeDPCH_Info_REQ (tsc_CellA, tsc_UL_DPCH1, tcv_ActTime, c_DPCHInfo_UL (cb_UL_DPCH_Info (tsc_UL_DPDCH_SF_Speech , pl1, tcv_CellInfoA.uL_ScramblingCode)))		
? CPHY_RL_Modify_CNF	ca_CompressedModeInfoCNF (tsc_CellA, tsc_UL_DPCH1)		
RRC_ReceivePhyChReconfCmpl tcv_RRC_RAB_Type)			
RAB_Type = CS_RAB_SRB]			
AM_DATA_REQ	cas_PhyChReconf (tsc_CellDedicated, tsc_RB2, cs_PhyChReconf_DCH_ToDCH_NoTFCI (tcv_CellIndInfo.dl_IntegrityCheckInfo, tcv_RRC_Ti,		cbs_ (

	tcv_ActTime , tcv_CellInfoA.frequencyInfo, c_DL_CommonInformation_DCH_ToDCH_InterFreqMeas_DLCompMode (tsc_DL_DPCH1_SFP_64k_CS, 1, tcv_TGCFN, fdd_Measurement,OMIT,OMIT, p_DL_FrameType) , c_DL_InformationPerRL (tcv_CellInfoA.priScrmCode, tsc_DL_DPCH1_ChC_64k_CS , tsc_SecScrmbCode5) , tsc_UL_DPDCH_SF_64k_CS, pl0_88, tcv_CellInfoA.uL_ScramblingCode))		
PHY_RL_Modify_REQ	ca_CompressedModeDPCH_Info_REQ (tsc_CellA, tsc_DL_DPCH1, tcv_ActTime, c_DPCHInfo_DL (c_DL_DPCHInfo (c_DL_CommonInformation_DCH_ToDCH_InterFreqMeas_DLCompMode (tsc_DL_DPCH1_SFP_64k_CS, 1, tcv_TGCFN, fdd_Measurement, OMIT,OMIT, p_DL_FrameType) , c_DL_DPCH_InfoPerRadioLink (tsc_SecScrmbCode5, tsc_DL_DPCH1_ChC_64k_CS))))		
CPHY_RL_Modify_CNF	ca_CompressedModeInfoCNF (tsc_CellA, tsc_DL_DPCH1)		
CPHY_RL_Modify_REQ	ca_CompressedModeDPCH_Info_REQ (tsc_CellA, tsc_UL_DPCH1, tcv_ActTime, c_DPCHInfo_UL (cb_UL_DPCH_Info (tsc_UL_DPDCH_SF_64k_CS, pl0_88, tcv_CellInfoA.uL_ScramblingCode)))		
? CPHY_RL_Modify_CNF	ca_CompressedModeInfoCNF (tsc_CellA, tsc_UL_DPCH1)		
RRC_ReceivePhyChReconfCmpl tcv_RRC_RAB_Type)			
AB_Type = 6kCS_RAB_SRB]			
AM_DATA_REQ	cas_PhyChReconf (tsc_CellDedicated, tsc_RB2, cs_PhyChReconf_DCH_ToDCH_NoTFCI (tcv_CellIndInfo.dl_IntegrityCheckInfo, tcv_RRC_Ti, tcv_ActTime , tcv_CellInfoA.frequencyInfo, c_DL_CommonInformation_DCH_ToDCH_InterFreqMeas_DLCompMode (tsc_DL_DPCH1_SFP_Streaming, 1, tcv_TGCFN, fdd_Measurement, OMIT,OMIT, p_DL_FrameType) , c_DL_InformationPerRL (tcv_CellInfoA.priScrmCode, tsc_DL_DPCH1_ChC_Streaming , tsc_SecScrmbCode5) , tsc_UL_DPDCH_SF_Streaming, pl0_96, tcv_CellInfoA.uL_ScramblingCode))		
PHY_RL_Modify_REQ	ca_CompressedModeDPCH_Info_REQ (tsc_CellA, tsc_DL_DPCH1, tcv_ActTime, c_DPCHInfo_DL (c_DL_DPCHInfo (c_DL_CommonInformation_DCH_ToDCH_InterFreqMeas_DLCompMode (tsc_DL_DPCH1_SFP_Streaming, 1, tcv_TGCFN, fdd_Measurement, OMIT,OMIT, p_DL_FrameType), c_DL_DPCH_InfoPerRadioLink (tsc_SecScrmbCode5, tsc_DL_DPCH1_ChC_Streaming))))		
CPHY_RL_Modify_CNF	ca_CompressedModeInfoCNF (tsc_CellA, tsc_DL_DPCH1)		
CPHY_RL_Modify_REQ	ca_CompressedModeDPCH_Info_REQ (tsc_CellA, tsc_UL_DPCH1, tcv_ActTime, c_DPCHInfo_UL (cb_UL_DPCH_Info (tsc_UL_DPDCH_SF_Streaming, pl0_96, tcv_CellInfoA.uL_ScramblingCode)))		
? CPHY_RL_Modify_CNF	ca_CompressedModeInfoCNF (tsc_CellA, tsc_UL_DPCH1)		

RRC_ReceivePhyChReconfCmpl tcv_RRC_RAB_Type)			
AB_Type = PS_RAB_SRB]			
M_DATA_REQ	cas_PhyChReconf (tsc_CellDedicated, tsc_RB2, cs_PhyChReconf_DCH_ToDCH_NoTFCI (tcv_CellIndInfo.dl_IntegrityCheckInfo, tcv_RRC_Ti, tcv_ActTime , tcv_CellInfoA.frequencyInfo, c_DL_CommonInformation_DCH_ToDCH_InterFreqMeas_DLCompMode (tsc_DL_DPCH1_SFP_64k_PS, 1, tcv_TGCFN, fdd_Measurement, OMIT,OMIT,p_DL_FrameType) , c_DL_InformationPerRL (tcv_CellInfoA.priScrmCode, tsc_DL_DPCH1_ChC_64k_PS , tsc_SecScrmbCode5) , tsc_UL_DPDCH_SF_64k_PS , pl0_96, tcv_CellInfoA.uL_ScramblingCode))		
PHY_RL_Modify_REQ	ca_CompressedModeDPCH_Info_REQ (tsc_CellA, tsc_DL_DPCH1, tcv_ActTime, c_DPCHInfo_DL (c_DL_DPCHInfo (c_DL_CommonInformation_DCH_ToDCH_InterFreqMeas_DLCompMode (tsc_DL_DPCH1_SFP_64k_PS, 1, tcv_TGCFN, fdd_Measurement, OMIT,OMIT, p_DL_FrameType) , c_DL_DPCH_InfoPerRadioLink (tsc_SecScrmbCode5, tsc_DL_DPCH1_ChC_64k_PS))))		
CPHY_RL_Modify_CNF	ca_CompressedModeInfoCNF (tsc_CellA, tsc_DL_DPCH1)		
CPHY_RL_Modify_REQ	ca_CompressedModeDPCH_Info_REQ (tsc_CellA, tsc_UL_DPCH1, tcv_ActTime, c_DPCHInfo_UL (cb_UL_DPCH_Info (tsc_UL_DPDCH_SF_64k_PS , pl0_96, tcv_CellInfoA.uL_ScramblingCode)))		
? CPHY_RL_Modify_CNF	ca_CompressedModeInfoCNF (tsc_CellA, tsc_UL_DPCH1)		
RRC_ReceivePhyChReconfCmpl tcv_RRC_RAB_Type)			
_DL_CompressedModeRequired _UL_CompressedModeRequired			

CR-Form-v7

CHANGE REQUEST

| ⌘ | ~~RRC~~ ~~ATS~~TS34.123-3 | CR | 391 | ⌘rev | **1**~~1~~ | ⌘ | Current version: | 3.6.0 | ⌘ |

*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:	⌘	Revision CR to introduce GCF P3 Test Case 8.4.1.25 to ATS v3.6.0
Source:	⌘	Anritsu Ltd
Work item code: ⌘	N/A	***Date:*** ⌘ 18/08/2004
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 8.4.1.25 to ATS 3.6.0
Summary of change: ⌘	1 table modified.	
Consequences if not approved:	⌘	Test case will not be introduced.

Clauses affected:	⌘	N/A

	Y	N		
Other specs affected: ⌘		X	Other core specifications	⌘
		X	Test specifications	
		X	O&M Specifications	

Other comments:	⌘	This is a revision for T1s040356

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.

Anritsu
ANRITSU LIMITED

TSG-T W~~orking~~ ~~Group~~ 1 ~~SWG~~ ~~SIG~~ E-Mail 2004

T1S-
040483~~2(8.1.1.~~
~~8)~~

01 Jan - 31 Dec 2004

Title	Revision CR to introduce GCF P3 Test Case 8.4.1.25 to 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

This document details the changes required. 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 and PS

2   Tables added to iWD-TVB2003-03_D04wk31

None

3   Tables Modifed to iWD-TVB2003-03_D04wk31

3.1   ts_PhyChannelReconfig_NoTFCI

Reason for change:

 In line 4, the cell ID used for the frequencyInfo IE is incorrect.

Changes made:

Line 4, changed Cell ID used for frequencyInfo IE from D to A.

Test Step
ts_PhyChannelReconfig_NoTFCI (p_DL_FrameType: DL_FrameType)
DPCH_CompressedModeModeSpecific/

RRC_Def1
@SIC_NAPP

aviour Description	Constraint Ref	Verdict	
eActTime (tsc_CellA)			
q_DL_CompressedModeRequired q_UL_CompressedModeRequired			
RAB_Type = cell_DCH_Speech]			
AM_DATA_REQ	cas_PhyChReconf (tsc_CellDedicated, tsc_RB2, cs_PhyChReconf_DCH_ToDCH_NoTFCI (tcv_CellIndInfo.dl_IntegrityCheckInfo, tcv_RRC_Ti, tcv_ActTime , tcv_CellInfoD.frequencyInfo, tcv_CellInfoA.frequencyInfo, c_DL_CommonInformation_DCH_ToDCH_InterFreqMeas_UL_DLCompMode (tsc_DL_DPCH1_SFP_Speech, 1, tcv_TGCFN, fdd_Measurement, OMIT, OMIT, p_DL_FrameType) , c_DL_InformationPerRL (tcv_CellInfoA.priScrmCode, tsc_DL_DPCH1_ChC_Speech , tsc_SecScrmbCode5) , tsc_UL_DPDCH_SF_Speech , pl0_84, tcv_CellInfoA.uL_ScramblingCode))		
PHY_RL_Modify_REQ	ca_CompressedModeDPCH_Info_REQ (tsc_CellA, tsc_DL_DPCH1, tcv_ActTime, c_DPCHInfo_DL (c_DL_DPCHInfo (		

	c_DL_CommonInformation_DCH_ToDCH_InterFreqMeas_UL_DLCompMode (tsc_DL_DPCH1_SFP_Speech, 1, tcv_TGCFN, fdd_Measurement, OMIT, OMIT, p_DL_FrameType) , c_DL_DPCH_InfoPerRadioLink (tsc_SecScrmbCode5, tsc_DL_DPCH1_ChC_Speech))))		
CPHY_RL_Modify_CNF	ca_CompressedModeInfoCNF (tsc_CellA, tsc_DL_DPCH1)		
CPHY_RL_Modify_REQ	ca_CompressedModeDPCH_Info_REQ (tsc_CellA, tsc_UL_DPCH1, tcv_ActTime, c_DPCHInfo_UL (cb_UL_DPCH_Info (tsc_UL_DPDCH_SF_Speech , pl0_84, tcv_CellInfoA.uL_ScramblingCode)))		
? CPHY_RL_Modify_CNF	ca_CompressedModeInfoCNF (tsc_CellA, tsc_UL_DPCH1)		
RRC_ReceivePhyChReconfCmpl tcv_RRC_RAB_Type)			
RAB_Type = CS_RAB_SRB]			
AM_DATA_REQ	cas_PhyChReconf (tsc_CellDedicated, tsc_RB2, cs_PhyChReconf_DCH_ToDCH_NoTFCI (tcv_CellIndInfo.dl_IntegrityCheckInfo, tcv_RRC_Ti, tcv_ActTime , tcv_CellInfoA.frequencyInfo, c_DL_CommonInformation_DCH_ToDCH_InterFreqMeas_UL_DLCompMode (tsc_DL_DPCH1_SFP_64k_CS, 1, tcv_TGCFN, fdd_Measurement, OMIT, OMIT, p_DL_FrameType) , c_DL_InformationPerRL (tcv_CellInfoA.priScrmCode, tsc_DL_DPCH1_ChC_64k_CS , tsc_SecScrmbCode5) , tsc_UL_DPDCH_SF_64k_CS, pl0_88, tcv_CellInfoA.uL_ScramblingCode))		
PHY_RL_Modify_REQ	ca_CompressedModeDPCH_Info_REQ (tsc_CellA, tsc_DL_DPCH1, tcv_ActTime, c_DPCHInfo_DL (c_DL_DPCHInfo (c_DL_CommonInformation_DCH_ToDCH_InterFreqMeas_UL_DLCompMode (tsc_DL_DPCH1_SFP_64k_CS, 1, tcv_TGCFN, fdd_Measurement, OMIT,OMIT, p_DL_FrameType) , c_DL_DPCH_InfoPerRadioLink (tsc_SecScrmbCode5, tsc_DL_DPCH1_ChC_64k_CS))))		
CPHY_RL_Modify_CNF	ca_CompressedModeInfoCNF (tsc_CellA, tsc_DL_DPCH1)		
CPHY_RL_Modify_REQ	ca_CompressedModeDPCH_Info_REQ (tsc_CellA, tsc_UL_DPCH1, tcv_ActTime, c_DPCHInfo_UL (cb_UL_DPCH_Info (tsc_UL_DPDCH_SF_64k_CS, pl0_88, tcv_CellInfoA.uL_ScramblingCode)))		
? CPHY_RL_Modify_CNF	ca_CompressedModeInfoCNF (tsc_CellA, tsc_UL_DPCH1)		
RRC_ReceivePhyChReconfCmpl tcv_RRC_RAB_Type)			
AB_Type = 6kCS_RAB_SRB]			
AM_DATA_REQ	cas_PhyChReconf (tsc_CellDedicated, tsc_RB2, cs_PhyChReconf_DCH_ToDCH_NoTFCI (tcv_CellIndInfo.dl_IntegrityCheckInfo, tcv_RRC_Ti, tcv_ActTime , tcv_CellInfoA.frequencyInfo, c_DL_CommonInformation_DCH_ToDCH_InterFreqMeas_UL_DLCompMode (tsc_DL_DPCH1_SFP_Streaming, 1, tcv_TGCFN, fdd_Measurement,		

	OMIT, OMIT, p_DL_FrameType) , c_DL_InformationPerRL (tcv_CellInfoA.priScrmCode, tsc_DL_DPCH1_ChC_Streaming, tsc_SecScrmbCode5) , tsc_UL_DPDCH_SF_Streaming, pl0_96, tcv_CellInfoA.uL_ScramblingCode))		
PHY_RL_Modify_REQ	ca_CompressedModeDPCH_Info_REQ (tsc_CellA, tsc_DL_DPCH1, tcv_ActTime, c_DPCHInfo_DL (c_DL_DPCHInfo (c_DL_CommonInformation_DCH_ToDCH_InterFreqMeas_UL_DLCompMode (tsc_DL_DPCH1_SFP_Streaming, 1, tcv_TGCFN, fdd_Measurement,OMIT,OMIT, p_DL_FrameType), c_DL_DPCH_InfoPerRadioLink (tsc_SecScrmbCode5, tsc_DL_DPCH1_ChC_Streaming))))		
CPHY_RL_Modify_CNF	ca_CompressedModeInfoCNF (tsc_CellA, tsc_DL_DPCH1)		
CPHY_RL_Modify_REQ	ca_CompressedModeDPCH_Info_REQ (tsc_CellA, tsc_UL_DPCH1, tcv_ActTime, c_DPCHInfo_UL (cb_UL_DPCH_Info (tsc_UL_DPDCH_SF_Streaming, pl0_96, tcv_CellInfoA.uL_ScramblingCode)))		
? CPHY_RL_Modify_CNF	ca_CompressedModeInfoCNF (tsc_CellA, tsc_UL_DPCH1)		
RRC_ReceivePhyChReconfCmpl (tcv_RRC_RAB_Type)			
AB_Type = PS_RAB_SRB]			
M_DATA_REQ	cas_PhyChReconf (tsc_CellDedicated, tsc_RB2, cs_PhyChReconf_DCH_ToDCH_NoTFCI (tcv_CellIndInfo.dl_IntegrityCheckInfo, tcv_RRC_Ti, tcv_ActTime , tcv_CellInfoA.frequencyInfo, c_DL_CommonInformation_DCH_ToDCH_InterFreqMeas_UL_DLCompMode (tsc_DL_DPCH1_SFP_64k_PS, 1, tcv_TGCFN, fdd_Measurement, OMIT,OMIT, p_DL_FrameType) , c_DL_InformationPerRL (tcv_CellInfoA.priScrmCode, tsc_DL_DPCH1_ChC_64k_PS , tsc_SecScrmbCode5) , tsc_UL_DPDCH_SF_64k_PS , pl0_96, tcv_CellInfoA.uL_ScramblingCode))		
PHY_RL_Modify_REQ	ca_CompressedModeDPCH_Info_REQ (tsc_CellA, tsc_DL_DPCH1, tcv_ActTime, c_DPCHInfo_DL (c_DL_DPCHInfo (c_DL_CommonInformation_DCH_ToDCH_InterFreqMeas_UL_DLCompMode (tsc_DL_DPCH1_SFP_64k_PS, 1, tcv_TGCFN, fdd_Measurement, OMIT,OMIT, p_DL_FrameType) , c_DL_DPCH_InfoPerRadioLink (tsc_SecScrmbCode5, tsc_DL_DPCH1_ChC_64k_PS))))		
CPHY_RL_Modify_CNF	ca_CompressedModeInfoCNF (tsc_CellA, tsc_DL_DPCH1)		
CPHY_RL_Modify_REQ	ca_CompressedModeDPCH_Info_REQ (tsc_CellA, tsc_UL_DPCH1, tcv_ActTime, c_DPCHInfo_UL (cb_UL_DPCH_Info (tsc_UL_DPDCH_SF_64k_PS , pl0_96, tcv_CellInfoA.uL_ScramblingCode)))		
? CPHY_RL_Modify_CNF	ca_CompressedModeInfoCNF (tsc_CellA, tsc_UL_DPCH1)		
RRC_ReceivePhyChReconfCmpl (tcv_RRC_RAB_Type)			
q_UL_CompressedModeRequired			

RAB_Type = cell_DCH_Speech]			
AM_DATA_REQ	cas_PhyChReconf (tsc_CellDedicated, tsc_RB2, cs_PhyChReconf_DCH_ToDCH_NoTFCI (tcv_CellIndInfo.dl_IntegrityCheckInfo, tcv_RRC_Ti, tcv_ActTime , tcv_CellInfoD.frequencyInfo, c_DL_CommonInformation_DCH_ToDCH_InterFreqMeas_ULCompMode (tsc_DL_DPCH1_SFP_Speech, 1, tcv_TGCFN, fdd_Measurement, OMIT,OMIT, p_DL_FrameType) , c_DL_InformationPerRL (tcv_CellInfoA.priScrmCode, tsc_DL_DPCH1_ChC_Speech , tsc_SecScrmbCode5) , tsc_UL_DPDCH_SF_Speech , pl0_84, tcv_CellInfoA.uL_ScramblingCode))		
PHY_RL_Modify_REQ	ca_CompressedModeDPCH_Info_REQ (tsc_CellA, tsc_DL_DPCH1, tcv_ActTime, c_DPCHInfo_DL (c_DL_DPCHInfo (c_DL_CommonInformation_DCH_ToDCH_InterFreqMeas_ULCompMode (tsc_DL_DPCH1_SFP_Speech, 1, tcv_TGCFN, fdd_Measurement, OMIT,OMIT, p_DL_FrameType) , c_DL_DPCH_InfoPerRadioLink (tsc_SecScrmbCode5, tsc_DL_DPCH1_ChC_Speech))))		
CPHY_RL_Modify_CNF	ca_CompressedModeInfoCNF (tsc_CellA, tsc_DL_DPCH1)		
CPHY_RL_Modify_REQ	ca_CompressedModeDPCH_Info_REQ (tsc_CellA, tsc_UL_DPCH1, tcv_ActTime, c_DPCHInfo_UL (cb_UL_DPCH_Info (tsc_UL_DPDCH_SF_Speech , pl0_84, tcv_CellInfoA.uL_ScramblingCode)))		
? CPHY_RL_Modify_CNF	ca_CompressedModeInfoCNF (tsc_CellA, tsc_UL_DPCH1)		
RRC_ReceivePhyChReconfCmpl tcv_RRC_RAB_Type)			
RAB_Type = CS_RAB_SRB]			
AM_DATA_REQ	cas_PhyChReconf (tsc_CellDedicated, tsc_RB2, cs_PhyChReconf_DCH_ToDCH_NoTFCI (tcv_CellIndInfo.dl_IntegrityCheckInfo, tcv_RRC_Ti, tcv_ActTime , tcv_CellInfoA.frequencyInfo, c_DL_CommonInformation_DCH_ToDCH_InterFreqMeas_ULCompMode (tsc_DL_DPCH1_SFP_64k_CS, 1, tcv_TGCFN, fdd_Measurement, OMIT,OMIT,p_DL_FrameType) , c_DL_InformationPerRL (tcv_CellInfoA.priScrmCode, tsc_DL_DPCH1_ChC_64k_CS , tsc_SecScrmbCode5) , tsc_UL_DPDCH_SF_64k_CS, pl0_88, tcv_CellInfoA.uL_ScramblingCode))		
PHY_RL_Modify_REQ	ca_CompressedModeDPCH_Info_REQ (tsc_CellA, tsc_DL_DPCH1, tcv_ActTime, c_DPCHInfo_DL (c_DL_DPCHInfo (c_DL_CommonInformation_DCH_ToDCH_InterFreqMeas_ULCompMode (tsc_DL_DPCH1_SFP_64k_CS, 1, tcv_TGCFN, fdd_Measurement,OMIT,OMIT, p_DL_FrameType) , c_DL_DPCH_InfoPerRadioLink (tsc_SecScrmbCode5, tsc_DL_DPCH1_ChC_64k_CS))))		
CPHY_RL_Modify_CNF	ca_CompressedModeInfoCNF (tsc_CellA, tsc_DL_DPCH1)		
CPHY_RL_Modify_REQ	ca_CompressedModeDPCH_Info_REQ (tsc_CellA, tsc_UL_DPCH1, tcv_ActTime,		

	c_DPCHInfo_UL (cb_UL_DPCH_Info (tsc_UL_DPDCH_SF_64k_CS, pl0_88, tcv_CellInfoA.uL_ScramblingCode)))		
? CPHY_RL_Modify_CNF	ca_CompressedModeInfoCNF (tsc_CellA, tsc_UL_DPCH1)		
RRC_ReceivePhyChReconfCmpl tcv_RRC_RAB_Type)			
AB_Type = 6kCS_RAB_SRB]			
AM_DATA_REQ	cas_PhyChReconf (tsc_CellDedicated, tsc_RB2, cs_PhyChReconf_DCH_ToDCH_NoTFCI (tcv_CellIndInfo.dl_IntegrityCheckInfo, tcv_RRC_Ti, tcv_ActTime , tcv_CellInfoA.frequencyInfo, c_DL_CommonInformation_DCH_ToDCH_InterFreqMeas_ULCompMode (tsc_DL_DPCH1_SFP_Streaming, 1, tcv_TGCFN, fdd_Measurement, OMIT,OMIT, p_DL_FrameType) , c_DL_InformationPerRL (tcv_CellInfoA.priScrmCode, tsc_DL_DPCH1_ChC_Streaming, tsc_SecScrmbCode5) , tsc_UL_DPDCH_SF_Streaming, pl0_96, tcv_CellInfoA.uL_ScramblingCode))		
PHY_RL_Modify_REQ	ca_CompressedModeDPCH_Info_REQ (tsc_CellA, tsc_DL_DPCH1, tcv_ActTime, c_DPCHInfo_DL (c_DL_DPCHInfo (c_DL_CommonInformation_DCH_ToDCH_InterFreqMeas_ULCompMode (tsc_DL_DPCH1_SFP_Streaming, 1, tcv_TGCFN, fdd_Measurement, OMIT,OMIT, p_DL_FrameType), c_DL_DPCH_InfoPerRadioLink (tsc_SecScrmbCode5, tsc_DL_DPCH1_ChC_Streaming))))		
CPHY_RL_Modify_CNF	ca_CompressedModeInfoCNF (tsc_CellA, tsc_DL_DPCH1)		
CPHY_RL_Modify_REQ	ca_CompressedModeDPCH_Info_REQ (tsc_CellA, tsc_UL_DPCH1, tcv_ActTime, c_DPCHInfo_UL (cb_UL_DPCH_Info (tsc_UL_DPDCH_SF_Streaming, pl0_96, tcv_CellInfoA.uL_ScramblingCode)))		
? CPHY_RL_Modify_CNF	ca_CompressedModeInfoCNF (tsc_CellA, tsc_UL_DPCH1)		
RRC_ReceivePhyChReconfCmpl tcv_RRC_RAB_Type)			
AB_Type = PS_RAB_SRB]			
M_DATA_REQ	cas_PhyChReconf (tsc_CellDedicated, tsc_RB2, cs_PhyChReconf_DCH_ToDCH_NoTFCI (tcv_CellIndInfo.dl_IntegrityCheckInfo, tcv_RRC_Ti, tcv_ActTime , tcv_CellInfoA.frequencyInfo, c_DL_CommonInformation_DCH_ToDCH_InterFreqMeas_ULCompMode (tsc_DL_DPCH1_SFP_64k_PS, 1, tcv_TGCFN, fdd_Measurement, OMIT,OMIT, p_DL_FrameType) , c_DL_InformationPerRL (tcv_CellInfoA.priScrmCode, tsc_DL_DPCH1_ChC_64k_PS , tsc_SecScrmbCode5) , tsc_UL_DPDCH_SF_64k_PS , pl0_96, tcv_CellInfoA.uL_ScramblingCode))		
PHY_RL_Modify_REQ	ca_CompressedModeDPCH_Info_REQ (tsc_CellA, tsc_DL_DPCH1, tcv_ActTime, c_DPCHInfo_DL (c_DL_DPCHInfo (		

	c_DL_CommonInformation_DCH_ToDCH_InterFreqMeas_ULCompMode (tsc_DL_DPCH1_SFP_64k_PS, 1, tcv_TGCFN, fdd_Measurement,OMIT,OMIT, p_DL_FrameType) , c_DL_DPCH_InfoPerRadioLink (tsc_SecScrmbCode5, tsc_DL_DPCH1_ChC_64k_PS))))		
CPHY_RL_Modify_CNF	ca_CompressedModeInfoCNF (tsc_CellA, tsc_DL_DPCH1)		
CPHY_RL_Modify_REQ	ca_CompressedModeDPCH_Info_REQ (tsc_CellA, tsc_UL_DPCH1, tcv_ActTime, c_DPCHInfo_UL (cb_UL_DPCH_Info (tsc_UL_DPDCH_SF_64k_PS , pl0_96, tcv_CellInfoA.uL_ScramblingCode)))		
? CPHY_RL_Modify_CNF	ca_CompressedModeInfoCNF (tsc_CellA, tsc_UL_DPCH1)		
RRC_ReceivePhyChReconfCmpl tcv_RRC_RAB_Type)			
q_DL_CompressedModeRequired			
RAB_Type = cell_DCH_Speech]			
AM_DATA_REQ	cas_PhyChReconf (tsc_CellDedicated, tsc_RB2, cs_PhyChReconf_DCH_ToDCH_NoTFCI (tcv_CellIndInfo.dl_IntegrityCheckInfo, tcv_RRC_Ti, tcv_ActTime , tcv_CellInfoD.frequencyInfo, c_DL_CommonInformation_DCH_ToDCH_InterFreqMeas_DLCompMode (tsc_DL_DPCH1_SFP_Speech, 1, tcv_TGCFN, fdd_Measurement, OMIT,OMIT, p_DL_FrameType) , c_DL_InformationPerRL (tcv_CellInfoA.priScrmCode, tsc_DL_DPCH1_ChC_Speech , tsc_SecScrmbCode5) , tsc_UL_DPDCH_SF_Speech , pl0_84, tcv_CellInfoA.uL_ScramblingCode))		
PHY_RL_Modify_REQ	ca_CompressedModeDPCH_Info_REQ (tsc_CellA, tsc_DL_DPCH1, tcv_ActTime, c_DPCHInfo_DL (c_DL_DPCHInfo (c_DL_CommonInformation_DCH_ToDCH_InterFreqMeas_DLCompMode (tsc_DL_DPCH1_SFP_Speech, 1, tcv_TGCFN, fdd_Measurement, OMIT, OMIT, p_DL_FrameType) , c_DL_DPCH_InfoPerRadioLink (tsc_SecScrmbCode5, tsc_DL_DPCH1_ChC_Speech))))		
CPHY_RL_Modify_CNF	ca_CompressedModeInfoCNF (tsc_CellA, tsc_DL_DPCH1)		
CPHY_RL_Modify_REQ	ca_CompressedModeDPCH_Info_REQ (tsc_CellA, tsc_UL_DPCH1, tcv_ActTime, c_DPCHInfo_UL (cb_UL_DPCH_Info (tsc_UL_DPDCH_SF_Speech , pl1, tcv_CellInfoA.uL_ScramblingCode)))		
? CPHY_RL_Modify_CNF	ca_CompressedModeInfoCNF (tsc_CellA, tsc_UL_DPCH1)		
RRC_ReceivePhyChReconfCmpl tcv_RRC_RAB_Type)			
RAB_Type = CS_RAB_SRB]			
AM_DATA_REQ	cas_PhyChReconf (tsc_CellDedicated, tsc_RB2, cs_PhyChReconf_DCH_ToDCH_NoTFCI (tcv_CellIndInfo.dl_IntegrityCheckInfo, tcv_RRC_Ti,		cbs_ (

	tcv_ActTime , tcv_CellInfoA.frequencyInfo, c_DL_CommonInformation_DCH_ToDCH_InterFreqMeas_DLCompMode (tsc_DL_DPCH1_SFP_64k_CS, 1, tcv_TGCFN, fdd_Measurement,OMIT,OMIT, p_DL_FrameType) , c_DL_InformationPerRL (tcv_CellInfoA.priScrmCode, tsc_DL_DPCH1_ChC_64k_CS , tsc_SecScrmbCode5) , tsc_UL_DPDCH_SF_64k_CS, pl0_88, tcv_CellInfoA.uL_ScramblingCode))		
PHY_RL_Modify_REQ	ca_CompressedModeDPCH_Info_REQ (tsc_CellA, tsc_DL_DPCH1, tcv_ActTime, c_DPCHInfo_DL (c_DL_DPCHInfo (c_DL_CommonInformation_DCH_ToDCH_InterFreqMeas_DLCompMode (tsc_DL_DPCH1_SFP_64k_CS, 1, tcv_TGCFN, fdd_Measurement, OMIT,OMIT, p_DL_FrameType) , c_DL_DPCH_InfoPerRadioLink (tsc_SecScrmbCode5, tsc_DL_DPCH1_ChC_64k_CS)))))		
CPHY_RL_Modify_CNF	ca_CompressedModeInfoCNF (tsc_CellA, tsc_DL_DPCH1)		
CPHY_RL_Modify_REQ	ca_CompressedModeDPCH_Info_REQ (tsc_CellA, tsc_UL_DPCH1, tcv_ActTime, c_DPCHInfo_UL (cb_UL_DPCH_Info (tsc_UL_DPDCH_SF_64k_CS, pl0_88, tcv_CellInfoA.uL_ScramblingCode)))		
? CPHY_RL_Modify_CNF	ca_CompressedModeInfoCNF (tsc_CellA, tsc_UL_DPCH1)		
RRC_ReceivePhyChReconfCmpl tcv_RRC_RAB_Type)			
AB_Type = 6kCS_RAB_SRB]			
AM_DATA_REQ	cas_PhyChReconf (tsc_CellDedicated, tsc_RB2, cs_PhyChReconf_DCH_ToDCH_NoTFCI (tcv_CellIndInfo.dl_IntegrityCheckInfo, tcv_RRC_Ti, tcv_ActTime , tcv_CellInfoA.frequencyInfo, c_DL_CommonInformation_DCH_ToDCH_InterFreqMeas_DLCompMode (tsc_DL_DPCH1_SFP_Streaming, 1, tcv_TGCFN, fdd_Measurement, OMIT,OMIT, p_DL_FrameType) , c_DL_InformationPerRL (tcv_CellInfoA.priScrmCode, tsc_DL_DPCH1_ChC_Streaming , tsc_SecScrmbCode5) , tsc_UL_DPDCH_SF_Streaming, pl0_96, tcv_CellInfoA.uL_ScramblingCode))		
PHY_RL_Modify_REQ	ca_CompressedModeDPCH_Info_REQ (tsc_CellA, tsc_DL_DPCH1, tcv_ActTime, c_DPCHInfo_DL (c_DL_DPCHInfo (c_DL_CommonInformation_DCH_ToDCH_InterFreqMeas_DLCompMode (tsc_DL_DPCH1_SFP_Streaming, 1, tcv_TGCFN, fdd_Measurement, OMIT,OMIT, p_DL_FrameType), c_DL_DPCH_InfoPerRadioLink (tsc_SecScrmbCode5, tsc_DL_DPCH1_ChC_Streaming))))		
CPHY_RL_Modify_CNF	ca_CompressedModeInfoCNF (tsc_CellA, tsc_DL_DPCH1)		
CPHY_RL_Modify_REQ	ca_CompressedModeDPCH_Info_REQ (tsc_CellA, tsc_UL_DPCH1, tcv_ActTime, c_DPCHInfo_UL (cb_UL_DPCH_Info (tsc_UL_DPDCH_SF_Streaming, pl0_96, tcv_CellInfoA.uL_ScramblingCode)))		
? CPHY_RL_Modify_CNF	ca_CompressedModeInfoCNF (tsc_CellA, tsc_UL_DPCH1)		

RRC_ReceivePhyChReconfCmpl tcv_RRC_RAB_Type)			
AB_Type = PS_RAB_SRB]			
M_DATA_REQ	cas_PhyChReconf (tsc_CellDedicated, tsc_RB2, cs_PhyChReconf_DCH_ToDCH_NoTFCI (tcv_CellIndInfo.dl_IntegrityCheckInfo, tcv_RRC_Ti, tcv_ActTime , tcv_CellInfoA.frequencyInfo, c_DL_CommonInformation_DCH_ToDCH_InterFreqMeas_DLCompMode (tsc_DL_DPCH1_SFP_64k_PS, 1, tcv_TGCFN, fdd_Measurement, OMIT,OMIT,p_DL_FrameType) , c_DL_InformationPerRL (tcv_CellInfoA.priScrmCode, tsc_DL_DPCH1_ChC_64k_PS , tsc_SecScrmbCode5) , tsc_UL_DPDCH_SF_64k_PS , pl0_96, tcv_CellInfoA.uL_ScramblingCode))		
PHY_RL_Modify_REQ	ca_CompressedModeDPCH_Info_REQ (tsc_CellA, tsc_DL_DPCH1, tcv_ActTime, c_DPCHInfo_DL (c_DL_DPCHInfo (c_DL_CommonInformation_DCH_ToDCH_InterFreqMeas_DLCompMode (tsc_DL_DPCH1_SFP_64k_PS, 1, tcv_TGCFN, fdd_Measurement, OMIT,OMIT, p_DL_FrameType) , c_DL_DPCH_InfoPerRadioLink (tsc_SecScrmbCode5, tsc_DL_DPCH1_ChC_64k_PS))))		
CPHY_RL_Modify_CNF	ca_CompressedModeInfoCNF (tsc_CellA, tsc_DL_DPCH1)		
CPHY_RL_Modify_REQ	ca_CompressedModeDPCH_Info_REQ (tsc_CellA, tsc_UL_DPCH1, tcv_ActTime, c_DPCHInfo_UL (cb_UL_DPCH_Info (tsc_UL_DPDCH_SF_64k_PS , pl0_96, tcv_CellInfoA.uL_ScramblingCode)))		
? CPHY_RL_Modify_CNF	ca_CompressedModeInfoCNF (tsc_CellA, tsc_UL_DPCH1)		
RRC_ReceivePhyChReconfCmpl tcv_RRC_RAB_Type)			
_DL_CompressedModeRequired _UL_CompressedModeRequired			

<div style="text-align:right">*CR-Form-v7*</div>

CHANGE REQUEST

⌘ **TS 34.123-3 CR** 392 ⌘**rev** - ⌘ Current version: **3.6.1** ⌘

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 9.4.7 to NAS ATS V3.6.0	
Source: ⌘	Rohde & Schwarz	
Work item code:⌘	N/A	***Date:*** ⌘ 24/08/2004
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 add verified GCF package 3 NAS test case 9.4.7 to the approved NAS ATS V3.6.0
Summary of change:⌘	This document lists all changes applied to test case 9.4.7 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: ⌘	Y	N	
		X	Other core specifications ⌘
		X	Test specifications
		X	O&M Specifications

Other comments: ⌘	This document is a revision of T1s040368. Clause 4.4.3 has been modified.

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.

3GPP TSG-T1 E-Mail 2004
01 Jan - 31 Dec 2004

Tdoc ⌘T1s040513

Title:	**Changes to test case 9.4.7 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 9.4.7 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

3 Verification Test Summary

Test Case:	TC_9_4_7
Test Group:	MM/ LocationUpdating / Accept_with_replacement_or_deletion_of_Equivalent_PLMN_list
ATS Version:	iWD-TVB2003-03_D04wk26 + essential modifications
System Simulator used:	Rohde & Schwarz 3G system simulator CRTU-W
UE used:	Nokia 7600 & Motorola A835
Verification Status:	PASS

4 Corrections required for test case 9.4.7

4.1 Introduction

This section describes the changes required to make test case 9.4.7 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 9.4.7:

   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_PSonly		
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/CS procedures.
11	+It_Detach_NMO_I		

4.3 c_EPLMN_List2 (WA#NAS4610)

Test step name c_EPLMN_List2

Reason for change Incorrect MNC ID used for PLMN 1 of test case 9.4.7

Summary of change Replaced "tsc_MNC_Def" with "tsc_MNC_010"

Source of change New change

Label WA#NAS4610

Constraint Name:	c_EPLMN_List2
Group:	
Type Name:	PLMN_List
Derivation Path:	
Encoding Variation:	
Comments:	

Element Name	Element Value	Type Encoding	Comments
iei	'01001010'B		
iei	'03'O		
plmn1	o_ConvtPLMN(tsc_MCC_Def, tsc_MNC_010)		PLMN 1 1. WA#NAS4610
plmn2	-		PLMN 2
plmn3	-		PLMN 3
plmn4	-		PLMN 4
plmn5	-		PLMN 5

4.4 tc_9_4_7

4.4.1 WA#NAS4600

Test step name tc_9_4_7

Reason for change Guard timer too short

Summary of change Increased timer from "8" to "10" minutes

		Behaviour Description	Constraint Ref		Comments
1		START t_Guard (10*60)			Test takes 7 minutes at least WA#NAS4600
2		+ts_InitVariables			
3		+ts_MM_SetNMO_II			Set the NMO for all cells to N MO II @SIC EW ER 1586 SIC @
4		(tcv_CN_Domain:= cs_domain, tcv_NumOfPLMN:=2)			Sets domain for testing and i nitializes the number of PLM Ns

4.4.2 WA#NAS4345

Test step name   tc_9_4_7

Reason for change   TTCN Error: IE "mcc" should be used, as "mnc" has already been assigned correctly

Summary of change   Corrected IE to be "tcv_CellInfoD.mcc:= tsc_MCC_022"

Source of change   New change

Label   WA#NAS4345

		Behaviour Description	Constraint Ref	Comments
2		+ts_InitVariables		
3		+ts_MM_SetNMO_II		Set the NMO for all cells to N MO II @SIC EW ER 1586 SIC @
4		(tcv_CN_Domain:= cs_domain, tcv_NumOfPLMN:=2)		Sets domain for testing and i nitializes the number of PLM Ns
5		(tcv_CellInfoD.attenuationLevel:=tsc_AttenuationSuitableNei ghbourCell, tcv_CellInfoD.mcc:= tsc_MCC_022, tcv_CellInfoD.mnc:= tsc_MNC_2, tcv_CellInfoD.lac:= tsc_LAC_2)		Set specific values for Cell D WA#NAS4345
6		+ts_MM_StartCellD		Start cell D
7		(tcv_CellInfoA.attenuationLevel:=tsc_AttenuationNonSuitabl eNeighbourCell, tcv_CellInfoA.mnc:=tsc_MNC_010)		Set specific values for Cell A
8		+ts_MM_StartCellA		Start neighbour cell A

4.4.3 WA#NAS4601

Test step name   tc_9_4_7

Reason for change   Because the CPICH Ec/No = -3 db (3.4 db) in cell A
Squal = Qqualmeas – Qqualmin = CPICH Ec/No - (-24) = -3 - (-24) = 21.
Sintersearch is set to 16 (8 x 2) in SIB3 and SIB4.

As Squal > Sintersearch, (21 > 16) the UE does not measure cell D, and therefore does not go to cell D.

We suggest to set Qqualmin to -16 in 9.4.7.
Therefore Squal will work out to be => -3 – (-16) = 13
As a result Squal < SIntersearch, (13 < 16) & the UE would reselect to Cell D.

Summary of change   Added local test step "lt_ChangeSIB3and4" with Qqualmin changed to -16, similar to test case from TC_9_4_2_3

Source of change   New change

Label   Formerly WA#NAS4601, now T1s040368

6	+ts_MM_StartCellD		Start cell D
7	(tcv_CellInfoA.attenuationLevel:=tsc_AttenuationNonSuitableNeighbourCell, tcv_CellInfoA.mnc:=tsc_MNC_010)		Set specific values for Cell A
8	+ts_MM_StartCellA		Start neighbour cell A
9	+lt_ChangeSIB3and4		@SIC EW T1x040368 SIC@ @SIC EW ER1955 SIC@
10	+ts_IdleUpdated(tsc_CellD)		Idle Updated on Cell D
11	+lt_SwitchOff		@SIC EW T1x040368 SIC@
12	(tcv_MM_TestExecution := TRUE)		MM test execution starting @SIC EW ER 1520 SIC @
13	+lt_Body		
14	+po_ConnectionAndSS_Rels		Release all resources
lt_Body			

lt_ChangeSIB3and4			
36	+ ts_UTRAN_GERAN_ParaInit(tsc_CellA)		@SIC EWT1x040368 SIC@
37	+ ts_CellDependentPara (tsc_CellA)		
38	(tcv_SIB3.cellSelectReselectInfo.modeSpecificInfo.fdd.q_QualMin := -18)		
39	(tcv_SIB4.cellSelectReselectInfo.modeSpecificInfo.fdd.q_QualMin := -18)		@SIC EWER1955 SIC@
40	+ ts_SysInfoModifySIB3_And4_RRC (tsc_CellA, tcv_SIB3, tcv_SIB4, tsc_Now)		
41	+ ts_UTRAN_GERAN_ParaInit(tsc_CellD)		
42	+ ts_CellDependentPara (tsc_CellD)		
43	(tcv_SIB3.cellSelectReselectInfo.modeSpecificInfo.fdd.q_QualMin := -18)		
44	(tcv_SIB4.cellSelectReselectInfo.modeSpecificInfo.fdd.q_QualMin := -18)		@SIC EWER1955 SIC@
45	+ ts_SysInfoModifySIB3_And4_RRC (tsc_CellD, tcv_SIB3, tcv_SIB4, tsc_Now)		

4.4.4 WA#NAS4602

Test step name	tc_9_4_7
Reason for change	According to the prose the UE shuld be Switched off at the beginning of the test body.
Summary of change	Added local test step "lt_SwitchOff" to handle CS & PS detach procedures
Source of change	New change
Label	WA#NAS4602

7	(tcv_CellInfoA.attenuationLevel:=tsc_AttenuationNonSuitableNeighbourCell, tcv_CellInfoA.mnc:=tsc_MNC_010)		Set specific values for Cell A
8	+ts_MM_StartCellA		Start neighbour cell A
9	+lt_ChangeSIB3		WA#NAS4601
10	+ts_IdleUpdated(tsc_CellD)		Idle Updated on Cell D
11	+lt_SwitchOff		WA#NAS4602
12	(tcv_MM_TestExecution := TRUE)		MM test execution starting @SIC EW ER 1520 SIC @
13	+lt_Body		
14	+po_ConnectionAndSS_Rels		Release all resources
lt_Body			

lt_SwitchOff			
46	[pc_PS]		WA#NAS4602
47	+ts_GMM_DetachOnSwitchOff(tsc_CellD)		
48	[pc_PS = FALSE]		
49	+ts_MM_IMSI_Detach(tsc_CellD, tsc_USIM_NeedRmv)		

4.4.5 WA#NAS4609

Test step name	tc_9_4_7
Reason for change	As GPRS services are not allowed in the test body, no RAU procedure will be performed by the UE
Summary of change	Removed all occurences of test steps "ts_GMM_PrepRAU" & "ts_GMM_RAU_Accept" in the test body
Source of change	New change

Label	WA#NAS4609

5   Branches executed in test case 9.4.7

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

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 9_4_7_Logs-Nokia-CS\Index.html**
  Execution log files 9_4_7_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 9_4_7-pics-pixit-Nokia-CS.html**
  HTML file containing all PICS/PIXIT parameters used for testing the CS mode
- **PICS/PIXIT file 9_4_7-pics-pixit-Nokia-PS.html**
  HTML file containing all PICS/PIXIT parameters used for testing the PS mode

6.2   Motorola A835

The Motorola A835 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 9_4_7_Logs-Motorola-CS\Index.html**
  Execution log files 9_4_7_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 9_4_7-pics-pixit-Motorola-CS.html**
  HTML file containing all PICS/PIXIT parameters used for testing the CS mode
- **PICS/PIXIT file 9_4_7-pics-pixit-Motorola-PS.html**
  HTML file containing all PICS/PIXIT parameters used for testing the PS mode

7   References

[1]   **T1s040369**
        This archive comprises HTML Execution log files, PICS/PIXIT files and the TTCN MP file