Source: **T1**

Title: **CR's to TS 34.123-2 v3.4.0 for approval**

Agenda item: **5.1.3**

Document for: **Approval**

This document contains 11 CRs to TS 34.123-2 v3.4.0. These CRs have been agreed by T1 and are put forward to TSG T for approval.

CR related to maintenance of R99:

Spec	CR	Rev	Release	Subject	Cat	Version Current	Version -New	Doc-2nd-Level	Work item
34.123-2	024		R99	Applicability for PDCP and BMC	F	3.4.0	3.5.0	T1-010380	
34.123-2	025		R99	Update on Mobility Management	F	3.4.0	3.5.0	T1-010327	
34.123-2	026		R99	Idle mode applicability: Merge of 202 and 204	F	3.4.0	3.5.0	T1-010328	
34.123-2	027		R99	Addition of a SM test case for UE in GSM	F	3.4.0	3.5.0	T1-010329	
34.123-2	028		R99	Update to GMM ICS	F	3.4.0	3.5.0	T1-010330	
34.123-2	029		R99	Update of applicability of radio bearer test cases	F	3.4.0	3.5.0	T1-010331	
34.123-2	030		R99	Update to SMS applicability	F	3.4.0	3.5.0	T1-010332	
34.123-2	032		R99	Editorial modification for References	D	3.4.0	3.5.0	T1-010334	

CR related to Rel-4:

Spec	CR	Rev	Release	Subject	Cat	Version Current	Version -New	Doc-2nd-Level	Work item
34.123-2	031		Rel-4	Update of Table of aplicability tests of RACH test cases in TS34.123-2 to 1.28 Mcps TDD mode (Rel4)	B	3.4.0	4.0.0	T1-010333	LCRTDD L2-3

CR for merging of R99 and Rel-4 specifications:

Spec	CR	Rev	Release	Subject	Cat	Version Current	Version -New	Doc-2nd-Level	Work item
34.123-2	033		Rel-4	Merging of Rel4 and R99 protocol test specifications	F	3.4.0	4.0.0	T1-010273	TEI

CR for inclusion of pointer to maintained version:

Spec	CR	Rev	Release	Subject	Cat	Version Current	Version -New	Doc-2nd-Level	Work item
34.123-2	034		R99	Inclusion of pointer to maintained specification	F	3.4.0	3.5.0	T1-010368	

3GPP TSG-T1 Meeting #12
Busan, Korea, 6-7 September 2001

Tdoc T1-010273

CR-Form-v4

CHANGE REQUEST

⌘ **34.123-2** **CR** **033** ⌘ ev **-** ⌘ Current version: **3.4.0** ⌘

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

Proposed change affects: ⌘ (U)SIM ☐ ME/UE ☒ Radio Access Network ☐ Core Network ☐

Title:	⌘	Merging of Rel4 and R99 protocol test specifications
Source:	⌘	T1
Work item code:	⌘	TEI
Date:	⌘	5/09/01
Category:	⌘	**F**
Release:	⌘	Rel-4

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)*

Reason for change:	⌘	T1 has just agreed the creation of Rel-4 of the protocol specifications in order to include test cases for Low Chip Rate TDD. Considering the fact that tests for new feautures are added as separate tests (from the already existing ones) and that normally, tests valid for a release remain valid for subsequent releases, T1 has agreed to create the new Rel-4 of 34.123 as a merged document with the R99 specification. This means that only the Release 4 (the latest release available) specification will be maintained and the R99 specification will be closed (no longer maintained) after the pointer to the maintained version has been included. The merged Rel-4 34.123-1 will contain all the test cases needed for testing R99 and Rel-4 terminals. The test cases relevant to each release will be easily identify by using the applicability table included in 34.123-2. This approach will reduce the huge effort necessary to maintain several parallel releases of a specification. Additionally, it will be easier for T1 to include additional frequency bands (realease independent) in the test specification.
Summary of change:	⌘	• Addition of references to Release 4 in the scope and references sections. • Addition of "Release" column in the applicability table and ICS tables to indicate the release from which the test case or feature is relevant. • Addition of new LCR RACH Rel-4 test cases in the applicability table • Replacement of Table A.1 "UE Implementation Types" for a new one called "UE Radio Technologies" including the new TDD LCR option of Rel-4. This new table simplifies the formal conditions in the applicability table. • Modification of formal conditions in the applicability table according to the new table A.1.
Consequences if not approved:	⌘	High effort for the maintenance of the specification, what will slow down the progress of the group

Clauses affected:	⌘	All		
Other specs affected:	⌘	☐ Other core specifications ☐ Test specifications ☐ O&M Specifications	⌘	
Other comments:	⌘			

How to create CRs using this form:
Comprehensive information and tips about how to create CRs can be found at: http://www.3gpp.org/3G_Specs/CRs.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 TS 34.123-2 ~~V3.4~~4.0.0 (2001-06)

Technical Specification

3rd Generation Partnership Project;
Technical Specification Group Terminal;
User Equipment (UE) conformance specification;
Part 2: Implementation Conformance Statement (ICS) proforma specification
(Release ~~1999~~4)

Keywords
ICS, Mobile, UE, Terminal, Testing, UMTS

3GPP

Postal address

3GPP support office address
650 Route des Lucioles - Sophia Antipolis
Valbonne - FRANCE
Tel.: +33 4 92 94 42 00 Fax: +33 4 93 65 47 16

Internet
http://www.3gpp.org

Contents

Foreword

This Technical Specification (TS) has been produced by the 3rd Generation Partnership Project (3GPP).

The contents of the present document are subject to continuing work within the TSG and may change following formal TSG approval. Should the TSG modify the contents of the present document, it will be re-released by the TSG with an identifying change of release date and an increase in version number as follows:

Version x.y.z

where:

- x the first digit:
  - 1 presented to TSG for information;
  - 2 presented to TSG for approval;
  - 3 or greater indicates TSG approved document under change control.
- y the second digit is incremented for all changes of substance, i.e. technical enhancements, corrections, updates, etc.
- z the third digit is incremented when editorial only changes have been incorporated in the document.

Introduction

To evaluate conformance of a particular implementation, it is necessary to have a statement of which capabilities and options have been implemented for a telecommunication specification. Such a statement is called an Implementation Conformance Statement (ICS).

1 Scope

The present document provides the Implementation Conformance Statement (ICS) proforma for 3rd Generation User Equipment (UE), in compliance with the relevant requirements, and in accordance with the relevant guidance given in ISO/IEC 9646-7 [2] and ETS 300 406 [3].

This document also specifies a recommended applicability statement for the test cases included in TS 34.123-1. These applicability statements are based on the features implemented in the UE.

Special conformance testing functions can be found in 3GPP TS 34.109 [45] and the common test environments are included in 3GPP TS 34.108 [44].

The present document is valid for UE implemented according to 3GPP Release 1999 or 3GPP Release 4.

2 References

The following documents contain provisions which, through reference in this text, constitute provisions of the present document.

- References are either specific (identified by date of publication, edition number, version number, etc.) or non-specific.
- For a specific reference, subsequent revisions do not apply.
- For a non-specific reference, the latest version applies. In the case of a reference to a 3GPP document (including a GSM document), a non-specific reference implicitly refers to the latest version of that document in the same Release as the present document.

  - For a Release 1999 UE, references to 3GPP documents are to version 3.x.y, when available.

  - For a Release 4 UE, references to 3GPP documents are to version 4.x.y, when available.

[1] ISO/IEC 9646-1: "Information technology - Open systems interconnection - Conformance testing methodology and framework - Part 1: General concepts".

[2] ISO/IEC 9646-7: "Information technology - Open systems interconnection - Conformance testing methodology and framework - Part 7: Implementation Conformance Statements".

[3] ETSI ETS 300 406 (January 1995): "Methods for testing and Specification (MTS); Protocol and profile conformance testing specifications; Standardization methodology".

[4] 3GPP TR 21.904: "Terminal Capability Requirements".

[5] 3GPP TS 22.002: "Bearer Services (BS) supported by a GSM; Public Land Mobile Network (PLMN)".

[6] 3GPP TS 22.003: "Circuit Teleservices supported by a Public Land Mobile Network (PLMN)".

[7] 3GPP TS 22.004: "General on Supplementary Services".

[8] 3GPP TS 22.042: "Network Identity and Timezone (NITZ); Service description, Stage 1".

[9] 3GPP TS 22.057: "Mobile Station Application Execution Environment (MExE); Stage 1".

[10] 3GPP TS 22.060: "General Packet Radio Service (GPRS); Stage 1".

[11] 3GPP TS 22.067: "Enhanced Multi-Level Precedence and Preemption Service (EMLPP) - Stage 2".

[12] 3GPP TS 22.071: "Location Services (LCS); Stage 1".

[13] 3GPP TS 22.072: "Call Deflection Service description - Stage 1".

[14] 3GPP TS 22.081: "Line identification Supplementary Services; Stage 1".

[15] 3GPP TS 22.082: "Call Forwarding (CF) supplementary services - Stage 1".

[16] 3GPP TS 22.083: "Call Waiting (CW) and Call Holding (HOLD); Supplementary Services - Stage 1".

[17] 3GPP TS 22.084: "MultiParty (MPTY) Supplementary Services - Stage 1".

[18] 3GPP TS 22.085: "Closed User Group (CUG) Supplementary Services - Stage 1".

[19] 3GPP TS 22.086: "Advice of Charge (AoC) Supplementary Services - Stage 1".

[20] 3GPP TS 22.087: "User-to-user signalling (UUS) - Stage 1".

[21] 3GPP TS 22.088: "Call Barring (CB) Supplementary Services - Stage 1".

[22] 3GPP TS 22.090: "Unstructured Supplementary Service Data (USSD) - Stage 1".

[23] 3GPP TS 22.091: "Explicit Call Transfer (ECT)".

[24] 3GPP TS 22.093: "Completion of Calls to Busy Subscriber (CCBS); Service description, Stage 1".

[25] 3GPP TS 22.094: "Follow Me - Stage 3".

[26] 3GPP TS 22.096: "Name identification supplementary services; Stage 1".

[27] 3GPP TS 22.097: "Multiple Subscriber Profile (MSP) Phase 1; Service description - Stage 1".

[28] 3GPP TS 22.105: "Services and Service Capabilities".

[29] 3GPP TS 24.008: "Mobile Radio Interface Layer 3 specification; Core Network Protocols - Stage 3".

[30] 3GPP TS 22.135: "Multicall Stage 2".

[31] 3GPP TS 23.107: "Quality of Service, Concept and Architecture".

[32] 3GPP TS 25.201: "Physical layer -General Description".

[33] 3GPP TS 25.101: "UE radio transmission and reception (FDD)".

[34] 3GPP TS 25.102: "UE radio transmission and reception (TDD)".

[34a] 3GPP TS 25.306: "UE Radio Access Capabilities".

[35] 3GPP TS 25.321: "Medium Access Control (MAC) Protocol Specification".

[36] 3GPP TS 25.322: "Radio Link Control (RLC) Protocol Specification".

[37] 3GPP TS 25.323: "Packet Data Convergence Protocol (PDCP) protocol".

[38] 3GPP TS 25.324: "Radio Interface for Broadcast/Multicast Services".

[39] 3GPP TS 25.331: "Radio Resource Control (RRC) Protocol Specification".

[40] Void

[41] 3GPP TS 26.071: "AMR speech Codec; General description".

[42] 3GPP TS 26.111: "Codec for Circuit switched Multimedia Telephony Service; Modifications to H.324"

[43] 3GPP TS 31.111: "USIM Application Toolkit (USAT)".

[44] 3GPP TS 34.108: "Common Test Environments for User Equipment (UE) Conformance Testing".

[45] 3GPP TS 34.109: "Logical Test Interface (TDD and FDD)".

[46] 3GPP TS 34.121: "Terminal Conformance Specification, Radio Transmission and Reception (FDD)".

[47] 3GPP TS 34.122: "Terminal Conformance Specification, Radio Transmission and Reception (FDD)".

[48] 3GPP TS 34.124: "Electro-Magnetic Compatibility (EMC) for Terminal equipment - stage 1".

[49] 3GPP TS 34.123-1: "User Equipment (UE) Conformance Specification, Part 1 - Conformance specification".

[50] 3GPP TS 34.123-3: "User Equipment (UE) Conformance Specification, Part 3 - Abstract Test Suite".

[51] 3GPP TS 22.001: " Principles of circuit telecommunication services supported by a Public Land Mobile Network (PLMN)".

3 Definitions and abbreviations

3.1 Definitions

For the purposes of the present document, the following terms and definitions apply:

- terms defined in the relevant 3GPP core specifications (see normative references);
- terms defined in ISO/IEC 9646-1 [1] and in ISO/IEC 9646-7 [2].

In particular, the following terms defined in ISO/IEC 9646-1 [1] apply:

Implementation Conformance Statement (ICS): statement made by the supplier of an implementation or system claimed to conform to a given specification, stating which capabilities have been implemented. The ICS can take several forms: protocol ICS, profile ICS, profile specific ICS, information object ICS, etc.

ICS proforma: document, in the form of a questionnaire, which when completed for an implementation or system becomes an ICS.

3.2 Abbreviations

For the purposes of the present document, the following abbreviations apply:

ICS	Implementation Conformance Statement
SCS	System Conformance Statement
UEUT	User Equipment Under Test

4 Recommended test case applicability

The applicability of each individual test is identified in the table 1. This is just a recommendation based on the purpose for which the test case was written.

The applicability of every test is formally expressed by the use of Boolean expression that are based on parameters (ICS) included in annex A of this specification.

The columns in Table 1 have the following meaning:

Clause

The clause column indicates the clause number in 34.123-1 that contains the test body.

Title

The title column describes the name of the test.

Release

The release column indicates the earliest release from which each testcase is applicable, except if otherwise stated of an individual test case.

Applicability

The following notations are used for the applicability column:

R	recommended - the test case is recommended
N/A	not applicable - in the given context, the test case is not recommended.
Ci	conditional - the test is recommended ("R") or not ("N/A") depending on the support of other items. "i" is an integer identifying an unique conditional status expression which is defined immediately following the table. For nested conditional expressions, the syntax "IF ... THEN (IF ... THEN ... ELSE...) ELSE ..." is used to avoid ambiguities.

Comments

This column contains a verbal description of the condition included in the applicability column.

Table 1: Applicability of tests

Clause	Title	Release	Applicability	Comments
IDLE MODE				
6.1.1.1	PLMN selection of RPLMN, HPLMN, UPLMN and OPLMN; Manual mode	R99	C104	UEs supporting FDD and PLMN selection
6.1.1.2	PLMN selection of "Other PLMN / access technology combinations"; Manual mode	R99	C104	UEs supporting FDD and PLMN selection
6.1.1.3	PLMN selection; independence of RF level and preferred PLMN; Manual mode	R99	C104	UEs supporting FDD and PLMN selection
6.1.1.4	PLMN selection of RPLMN, HPLMN, UPLMN and OPLMN; Automatic mode	R99	C104	UEs supporting FDD and PLMN selection
6.1.1.5	PLMN selection of "Other PLMN / access technology combinations"; Automatic mode	R99	C104	UEs supporting FDD and PLMN selection
6.1.1.6	UE will transmit only if PLMN available	R99	C106	UEs supporting FDD and speech and emergency speech call
6.1.2.1	Cell reselection	R99	C01	UEs supporting FDD
6.1.2.2	Cell reselection using Qhyst, Qoffset and Treselection	R99	C01	UEs supporting FDD
6.1.2.3	HCS cell reselection	R99	C01	UEs supporting FDD
6.1.2.4	HCS cell reselection using reselection timing parameters for the H criterion	R99	C01	UEs supporting FDD.
6.1.2.5	HCS Cell reselection using reselection timing parameters for the R criterion	R99	C01	UEs supporting FDD
6.1.2.6	Emergency calls	R99	C04	UEs supporting FDD and emergency speech call
6.2.1.1	Selection of the correct PLMN and associated RAT	R99	C105	UEs supporting FDD and GSM and PLMN selection
6.2.1.2	Selection of RAT for HPLMN; Manual mode	R99	C105	UEs supporting FDD and GSM and PLMN selection
6.2.1.3	Selection of RAT for UPLMN; Manual mode	R99	C105	UEs supporting FDD and GSM and PLMN selection
6.2.1.4	Selection of RAT for OPLMN; Manual mode	R99	C105	UEs supporting FDD and GSM and PLMN selection
6.2.1.5	Selection of "Other PLMN / access technology combinations"; Manual mode	R99	C105	UEs supporting FDD and GSM and PLMN selection
6.2.1.6	Selection of RAT for HPLMN; Automatic mode	R99	C105	UEs supporting FDD and GSM and PLMN selection
6.2.1.7	Selection of RAT for UPLMN; Automatic mode	R99	C105	UEs supporting FDD and GSM and PLMN selection
6.2.1.8	Selection of RAT for OPLMN; Automatic mode	R99	C105	UEs supporting FDD and GSM and PLMN selection
6.2.1.9	Selection of "Other PLMN / access technology combinations"; Automatic mode	R99	C105	UEs supporting FDD and GSM and PLMN selection
6.2.2.1	Cell reselection if cell becomes barred or S<0; UTRAN to GSM	R99	C05	UEs supporting FDD and GSM
6.2.2.2	Cell reselection if cell becomes barred or C1<0; GSM to; UTRAN	R99	C05	UEs supporting FDD and GSM
6.2.2.3	Cell reselection timings; GSM to UTRAN	R99	C05	UEs supporting FDD and GSM
LAYER 2				
7.1.1	Permission to access the network	R99	[FFS]	All UEs [FFS]
7.1.2.1.1	Selection and control of Power Level (FDD)	R99	~~R~~C01	~~All~~ UEs supporting FDD
7.1.2.1.2	Selection and control of Power Level (3.84 Mcps TDD option)	R99	[FFS]	[FFS]
7.1.2.1.3	Selection and control of Power Level (1.28 Mcps TDD option)	Rel-4	C03	UEs supporting 1.28 Mcps TDD (LCR TDD)
7.1.2.2.1	Correct application of Dynamic Persistence (FDD)	R99	~~R~~C01	~~All~~ UEs supporting FDD
7.1.2.2.2	Correct application of Dynamic Persistence (3.84 TDD Mcps option)	R99	[FFS]	[FFS]
7.1.2.2.3	Correct application of Dynamic Persistence (1.28 TDD Mcps option)	R99	C03	UEs supporting 1.28 Mcps TDD (LCR TDD)
7.1.2.3.1	Correct Selection of RACH parameters (FDD)	R99	~~R~~C01	~~All~~ UEs supporting FDD
7.1.2.3.2	Correct Selection of RACH parameters (3.84 Mcps TDD option)	R99	[FFS]	[FFS]
7.1.2.3.3	Correct Selection of RACH parameters (1.28 Mcps TDD option)	Rel-4	C01	UEs supporting 1.28 Mcps TDD (LCR TDD)
7.1.2.4	Correct Detection and Response to FPACH (1.28 Mcps TDD option)	Rel-4	C03	UEs supporting 1.28 Mcps TDD option (LCR TDD)
7.1.3	Dynamic Radio Bearer Control	R99	[FFS]	[FFS]
7.1.4	RACH/FACH transmission and retransmission	R99	[FFS]	[FFS]
7.1.5	MAC Access Control Function	R99	[FFS]	[FFS]

Clause	Title	Release	Applicability	Comments
7.1.7	Inband identification of UE on DSCH	R99	[FFS]	[FFS]
7.1.8	Mapping between logical channels and transport channels	R99		
7.1.8.1	CCCH mapped to RACH/FACH / Invalid TCTF	R99	R	All UEs
7.1.8.2	DTCH or DCCH mapped to RACH/FACH / Invalid TCTF	R99	R	All UEs
7.1.8.3	DTCH or DCCH mapped to RACH/FACH / Invalid C/T Field	R99	R	All UEs
7.1.8.4	DTCH or DCCH mapped to RACH/FACH / Invalid UE ID Type Field	R99	R	All UEs
7.1.8.5	DTCH or DCCH mapped to RACH/FACH / Incorrect UE ID	R99	R	All UEs
7.1.8.6	DTCH or DCCH mapped to DSCH or USCH	R99	[FFS]	UEs supporting DSCH and/or USCH
7.1.8.7	DTCH or DCCH mapped to CPCH	R99	[FFS]	UEs supporting CPCH
7.1.8.8	DTCH or DCCH mapped to DCH / Invalid C/T Field	R99	R	All Ues
7.1.9.1	Selection of Transport Format depending on instantaneous source rate	R99	[FFS]	[FFS]
7.1.10.1	Priority handling between data flows of one UE	R99	[FFS]	[FFS]
7.1.11.1	Ciphering	R99	[FFS]	[FFS]
7.1.12.1	Access Service class selection for RACH transmission	R99	[FFS]	[FFS]
7.1.12.2	Control of RACH transmissions for FDD mode	R99	[FFS]	[FFS]
7.1.13.1	Control of CPCH transmissions for FDD	R99	[FFS]	UEs supporting CPCH
7.2.1.1	RLC testing / Transparent mode / Segmentation and reassembly	R99	R	All UEs
7.2.2.2	UM RLC / Segmentation and reassembly / Selection of 7 or 15 bit Length Indicators	R99	R	All UEs
7.2.2.3	UM RLC / Segmentation / 7-bit Length Indicators / Padding	R99	R	All UEs
7.2.2.4	UM RLC / Segmentation / 7-bit Length Indicators / LI = 0	R99	R	All UEs
7.2.2.5	UM RLC / Segmentation / 7-bit Length Indicators / Invalid LI value	R99	R	All UEs
7.2.2.6	UM RLC / Segmentation / 7-bit Length Indicators / LI value > PDU	R99	R	All UEs
7.2.2.7	UM RLC / Segmentation / 7-bit Length Indicators / First data octet LI	R99	R	All UEs
7.2.2.8	UM RLC / Segmentation / 15-bit Length Indicators / Padding	R99	R	All UEs
7.2.2.9	UM RLC / Segmentation / 15-bit Length Indicators / LI = 0	R99	R	All UEs
7.2.2.10	UM RLC / Segmentation / 15-bit Length Indicators / One octet short LI	R99	R	All UEs
7.2.2.11	UM RLC / Segmentation / 15-bit Length Indicators / Invalid LI value	R99	R	All UEs
7.2.2.12	UM RLC / Segmentation / 15-bit Length Indicators / LI value > PDU size	R99	R	All UEs
7.2.2.13	UM RLC / Segmentation / 15-bit Length Indicators / First data octet LI	R99	R	All UEs
7.2.3.2	AM RLC / Segmentation and reassembly / Selection of 7 or 15 bit Length Indicators	R99	R	All UEs
7.2.3.3	AM RLC / Segmentation / 7-bit Length Indicators / Padding	R99	R	All UEs
7.2.3.4	AM RLC / Segmentation / 7-bit Length Indicators / LI = 0	R99	R	All UEs
7.2.3.5	AM RLC / Segmentation / 7-bit Length Indicators / Reserved LI value	R99	R	All UEs
7.2.3.6	AM RLC / Segmentation / 7-bit Length Indicators / LI value > PDU	R99	R	All UEs
7.2.3.7	AM RLC / Segmentation / 15-bit Length Indicators / Padding or Piggy-backed Status	R99	R	All UEs
7.2.3.8	AM RLC / Segmentation / 15-bit Length Indicators / LI = 0	R99	R	All UEs
7.2.3.9	AM RLC / Segmentation / 15-bit Length Indicators / One octet short LI	R99	R	All UEs
7.2.3.10	AM RLC / Segmentation / 15-bit Length Indicators / Reserved LI value	R99	R	All UEs

Clause	Title	Release	Applicability	Comments
7.2.3.11	AM RLC / Segmentation / 15-bit Length Indicators / LI value > PDU size	R99	R	All UEs
7.2.3.12	AM RLC / Correct use of Sequence Numbering	R99	R	All UEs
7.2.3.13	AM RLC / Control of Transmit Window	R99	R	All UEs
7.2.3.14	AM RLC / Control of Receive Window	R99	R	All UEs
7.2.3.15	AM RLC / Polling for status / Last PU in transmission queue	R99	R	All UEs
7.2.3.16	AM RLC / Polling for status / Last PU in retransmission queue	R99	R	All UEs
7.2.3.17	AM RLC / Polling for status / Poll every Poll_PU PUs	R99	R	All UEs
7.2.3.18	AM RLC / Polling for status / Poll every Poll_SDU SDUs	R99	R	All UEs
7.2.3.19	AM RLC / Polling for status / Timer triggered polling (Timer_Poll_Periodic)	R99	R	All UEs
7.2.3.20	AM RLC / Polling for status / Polling on Poll_Window% of transmission window	R99	R	All UEs
7.2.3.21	AM RLC / Polling for status / Operation of Timer_Poll timer / Timer expiry	R99	R	All UEs
7.2.3.22	AM RLC / Polling for status / Operation of Timer_Poll timer / Stopping Timer_Poll timer	R99	R	All UEs
7.2.3.23	AM RLC / Polling for status / Operation of Timer_Poll timer / Restart of the Timer_Poll timer	R99	R	All UEs
7.2.3.24	AM RLC / Polling for status / Operation of timer Timer_Poll_Prohibit	R99	R	All UEs
7.2.3.25	AM RLC / Receiver Status Triggers / Detection of missing PUs	R99	R	All UEs
7.2.3.26	AM RLC / Receiver Status Triggers / Operation of timer Timer_Status_Periodic	R99	R	All UEs
7.2.3.27	AM RLC / Receiver Status Triggers / Operation of timer Timer_Status_Prohibit	R99	R	All UEs
7.2.3.28	AM RLC / Status reporting / Abnormal conditions / Reception of LIST SUFI with Length set to zero	R99	R	All UEs
7.2.3.29	AM RLC / Timer based discard, with explicit signalling / Expiry of Timer_Discard	R99	R	All UEs
7.2.3.29a	AM RLC / Timer based discard, with explicit signalling / Expiry of Timer_Discard when Timer_STATUS_prohibit is active	R99	R	All UEs
7.2.3.30	AM RLC / Timer based discard, with explicit signalling / Obsolete MRW_ACK	R99	R	All UEs
7.2.3.31	AM RLC / Timer based discard, with explicit signalling / Failure of MRW procedure	R99	R	All UEs
7.2.3.32	AM RLC / SDU discard after MaxDAT number of retransmissions	R99	R	All UEs
7.2.3.33	AM RLC / Operation of the RLC Reset procedure / UE Originated	R99	R	All UEs
7.2.3.34	AM RLC / Operation of the RLC Reset procedure / UE Terminated	R99	R	All UEs
RADIO RESOURCE CONTROL				
8.1.1.1	RRC / Paging for Connection in idle mode	R99	C01	UEs supporting FDD.
8.1.1.2	RRC / Paging for Connection in connected mode (CELL_PCH)	R99	C06	UEs supporting FDD and supporting PS bearer service.
8.1.1.3	RRC / Paging for Connection in connected mode (URA_PCH)	R99	C06	UEs supporting FDD and supporting PS bearer service.
8. 1.1.4	RRC / Paging for Notification in idle mode	R99	C01	UEs supporting FDD.
8.1.1.5	RRC / Paging for Notification in connected mode (CELL_PCH)	R99	C06	UEs supporting FDD and supporting PS bearer service.
8.1.1.6	RRC / Paging for Notification in connected mode (URA_PCH)	R99	C01	UEs supporting FDD.

Clause	Title	Release	Applicability	Comments
8.1.1.7	RRC / Paging for Connection in connected mode (CELL_DCH)	R99	C01	UEs supporting FDD.
8.1.1.8	RRC / Paging for Connection in connected mode (CELL_FACH)	R99	C01	UEs supporting FDD.
8.1.2.1	RRC / RRC Connection Establishment in CELL_DCH state: Success	R99	C01	UEs supporting FDD.
8.1.2.2	RRC / RRC Connection Establishment: Success after T300 timeout	R99	C01	UEs supporting FDD.
8.1.2.3	RRC / RRC Connection Establishment: Failure (V300 is greater than N300)	R99	C01	UEs supporting FDD.
8.1.2.4	RRC / RRC Connection Establishment: Reject ("wait time" is not equal to 0)	R99	C01	UEs supporting FDD.
8.1.2.5	RRC / RRC Connection Establishment: Reject ("wait time" is not equal to 0 and V300 is greater than N300)	R99	C01	UEs supporting FDD.
8.1.2.6	RRC / RRC Connection Establishment: Reject ("wait time" is set to 0)	R99	C01	UEs supporting FDD.
8.1.2.7	RRC / RRC Connection Establishment in CELL_FACH state: Success	R99	C01	UEs supporting FDD.
8.1.2.8	RRC / RRC Connection Establishment : Invalid system information message reception	R99	C01	UEs supporting FDD.
8.1.2.9	RRC / RRC Connection Establishment: Success after Physical channel failure, Invalid message reception and Invalid configuration	R99	C01	UEs supporting FDD.
8.1.3.1	RRC / RRC Connection Release in CELL_DCH state: Successful	R99	C01	UEs supporting FDD.
8.1.3.2	RRC / RRC Connection Release using on DCCH in CELL_FACH state: Successful	R99	C01	UEs supporting FDD.
8.1.3.3	RRC / RRC Connection Release using on CCCH in CELL_FACH state: Failure	R99	C01	UEs supporting FDD.
8.1.3.4	RRC / RRC Connection Release in CELL_FACH state: Failure	R99	C01	UEs supporting FDD.
8.1.3.5	RRC / RRC Connection Release in CELL_FACH state: Invalid message	R99	C01	UEs supporting FDD.
8.1.5.1	RRC / UE Capability in CELL_DCH state: Success	R99	C01	UEs supporting FDD.
8.1.5.2	RRC / UE Capability in CELL_DCH state: Success after T304 timeout	R99	C01	UEs supporting FDD.
8.1.5.3	RRC / UE Capability in CELL_DCH state: Falilure (After (N304+1) re-transmissions)	R99	C01	UEs supporting FDD.
8.1.5.4	RRC / UE Capability in CELL_FACH state: Success	R99	C01	UEs supporting FDD.
8.1.5.5	RRC / UE Capability in CELL_FACH state: Success after T304 timeout	R99	C01	UEs supporting FDD.
8.1.6.1	Direct Transfer in CELL_DCH state (invalid message reception)	R99	C01	UEs supporting FDD.
8.1.6.2	Direct Transfer in CELL_FACH state (invalid message reception and no signalling)	R99	C01	UEs supporting FDD.
8.1.7.1	RRC / Security mode control in CELL_DCH state	R99	C07	UEs supporting FDD and supporting UMTS Encryption Algorithm UEA1.
8.1.7.2	RRC / Security mode control in CELL_FACH state	R99	C07	UEs supporting FDD and supporting UMTS Encryption Algorithm UEA1.
8.1.8.1	RRC / Counter check in CELL_DCH state	R99	C01	UEs supporting FDD.
8.1.8.2	RRC / Counter check in CELL_FACH state	R99	C01	UEs supporting FDD.
8.1.9	RRC / Signalling Connection Release Request	R99	C01	UEs supporting FDD.
8.2.1.1	RRC / Radio Bearer Establishment for transition from CELL_DCH to CELL_DCH: Success (Data integrity protection algorithm is not applied)	R99	C01	UEs supporting FDD.
8.2.1.2	RRC / Radio Bearer Establishment for transition from CELL_DCH to CELL_DCH: Success (Effected Data integrity protection algorithm)	R99	C08	UEs supporting FDD and supporting UMTS Integrity Algorithm UIA1.
8.2.1.3	RRC / Radio Bearer Establishment for transition from CELL_DCH to CELL_DCH: Failure (Unsupported configuration)	R99	C01	UEs supporting FDD.
8.2.1.4	RRC / Radio Bearer Establishment for transition from CELL_DCH to CELL_DCH: Failure (Physical channel Failure and successful reversion to old configuration)	R99	C01	UEs supporting FDD.

Clause	Title	Release	Applicability	Comments
8.2.1.5	RRC / Radio Bearer Establishment for transition from CELL_DCH to CELL_DCH: Failure (Physical channel Failure and reversion failure)	R99	C01	UEs supporting FDD.
8.2.1.6	RRC / Radio Bearer Establishment for transition from CELL_DCH to CELL_DCH: Failure (Incompatible simultaneous configuration)	R99	C01	UEs supporting FDD.
8.2.1.7	RRC / Radio Bearer Establishment for transition from CELL_DCH to CELL_DCH: Failure (Invalid message reception)	R99	C01	UEs supporting FDD.
8.2.1.8	RRC / Radio Bearer Establishment for transition from CELL_DCH to CELL_FACH: Success	R99	C06	UEs supporting FDD and supporting PS bearer service.
8.2.1.9	RRC / Radio Bearer Establishment for transition from CELL_DCH to CELL_FACH: Failure (Physical channel Failure)	R99	C06	UEs supporting FDD and supporting PS bearer service.
8.2.1.10	RRC / Radio Bearer Establishment for transition from CELL_FACH to CELL_DCH: Success	R99	C06	UEs supporting FDD and supporting PS bearer service.
8.2.1.11	RRC / Radio Bearer Establishment for transition from CELL_FACH to CELL_DCH: Failure (Unsupported configuration)	R99	C06	UEs supporting FDD and supporting PS bearer service.
8.2.1.12	RRC / Radio Bearer Establishment for transition from CELL_FACH to CELL_DCH: Failure (Physical channel Failure and successful reversion to old configuration)	R99	C06	UEs supporting FDD and supporting PS bearer service.
8.2.1.13	RRC / Radio Bearer Establishment for transition from CELL_FACH to CELL_DCH: Failure (Physical channel Failure and reversion failure)	R99	C06	UEs supporting FDD and supporting PS bearer service.
8.2.1.14	RRC / Radio Bearer Establishment for transition from CELL_FACH to CELL_DCH: Failure (Incompatible simultaneous reconfiguration)	R99	C06	UEs supporting FDD and supporting PS bearer service.
8.2.1.15	RRC / Radio Bearer Establishment for transition from CELL_FACH to CELL_DCH: Failure (Invalid message reception)	R99	C06	UEs supporting FDD and supporting PS bearer service.
8.2.1.16	RRC / Radio Bearer Establishment for transition from CELL_FACH to CELL_FACH: Success	R99	C06	UEs supporting FDD and supporting PS bearer service.
8.2.1.17	RRC / Radio Bearer Establishment for transition from CELL_DCH to CELL_DCH: Success (Subsequently received)	R99	C01	UEs supporting FDD and supporting PS bearer service.
8.2.1.18	RRC / Radio Bearer Establishment for transition from CELL_FACH to CELL_DCH: Success (Subsequently received)	R99	C06	UEs supporting FDD and supporting PS bearer service.
8.2.1.19	RRC / Radio Bearer Establishment from CELL_DCH to CELL_PCH: Success	R99	C06	UEs supporting FDD and supporting PS bearer service.
8.2.1.20	RRC / Radio Bearer Establishment from CELL_DCH to URA_PCH: Success	R99	C06	UEs supporting FDD and supporting PS bearer service.
8.2.2.1	RRC / Radio Bearer Reconfiguration (Hard Handover) from CELL_DCH to CELL_DCH: Success	R99	C06	UEs supporting FDD and supporting PS bearer service.
8.2.2.2	RRC / Radio Bearer Reconfiguration from CELL_DCH to CELL_DCH: Failure (Unsupported configuration)	R99	C06	UEs supporting FDD and supporting PS bearer service.
8.2.2.3	RRC / Radio Bearer Reconfiguration from CELL_DCH to CELL_DCH: Failure (Physical channel failure and reversion to old configuration)	R99	C06	UEs supporting FDD and supporting PS bearer service.
8.2.2.4	RRC / Radio Bearer Reconfiguration from CELL_DCH to CELL_DCH: Failure (Physical channel failure and reversion failure)	R99	C06	UEs supporting FDD and supporting PS bearer service.
8.2.2.5	RRC / Radio Bearer Reconfiguration from CELL_DCH to CELL_DCH: Failure (Incompatible simultaneous reconfiguration)	R99	C06	UEs supporting FDD and supporting PS bearer service.
8.2.2.6	RRC / Radio Bearer Reconfiguration from CELL_DCH to CELL_DCH: Failure (Invalid message reception)	R99	C06	UEs supporting FDD and supporting PS bearer service..

Clause	Title	Release	Applicability	Comments
8.2.2.7	RRC / Radio Bearer Reconfiguration from CELL_DCH to CELL_DCH: Failure (Suspension of signalling bearer)	R99	C06	UEs supporting FDD and supporting PS bearer service..
8.2.2.8	RRC / Radio Bearer Reconfiguration from CELL_DCH to CELL_FACH: Success	R99	C06	UEs supporting FDD and supporting PS bearer service.
8.2.2.9	RRC / Radio Bearer Reconfiguration from CELL_DCH to CELL_FACH: Success (Physical channel failure)	R99	C06	UEs supporting FDD and supporting PS bearer service.
8.2.2.10	RRC / Radio Bearer Reconfiguration from CELL_FACH to CELL_DCH: Success	R99	C06	UEs supporting FDD and supporting PS bearer service.
8.2.2.11	RRC / Radio Bearer Reconfiguration from CELL_FACH to CELL_DCH: Failure (Unsupported configuration)	R99	C06	UEs supporting FDD and supporting PS bearer service.
8.2.2.12	RRC / Radio Bearer Reconfiguration from CELL_FACH to CELL_DCH: Failure (Physical channel failure and reversion to old configuration)	R99	C06	UEs supporting FDD and supporting PS bearer service.
8.2.2.13	RRC / Radio Bearer Reconfiguration from CELL_FACH to CELL_DCH: Failure (Physical channel failure and reversion failure)	R99	C06	UEs supporting FDD and supporting PS bearer service.
8.2.2.14	RRC / Radio Bearer Reconfiguration from CELL_FACH to CELL_DCH: Failure (Incompatible simultaneous reconfiguration)	R99	C06	UEs supporting FDD and supporting PS bearer service.
8.2.2.15	RRC / Radio Bearer Reconfiguration from CELL_FACH to CELL_DCH: Failure (Invalid message reception)	R99	C06	UEs supporting FDD and supporting PS bearer service.
8.2.2.16	RRC / Radio Bearer Reconfiguration from CELL_FACH to CELL_DCH: Failure (Suspension of signalling bearer)	R99	C06	UEs supporting FDD and supporting PS bearer service.
8.2.2.17	RRC / Radio Bearer Reconfiguration from CELL_FACH to CELL_FACH: Success	R99	C06	UEs supporting FDD and supporting PS bearer service.
8.2.2.18	RRC / Radio Bearer Reconfiguration from CELL_FACH to CELL_FACH: Success (Physical channel failure)	R99	C06	UEs supporting FDD and supporting PS bearer service.
8.2.2.19	RRC / Radio Bearer Reconfiguration from CELL_DCH to CELL_DCH: Success (Subsequently received)	R99	C01	UEs supporting FDD and supporting PS bearer service.
8.2.2.20	RRC / Radio Bearer Reconfiguration from CELL_FACH to CELL_DCH: Success (Subsequently received)	R99	C06	UEs supporting FDD and supporting PS bearer service.
8.2.2.21	RRC / Radio Bearer Reconfiguration from CELL_DCH to CELL_PCH: Success	R99	C06	UEs supporting FDD and supporting PS bearer service.
8.2.2.22	RRC / Radio Bearer Reconfiguration from CELL_DCH to URA_PCH: Success	R99	C06	UEs supporting FDD and supporting PS bearer service.
8.2.2.23	RRC / Radio Bearer Reconfiguration from CELL_FACH to CELL_PCH: Success	R99	C06	UEs supporting FDD and supporting PS bearer service.
8.2.2.24	RRC / Radio Bearer Reconfiguration from CELL_FACH to URA_PCH: Success	R99	C06	UEs supporting FDD and supporting PS bearer service.
8.2.3.1	RRC / Radio Bearer Release for transition from CELL_DCH to CELL_DCH: Success	R99	C01	UEs supporting FDD.
8.2.3.2	RRC / Radio Bearer Release for transition from CELL_DCH to CELL_DCH: Failure (Unsupported configuration)	R99	C01	UEs supporting FDD.
8.2.3.3	RRC / Radio Bearer Release for transition from CELL_DCH to CELL_DCH: Failure (Physical channel failure and reversion to old configuration)	R99	C01	UEs supporting FDD.
8.2.3.4	RRC / Radio Bearer Release for transition from CELL_DCH to CELL_DCH: Failure (Physical channel failure and reversion failure)	R99	C01	UEs supporting FDD.
8.2.3.5	RRC / Radio Bearer Release for transition from CELL_DCH to CELL_DCH: Failure (Incompatible simultaneous reconfiguration)	R99	C06	UEs supporting FDD and supporting PS bearer service.
8.2.3.6	RRC / Radio Bearer Release for transition from CELL_DCH to CELL_DCH: Failure (Invalid message reception)	R99	C01	UEs supporting FDD.
8.2.3.7	RRC / Radio Bearer Release for transition from CELL_DCH to CELL_FACH: Success	R99	C06	UEs supporting FDD and supporting PS bearer service.
8.2.3.8	RRC / Radio Bearer Release for transition from CELL_DCH to CELL_FACH: Success (Physical channel failure)	R99	C06	UEs supporting FDD and supporting PS bearer service.

Clause	Title	Release	Applicability	Comments
8.2.3.9	RRC / Radio Bearer Release for transition from CELL_FACH to CELL_DCH: Success	R99	C06	UEs supporting FDD and supporting PS bearer service.
8.2.3.10	RRC / Radio Bearer Release for transition from CELL_FACH to CELL_DCH: Failure (Unsupported configuration)	R99	C06	UEs supporting FDD and supporting PS bearer service.
8.2.3.11	RRC / Radio Bearer Release for transition from CELL_FACH to CELL_DCH: Failure (Physical channel failure and reversion to old configuration)	R99	C06	UEs supporting FDD and supporting PS bearer service.
8.2.3.12	RRC / Radio Bearer Release for transition from CELL_FACH to CELL_DCH: Failure (Physical channel failure and reversion failure)	R99	C06	UEs supporting FDD and supporting PS bearer service.
8.2.3.13	RRC / Radio Bearer Release for transition from CELL_FACH to CELL_DCH: Failure (Incompatible simultaneous reconfiguration)	R99	C06	UEs supporting FDD and supporting PS bearer service.
8.2.3.14	RRC / Radio Bearer Release for transition from CELL_FACH to CELL_DCH: Failure (Invalid message reception)	R99	C06	UEs supporting FDD and supporting PS bearer service.
8.2.3.15	RRC / Radio Bearer Release for transition from CELL_FACH to CELL_FACH: Success	R99	C06	UEs supporting FDD and supporting PS bearer service.
8.2.3.16	RRC / Radio Bearer Release for transition from CELL_DCH to CELL_DCH: Success (Subsequently received)	R99	C01	UEs supporting FDD and supporting PS bearer service.
8.2.3.17	RRC / Radio Bearer Release for transition from CELL_FACH to CELL_DCH: Success (Subsequently received)	R99	C06	UEs supporting FDD and supporting PS bearer service.
8.2.3.18	RRC / Radio Bearer Release from CELL_DCH to CELL_PCH: Success	R99	C06	UEs supporting FDD and supporting PS bearer service.
8.2.3.19	RRC / Radio Bearer Release from CELL_DCH to URA_PCH: Success	R99	C06	UEs supporting FDD and supporting PS bearer service.
8.2.4.1	RRC / Transport channel reconfiguration from CELL_DCH to CELL_DCH (Hard handover to intra-frequency): Success with no transport channel type switching	R99	C06	UEs supporting FDD and supporting PS bearer service..
8.2.4.2	RRC / Transport channel reconfiguration from CELL_DCH to CELL_DCH: Failure (Unsupported configuration)	R99	C06	UEs supporting FDD and supporting PS bearer service..
8.2.4.3	RRC / Transport channel reconfiguration from CELL_DCH to CELL_DCH: Failure (Physical channel failure and reversion to old configuration)	R99	C06	UEs supporting FDD and supporting PS bearer service..
8.2.4.4	RRC / Transport channel reconfiguration from CELL_DCH to CELL_DCH: Failure (Physical channel failure and reversion failure)	R99	C06	UEs supporting FDD and supporting PS bearer service..
8.2.4.5	RRC / Transport channel reconfiguration from CELL_DCH to CELL_DCH: Failure (Incompatible simultaneous reconfiguration)	R99	C06	UEs supporting FDD and supporting PS bearer service..
8.2.4.6	RRC / Transport channel reconfiguration from CELL_DCH to CELL_DCH: Failure (Invalid message reception)	R99	C06	UEs supporting FDD and supporting PS bearer service..
8.2.4.7	RRC / Transport channel reconfiguration from CELL_DCH to CELL_FACH: Success	R99	C06	UEs supporting FDD and supporting PS bearer service.
8.2.4.9	RRC / Transport channel reconfiguration from CELL_DCH to CELL_FACH: Success (Physical channel failure and reversion failure)	R99	C06	UEs supporting FDD and supporting PS bearer service.
8.2.4.10	RRC / Transport channel reconfiguration from CELL_FACH to CELL_DCH: Success	R99	C06	UEs supporting FDD and supporting PS bearer service.
8.2.4.11	RRC / Transport channel reconfiguration from CELL_FACH to CELL_DCH: Failure (Unsupported configuration)	R99	C06	UEs supporting FDD and supporting PS bearer service.
8.2.4.12	RRC / Transport channel reconfiguration from CELL_FACH to CELL_DCH: Failure (Physical channel failure and reversion to old channel)	R99	C06	UEs supporting FDD and supporting PS bearer service.
8.2.4.13	RRC / Transport channel reconfiguration from CELL_FACH to CELL_DCH: Failure (Physical channel failure and reversion failure)	R99	C06	UEs supporting FDD and supporting PS bearer service.
8.2.4.14	RRC / Transport channel reconfiguration from CELL_FACH to CELL_DCH: Failure (Incompatible simultaneous reconfiguration)	R99	C06	UEs supporting FDD and supporting PS bearer service.
8.2.4.15	RRC / Transport channel reconfiguration from CELL_FACH to CELL_DCH: Failure (Invalid message reception)	R99	C06	UEs supporting FDD and supporting PS bearer service.

Clause	Title	Release	Applicability	Comments
8.2.4.16	RRC / Transport channel reconfiguration from CELL_FACH to CELL_FACH: Success with no transport channel type switching	R99	C06	UEs supporting FDD and supporting PS bearer service.
8.2.4.17	RRC / Transport channel reconfiguration from CELL_FACH to CELL_FACH: Success (Physical channel failure)	R99	C06	UEs supporting FDD and supporting PS bearer service.
8.2.4.18	RRC / Transport Channel Reconfiguration from CELL_DCH to CELL_DCH: Success (Subsequently received)	R99	C01	UEs supporting FDD and supporting PS bearer service.
8.2.4.19	RRC / Transport Channel Reconfiguration from CELL_FACH to CELL_DCH: Success (Subsequently received)	R99	C06	UEs supporting FDD and supporting PS bearer service.
8.2.4.20	RRC / Transport channel Reconfiguration from CELL_DCH to CELL_PCH: Success	R99	C06	UEs supporting FDD and supporting PS bearer service.
8.2.4.21	RRC / Transport channel from CELL_DCH to URA_PCH: Success	R99	C06	UEs supporting FDD and supporting PS bearer service.
8.2.5.1	RRC / Transport format combination Control in CELL_DCH: restriction	R99	C01	UEs supporting FDD.
8.2.5.2	RRC / Transport format combination Control in CELL_DCH: release a restriction	R99	C01	UEs supporting FDD.
8.2.5.3	RRC / Transport format combination Control in CELL_DCH: Failure (Incompatible simultaneous reconfiguration)	R99	C06	UEs supporting FDD and supporting PS bearer service..
8.2.5.4	RRC / Transport format combination Control in CELL_DCH: Failure (Invalid message reception)	R99	C06	UEs supporting FDD and supporting PS bearer service..
8.2.6.1	RRC / Physical channel reconfiguration for transition from CELL_DCH to CELL_DCH (Hard handover to another frequency): Success	R99	C06	UEs supporting FDD and supporting PS bearer service..
8.2.6.2	RRC / Physical channel reconfiguration for transition from CELL_DCH to CELL_DCH (Hard handover to another frequency): Failure (Unsupported configuration)	R99	C06	UEs supporting FDD and supporting PS bearer service..
8.2.6.3	RRC / Physical channel reconfiguration for transition from CELL_DCH to CELL_DCH (Hard handover to another frequency): Failure (Physical channel failure and reversion to old channel)	R99	C06	UEs supporting FDD and supporting PS bearer service..
8.2.6.4	RRC / Physical channel reconfiguration for transition from CELL_DCH to CELL_DCH (Hard handover to another frequency): Failure (Physical channel failure and reversion failure)	R99	C06	UEs supporting FDD and supporting PS bearer service..
8.2.6.5	RRC / Physical channel reconfiguration for transition from CELL_DCH to CELL_DCH (Hard handover to another frequency): Failure (Incompatible simultaneous reconfiguration)	R99	C06	UEs supporting FDD and supporting PS bearer service..
8.2.6.6	RRC / Physical channel reconfiguration for transition from CELL_DCH to CELL_DCH (Hard handover to another frequency): Failure (Invalid message reception)	R99	C06	UEs supporting FDD and supporting PS bearer service..
8.2.6.7	RRC / Physical channel reconfiguration for transition from CELL_DCH to CELL_FACH: Success	R99	C06	UEs supporting FDD and supporting PS bearer service.
8.2.6.8	RRC / Physical channel reconfiguration for transition from CELL_DCH to CELL_FACH: Success (Physical channel failure)	R99	C06	UEs supporting FDD and supporting PS bearer service.
8.2.6.9	RRC / Physical channel reconfiguration for transition from CELL_FACH to CELL_DCH: Success	R99	C06	UEs supporting FDD and supporting PS bearer service.
8.2.6.10	RRC / Physical channel reconfiguration for transition from CELL_FACH to CELL_DCH: Failure (Unsupported configuration)	R99	C06	UEs supporting FDD and supporting PS bearer service.
8.2.6.11	RRC / Physical channel reconfiguration for transition from CELL_FACH to CELL_DCH: Failure (Physical channel failure and reversion to old configuration)	R99	C06	UEs supporting FDD and supporting PS bearer service.
8.2.6.12	RRC / Physical channel reconfiguration for transition from CELL_FACH to CELL_DCH: Failure (Physical channel failure and reversion failure)	R99	C06	UEs supporting FDD and supporting PS bearer service.

Clause	Title	Release	Applicability	Comments
8.2.6.13	RRC / Physical channel reconfiguration for transition from CELL_FACH to CELL_DCH: Failure (Incompatible simultaneous reconfiguration)	R99	C06	UEs supporting FDD and supporting PS bearer service.
8.2.6.14	RRC / Physical channel reconfiguration for transition from CELL_FACH to CELL_DCH: Failure (Invalid message reception)	R99	C06	UEs supporting FDD and supporting PS bearer service.
8.2.6.15	RRC / Physical channel reconfiguration for transition from CELL_FACH to CELL_FACH: Success	R99	C06	UEs supporting FDD and supporting PS bearer service.
8.2.6.16	RRC / Physical channel reconfiguration for transition from CELL_FACH to CELL_FACH: Failure (Physical channel failure)	R99	C06	UEs supporting FDD and supporting PS bearer service.
8.2.6.17	RRC / Physical Channel Reconfiguration from CELL_DCH to CELL_DCH (Hard Handover to another frequency): Success (Subsequently received)	R99	C01	UEs supporting FDD and supporting PS bearer service.
8.2.6.18	RRC / Physical Channel Reconfiguration from CELL_FACH to CELL_DCH: Success (Subsequently received)	R99	C06	UEs supporting FDD and supporting PS bearer service.
8.2.6.19	RRC / Physical channel from CELL_DCH to CELL_PCH: Success	R99	C06	UEs supporting FDD and supporting PS bearer service.
8.2.6.20	RRC / Physical channel from CELL_DCH to URA_PCH: Success	R99	C06	UEs supporting FDD and supporting PS bearer service.
8.2.7	RRC / Physical Shared Channel Allocation [TDD only]	R99	[FFS]	Inclusion of this test cases if FFS
8.2.8	RRC / PUSCH capacity request [TDD only]	R99	[FFS]	Inclusion of this test cases if FFS
8.3.1.1	RRC / Cell Update: cell reselection in CELL_FACH	R99	C06	UEs supporting FDD and supporting PS bearer service.
8.3.1.2	RRC / Cell Update: cell reselection in CELL_PCH	R99	C06	UEs supporting FDD and supporting PS bearer service.
8.3.1.3	RRC / Cell Update: periodical cell update in CELL_FACH	R99	C06	UEs supporting FDD and supporting PS bearer service.
8.3.1.4	RRC / Cell Update: periodical cell update in CELL_PCH and multiple cell update causes	R99	C06	UEs supporting FDD and supporting PS bearer service.
8.3.1.5	RRC / Cell Update: UL data transmission in URA_PCH	R99	C06	UEs supporting FDD and supporting PS bearer service.
8.3.1.6	RRC / Cell Update: UL data transmission in CELL_PCH	R99	C06	UEs supporting FDD and supporting PS bearer service.
8.3.1.7	RRC / Cell Update: paging response in URA_PCH	R99	C06	UEs supporting FDD and supporting PS bearer service.
8.3.1.8	RRC / Cell Update: paging response in CELL_PCH	R99	C06	UEs supporting FDD and supporting PS bearer service.
8.3.1.9	RRC / Cell Update: re-entering of service area after T305 expiry and being out of service area	R99	C06	UEs supporting FDD and supporting PS bearer service.
8.3.1.10	RRC / Cell Update: expiry of T307 after T305 expiry and being out of service area	R99	C06	UEs supporting FDD and supporting PS bearer service.
8.3.1.11	RRC / Cell Update: Success after T302 time-out	R99	C06	UEs supporting FDD and supporting PS bearer service.
8.3.1.12	RRC / Cell Update: Failure (After Maximum Re-transmissions)	R99	C06	UEs supporting FDD and supporting PS bearer service.
8.3.1.13	RRC / Cell Update: Reception of Invalid CELL UPDATE CONFIRM message	R99	C06	UEs supporting FDD and supporting PS bearer service.
8.3.1.14	RRC / Cell Update: Incompatible simultaneous reconfiguration	R99	C06	UEs supporting FDD and supporting PS bearer service.
8.3.1.15	RRC / Cell Update: Acknowledged Mode RLC Reset	R99	C06	UEs supporting FDD and supporting PS bearer service.
8.3.1.16	RRC / Cell Update: cell reselection in CELL_FACH (in non-ciphering mode)	R99	C06	UEs supporting FDD and supporting PS bearer service.
8.3.1.17	RRC / Cell Update: Failure (UTRAN initiate an RRC connection release procedure on DCCH)	R99	C06	UEs supporting FDD and supporting PS bearer service.
8.3.1.18	RRC / Cell Update: Radio Link Failure (T314>0, T315=0)	R99	C06	UEs supporting FDD and supporting PS bearer service.
8.3.1.19	RRC / Cell Update: Unrecoverable error in RLC	R99	C06	UEs supporting FDD and supporting PS bearer service.
8.3.1.20	RRC / Cell Update: Reception of CELL UPDATE CONFIRM Message that causes invalid configuration	R99	C06	UEs supporting FDD and supporting PS bearer service.
8.3.2.1	RRC / URA Update: URA reselection	R99	C06	UEs supporting FDD and supporting PS bearer service.

Clause	Title	Release	Applicability	Comments
8.3.2.2	RRC / URA Update: Periodical URA update and Reception of Invalid message	R99	C06	UEs supporting FDD and supporting PS bearer service.
8.3.2.3	RRC / URA Update: re-entering of service area after T306 expiry	R99	C06	UEs supporting FDD and supporting PS bearer service.
8.3.2.4	RRC / URA Update: loss of service after expiry of timers T307 after T306	R99	C06	UEs supporting FDD and supporting PS bearer service.
8.3.2.5	RRC / URA Update: Success after Confirmation error of URA-ID list	R99	C06	UEs supporting FDD and supporting PS bearer service.
8.3.2.6	RRC / URA Update: Failure (V303 is greater than N303: Confirmation error of URA-ID list)	R99	C06	UEs supporting FDD and supporting PS bearer service.
8.3.2.7	RRC / URA Update: Success after T303 timeout	R99	C06	UEs supporting FDD and supporting PS bearer service.
8.3.2.8	RRC / URA Update: Failure (V303 is greater than N303: T303 timeout)	R99	C06	UEs supporting FDD and supporting PS bearer service.
8.3.2.9	RRC / URA Update: Failure (UTRAN initiate an RRC connection release procedure on DCCH)	R99	C06	UEs supporting FDD and supporting PS bearer service.
8.3.2.10	RRC / URA Update: Reception of URA UPDATE CONFIRM message that causes invalid configuration and invalid URA UPDATE CONFIRM message	R99	C06	UEs supporting FDD and supporting PS bearer service.
8.3.3.1	RRC / UTRAN Mobility Information: Success	R99	C01	UEs supporting FDD.
8.3.3.2	RRC / UTRAN Mobility Information: Failure (Invalid message reception and cell re-selection)	R99	C01	UEs supporting FDD.
8.3.4.1	RRC / Active set update in soft handover: Radio Link addition	R99	C01	UEs supporting FDD.
8.3.4.2	RRC / Active set update in soft handover: Radio Link removal	R99	C01	UEs supporting FDD.
8.3.4.3	RRC / Active set update in soft handover: Combined radio link addition and removal (active set is not full)	R99	C01	UEs supporting FDD.
8.3.4.4	RRC / Active set update in soft handover: Unsupported Configuration in the UE	R99	C01	UEs supporting FDD.
8.3.4.5	RRC / Active set update in soft handover: Combined radio link addition and removal (active set is full)	R99	C01	UEs supporting FDD.
8.3.4.7	RRC / Active set update in soft handover: Invalid Message Reception	R99	C01	UEs supporting FDD.
8.3.5.1	RRC / Hard Handover: success	R99	[FFS]	Inclusion of this test case is FFS
8.3.5.2	RRC / Hard Handover: Unsupported Configuration in the UE	R99	[FFS]	Inclusion of this test case is FFS
8.3.5.3	RRC / Hard Handover: Physical channel failure	R99	[FFS]	Inclusion of this test case is FFS
8.3.7.1	Inter system handover from UTRAN/To GSM/Speech/Success	R99	C95	UEs supporting FDD and GSM and supporting speech
8.3.7.2	Inter system handover from UTRAN/To GSM/Data/Same data rate/Success	R99	C97	UEs supporting FDD and GSM
8.3.7.3	Inter system handover from UTRAN/To GSM/Data/Data rate down grading/Success	R99	C97	UEs supporting FDD and GSM
8.3.7.4	Inter system handover from UTRAN/To GSM/Speech/Establishment/Success	R99	C95	UEs supporting FDD and GSM and supporting speech
8.3.7.5	Inter system handover from UTRAN/To GSM/Speech/Failure	R99	C95	UEs supporting FDD and GSM and supporting speech
8.3.8	RRC / Inter system cell reselection to UTRAN	R99	[FFS]	Inclusion of this test case is FFS
8.3.9	RRC / Inter system cell reselection from UTRAN	R99	[FFS]	Inclusion of this test case is FFS
8.4.1.1	RRC / Measurement Control and Report: Intra-frequency measurement for transition from idle mode to CELL_DCH state	R99	C01	UEs supporting FDD.
8.4.1.2	RRC / Measurement Control and Report: Inter-frequency measurement for transition from idle mode to CELL_DCH state	R99	C01	UEs supporting FDD.
8.4.1.3	RRC / Measurement Control and Report: Intra-frequency measurement for transition from idle mode to CELL_FACH state	R99	C01	UEs supporting FDD.
8.4.1.4	RRC / Measurement Control and Report: Inter-frequency measurement for transition from idle mode to CELL_FACH state	R99	C01	UEs supporting FDD.
8.4.1.5	RRC / Measurement Control and Report: Intra-frequency measurement for transition from CELL_DCH to CELL_FACH state	R99	C06	UEs supporting FDD and supporting PS bearer service.

Clause	Title	Release	Applicability	Comments
8.4.1.6	RRC / Measurement Control and Report: Inter- frequency measurement for transition from CELL_DCH to CELL_FACH state	R99	C06	UEs supporting FDD and supporting PS bearer service.
8.4.1.7	RRC / Measurement Control and Report: Intra- frequency measurement for transition from CELL_FACH to CELL_DCH state	R99	C06	UEs supporting FDD and supporting PS bearer service.
8.4.1.8	RRC / Measurement Control and Report: Inter- frequency measurement for transition from CELL_FACH to CELL_DCH state	R99	C06	UEs supporting FDD and supporting PS bearer service.
8.4.1.9	RRC / Measurement Control and Report: Unsupported measurement in the UE	R99	C09	UEs supporting FDD and not supporting Inter-system measurement for GSM.
8.4.1.10	RRC / Measurement Control and Report: Failure (Invalid Message Reception)	R99	C01	UEs supporting FDD.
8.4.1.11	RRC / Measurement Control and Report: Compressed Mode Configuration Failure during radio bearer reconfiguration procedure	R99	C01	UEs supporting FDD
8.4.1.12	RRC / Measurement Control and Report: Compressed Mode Configuration Failure during transport channel reconfiguration procedure	R99	C01	UEs supporting FDD
8.4.1.13	RRC / Measurement Control and Report: Compressed Mode Configuration Failure during physical channel reconfiguration procedure	R99	C01	UEs supporting FDD
8.4.1.14	RRC / Measurement Control and Report: Cell forbidden to affect reporting range	R99	C01	UEs supporting FDD
8.4.1.15	RRC / Measurement Control and Report Incomplete	R99	C01	UEs supporting FDD
MOBILITY MANAGEMENT				
9.1	TMSI reallocation	R99	C98	UEs supporting CS domain services
9.2.1	Authentication accepted	R99	C98	UEs supporting CS domain services
9.2.2	Authentication rejected	R99	C98	UEs supporting CS domain services
9.2.3	Authentication rejected by the UE (MAC code failure)	R99	C98	UEs supporting CS domain services
9.2.4	Authentication rejected by the UE (SQN failure)	R99	C98	UEs supporting CS domain services
9.3.1	General Identification	R99	C98	UEs supporting CS domain services
9.3.2	Handling of IMSI shorter than the maximum length	R99	C98	UEs supporting CS domain services
9.4.1	Location updating / accepted	R99	C98	UEs supporting CS domain services
9.4.2.1	Location updating / rejected / IMSI invalid	R99	C98	UEs supporting CS domain services
9.4.2.2	Location updating / rejected / PLMN not allowed	R99	C98	UEs supporting CS domain services
9.4.2.3	Location updating / rejected / location area not allowed	R99	C98	UEs supporting CS domain services
9.4.2.4.1	Location updating / rejected / roaming not allowed in this location area / Procedure 1	R99	C98	UEs supporting CS domain services
9.4.2.4.2	Location updating / rejected / roaming not allowed in this location area / Procedure 2	R99	C98	UEs supporting CS domain services
9.4.2.4.3	Location updating / rejected / roaming not allowed in this location area / Procedure 3	R99	C98	UEs supporting CS domain services
9.4.2.4.4	Location updating / rejected / roaming not allowed in this location area / Procedure 4	R99	C98	UEs supporting CS domain services
9.4.2.4.5	Location updating / rejected / roaming not allowed in this location area / Procedure 5	R99	C99	UEs supporting CS domain services UEs supporting USIM removal
9.4.3.2	Location updating / abnormal cases / attempt counter less or equal to 4, LAI different	R99	C98	UEs supporting CS domain services
9.4.3.3	Location updating / abnormal cases / attempt counter equal to 4	R99	C98	UEs supporting CS domain services
9.4.3.4	Location updating / abnormal cases / attempt counter less or equal to 4, stored LAI equal to broadcast LAI	R99	C98	UEs supporting CS domain services
9.4.4	Location updating / release / expiry of T3240	R99	C98	UEs supporting CS domain services
9.4.5.1	Location updating / periodic spread	R99	C98	UEs supporting CS domain services
9.4.5.2	Location updating / periodic normal / test 1	R99	C98	UEs supporting CS domain services
9.4.5.3	Location updating / periodic normal / test 2	R99	C98	UEs supporting CS domain services

Clause	Title	Release	Applicability	Comments
9.4.5.4.1	Location updating / periodic HPLMN search / UE waits time T	R99	C98	UEs supporting CS domain services
9.4.5.4.2	Location updating / periodic HPLMN search / UE in manual mode	R99	C98	UEs supporting CS domain services
9.4.5.4.3	Location updating / periodic HPLMN search / UE waits at least two minutes and at most T minutes	R99	C98	UEs supporting CS domain services
9.4.6	Location updating / interworking of attach and periodic	R99	C98	UEs supporting CS domain services
9.5.2	MM connection / establishment in security mode	R99	C98	UEs supporting CS domain services
9.5.3	MM connection / establishment in non-security mode	R99	C98	UEs supporting CS domain services
9.5.4	MM connection / establishment rejected	R99	C98	UEs supporting CS domain services
9.5.5	MM connection / establishment rejected cause 4	R99	C98	UEs supporting CS domain services
9.5.6	MM connection / expiry T3230	R99	C98	UEs supporting CS domain services
9.5.7.1	MM connection / abortion by the network / cause #6	R99	C98	UEs supporting CS domain services
9.5.7.2	MM connection / abortion by the network / cause not equal to #6	R99	C100	UEs supporting CS domain services UEs supporting at least one non-call related SS
9.5.8.1	MM connection / follow-on request pending / test 1	R99	C98	UEs supporting CS domain services
9.5.8.2	MM connection / follow-on request pending / test 2	R99	C98	UEs supporting CS domain services
9.5.8.3	MM connection / follow-on request pending / test 3	R99	C98	UEs supporting CS domain services
CALL CONTROL				
10.1.2.1.1	Outgoing call / U0 null state / MM connection requested	R99	C10	UEs supporting at least one mobile originated circuit switched basic service
10.1.2.2.1	Outgoing call / U0.1 MM connection pending / CM service rejected	R99	C10	UEs supporting at least one mobile originated circuit switched basic service
10.1.2.2.2	Outgoing call / U0.1 MM connection pending / CM service accepted	R99	C10	UEs supporting at least one mobile originated circuit switched basic service
10.1.2.2.3	Outgoing call / U0.1 MM connection pending / lower layer failure	R99	C10	UEs supporting at least one mobile originated circuit switched basic service
10.1.2.3.1	Outgoing call / U1 call initiated / receiving CALL PROCEEDING	R99	C10	UEs supporting at least one mobile originated circuit switched basic service
10.1.2.3.2	Outgoing call / U1 call initiated / rejecting with RELEASE COMPLETE	R99	C10	UEs supporting at least one mobile originated circuit switched basic service
10.1.2.3.3	Outgoing call / U1 call initiated / T303 expiry	R99	C10	UEs supporting at least one mobile originated circuit switched basic service
10.1.2.3.4	Outgoing call / U1 call initiated / lower layer failure	R99	C10	UEs supporting at least one mobile originated circuit switched basic service
10.1.2.3.5	Outgoing call / U1 call initiated / receiving ALERTING	R99	C10	UEs supporting at least one mobile originated circuit switched basic service
10.1.2.3.6	Outgoing call / U1 call initiated / entering state U10	R99	C10	UEs supporting at least one mobile originated circuit switched basic service
10.1.2.3.7	Outgoing call / U1 call initiated / unknown message received	R99	C10	UEs supporting at least one mobile originated circuit switched basic service
10.1.2.4.1	Outgoing call / U3 UE originating call proceeding / ALERTING received	R99	C10	UEs supporting at least one mobile originated circuit switched basic service
10.1.2.4.2	Outgoing call / U3 UE originating call proceeding / CONNECT received	R99	C10	UEs supporting at least one mobile originated circuit switched basic service

Clause	Title	Release	Applicability	Comments
10.1.2.4.3	Outgoing call / U3 UE originating call proceeding / PROGRESS received without in band information	R99	C10	UEs supporting at least one mobile originated circuit switched basic service
10.1.2.4.4	Outgoing call / U3 UE originating call proceeding / PROGRESS with in band information	R99	C10	UEs supporting at least one mobile originated circuit switched basic service
10.1.2.4.5	Outgoing call / U3 UE originating call proceeding / DISCONNECT with in band tones	R99	C10	UEs supporting at least one mobile originated circuit switched basic service
10.1.2.4.6	Outgoing call / U3 UE originating call proceeding / DISCONNECT without in band tones	R99	C10	UEs supporting at least one mobile originated circuit switched basic service
10.1.2.4.7	Outgoing call / U3 UE originating call proceeding / RELEASE received	R99	C10	UEs supporting at least one mobile originated circuit switched basic service
10.1.2.4.8	Outgoing call / U3 UE originating call proceeding / termination requested by the user	R99	C10	UEs supporting at least one mobile originated circuit switched basic service
10.1.2.4.9	Outgoing call / U3 UE originating call proceeding / traffic channel allocation	R99	C10	UEs supporting at least one mobile originated circuit switched basic service
10.1.2.4.10	Outgoing call / U3 UE originating call proceeding / timer T310 time-out	R99	C10	UEs supporting at least one mobile originated circuit switched basic service
10.1.2.4.11	Outgoing call / U3 UE originating call proceeding / lower layer failure	R99	C10	UEs supporting at least one mobile originated circuit switched basic service
10.1.2.4.12	Outgoing call / U3 UE originating call proceeding / unknown message received	R99	C10	UEs supporting at least one mobile originated circuit switched basic service
10.1.2.4.13	Outgoing call / U3 UE originating call proceeding / Internal alerting indication	R99	C13	UEs supporting mobile originated circuit switched basic service for telephony
10.1.2.5.1	Outgoing call / U4 call delivered / CONNECT received	R99	C10	UEs supporting at least one mobile originated circuit switched basic service
10.1.2.5.2	Outgoing call / U4 call delivered / termination requested by the user	R99	C10	UEs supporting at least one mobile originated circuit switched basic service
10.1.2.5.3	Outgoing call / U4 call delivered / DISCONNECT with in band tones	R99	C10	UEs supporting at least one mobile originated circuit switched basic service
10.1.2.5.4	Outgoing call / U4 call delivered / DISCONNECT without in band tones	R99	C10	UEs supporting at least one mobile originated circuit switched basic service
10.1.2.5.5	Outgoing call / U4 call delivered / RELEASE received	R99	C10	UEs supporting at least one mobile originated circuit switched basic service
10.1.2.5.6	Outgoing call / U4 call delivered / lower layer failure	R99	C10	UEs supporting at least one mobile originated circuit switched basic service
10.1.2.5.7	Outgoing call / U4 call delivered / traffic channel allocation	R99	C10	UEs supporting at least one mobile originated circuit switched basic service
10.1.2.5.8	Outgoing call / U4 call delivered / unknown message received	R99	C10	UEs supporting at least one mobile originated circuit switched basic service
10.1.2.6.1	U10 call active / termination requested by the user	R99	C10	UEs supporting at least one mobile originated circuit switched basic service
10.1.2.6.2	U10 call active / RELEASE received	R99	C10	UEs supporting at least one mobile originated circuit switched basic service
10.1.2.6.3	U10 call active / DISCONNECT with in band tones	R99	C10	UEs supporting at least one mobile originated circuit switched basic service
10.1.2.6.4	U10 call active / DISCONNECT without in band tones	R99	C10	UEs supporting at least one mobile originated circuit switched basic service
10.1.2.6.5	U10 call active / RELEASE COMPLETE received	R99	C10	UEs supporting at least one mobile originated circuit switched basic service

Clause	Title	Release	Applicability	Comments
10.1.2.6.6	U10 call active / SETUP received	R99	C10	UEs supporting at least one mobile originated circuit switched basic service
10.1.2.7.1	U11 disconnect request / clear collision	R99	C10	UEs supporting at least one mobile originated circuit switched basic service
10.1.2.7.2	U11 disconnect request / RELEASE received	R99	C10	UEs supporting at least one mobile originated circuit switched basic service
10.1.2.7.3	U11 disconnect request / timer T305 time-out	R99	C10	UEs supporting at least one mobile originated circuit switched basic service
10.1.2.7.4	U11 disconnect request / lower layer failure	R99	C10	UEs supporting at least one mobile originated circuit switched basic service
10.1.2.7.5	U11 disconnect request / unknown message received	R99	C10	UEs supporting at least one mobile originated circuit switched basic service
10.1.2.8.1	U12 disconnect indication / call releasing requested by the user	R99	C13	UEs supporting bearer capability for speech.= UE supporting mobile originated circuit switched basic service for telephony
10.1.2.8.2	U12 disconnect indication / RELEASE received	R99	C13	UEs supporting bearer capability for speech. = UE supporting mobile originated circuit switched basic service for telephony
10.1.2.8.3	U12 disconnect indication / lower layer failure	R99	C13	UEs supporting bearer capability for speech. = UE supporting mobile originated circuit switched basic service for telephony
10.1.2.8.4	U12 disconnect indication / unknown message received	R99	C13	UEs supporting bearer capability for speech. = UE supporting mobile originated circuit switched basic service for telephony
10.1.2.9.1	Outgoing call / U19 release request / timer T308 time-out	R99	C10	UEs supporting at least one mobile originated circuit switched basic service.
10.1.2.9.2	Outgoing call / U19 release request / 2nd timer T308 time-out	R99	C10	UEs supporting at least one mobile originated circuit switched basic service.
10.1.2.9.3	Outgoing call / U19 release request / RELEASE received	R99	C10	UEs supporting at least one mobile originated circuit switched basic service.
10.1.2.9.4	Outgoing call / U19 release request / RELEASE COMPLETE received	R99	C10	UEs supporting at least one mobile originated circuit switched basic service.
10.1.2.9.5	Outgoing call / U19 release request / lower layer failure	R99	C10	UEs supporting at least one mobile originated circuit switched basic service.
10.1.3.1.1	Incoming call / U0 null state / SETUP received with a non supported bearer capability	R99	C11	UEs supporting at least one mobile terminating circuit switched basic service.All UEs.
10.1.3.2.1	Incoming call / U6 call present / automatic call rejection	R99	C11	UEs supporting at least one mobile terminating circuit switched basic service.
10.1.3.3.1	Incoming call / U9 mobile terminating call confirmed / alerting or immediate connecting	R99	C11	UEs supporting at least one mobile terminating circuit switched basic service.
10.1.3.3.2	Incoming call / U9 mobile terminating call confirmed / DTCH assignment	R99	C41	UEs supporting at least one MT circuit switched basic service, for which immediate connect is not used.
10.1.3.3.3	Incoming call / U9 mobile terminating call confirmed / termination requested by the user	R99	C41	UEs supporting at least one MT circuit switched basic service for which immediate connection is not used
10.1.3.3.4	Incoming call / U9 mobile terminating call confirmed / DISCONNECT received	R99	C41	UEs supporting at least one MT circuit switched basic service, for which immediate connect is not used.
10.1.3.3.5	Incoming call / U9 mobile terminating call confirmed / RELEASE received	R99	C41	UEs supporting at least one MT circuit switched basic service, for which immediate connect is not used.

Clause	Title	Release	Applicability	Comments
10.1.3.3.6	Incoming call / U9 mobile terminating call confirmed / lower layer failure	R99	C41	UEs supporting at least one MT circuit switched basic service, for which immediate connect is not used.
10.1.3.3.7	Incoming call / U9 mobile terminating call confirmed / unknown message received	R99	C41	UEs supporting at least MT circuit switched basic service, for which immediate connect is not used.
10.1.3.4.1	Incoming call / U7 call received / call accepted	R99	C41	UEs supporting at least one mobile terminating circuit switched basic service for which immediate connect is not used.
10.1.3.4.2	Incoming call / U7 call received / termination requested by the user	R99	C41	UEs supporting at least one mobile terminating circuit switched basic service for which immediate connect is not used.
10.1.3.4.3	Incoming call / U7 call received / DISCONNECT received	R99	C41	UEs supporting at least one mobile terminating circuit switched basic service for which immediate connect is not used.
10.1.3.4.4	Incoming call / U7 call received / RELEASE received	R99	C41	UEs supporting at least one mobile terminating circuit switched basic service for which immediate connect is not used.
10.1.3.4.5	Incoming call / U7 call received / lower layer failure	R99	C41	UEs supporting at least one mobile terminating circuit switched basic service for which immediate connect is not used.
10.1.3.4.6	Incoming call / U7 call received / unknown message received	R99	C41	UEs supporting at least one mobile terminating circuit switched basic service for which immediate connect is not used.
10.1.3.4.7	Incoming call / U7 call received / DTCH assignment	R99	C41	UEs supporting at least one mobile terminating circuit switched basic service for which immediate connect is not used.
10.1.3.4.8	Incoming call / U7 call received / RELEASE COMPLETE received	R99	C41	UEs supporting at least one mobile terminating circuit switched basic service, for which immediate connect is not used.
10.1.3.5.1	Incoming call / U8 connect request / CONNECT acknowledged	R99	C11	UEs supporting at least one mobile terminating circuit switched basic service.
10.1.3.5.2	Incoming call / U8 connect request / timer T313 time-out	R99	C11	UEs supporting at least one mobile terminating circuit switched basic service.
10.1.3.5.3	Incoming call / U8 connect request / termination requested by the user	R99	C11	UEs supporting at least one mobile terminating circuit switched basic service.
10.1.3.5.4	Incoming call / U8 connect request / DISCONNECT received with in-band information	R99	C11	UEs supporting at least one mobile terminating circuit switched basic service.
10.1.3.5.5	Incoming call / U8 connect request / DISCONNECT received without in-band information	R99	C11	UEs supporting at least one mobile terminating circuit switched basic service.
10.1.3.5.6	Incoming call / U8 connect request / RELEASE received	R99	C11	UEs supporting at least one mobile terminating circuit switched basic service.
10.1.3.5.7	Incoming call / U8 connect request / lower layer failure	R99	C11	UEs supporting at least one mobile terminating circuit switched basic service.
10.1.3.5.8	Incoming call / U8 connect request / DTCH assignment	R99	C11	UEs supporting at least one mobile terminating circuit switched basic service.
10.1.3.5.9	Incoming call / U8 connect request / unknown message received	R99	C11	UEs supporting at least one mobile terminating circuit switched basic service.
10.1.4.1.1	In-call functions / DTMF information transfer / basic procedures	R99	C13	UEs supporting any equipment supporting bearer capability for speech= UE supporting mobile originated circuit switched basic service for telephony
10.1.4.2.1	In-call functions / User notification / UE terminated	R99	C14	UEs supporting at least one circuit switched basic service.

Clause	Title	Release	Applicability	Comments
10.1.4.3.1	In-call functions / channel changes / a successful channel change in active state/ Handover and Assignment Command	R99	C14	UEs supporting at least one circuit switched basic service.
10.1.4.3.2	In-call functions / channel changes / an unsuccessful channel change in active mode/ Handover and Assignment Command	R99	C14	UEs supporting at least one circuit switched basic service.
10.2.1	Call Re-establishment/call present, re-establishment allowed	R99	C16	UEs supporting at least one bearer capability.
10.3	User to user signalling	R99	C11	UEs supporting at least one mobile terminating circuit switched basic service.
SESSION MANAGEMENT				
11.1.1.1	Attach initiated by context activation/QoS Offered by Network is the QoS Requested	R99	C12	UE supporting PS domain services.
11.1.1.2.1	QoS offered by the network is a lower QoS / QoS accepted by UE	R99	C12	UE supporting PS domain services.
11.1.1.2.2	QoS offered by the network is a lower QoS / QoS rejected by UE	R99	C12	UE supporting PS domain services. This test may not be applicable to the UEs which support all QoS and it is not possible to configure the UE to reject any QoS.
11.1.2	PDP context activation requested by the network, successful and unsuccessful	R99	C17	UE supporting PS domain services configured in such a way that one or more PDP contexts can be active simultaneously.
11.1.3.1	Abnormal Cases / T3380 Expiry	R99	C12	UE supporting PS domain services.
11.1.3.2	Abnormal Cases / Collision of UE initiated and network requested PDP context activation	R99	C17	UE supporting PS domain services configured in such a way that one or more PDP contexts can be active simultaneously.
11.1.3.3	Network initiated PDP context activation request for an already activated PDP context (on the UE side)	R99	C12	UE supporting PS domain services.
11.1.4.1.1	Successful secondary PDP context activation procedure initiated by the UE/QoS Offered by Network is the QoS Requested	R99	C12	UE supporting PS domain services.
11.1.4.1.2.1	Successful secondary PDP context activation procedure Initiated by the UE/QoS Offered by Network is a lower QoS/QoS accepted by UE	R99	C12	UE supporting PS domain services.
11.1.4.1.2.2	Successful secondary PDP context activation procedure Initiated by the UE/QoS Offered by Network is a lower QoS/QoS rejected by UE	R99	C12	UE supporting PS domain services.
11.1.4.2	Unsuccessful Secondary PDP Context Activation Procedure Initiated by the UE	R99	C12	UE supporting PS domain services.
11.1.4.2.1	Abnormal cases/T3380 Expiry	R99	C12	UE supporting PS domain services.
11.2.1	Network initiated PDP context modification	R99	C12	UE supporting PS domain services.
11.2.2.1	UE initiated PDP context modification/UE initiated PDP context modification accepted by network	R99	C12	UE supporting PS domain services.
11.2.2.2	UE initiated PDP context modification/UE initiated PDP context modification not accepted by network	R99	C12	UE supporting PS domain services.
11.2.3.1	Abnormal Cases/T3381 Expiry	R99	C12	UE supporting PS domain services.
11.2.3.2	Collision of UE and network initiated PDP context modification procedures	R99	C12	UE supporting PS domain services.
11.3.1	PDP context deactivation initiated by the UE	R99	C12	UE supporting PS domain services.
11.3.2	PDP context deactivation initiated by the network	R99	C12	UE supporting PS domain services.
11.3.3.1	Abnormal cases / T3390 Expiry	R99	C12	UE supporting PS domain services.
11.3.3.2	Abnormal cases / Collision of UE and network initiated PDP context deactivation requests	R99	C12	UE supporting PS domain services.
11.4.1	Error cases	R99	C12	UE supporting PS domain services.
PACKET SWITCHED MOBILITY MANAGEMENT				
12.2.1.1	PS attach / accepted	R99	C12	UE supporting PS domain services.
12.2.1.2	PS attach / rejected / IMSI invalid / illegal UE	R99	C12	UE supporting PS domain services.
12.2.1.3	PS attach / rejected / IMSI invalid / PS services not allowed	R99	C12	UE supporting PS domain services.
12.2.1.4	PS attach / rejected / PLMN not allowed	R99	C12	UE supporting PS domain services.

Clause	Title	Release	Applicability	Comments
12.2.1.5	PS attach / rejected / roaming not allowed in this location area	R99	C12	UE supporting PS domain services.
12.2.1.6	PS attach / abnormal cases / access barred due to access class control	R99	C12	UE supporting PS domain services.
12.2.1.7	PS attach / abnormal cases / change of cell into new routing area	R99	C12	UE supporting PS domain services.
12.2.1.8	PS attach / abnormal cases / power off	R99	C12	UE supporting PS domain services.
12.2.1.9	PS attach / abnormal cases / PS detach procedure collision	R99	C12	UE supporting PS domain services.
12.2.2.1	Combined PS attach / PS and non-PS attach accepted	R99	C88	UE supporting PS domain services and CS domain services.
12.2.2.2	Combined PS attach / PS only attach accepted	R99	C88	UE supporting PS domain services and CS domain services.
12.2.2.3	Combined PS attach / PS attach while IMSI attach	R99	C103	UE supports UE operation mode A and does not support automatic PS attach procedure at switch on.
12.2.2.4	Combined PS attach / rejected / IMSI invalid / illegal ME	R99	C88	UE supporting PS domain services and CS domain services (UE supports UE operation mode A).
12.2.2.5	Combined PS attach / rejected / PS services and non-PS services not allowed	R99	C88	UE supporting PS domain services and CS domain services (UE supports UE operation mode A).
12.2.2.6	Combined PS attach / rejected / PS services not allowed	R99	C88	UE supporting PS domain services and CS domain services (UE supports UE operation mode A).
12.2.2.7	Combined PS attach / rejected / location area not allowed	R99	C88	UE supporting PS domain services and CS domain services (UE supports UE operation mode A).
12.2.2.8	Combined PS attach / abnormal cases / attempt counter check / miscellaneous reject causes	R99	C88	UE supporting PS domain services and CS domain services (UE supports UE operation mode A).
12.2.2.9	Combined PS attach / abnormal cases / PS detach procedure collision	R99	C88	UE supporting PS domain services and CS domain services (UE supports UE operation mode A).
12.3.1.1	PS detach / power off / accepted	R99	C12	UE supporting PS domain services.
12.3.1.2	PS detach / accepted	R99	C12	UE supporting PS domain services.
12.3.1.3	PS detach / abnormal cases / attempt counter check / procedure timeout	R99	C12	UE supporting PS domain services.
12.3.1.4	PS detach / abnormal cases / GMM common procedure collision	R99	C12	UE supporting PS domain services.
12.3.1.5	PS detach / power off / accepted	R99	C88	UE supporting PS domain services and CS domain services (UE supports UE operation mode A).
12.3.1.6	PS detach / accepted / PS/IMSI detach	R99	C88	UE supporting PS domain services and CS domain services (UE supports UE operation mode A).
12.3.1.7	PS detach / accepted / IMSI detach	R99	C12	UE supporting PS domain services.
12.3.1.8	PS detach / abnormal cases / change of cell into new routing area	R99	C88	UE supporting PS domain services and CS domain services (UE supports UE operation mode A).
12.3.1.9	PS detach / abnormal cases / PS detach procedure collision	R99	C88	UE supporting PS domain services and CS domain services (UE supports UE operation mode A).
12.3.2.1	PS detach / re-attach not required / accepted	R99	C12	UE supporting PS domain services.
12.3.2.2	PS detach / rejected / IMSI invalid / PS services not allowed	R99	C12	UE supporting PS domain services.
12.3.2.3	PS detach / IMSI detach / accepted	R99	C88	UE supporting PS domain services and CS domain services (UE supports UE operation mode A).
12.3.2.4	PS detach / re-attach requested / accepted	R99	C88	UE supporting PS domain services and CS domain services (UE supports UE operation mode A).
12.3.2.5	PS detach / rejected / location area not allowed	R99	C12	UE supporting PS domain services.
12.4.1.1	Routing area updating / accepted	R99	C12	UE supporting PS domain services.
12.4.1.2	Routing area updating / rejected / IMSI invalid / illegal ME	R99	C12	UE supporting PS domain services.
12.4.1.3	Routing area updating / rejected / UE identity cannot be derived by the network	R99	C12	UE supporting PS domain services.
12.4.1.4	Routing area updating / rejected / location area not allowed	R99	C12	UE supporting PS domain services.

Clause	Title	Release	Applicability	Comments
12.4.1.5	Routing area updating / abnormal cases / attempt counter check / miscellaneous reject causes	R99	C12	UE supporting PS domain services.
12.4.1.6	Routing area updating / abnormal cases / change of cell into new routing area	R99	C12	UE supporting PS domain services.
12.4.1.7	Routing area updating / abnormal cases / change of cell during routing area updating procedure	R99	C12	UE supporting PS domain services.
12.4.1.8	Routing area updating / abnormal cases / P-TMSI reallocation procedure collision	R99	C12	UE supporting PS domain services.
12.4.2.1	Combined routing area updating / combined RA/LA accepted	R99	C88	UE supporting PS domain services and CS domain services (UE supports UE operation mode A).
12.4.2.2	Combined routing area updating / UE in CS operation at change of RA	R99	C88	UE supporting PS domain services and CS domain services (UE supports UE operation mode A).
12.4.2.3	Combined routing area updating / RA only accepted	R99	C88	UE supporting PS domain services and CS domain services (UE supports UE operation mode A).
12.4.2.4	Combined routing area updating / rejected / PLMN not allowed	R99	C88	UE supporting PS domain services and CS domain services (UE supports UE operation mode A).
12.4.2.5	Combined routing area updating / rejected / roaming not allowed in this location area	R99	C88	UE supporting PS domain services and CS domain services (UE supports UE operation mode A).
12.4.2.6	Combined routing area updating / abnormal cases / access barred due to access class control	R99	C88	UE supporting PS domain services and CS domain services (UE supports UE operation mode A).
12.4.2.7	Combined routing area updating / abnormal cases / attempt counter check / procedure timeout	R99	C88	UE supporting PS domain services and CS domain services (UE supports UE operation mode A).
12.4.2.8	Combined routing area updating / abnormal cases / change of cell into new routing area	R99	C88	UE supporting PS domain services and CS domain services (UE supports UE operation mode A).
12.4.2.9	Combined routing area updating / abnormal cases / change of cell during routing area updating procedure	R99	C88	UE supporting PS domain services and CS domain services (UE supports UE operation mode A).
12.4.2.10	Combined routing area updating / abnormal cases / PS detach procedure collision	R99	C88	UE supporting PS domain services and CS domain services (UE supports UE operation mode A).
12.4.3.1	Periodic routing area updating / accepted	R99	C12	UE supporting PS domain services.
12.4.3.2	Periodic routing area updating / accepted / T3312 default value	R99	C12	UE supporting PS domain services.
12.4.3.3	Periodic routing area updating / no cell available / network mode I	R99	C12	UE supporting PS domain services.
12.4.3.4	Combined periodic routing area updating / no cell available	R99	C88	UE supporting PS domain services and CS domain services (UE supports UE operation mode A).
12.5	P-TMSI reallocation	R99	C12	UE supporting PS domain services.
12.6.1.1	Authentication accepted	R99	C12	UE supporting PS domain services.
12.6.1.2	Authentication rejected - by the network	R99	C12	UE supporting PS domain services.
12.6.1.3.1	GMM cause ‘MAC failure’	R99	C12	UE supporting PS domain services
12.6.1.3.2	GMM cause ‘Synch failure’	R99	C12	UE supporting PS domain services
12.6.1.3.3	Authentication rejected by the UE / fraudulent network	R99	C12	UE supporting PS domain services
12.7.1	General Identification	R99	C12	UE supporting PS domain services.
12.8	GMM READY timer handling	R99	C12	UE supporting PS domain services.
12.9.1	Service Request Initiated by UE Procedure	R99	C12	UE supporting PS domain services.
12.9.2	Service Request Initiated by Network Procedure	R99	C12	UE supporting PS domain services.
12.9.3	Service Request / rejected / Illegal MS	R99	C12	UE supporting PS domain services.
12.9.4	Service Request / rejected / PS services not allowed	R99	C12	UE supporting PS domain services.
12.9.5	Service Request / rejected / MS identity cannot be derived by the network	R99	C12	UE supporting PS domain services.
12.9.6	Service Request / rejected / PLMN not allowed	R99	C12	UE supporting PS domain services.
12.9.7	Service Request / rejected / No PDP context activated	R99	C12	UE supporting PS domain services.
12.9.8	Service Request / Abnormal cases / Access barred due to access class control	R99	C12	UE supporting PS domain services.

Clause	Title	Release	Applicability	Comments
12.9.9	Service Request / Abnormal cases / Routing area update procedure is triggered	R99	C12	UE supporting PS domain services.
12.9.10	Service Request / Abnormal cases / Power off	R99	C12	UE supporting PS domain services.
12.9.11	Service Request / Abnormal cases / Service request procedure collision	R99	C12	UE supporting PS domain services.
GENERAL TESTS				
13.2.1.1	Emergency call / with USIM / accept case	R99	C96	UEs supporting emergency speech call
13.2.2.1	Emergency call / without USIM / accept case	R99	C96	UEs supporting emergency speech call
13.2.2.2	Emergency call / without USIM / reject case	R99	C96	UEs supporting emergency speech call
RADIO BEARER SERVICES				
	Combinations on DPCH	R99		
14.2.1	Stand-alone UL:1.7 DL:1.7 kbps SRBs for DCCH	R99	C42	UEs supporting DL 32 kbps class or higher; and UL 32 kbps class or higher. See Note 1
14.2.2	Stand-alone UL:3.4 DL:3.4 kbps SRBs for DCCH	R99	C42	UEs supporting DL 32 kbps class or higher; and UL 32 kbps class or higher; and SF512. See Note 1
14.2.3	Stand-alone UL:13.6 DL:13.6 kbps SRBs for DCCH	R99	C42	UEs supporting DL 32 kbps class or higher; and UL 32 kbps class or higher. See Note 1
14.2.4	Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH	R99	C43	UEs supporting Narrow band speech (AMR); and CS bearer services; and Conversational traffic class; and DL 32 kbps class or higher; and UL 32 kbps class or higher. See Note 1
14.2.5	Conversational / speech / UL:10.2 DL:10.2 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH	R99	C43	UE supporting Narrow band speech (AMR); and CS bearer services; and Conversational traffic class; and DL 32 kbps class or higher; and UL 32 kbps class or higher. See Note 1
14.2.6	Conversational / speech / UL:7.95 DL:7.95 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH	R99	C43	UE supporting Narrow band speech (AMR); and CS bearer services; and Conversational traffic class; and DL 32 kbps class or higher; and UL 32 kbps class or higher. See Note 1
14.2.7	Conversational / speech / UL:7.4 DL:7.4 kbps / CS RAB+ UL:3.4 DL:3.4 kbps SRBs for DCCH	R99	C43	UE supporting Narrow band speech (AMR); and CS bearer services; and Conversational traffic class; and DL 32 kbps class or higher; and UL 32 kbps class or higher. See Note 1
14.2.8	Conversational / speech / UL:6.7 DL:6.7 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH	R99	C43	UE supporting Narrow band speech (AMR); and CS bearer services; and Conversational traffic class; and DL 32 kbps class or higher; and UL 32 kbps class or higher. See Note 1
14.2.9	Conversational / speech / UL:5.9 DL:5.9 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH	R99	C43	UE supporting Narrow band speech (AMR); and CS bearer services; and

Clause	Title	Release	Applicability	Comments
				Conversational traffic class; and DL 32 kbps class or higher; and UL 32 kbps class or higher. See Note 1
14.2.10	Conversational / speech / UL:5.15 DL:5.15 kbps / CS RAB + UL:1.7 DL:1.7 kbps SRBs for DCCH	R99	C43	UE supporting Narrow band speech (AMR); and CS bearer services; and Conversational traffic class; and DL 32 kbps class or higher; and UL 32 kbps class or higher. See Note 1
14.2.11	Conversational / speech / UL:4.75 DL:4.75 kbps / CS RAB + UL:1.7 DL:1.7 kbps SRBs for DCCH	R99	C43	UE supporting Narrow band speech (AMR); and CS bearer services; and Conversational traffic class; and DL 32 kbps class or higher; and UL 32 kbps class or higher. See Note 1
14.2.12	Conversational / unknown / UL:28.8 DL:28.8 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH	R99	C44	UE supporting CS bearer services; and Conversational traffic class; and DL 64 kbps class or higher; and UL 64 kbps class or higher. See Note 1
14.2.13.1	Conversational / unknown / UL:64 DL:64 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH / 20 ms TTI	R99	C44	UE supporting CS bearer services; and Conversational traffic class; and DL 64 kbps class or higher; and UL 64 kbps class or higher. See Note 1
14.2.13.2	Conversational / unknown / UL:64 DL:64 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH / 40 ms TTI	R99	C44	UE supporting CS bearer services; and Conversational traffic class; and DL 64 kbps class or higher; and UL 64 kbps class or higher. See Note 1
14.2.14.1	Conversational / unknown / UL:32 DL:32 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH / 20 ms TTI	R99	C44	UE supporting CS bearer services; and Conversational traffic class; and DL 64 kbps class or higher; and UL 64 kbps class or higher. See Note 1
14.2.14.2	Conversational / unknown / UL:32 DL:32 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH / 40 ms TTI	R99	C44	UE supporting CS bearer services; and Conversational traffic class; and DL 64 kbps class or higher; and UL 64 kbps class or higher. See Note 1
14.2.15	Streaming / unknown / UL:14.4/DL:14.4 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH	R99	C45	UE supporting CS bearer services; and Streaming traffic class; and DL 64 kbps class or higher; and UL 64 kbps class or higher. See Note 1
14.2.16	Streaming / unknown / UL:28.8/DL:28.8 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH	R99	C45	UE supporting CS bearer services; and Streaming traffic class; and DL 64 kbps class or higher; and UL 64 kbps class or higher. See Note 1
14.2.17	Streaming / unknown / UL:57.6/DL:57.6 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH	R99	C45	UE supporting CS bearer services; and Streaming traffic class; and DL 64 kbps class or higher; and

Clause	Title	Release	Applicability	Comments
				UL 64 kbps class or higher. See Note 1
14.2.18	Streaming / unknown / UL:0 DL:64 kbps / CS or PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH	R99	C46	UE supporting CS or PS bearer services; and Streaming traffic class; and DL 64 kbps class or higher; and UL 32 kbps class or higher. See Note 1
14.2.19	Streaming / unknown / UL:64 DL:0 kbps / CS or PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH	R99	C47	UE supporting CS or PS bearer services; and Streaming traffic class; and DL 32 kbps class or higher; and UL 64 kbps class or higher. See Note 1.
14.2.20	Streaming / unknown / UL:0 DL:128 kbps / CS or PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH	R99	C48	UE supporting CS or PS bearer services; and Streaming traffic class; and DL 384 kbps class or higher; and UL 32 kbps class or higher. See Note 1.
14.2.21	Streaming / unknown / UL:128 DL:0 kbps / CS or PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH	R99	C49	UEs supporting CS or PS bearer services; and Streaming traffic class; and DL 32 kbps class or higher; and UL 384 kbps class or higher. See Note 1
14.2.22	Streaming / unknown / UL:0 DL:384 kbps / CS or PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH	R99	C50	UE supporting CS or PS bearer services; and Streaming traffic class; and DL 2048 kbps class; and UL 32 kbps class or higher. See Note 1
14.2.23.1	Interactive or background / UL:32 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH / (TC, 10 ms TTI)	R99	C89	UE supporting PS bearer services; and Interactive or background traffic class; and DL 32 kbps class or higher; and UL 32 kbps class or higher; and Turbo encoding; and Turbo decoding. See Note 1
14.2.23.2	Interactive or background / UL:32 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH / (TC, 20 ms TTI)	R99	C89	UE supporting PS bearer services; and Interactive or background traffic class; and DL 32 kbps class or higher; and UL 32 kbps class or higher; and Turbo encoding; and Turbo decoding. See Note 1
14.2.23.3	Interactive or background / UL:32 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH / (CC, 10 ms TTI)	R99	C51	UE supporting PS bearer services; and Interactive or background traffic class; and DL 32 kbps class or higher; and UL 32 kbps class or higher. See Note 1
14.2.23.4	Interactive or background / UL:32 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH / (CC, 20 ms TTI)	R99	C51	UE supporting PS bearer services; and Interactive or background traffic class; and DL 32 kbps class or higher; and UL 32 kbps class or higher. See Note 1

Clause	Title	Release	Applicability	Comments
14.2.24	Interactive or background / UL:64 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH	R99	C52	UE supporting PS bearer services; and Interactive or background traffic class; and DL 32 kbps class or higher; and UL 64 kbps class or higher. See Note 1
14.2.25.1	Interactive or background / UL:32 DL: 64 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH/ (TC, 10 ms TTI)	R99	C90	UE supporting PS bearer services; and Interactive or background traffic class; and DL 64 kbps class or higher; and UL 32 kbps class or higher; and Turbo encoding; and Turbo decoding. See Note 1
14.2.25.2	Interactive or background / UL:32 DL: 64 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH / (TC, 20 ms TTI)	R99	C90	UE supporting PS bearer services; and Interactive or background traffic class; and DL 64 kbps class or higher; and UL 32 kbps class or higher; and Turbo encoding; and Turbo decoding. See Note 1
14.2.25.3	Interactive or background / UL:32 DL: 64 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH / (CC, 10 ms TTI)	R99	C53	UE supporting PS bearer services; and Interactive or background traffic class; and DL 64 kbps class or higher; and UL 32 kbps class or higher; and Turbo decoding. See Note 1
14.2.25.4	Interactive or background / UL:32 DL: 64 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH / (CC, 20 ms TTI)	R99	C53	UE supporting PS bearer services; and Interactive or background traffic class; and DL 64 kbps class or higher; and UL 32 kbps class or higher; and Turbo decoding. See Note 1
14.2.26	Interactive or background / UL:64 DL: 64 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH	R99	C54	UE supporting PS bearer services; and Interactive or background traffic class; and DL 64 kbps class or higher; and UL 64 kbps class or higher. See Note 1
14.2.27	Interactive or background / UL:64 DL:128 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH	R99	C55	UE supporting PS bearer services; and Interactive or background traffic class; and DL 128 kbps class or higher; and UL 64 kbps class or higher. See Note 1
14.2.28	Interactive or background / UL:128 DL:128 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH	R99	C56	UE supporting PS bearer services; and Interactive or background traffic class; and DL 128 kbps class or higher; and UL 128 kbps class or higher. See Note 1
14.2.29	Interactive or background / UL:64 DL:144 kbps / PS RAB + UL:3.4 DL: 3.4 kbps SRBs for DCCH	R99	C55	UE supporting PS bearer services; and Interactive or background traffic class; and

Clause	Title	Release	Applicability	Comments
				DL 128 kbps class or higher; and UL 64 kbps class or higher. See Note 1
14.2.30	Interactive or background / UL:144 DL:144 kbps / PS RAB + UL:3.4 DL: 3.4 kbps SRBs for DCCH	R99	C56	UE supporting PS bearer services; and Interactive or background traffic class; and DL 128 kbps class or higher; and UL 128 kbps class or higher. See Note 1
14.2.31.1	Interactive or background / UL:64 DL:256 kbps / PS RAB + UL:3.4 DL: 3.4 kbps SRBs for DCCH /10 ms TTI	R99	C57	UE supporting PS bearer services; and Interactive or background traffic class; and DL 384 kbps class or higher; and UL 64 kbps class or higher. See Note 1
14.2.31.2	Interactive or background / UL:64 DL:256 kbps / PS RAB + UL:3.4 DL: 3.4 kbps SRBs for DCCH /20 ms TTI	R99	C57	UE supporting PS bearer services; and Interactive or background traffic class; and DL 384 kbps class or higher; and UL 64 kbps class or higher. See Note 1
14.2.32.1	Interactive or background / UL:64 DL:384 kbps / PS RAB + UL:3.4 DL: 3.4 kbps SRBs for DCCH / 10 ms TTI	R99	C57	UE supporting PS bearer services; and Interactive or background traffic class; and DL 384 kbps class or higher; and UL 64 kbps class or higher. See Note 1
14.2.32.2	Interactive or background / UL:64 DL:384 kbps / PS RAB + UL:3.4 DL: 3.4 kbps SRBs for DCCH / 20 ms TTI	R99	C60	UE supporting PS bearer services; and Interactive or background traffic class; and DL 768 kbps class or higher; and UL 64 kbps class or higher. See Note 1
14.2.33.1	Interactive or background / UL:128 DL:384 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH / 10 ms TTI	R99	C58	UE supporting PS bearer services; and Interactive or background traffic class; and DL 384 kbps class or higher; and UL 128 kbps class or higher. See Note 1
14.2.33.2	Interactive or background / UL:128 DL:384 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH / 20 ms TTI	R99	C61	UE supporting PS bearer services; and Interactive or background traffic class; and DL 768 kbps class or higher; and UL 128 kbps class or higher. See Note 1
14.2.34.1	Interactive or background / UL:384 DL:384 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH / 10 ms TTI	R99	C59	UEs supporting PS bearer services; and Interactive or background traffic class; and DL 384 kbps class or higher; and UL 384 kbps class or higher. See Note 1
14.2.34.2	Interactive or background / UL:384 DL:384 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH / 20 ms TTI	R99	C62	UE supporting PS bearer services; and Interactive or background traffic class; and DL 768 kbps class or higher; and UL 768 kbps class or higher.

Clause	Title	Release	Applicability	Comments
				See Note 1
14.2.35.1	Interactive or background / UL:64 DL:2048 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH / 10 ms TTI	R99	C63	UE supporting PS bearer services; and Interactive or background traffic class; and DL 2048 kbps class; and UL 64 kbps class or higher; and Max UE test loop UL RLC SDU size 65535 bits. See Note 1
14.2.35.2	Interactive or background / UL:64 DL:2048 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH / 20 ms TTI	R99	C63	UE supporting PS bearer services; and Interactive or background traffic class; and DL 2048 kbps class; and UL 64 kbps class or higher; and Max UE test loop UL RLC SDU size 65535 bits. See Note 1
14.2.36.1	Interactive or background / UL:128 DL:2048 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH / 10 ms TTI	R99	C64	UE supporting PS bearer services; and Interactive or background traffic class; and DL 2048 kbps class; and UL 128 kbps class or higher; and Max UE test loop UL RLC SDU size 65535 bits. See Note 1
14.2.36.2	Interactive or background / UL:128 DL:2048 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH / 20 ms TTI	R99	C64	UE supporting PS bearer services; and Interactive or background traffic class; and DL 2048 kbps class; and UL 128 kbps class or higher; and Max UE test loop UL RLC SDU size 65535 bits. See Note 1
14.2.37.1	Interactive or background / UL:384 DL:2048 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH / 10 ms TTI	R99	C65	UE supporting PS bearer services; and Interactive or background traffic class; and DL 2048 kbps class; and UL 384 kbps class or higher and Max UE test loop UL RLC SDU size 65535 bits. See Note 1
14.2.37.2	Interactive or background / UL:384 DL:2048 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH / 20 ms TTI	R99	C66	UE supporting PS bearer services; and Interactive or background traffic class; and DL 2048 kbps class; and UL 768 kbps class; and Max UE test loop UL RLC SDU size 65535 bits. See Note 1
14.2.38.1	Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:32 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH / (TC, 20 ms TTI	R99	C91	UE supporting Narrow band speech (AMR); and Simultaneous CS and PS bearer services; and Conversational traffic class; and Interactive or Background traffic class; and DL 64 kbps class or higher; and UL 64 kbps class or higher; and Turbo encoding; and Turbo decoding.

Clause	Title	Release	Applicability	Comments
				See Note 1
14.2.38.2	Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:32 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH / (TC, 10 ms TTI	R99	C91	UE supporting Narrow band speech (AMR); and Simultaneous CS and PS bearer services; and Conversational traffic class; and Interactive or Background traffic class; and DL 64 kbps class or higher; and UL 64 kbps class or higher; and Turbo encoding; and Turbo decoding. See Note 1
14.2.38.3	Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:32 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH / (CC, 10 ms TTI	R99	C67	UE supporting Narrow band speech (AMR); and Simultaneous CS and PS bearer services; and Conversational traffic class; and Interactive or Background traffic class; and DL 64 kbps class or higher; and UL 64 kbps class or higher. See Note 1
14.2.38.4	Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:32 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH / (CC, 20 ms TTI	R99	C67	UE supporting Narrow band speech (AMR); and Simultaneous CS and PS bearer services; and Conversational traffic class; and Interactive or Background traffic class; and DL 64 kbps class or higher; and UL 64 kbps class or higher. See Note 1
14.2.39.1	Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:32 DL:64 kbps / PS RAB+ UL:3.4 DL: 3.4 kbps SRBs for DCCH / (TC, 10 ms TTI)	R99	C92	UE supporting Narrow band speech (AMR); and Simultaneous CS and PS bearer services; and Conversational traffic class; and Interactive or Background traffic class; and DL 64 kbps class or higher; and UL 64 kbps class or higher; and Turbo encoding; and Turbo decoding. See Note 1
14.2.39.2	Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:32 DL:64 kbps / PS RAB+ UL:3.4 DL: 3.4 kbps SRBs for DCCH / (TC, 20 ms TTI)	R99	C92	UE supporting Narrow band speech (AMR); and Simultaneous CS and PS bearer services; and Conversational traffic class; and Interactive or Background traffic class; and DL 64 kbps class or higher; and UL 64 kbps class or higher; and Turbo encoding; and Turbo decoding. See Note 1
14.2.39.3	Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:32 DL:64 kbps / PS RAB+ UL:3.4 DL: 3.4 kbps SRBs for DCCH / (CC, 10 ms TTI)	R99	C67	UE supporting Narrow band speech (AMR); and Simultaneous CS and PS bearer services; and Conversational traffic class; and Interactive or Background traffic class; and DL 64 kbps class or higher; and UL 64 kbps class or higher; and Turbo decoding. See Note 1

Clause	Title	Release	Applicability	Comments
14.2.39.4	Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:32 DL:64 kbps / PS RAB+ UL:3.4 DL: 3.4 kbps SRBs for DCCH / (CC, 20 ms TTI)	R99	C67	UE supporting Narrow band speech (AMR); and Simultaneous CS and PS bearer services; and Conversational traffic class; and Interactive or Background traffic class; and DL 64 kbps class or higher; and UL 64 kbps class or higher; and Turbo decoding. See Note 1
14.2.40	Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:64 DL:64 kbps / PS RAB+ UL:3.4 DL: 3.4 kbps SRBs for DCCH	R99	C67	UE supporting Narrow band speech (AMR); and Simultaneous CS and PS bearer services; and Conversational traffic class; and Interactive or Background traffic class; and DL 64 kbps class or higher; and UL 64 kbps class or higher. See Note 1
14.2.41	Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:64 DL:128 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH	R99	C68	UE supporting Narrow band speech (AMR); and Simultaneous CS and PS bearer services; and Conversational traffic class; and Interactive or Background traffic class; and DL 128 kbps class or higher; and UL 64 kbps class or higher. See Note 1
14.2.42	Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:64 DL:256 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH	R99	C69	UE supporting Narrow band speech (AMR); and Simultaneous CS and PS bearer services; and Conversational traffic class; and Interactive or Background traffic class; and DL 384 kbps class or higher; and UL 64 kbps class or higher. See Note 1
14.2.43.1	Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:64 DL:384 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH / 10 ms TTI	R99	C69	UE supporting Narrow band speech (AMR); and Simultaneous CS and PS bearer services; and Conversational traffic class; and Interactive or Background traffic class; and DL 384 kbps class or higher; and UL 64 kbps class or higher. See Note 1
14.2.43.2	Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:64 DL:384 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH / 20 ms TTI	R99	C70	UE supporting Narrow band speech (AMR); and Simultaneous CS and PS bearer services; and Conversational traffic class; and Interactive or Background traffic class; and DL 768 kbps class or higher; and UL 64 kbps class or higher. See Note 1
14.2.44.1	Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:128 DL:2048 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH / 10 ms TTI	R99	C71	UE supporting Narrow band speech (AMR); and Simultaneous CS and PS bearer services; and Conversational traffic class; and Interactive or Background traffic class; and

Clause	Title	Release	Applicability	Comments
				DL 2048 kbps class; and UL 128 kbps class or higher; and Max UE test loop UL RLC SDU size 65535 bits. See Note 1
14.2.44.2	Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:128 DL:2048 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH / 20 ms TTI	R99	C71	UE supporting Narrow band speech (AMR); and Simultaneous CS and PS bearer services; and Conversational traffic class; and Interactive or Background traffic class; and DL 2048 kbps class; and UL 128 kbps class or higher; and Max UE test loop UL RLC SDU size 65535 bits. See Note 1
14.2.45	Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Streaming / unknown / UL:57.6 DL:57.6 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH	R99	C72	UE supporting Multicall (2xCS); and Narrow band speech (AMR); and CS bearer service; and Conversational traffic class; and Streaming traffic class; and DL 64 kbps class or higher; and UL 64 kbps class or higher; and Turbo decoding. See Note 1
14.2.46	Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Streaming / unknown / UL:0 DL:64 kbps / CS or PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH	R99	C73	UE supporting Narrow band speech (AMR); and CS bearer service; and Multicall (2xCS) or Simultaneous CS and PS bearer services; and Conversational traffic class; and Streaming traffic class; and DL 64 kbps class or higher; and UL 32 kbps class or higher; and Turbo decoding. See Note 1
14.2.47	Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Streaming / unknown / UL:0 DL:128 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH	R99	C74	UE supporting Narrow band speech (AMR); and CS bearer service; and Multicall (2xCS); and Conversational traffic class; and Streaming traffic class; and DL 128 kbps class or higher; and UL 32 kbps class or higher; and Turbo decoding. See Note 1
14.2.48	Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Streaming / unknown / UL:0 DL:384 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH	R99	C75	UE supporting Narrow band speech (AMR); and CS bearer service; and Multicall (2xCS); and Conversational traffic class; and Streaming traffic class; and DL 2048 kbps class; and UL 32 kbps class or higher; and Turbo decoding. See Note 1
14.2.49.1	Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Conversational / unknown / UL:64 DL:64 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH / 20 ms TTI	R99	C76	UE supporting Multicall (2xCS); and Narrow band speech (AMR); and CS bearer services; and Conversational traffic class; and DL 64 kbps class or higher; and UL 64 kbps class or higher; and Turbo decoding. See Note 1

Clause	Title	Release	Applicability	Comments
14.2.49.2	Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Conversational / unknown / UL:64 DL:64 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH / 40 ms TTI	R99	C76	UE supporting Multicall (2xCS); and Narrow band speech (AMR); and CS bearer services; and Conversational traffic class; and DL 64 kbps class or higher; and UL 64 kbps class or higher; and Turbo decoding. See Note 1
14.2.50.1	Conversational / unknown / UL:64 DL:64 kbps / CS RAB + Conversational / unknown / UL:64 DL:64 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH / 20 ms TTI	R99	C77	UE supporting Multicall (2xCS); and CS bearer service; and Conversational traffic class; and DL 384 kbps class or higher; and UL 384 kbps class or higher; and Turbo decoding. See Note 1
14.2.50.2	Conversational / unknown / UL:64 DL:64 kbps / CS RAB + Conversational / unknown / UL:64 DL:64 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH / 40 ms TTI	R99	C77	UE supporting Multicall (2xCS); and CS bearer service; and Conversational traffic class; and DL 384 kbps class or higher; and UL 384 kbps class or higher; and Turbo decoding. See Note 1
14.2.51.1	Conversational / unknown / UL:64 DL:64 kbps / CS RAB / 20 ms TTI + Interactive or background / UL:64 DL:64 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH	R99	C78	UE supporting Simultaneous CS and PS bearer services; and Conversational traffic class; and Interactive or Background traffic class; and DL 384 kbps class or higher; and UL 384 kbps class or higher; and Turbo decoding. See Note 1
14.2.51.2	Conversational / unknown / UL:64 DL:64 kbps / CS RAB / 40 ms TTI + Interactive or background / UL:64 DL:64 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH	R99	C78	UE supporting Simultaneous CS and PS bearer services; and Conversational traffic class; and Interactive or Background traffic class; and DL 384 kbps class or higher; and UL 384 kbps class or higher; and Turbo decoding. See Note 1
14.2.52.1	Conversational / unknown / UL:64 DL:64 kbps / CS RAB / 20 ms TTI + Interactive or background / UL:64 DL:128 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH	R99	C78	UE supporting Simultaneous CS and PS bearer services; and Conversational traffic class; and Interactive or Background traffic class; and DL 384 kbps class or higher; and UL 384 kbps class or higher; and Turbo decoding. See Note 1
14.2.52.2	Conversational / unknown / UL:64 DL:64 kbps / CS RAB / 40 ms TTI + Interactive or background / UL:64 DL:128 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH	R99	C78	UE supporting Simultaneous CS and PS bearer services; and Conversational traffic class; and Interactive or Background traffic class; and DL 384 kbps class or higher; and UL 384 kbps class or higher; and Turbo decoding. See Note 1
14.2.53.1	Conversational / unknown / UL:64 DL:64 kbps / CS RAB / 20 ms TTI + Interactive or	R99	C78	UE supporting Simultaneous CS and PS bearer

Clause	Title	Release	Applicability	Comments
	background / UL:128 DL:128 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH			services; and Conversational traffic class; and Interactive or Background traffic class; and DL 384 kbps class or higher; and UL 384 kbps class or higher; and Turbo decoding. See Note 1
14.2.53.2	Conversational / unknown / UL:64 DL:64 kbps / CS RAB / 40 ms TTI + Interactive or background / UL:128 DL:128 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH	R99	C78	UE supporting Simultaneous CS and PS bearer services; and Conversational traffic class; and Interactive or Background traffic class; and DL 384 kbps class or higher; and UL 384 kbps class or higher; and Turbo decoding. See Note 1
14.2.54	Interactive or background / UL:64 DL:128 kbps / PS RAB + Streaming / unknown / UL:0 DL:64 kbps / CS or PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH	R99	C79	UE supporting PS bearer services; and Streaming traffic class; and Interactive or Background traffic class; and DL 384 kbps class or higher; and UL 64 kbps class or higher; and Turbo decoding. See Note 1
14.2.55	Interactive or background / UL:64 DL:128 kbps / PS RAB + Streaming / unknown / UL:0 DL:128 kbps / CS or PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH	R99	C80	UE supporting PS bearer services; and Streaming traffic class; and Interactive or Background traffic class; and DL 768 kbps class or higher; and UL 64 kbps class or higher; and Turbo decoding. See Note 1
	Combinations on PDSCH and DPCH	R99		
14.3.1.1	Interactive or background / UL:64 DL:256 kbps / PS RAB / 10 ms TTI + UL:3.4 DL: 3.4 kbps SRBs for DCCH	R99	C81	UE supporting PS bearer services; and Interactive or Background traffic class; and DL 768 kbps class or higher; and UL 64 kbps class or higher; and PDSCH; and Turbo decoding. Alternatively to DL 768 kbps class the test case may be applicable to DL 384 kbps class. See Note 1
14.3.1.2	Interactive or background / UL:64 DL:256 kbps / PS RAB / 20 ms TTI + UL:3.4 DL: 3.4 kbps SRBs for DCCH	R99	C81	UE supporting PS bearer services; and Interactive or Background traffic class; and DL 768 kbps class or higher; and UL 64 kbps class or higher; and PDSCH; and Turbo decoding. Alternatively to DL 768 kbps class the test case may be applicable to DL 384 kbps class. See Note 1
14.3.2.1	Interactive or background / UL:64 DL:384 kbps / PS RAB / 10 ms TTI + UL:3.4 DL: 3.4 kbps SRBs for DCCH	R99	C81	UE supporting PS bearer services; and Interactive or Background traffic class; and DL 768 kbps class or higher; and

Clause	Title	Release	Applicability	Comments
				UL 64 kbps class or higher; and PDSCH; and Turbo decoding. Alternatively to DL 768 kbps class the test case may be applicable to DL 384 kbps class. See Note 1
14.3.2.2	Interactive or background / UL:64 DL:384 kbps / PS RAB / 20 ms TTI + UL:3.4 DL: 3.4 kbps SRBs for DCCH	R99	C81	UE supporting PS bearer services; and Interactive or Background traffic class; and DL 768 kbps class or higher; and UL 64 kbps class or higher; and PDSCH; and Turbo decoding. Alternatively to DL 768 kbps class the test case may be applicable to DL 384 kbps class. See Note 1
14.3.3.1	Interactive or background / UL:64 DL:2048 kbps / PS RAB / 10 ms TTI + UL:3.4 DL: 3.4 kbps SRBs for DCCH	R99	C87	UE supporting PS bearer services; and Interactive or Background traffic class; and DL 2048 kbps class; and UL 64 kbps class or higher; and PDSCH; and Turbo decoding; and UE test loop UL RLC SDU size upto 65535 bits. See Note 1
14.3.3.2	Interactive or background / UL:64 DL:2048 kbps / PS RAB / 20 ms TTI + UL:3.4 DL: 3.4 kbps SRBs for DCCH	R99	C87	UE supporting PS bearer services; and Interactive or Background traffic class; and DL 2048 kbps class; and UL 64 kbps class or higher; and PDSCH; and Turbo decoding. See Note 1
14.3.4	Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:64 DL:256 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH	R99	C82	UE supporting Narrow band speech (AMR); and Simultaneous CS and PS bearer services; and Conversational traffic class; and Interactive or Background traffic class; and DL 768 kbps class or higher; and UL 64 kbps class or higher; and PDSCH; and Turbo decoding. Alternatively to DL 768 kbps class the test case may be applicable to DL 384 kbps class. See Note 1
14.3.5	Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:64 DL:384 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH	R99	C82	UE supporting Narrow band speech (AMR); and Simultaneous CS and PS bearer services; and Conversational traffic class; and Interactive or Background traffic class; and DL 768 kbps class or higher; and UL 64 kbps class or higher; and PDSCH; and Turbo decoding.

Clause	Title	Release	Applicability	Comments
				Alternatively to DL 768 kbps class the test case may be applicable to DL 384 kbps class. See Note 1
14.3.6	Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:64 DL:2048 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH	R99	C83	UE supporting Narrow band speech (AMR); and Simultaneous CS and PS bearer services; and Conversational traffic class; and Interactive or Background traffic class; and DL 2048 kbps class; and UL 64 kbps class or higher; and PDSCH; and Turbo decoding; and Max UE test loop UL RLC SDU size 65535 bits. See Note 1
	Combinations on SCCPCH	R99		
14.4.1	Stand-alone signalling RB for PCCH	R99	C84	UE supporting DL 32 kbps class or higher. See Note 1
14.4.2	Interactive/Background 32 kbps PS RAB + SRBs for CCCH + SRB for DCCH + SRB for BCCH	R99	C85	UE supporting PS bearer services; and Interactive or Background traffic class; and DL 32 kbps class or higher; and Turbo decoding. See Note 1
14.4.3	Interactive/Background 32 kbps RAB + SRBs for PCCH + SRB for CCCH + SRB for DCCH + SRB for BCCH	R99	C85	UE supporting PS bearer services; and Interactive or Background traffic class; and DL 32 kbps class or higher; and Turbo decoding. See Note 1
	Combinations on PRACH	R99		
14.5.1	Interactive/Background 32 kbps PS RAB + SRB for CCCH + SRB for DCCH	R99	C86	UE supporting PS bearer services; and Interactive or Background traffic class; and UL 32 kbps class or higher; and Turbo decoding. See Note 1
SMS				
16.1.1	SMS on CS mode / SMS mobile terminated	R99	C18	UE capable of receiving Short Message at any time on CS mode.
16.1.2	SMS on CS mode / SMS mobile originated	R99	C20	UE capable of submitting Short Message at any time on CS mode.
16.1.3	SMS on CS mode / Test of memory full condition and memory available notification	R99	C21	UE capable of sending the correct acknowledgement of memory full condition on CS mode.
16.1.4	SMS on CS mode / Test of the status report capabilities and of SMS-COMMAND	R99	C22	UEs supporting the status report capabilities on CS mode.
16.1.5.1	SMS on CS mode / Short message class 0	R99	C23	UE capable of displaying short messages on CS mode
16.1.5.2	SMS on CS mode / Test of class 1 short messages	R99	C24	UE capable of displaying short messages and storing of received Class 1 Short Messages on CS mode
16.1.5.3	SMS on CS mode / Test of class 2 short messages	R99	C25	UE capable of displaying short messages and storing of received Class 2 Short Messages in the SIM on CS mode.
16.1.5.4	SMS on CS mode / Test of class 3 short messages	R99	[FFS]	[FFS]
16.1.6	SMS on CS mode / Test of short message type 0 (???)	R99	[FFS]	[FFS}

Clause	Title	Release	Applicability	Comments
16.1.7	SMS on CS mode / Test of the replace mechanism for SM type 1-7	R99	C33	UEs which support Replace Short Messages and display of received Short Messages on CS mode.
16.1.8	SMS on CS mode / Test of the reply path scheme	R99	C34	UEs which support reply procedures (the class of UEs for which this is mandatory is described in TS 23.040, annex 4) displaying of received Short Messages and submitting Short Messages on CS mode.
16.1.9.1	SMS on CS mode / Multiple SMS mobile originated / UE in idle mode	R99	C35	UE supporting the ability of sending multiple short messages on the same RR connection when there is no call in progress on CS mode.
16.1.9.2	SMS on CS mode / Multiple SMS mobile originated / UE in active mode	R99	C36	UE supporting the ability of sending concatenated multiple short messages when there is a call in progress on CS mode.
16.1.10	SMS on CS mode / Test of capabilities of simultaneously receiving a short message whilst sending a mobile originated short message	R99	C101	UE capable of receiving Short Message whilst sending Short Message on CS mode.
16.2.1	SMS on PS mode / SMS mobile terminated	R99	C26	UE capable of receiving Short Message at any time on PS mode.
16.2.2	SMS on PS mode / SMS mobile originated	R99	C27	UE capable of submitting Short Message at any time on PS mode.
16.2.3	SMS on PS mode / Test of memory full condition and memory available notification	R99	C28	UE capable of sending the correct acknowledgement of memory full condition in PS mode.
16.2.4	SMS on PS mode / Test of the status report capabilities and of SMS-COMMAND	R99	C29	UEs supporting the status report capabilities in PS mode.
16.2.5.1	Short message class 0	R99	C30	UE capable of displaying short messages in PS mode
16.2.5.2	SMS on PS mode / Test of class 1 short messages	R99	C31	UE capable of displaying short messages and storing of received Class 1 Short Messages in PS mode
16.2.5.3	SMS on PS mode / Test of class 2 short messages	R99	C32	UE capable of displaying short messages and storing of received Class 2 Short Messages in the SIM in PS mode.
16.2.5.4	SMS on PS mode / Test of class 3 short messages	R99	[FFS]	[FFS]
16.2.6	SMS on PS mode / Test of short message type 0 (???)	R99	[FFS]	[FFS]
16.2.7	SMS on PS mode / Test of the replace mechanism for SM type 1-7	R99	C37	UEs which support Replace Short Messages and display of received Short Messages in PS mode.
16.2.8	SMS on PS mode / Test of the reply path scheme	R99	C38	UEs which support reply procedures (the class of UEs for which this is mandatory is described in TS 23.040, annex 4) displaying of received Short Messages and submitting Short Messages in PS mode.
16.2.10	SMS on PS mode / Test of capabilities of simultaneously receiving a short message whilst sending a mobile originated short message	R99	C102	UE capable of receiving Short Message whilst sending Short Message on PS mode.
16.3	Short message service cell broadcast	R99	R	All UEs.
USER EQUIPMENT FEATURES				
17.1.2	Constraining the access to a single number	R99	C93	All UEs supporting autocalling
17.1.3	Constraining the access to a single number	R99	C93	All UEs supporting autocalling
17.1.4	Behaviour of the MS when its list of blacklisted numbers is full	R99	C94	UEs that are capable of autocalling more than M B-party numbers.

C01	IF A.1/1 ~~OR A.1/3 OR A.1/4 OR A.1/6~~ THEN R ELSE N/A
C02	IF A.1/2 ~~OR A.1/3 OR A.1/5 OR A.1/6~~ THEN R ELSE N/A
C03	IF A.1/3 ~~OR A.1/6~~ THEN R ELSE N/A
C04	IF ~~(~~A.1/1 ~~OR A.1/3 OR A.1/4 OR A.1/6)~~ AND A.2/2 THEN R ELSE N/A
C05	IF ~~A.1/4 OR A.1/6~~ A.1/1 AND A.1/4 THEN R ELSE N/A
C06	IF ~~(~~A.1/1 ~~OR A.1/3 OR A.1/4 OR A.1/6)~~ AND A.3/2 THEN R ELSE N/A
C07	IF ~~(~~A.1/1 ~~OR A.1/3 OR A.1/4 OR A.1/6)~~ AND A.20/27 THEN R ELSE N/A
C08	IF ~~(~~A.1/1 ~~OR A.1/3 OR A.1/4 OR A.1/6)~~ AND A.20/28 THEN R ELSE N/A
C09	IF ~~(~~A.1/1 ~~OR A.1/3 OR A.1/4 OR A.1/6)~~ AND NOT A.20/3 THEN R ELSE N/A
C10	IF A.20/4 THEN R ELSE N/A
C11	IF A.20/5 THEN R ELSE N/A
C12	IF A.3/2 THEN R ELSE N/A
C13	IF A.2/1 OR A.2/2 OR A.10/2 THEN R ELSE N/A
C14	IF A.20/4 OR A.20/5 THEN R ELSE N/A
C15	IF A.10/2 THEN R ELSE N/A
C16	IF A.20/1 THEN R ELSE N/A
C17	IF A.3/3 AND A.20/7 THEN R ELSE N/A
C18	IF A.2/3 THEN R ELSE N/A
C19	(void)~~IF A.1/1 THEN R ELSE N/A~~
C20	IF A.2/4 THEN R ELSE N/A
C21	IF A.20/8 AND A.3/1 THEN R ELSE N/A
C22	IF A.20/9 AND A.3/1 THEN R ELSE N/A
C23	IF A.3/1 THEN R ELSE N/A
C24	IF A.20/11 AND A.3/1 THEN R ELSE N/A
C25	IF A.20/12 AND A.3/1 THEN R ELSE N/A
C26	IF A.2/5 THEN R ELSE N/A
C27	IF A.2/6 THEN R ELSE N/A
C28	IF A.20/8 AND A.3/2 THEN R ELSE N/A
C29	IF A.20/9 AND A.3/2 THEN R ELSE N/A
C30	A.3/2 THEN R ELSE N/A
C31	IF A.20/11 AND A.3/2 THEN R ELSE N/A
C32	IF A.20/12 AND A.3/2 THEN R ELSE N/A
C33	IF A.20/13 AND A.3/1 THEN R ELSE N/A
C34	IF A.20/14 AND A.2/4 AND A.3/1 THEN R ELSE N/A
C35	IF A.20/15 AND A.3/1 THEN R ELSE N/A
C36	IF A.20/16 AND A.3/1 THEN R ELSE N/A
C37	IF A.20/13 AND A.3/2 THEN R ELSE N/A
C38	IF A.20/14 AND A.2/6 THEN R ELSE N/A
C39	IF A.20/15 AND A.3/2 THEN R ELSE N/A
C40	IF A.20/16 AND A.3/2 THEN R ELSE N/A
C41	IF (NOT A.20/17) AND (NOT A.20/6) AND A.20/5 THEN R ELSE N/A
C42	IF A.17/1 AND A.18/1 AND A.18b/3 THEN R ELSE N/A
C43	IF A.2/1 AND A.3/1 AND A.6/1 AND A.17/1 AND A.18/1 THEN R ELSE N/A
C44	IF A.3/1 AND A.6/1 AND A.17/2 AND A.18/2 THEN R ELSE N/A
C45	IF A.3/1 AND A.6/2 AND A.17/2 AND A.18/2 THEN R ELSE N/A
C46	IF (A.3/1 OR A.3/2) AND A.6/2 AND A.17/2 AND A.18/1 THEN R ELSE N/A
C47	IF (A.3/1 OR A.3/2) AND A.6/2 AND A.17/1 AND A.18/2 THEN R ELSE N/A
C48	IF (A.3/1 OR A.3/2) AND A.6/2 AND A.17/4 AND A.18/1 THEN R ELSE N/A
C49	IF (A.3/1 OR A.3/2) AND A.6/2 AND A.17/1 AND A.18/4 THEN R ELSE N/A
C50	IF (A.3/1 OR A.3/2) AND A.6/2 AND A.17/6 AND A.18/1 THEN R ELSE N/A
C51	IF A.3/2 AND (A.6/3 OR A.6/4) AND A.17/1 AND A.18/1 THEN R ELSE N/A
C52	IF A.3/2 AND (A.6/3 OR A.6/4) AND A.17/1 AND A.18/2 THEN R ELSE N/A
C53	IF A.3/2 AND (A.6/3 OR A.6/4) AND A.17/2 AND A.18/1 AND A.18b/1 THEN R ELSE N/A
C54	IF A.3/2 AND (A.6/3 OR A.6/4) AND A.17/2 AND A.18/2 THEN R ELSE N/A
C55	IF A.3/2 AND (A.6/3 OR A.6/4) AND A.17/3 AND A.18/2 THEN R ELSE N/A
C56	IF A.3/2 AND (A.6/3 OR A.6/4) AND A.17/3 AND A.18/3 THEN R ELSE N/A
C57	IF A.3/2 AND (A.6/3 OR A.6/4) AND A.17/4 AND A.18/2 THEN R ELSE N/A
C58	IF A.3/2 AND (A.6/3 OR A.6/4) AND A.17/4 AND A.18/3 THEN R ELSE N/A
C59	IF A.3/2 AND (A.6/3 OR A.6/4) AND A.17/4 AND A.18/4 THEN R ELSE N/A
C60	IF A.3/2 AND (A.6/3 OR A.6/4) AND A.17/5 AND A.18/2 THEN R ELSE N/A
C61	IF A.3/2 AND (A.6/3 OR A.6/4) AND A.17/5 AND A.18/3 THEN R ELSE N/A
C62	IF A.3/2 AND (A.6/3 OR A.6/4) AND A.17/5 AND A.18/5 THEN R ELSE N/A
C63	IF A.3/2 AND (A.6/3 OR A.6/4) AND A.17/6 AND A.18/2 AND A.13/2 THEN R ELSE N/A
C64	IF A.3/2 AND (A.6/3 OR A.6/4) AND A.17/6 AND A.18/3 AND A.13/2 THEN R ELSE N/A
C65	IF A.3/2 AND (A.6/3 OR A.6/4) AND A.17/6 AND A.18/4 AND A.13/2 THEN R ELSE N/A
C66	IF A.3/2 AND (A.6/3 OR A.6/4) AND A.17/6 AND A.18/5 AND A.13/2 THEN R ELSE N/A
C67	IF A.2/1 AND A.3/3 AND A.6/1 AND (A.6/3 OR A.6/4) AND A.17/2 AND A.18/2 AND A.18b/1 THEN R ELSE N/A
C68	IF A.2/1 AND A.3/3 AND A.6/1 AND (A.6/3 OR A.6/4) AND A.17/3 AND A.18/2 THEN R ELSE N/A

C69 IF A.2/1 AND A.3/3 AND A.6/1 AND (A.6/3 OR A.6/4) AND A.17/4 AND A.18/2 THEN R ELSE N/A
C70 IF A.2/1 AND A.3/3 AND A.6/1 AND (A.6/3 OR A.6/4) AND A.17/5 AND A.18/2 THEN R ELSE N/A
C71 IF A.2/1 AND A.3/3 AND A.6/1 AND (A.6/3 OR A.6/4) AND A.17/6 AND A.18/3 AND A.13/2 THEN R ELSE N/A
C72 IF A.7/28 AND A.2/1 AND A.3/1 AND A.6/1 AND A.6/2 AND A.17/2 AND A.18/2 THEN R ELSE N/A
C73 IF A.2/1 AND ((A.3/1 AND A.7/28) OR A.3/3) AND A.6/1 AND A.6/2 AND A.17/2 AND A.18/1 THEN R ELSE N/A
C74 IF A.2/1 AND A.3/1 AND A.7/28 AND A.6/1 AND A.6/2 AND A.17/3 AND A.18/1 THEN R ELSE N/A
C75 IF A.2/1 AND A.3/1 AND A.7/28 AND A.6/1 AND A.6/2 AND A.17/6 AND A.18/1 THEN R ELSE N/A
C76 IF A.7/28 AND A.2/1 AND A.3/1 AND A.6/1 AND A.17/2 AND A.18/2 THEN R ELSE N/A
C77 IF A.7/28 AND A.3/1 AND A.6/1 AND A.17/4 AND A.18/4 THEN R ELSE N/A
C78 IF A.3/3 AND A.6/1 AND (A.6/3 OR A.6/4) AND A.17/4 AND A.18/4 THEN R ELSE N/A
C79 IF (A.3/2 OR A.3/3) AND A.6/2 AND (A.6/3 OR A.6/4) AND A.17/4 AND A.18/2 THEN R ELSE N/A
C80 IF A.3/2 AND A.6/2 AND (A.6/3 OR A.6/4) AND A.17/5 AND A.18/2 THEN R ELSE N/A
C81 IF A.3/2 AND (A.6/3 OR A.6/4) AND A.17/5 AND A.18/2 AND A.18b/4 THEN R ELSE N/A

Alternatively to DL 768 kbps class the test case may be applicable to DL 384 kbps class, then:
IF A.3/2 AND (A.6/3 OR A.6/4) AND A.17/4 AND A.18/2 AND A.18b/4 AND THEN E ELSE N/A

C82 IF A.3/3 AND (A.6/3 OR A.6/4) AND A.17/5 AND A.18/2 AND A.18b/4 THEN R ELSE N/A

Alternatively to DL 768 kbps class the test case may be applicable to DL 384 kbps class, then:
IF A.2/1 AND A.3/3 AND A.6/1 AND (A.6/3 OR A.6/4) AND A.17/4 AND A.18/2 AND A.18b/4 THEN R ELSE N/A

C83 IF A.2/1 AND A.3/3 AND A.6/1 AND (A.6/3 OR A.6/4) AND A.17/6 AND A.18/2 AND A.18b/4 AND A.13/2 THEN R ELSE N/A
C84 IF A.17/1 THEN R ELSE N/A
C85 IF A.3/2 AND (A.6/3 OR A.6/4) AND A.17/1 THEN R ELSE N/A
C86 IF A.3/2 AND (A.6/3 OR A.6/4) AND A.18/1 THEN R ELSE N/A
C87 IF A.3/2 AND (A.6/3 OR A.6/4) AND A.17/6 AND A.18/2 AND A.18b/4 AND A.13/2 THEN R ELSE N/A
C88 IF A.3/3 THEN R ELSE N/A.
C89 IF (A.3/1 OR A.3/2) AND A.6/2 AND A.17/6 AND A.18/1 AND A.18b/1 AND A.18b/2 THEN R ELSE N/A
C90 IF A.3/2 AND (A.6/3 OR A.6/4) AND A.17/2 AND A.18/1 AND A.18b/1 AND A.18b/2 THEN R ELSE N/A
C91 IF A.3/2 AND (A.6/3 OR A.6/4) AND A.17/6 AND A.18/5 AND A.18b/1 AND A.18b/2 THEN R ELSE N/A
C92 IF A.2/1 AND A.3/3 AND A.6/1 AND (A.6/3 OR A.6/4) AND A.17/2 AND A.18/2 AND A.18b/1 AND A.18b/2 THEN R ELSE N/A
C93 IF A.20/29 THEN R ELSE N/A
C94 IF A.20/29 AND A.20/30 THEN R ELSE N/A
C95 IF (A.1/1 AND A.1/4~~A.1/4 OR A.1/6~~) AND (A.2/1 OR A.2/2) THEN R ELSE N/A
C96 IF A.2/2 THEN R ELSE N/A
C97 IF (A.1/1 AND A.1/4~~A.1/4 OR A.1/6~~) AND A.3/1 AND (A.4/1 OR A.4/2 OR A.4/3 OR A.4/4 OR A.4/5 OR A.4/6 OR A.4/7 OR A.4/8 OR A.4/9 OR A.4/10 OR A.4/11 OR A.4/12 OR A.4/13 OR A.4/14 OR A.4/15 OR A.4/16 OR A.4/17 OR A.4/18 OR A.4/19 OR A.4/20 OR A.4/21 OR A.4/22 OR A.4/23 OR A.4/24 OR A.4/25 OR A.4/26 OR A.4/27 OR A.4/28) THEN R ELSE N/A
C98 IF A.3/1 OR A.3/3 THEN R ELSE N/A.
C99 IF (A.3/1 OR A.3/3) AND A.20/36 THEN R ELSE N/A.
C100 IF (A.3/1 OR A.3/3) AND A.7/30 THEN R ELSE N/A.
C101 IF A.2/3 AND A.2/4 THEN R ELSE N/A
C102 IF A.2/5 AND A.2/6 THEN R ELSE N/A
C103 IF A.3/3 AND (NOT A.20/38) THEN R ELSE N/A
C104 IF A.20/37 AND (~~A.1/1 OR A.1/3 OR A.1/4 OR A.1/6)~~ THEN R ELSE N/A
C105 IF A.20/37 AND (A.1/1 AND A.1/4~~A.1/4 OR A.1/6~~) THEN R ELSE N/A
C106 IF (~~A.1/1 OR A.1/3 OR A.1/4 OR A.1/6)~~ AND A.2/1 AND A.2/2 THEN R ELSE N/A

Note 1. See [34a] TS 25.306 for definition of UE radio access reference combinations in uplink and downlink (UL xx kbps/DL xx kbps classes). See Annex B for mapping between reference radio bearer combinations and UE radio access reference combinations in uplink and downlink.

Annex A (normative): ICS proforma for 3rd Generation User Equipment

A.1 Guidance for completing the ICS proforma

A.1.1 Purposes and structure

The purpose of this ICS proforma is to provide a mechanism whereby a supplier of an implementation of the requirements defined in relevant specifications may provide information about the implementation in a standardised manner.

The ICS proforma is subdivided into subclauses for the following categories of information:

- instructions for completing the ICS proforma;
- identification of the implementation;
- identification of the protocol;
- ICS proforma tables (for example: UE implementation types, Teleservices, etc);

A.1.2 Abbreviations and conventions

The ICS proforma contained in this annex is comprised of information in tabular form in accordance with the guidelines presented in ISO/IEC 9646-7.

Item column

The item column contains a number which identifies the item in the table.

Item description column

The item description column describes in free text each respective item (e.g. parameters, timers, etc.). It implicitly means "is <item description> supported by the implementation?".

Reference column

The reference column gives reference to the relevant 3GPP core specifications.

Release column

The release column indicates the earliest release from which the capability or option is relevant.

Comments column

This column is left blank for particular use by the reader of this specification.

References to items

For each possible item answer (answer in the support column) within the ICS proforma there exists a unique reference, used, for example, in the conditional expressions. It is defined as the table identifier, followed by a solidus character "/",

followed by the item number in the table. If there is more than one support column in a table, the columns shall be discriminated by letters (a, b, etc.), respectively.

EXAMPLE 1: A.5/4 is the reference to the answer of item 4 in table A.5.

EXAMPLE 2: A.6/3b is the reference to the second answer (i.e. in the second support column) of item 3 in table A.6.

A.1.3 Instructions for completing the ICS proforma

The supplier of the implementation may complete the ICS proforma in each of the spaces provided. More detailed instructions are given at the beginning of the different subclauses of the ICS proforma.

A.2 Identification of the User Equipment

Identification of the User Equipment should be filled in so as to provide as much detail as possible regarding version numbers and configuration options.

The product supplier information and client information should both be filled in if they are different.

A person who can answer queries regarding information supplied in the ICS should be named as the contact person.

A.2.1 Date of the statement

.....

A.2.2 User Equipment Under Test (UEUT) identification

UEUT name:

.....

.....

Hardware configuration:

.....

.....

.....

Software configuration:

.....

.....

.....

A.2.3 Product supplier

Name:

.....

Address:

.....

.....

.....

Telephone number:

.....

Facsimile number:

.....

E-mail address:

.....

Additional information:

.....

.....

.....

A.2.4 Client

Name:

.....

Address:

.....

.....

.....

Telephone number:

.....

Facsimile number:

.....

E-mail address:

.....

Additional information:

.....

.....

.....

A.2.5 ICS contact person

Name:

.....

Telephone number:

.....

Facsimile number:

.....

E-mail address:

.....

Additional information:

.....

.....

A.3 Identification of the protocol

This ICS proforma applies to the 3GPP standards listed in the normative references clause of the present document.

A.4 ICS proforma tables

A.4.1 UE Implementation Types

~~Table A.1: UE Implementation Types~~

~~Item~~	~~UE Implementation Types~~	~~Ref.~~	~~Comments~~
~~1~~	~~Single-mode FDD (DS)~~	~~21.904, 5~~	
~~2~~	~~Single-mode TDD~~	~~21.904, 5~~	
~~3~~	~~Dual-mode FDD (DS)/TDD~~	~~21.904, 5~~	
~~4~~	~~Dual-mode FDD (DS)/GSM~~	~~21.904, 5~~	
~~5~~	~~Dual-mode TDD/GSM~~	~~21.904, 5~~	
~~6~~	~~Tri-mode FDD(DS)/TDD/GSM~~	~~21.904, 5~~	

Table A.1: UE Radio Technologies

Item	UE Radio Technologies	Ref.	Release	Comments
1	FDD (DS)	25.101	R99	
2	TDD 3.84 Mcps	25.102	R99	
3	TDD 1.28 Mcps (LCR)	25.102	Rel-4	
4	GSM	21.904, 5	R99	

A.4.2 UE Service Capabilities

A.4.2.1 3GPP Standardised UE Service Capabilities

A.4.2.1.1 Teleservices

Table A.2: Teleservices

Item	Teleservices	Ref.	Release	Comments
1	Narrow band speech (AMR)	22.105, 6.4.1	R99	
2	Emergency speech call	22.105, 6.4.2	R99	
3	Short Message Service (SMS) MT over CS	22.105, 6.4.3 22.003, A.1.3.1	R99	
4	Short Message Service (SMS) MO over CS	22.105, 6.4.3 22.003, A.1.3.2	R99	
5	Short Message Service (SMS) MT over PS	22.105, 6.4.3 22.003, A.1.3.1	R99	
6	Short Message Service (SMS) MO over PS	22.105, 6.4.3 22.003, A.1.3.2	R99	
7	Cell Broadcast Service (CBS)	22.105, 6.4.4	R99	

A.4.2.1.2 Bearer Services

Table A.3: Definition of Bearer Services

Item	Definition of Bearer Services	Ref.	Release	Comments
1	Circuit Switched	22.105, 5.1 22.002	R99	
2	Packet Switched	22.105, 5.1 22.060	R99	
3	UE supports UE operation mode A: PS and CS simultaneously		R99	

Table A.4: Asynchronous General Bearer Services

Item	Asynchronous General Bearer Services	Ref.	Release	Comments
1	3.1 kHz Audio 9600 bit/s	22.002, 3.1.1	R99	
2	3.1 kHz Audio 14400 bit/s	22.002, 3.1.1	R99	
3	3.1 kHz Audio 19200 bit/s	22.002, 3.1.1	R99	
4	3.1 kHz Audio 28800 bit/s	22.002, 3.1.1	R99	
5	3.1 KhZ Audio Modem AutoBauding1	22.002, 3.1.1	R99	
6	V.110 UDI 9600 bit/s	22.002, 3.1.2	R99	
7	V.110 UDI 14400 bit/s	22.002, 3.1.2	R99	
8	V.110 UDI 19200 bit/s	22.002, 3.1.2	R99	
9	V.110 UDI 28800 bit/s	22.002, 3.1.2	R99	
10	V.110 UDI 38400 bit/s	22.002, 3.1.2	R99	
11	V.120 9600 bit/s	22.002, 3.1.4	R99	
12	V.120 14400 bit/s	22.002, 3.1.4	R99	
13	V.120 19200 bit/s	22.002, 3.1.4	R99	
14	V.120 28800 bit/s	22.002, 3.1.4	R99	
15	V.120 38400 bit/s	22.002, 3.1.4	R99	
16	V.120 48000 bit/s	22.002, 3.1.4	R99	
17	V.120 56000 bit/s	22.002, 3.1.4	R99	
18	PIAFS 32000 bit/s	22.002, 3.1.6	R99	
19	PIAFS 64000 bit/s	22.002, 3.1.6	R99	
20	Frame Tunnelling Mode 56000 bit/s	22.002, 3.1.7	R99	
21	Frame Tunnelling Mode 64000 bit/s	22.002, 3.1.7	R99	
Note: The rates in the table refer to FNUR (Fixed Network User Rate).				

Table A.5: Synchronous General Bearer Services

Item	Synchronous General Bearer Services	Ref.	Release	Comments
1	3.1 kHz Audio 9600 bit/s	22.002, 3.1.1	R99	
2	3.1 kHz Audio 14400 bit/s	22.002, 3.1.1	R99	
3	3.1 kHz Audio 19200 bit/s	22.002, 3.1.1	R99	
4	3.1 kHz Audio 28800 bit/s	22.002, 3.1.1	R99	
5	V.110 UDI 28800 bit/s	22.002, 3.1.2	R99	
6	V.110 UDI 48000 bit/s	22.002, 3.1.2	R99	
7	V.110 UDI 56000 bit/s	22.002, 3.1.2	R99	
8	X.31 Flag Stuffing UDI 9600 bit/s	22.002, 3.1.3	R99	
9	X.31 Flag Stuffing UDI 14400 bit/s	22.002, 3.1.3	R99	
10	X.31 Flag Stuffing UDI 19200 bit/s	22.002, 3.1.3	R99	
11	X.31 Flag Stuffing UDI 28800 bit/s	22.002, 3.1.3	R99	
12	X.31 Flag Stuffing UDI 38400 bit/s	22.002, 3.1.3	R99	
13	X.31 Flag Stuffing UDI 48000 bit/s	22.002, 3.1.3	R99	
14	X.31 Flag Stuffing UDI 56000 bit/s	22.002, 3.1.3	R99	
15	V.120 9600 bit/s	22.002, 3.1.4	R99	
16	V.120 14400 bit/s	22.002, 3.1.4	R99	
17	V.120 19200 bit/s	22.002, 3.1.4	R99	
18	V.120 28800 bit/s	22.002, 3.1.4	R99	
19	V.120 38400 bit/s	22.002, 3.1.4	R99	
20	V.120 48000 bit/s	22.002, 3.1.4	R99	
21	V.120 56000 bit/s	22.002, 3.1.4	R99	
22	Bit Transparent mode 56000 bit/s	22.002, 3.1.5	R99	
23	Bit Transparent mode 64000 bit/s	22.002, 3.1.5	R99	
24	Multimedia Call 28800 bit/s	22.002, 3.1.8	R99	
25	Multimedia Call 32000 bit/s	22.002, 3.1.8	R99	
26	Multimedia Call 33600 bit/s	22.002, 3.1.8	R99	
27	Multimedia Call 56000 bit/s	22.002, 3.1.8	R99	
28	Multimedia Call 64000 bit/s	22.002, 3.1.8	R99	
Note: The rates in the table refer to FNUR (Fixed Network User Rate).				

Table A.6: QoS classes or traffic classes

Item	QoS classes or traffic classes	Ref.	Release	Comments
1	Conversational	23.107, 6.3.1, 6.5.1	R99	
2	Streaming	23.107, 6.3.2, 6.5.1	R99	
3	Interactive	23.107, 6.3.3, 6.5.1	R99	
4	Background	23.107, 6.3.4, 6.5.1	R99	

A.4.2.1.3 Supplementary Services

Table A.7: Supplementary Services

Item	Supplementary services	Ref.	Release	Comments
1	Call Deflection	22.072; 22.004, 4	R99	
2	Calling Line Identification Presentation	22.081, 1; 22.004, 4	R99	
3	Calling Line Identification Restriction	22.081, 2; 22.004, 4	R99	
4	Connected Line Identification Presentation	22.081, 3; 22.004, 4	R99	
5	Connected Line Identification Restriction	22.081, 4; 22.004, 4	R99	
6	Call Forwarding Unconditional	22.082, 1; 22.004, 4	R99	
7	Call Forwarding on Mobile Subscriber Busy	22.082, 2; 22.004, 4	R99	
8	Call Forwarding on No Reply	22.082, 3; 22.004, 4	R99	
9	Call Forwarding on Mobile Subscriber Not Reachable	22.082, 4; 22.004, 4	R99	
10	Call Waiting	22.083, 1; 22.004, 4	R99	
11	Call Hold	22.083, 2 22.004, 4	R99	
12	Multi Party Service	22.084; 22.004, 4	R99	
13	Closed User Group	22.085; 22.004, 4	R99	
14	User-to-user signalling	22.087; 22.004, 4	R99	
15	Advice of Charge (Information)	22.086, 1; 22.004, 4	R99	
16	Advice of Charge (Charging)	22.086, 2; 22.004, 4	R99	
17	Barring of All Outgoing Calls	22.088, 1; 22.004, 4	R99	
18	Barring of Outgoing International Calls	22.088, 1; 22.004, 4	R99	
19	Barring of Outgoing International Calls except those directed to the Home PLMN Country	22.088, 1; 22.004, 4	R99	
20	Barring of All Incoming Calls	22.088, 2; 22.004, 4	R99	
21	Barring of Incoming Calls when Roaming Outside the Home PLMN Country	22.088, 2; 22.004, 4	R99	
22	Explicit call transfer	22.091; 22.004, 4	R99	
23	Call Completion to Busy Subscriber	22.093; 22.004, 4	R99	
24	Call Completion to Busy Subscriber Request	22.093; 22.004, 4	R99	
25	Follow Me	22.094	R99	
26	Calling name presentation (CNAP)	22.096; 22.004, 4	R99	
27	Multiple Subscriber Profile (MSP)	22.097; 22.004, A	R99	
28	Multicall	22.135; 22.004, 4	R99	
29	enhanced Multi-Level Precedence and Pre-emption	22.067; 22.004, 4	R99	
30	At least one non-call related Supplementary Service supported		R99	
Note: Test cases for these features will not be include in R99 of TS 34.123-1.				

A.4.2.1.4 Service Capabilities

Table A.8: Service Capabilities

Item	Services Capabilities	Ref.	Release	Comments
1	Mobile station Execution Environment (MExE)	22.057	R99	
2	Location Service (LCS)	22.071	R99	
3	USIM Application Toolkit (USAT)	31.111	R99	
Note: Test cases for these features will not be include in R99 of TS 34.123-1.				

A.4.2.1.5 GSM System Features

Table A.9: GSM System Features

Item	GSM System Features	Ref.	Release	Comments
1	Network Identity and Time Zone (NITZ)	22.042	R99	
2	Unstructured Supplementary Service Data (USSD)	22.090	R99	
Note: Test cases for these features will not be include in R99 of TS 34.123-1.				

A.4.2.2 Other UE Service Capabilities

Table A.10: Other UE Service Capabilities

Item	Other UE Service Capabilities	Ref.	Release	Comments
1	Multimedia services (3G-324M)	26.071, 26.110, 26.111, 26.112	R99	
2	Alternate speech/facsimile group 3	22.003, A.1.4	R99	
3	Automatic facsimile group 3	22.003, A.1.5	R99	

A.4.3 Baseline Implementation Capabilities

Table A.11: Supported protocols

Item	Supported protocols	Ref.	Release	Comments
1	Call Control	24.008, 5	R99	
2	Mobility Management	24.008, 4	R99	
3	Session Management	24.008, 6.1	R99	
4	GPRS Mobility Management	24.008, 4	R99	
5	Radio Resource Control	25.331	R99	
6	Packet Data Convergence Protocol	25.323	R99	
7	Broadcast/Multicast Control	25.324	R99	
8	Radio Link Control	25.322	R99	
9	Medium Access Control	25.321	R99	
10	Physical Layer	25.201	R99	

A.4.3.1 Baseline Implementation Capabilities to facilitate Conformance testing

Table A.12: Reference Measurement Channels

Item	Reference Measurement Channels	Ref.	Release	Comments
1	Up-link reference measurement channel 12.2 kbps (FDD)	25.101 A.2.1	R99	
2	Down-link reference measurement channel 12.2 kbps (FDD)	25.101 A.3.1	R99	
3	Up-link reference measurement channel12.2 kbps (TDD)	25.102 A.2.1	R99	
4	Down-link reference measurement channel 12.2 kbps (TDD)	25.102 A.2.2	R99	

Table A.13: Special Conformance Testing Functions

Item	Special Conformance Testing Functions	Ref.	Release	Comments
1	UE test loop	34.109, 5.3	R99	
2	Max UE test loop UL RLC SDU size 65535 bits	34.109, 6.2	R99	

Table A.14: Terminal Logical Test Interface

Item	Terminal Logical Test Interface	Ref.	Release	Comments
1	Electrical Man Machine Interface (EMMI)	34.109, 8	R99	
2	UICC/ME test interface	34.109, 9	R99	

A.4.3.2 RF Baseline Implementation Capabilities

Table A.15: FDD (DS) RF Baseline Implementation Capabilities

Item	FDD (DS) RF Baseline Implementation Capabilities	Ref.	Release	Comments
1	Chip rate 3.84 Mcps	25.101, 5.1	R99	
2	Frequency band: 1920-1980, 2110-2170 MHz	25.101, 5.2	R99	
3	Frequency band: 1850-1910, 1930-1990 MHz	25.101, 5.2	R99	
4	Frequency band: Other spectrum	25.101, 5.2	R99	
5	TX-RX Freq. Sep: 190 MHz	25.101, 5.3	R99	
6	TX-RX Freq. Sep: 80 MHz	25.101, 5.3	R99	
7	TX-RX Freq. Sep: Variable	25.101, 5.3	R99	
8	Carrier raster: 200 kHz	25.101, 5.4	R99	
9	UE Power Class 1 (+33 dBm)	25.101, 6.2.1	R99	
10	UE Power Class 2 (+27 dBm)	25.101, 6.2.1	R99	
11	UE Power Class 3 (+24 dBm)	25.101, 6.2.1	R99	
12	UE Power Class 4 (+21 dBm)	25.101, 6.2.1	R99	
13	Output RF spectrum emissions	25.101, 6.6	R99	

Table A.16: TDD RF Baseline Implementation Capabilities

Item	TDD RF Baseline Implementation Capabilities	Ref.	Release	Comments
1	Chip rate 3.84 Mcps	25.102, 5.1	R99	
2	Frequency band: 1900-1920 MHz	25.102, 5.2	R99	
3	Frequency band: 2010-2025 MHz	25.102, 5.2	R99	
4	Frequency band: 1850-1910 MHz	25.102, 5.2	R99	
5	Frequency band: 1930-1990 MHz	25.102, 5.2	R99	
6	Frequency band: 1910-1930 MHz	25.102, 5.2	R99	
7	Frequency band: Other spectrum	25.102, 5.2	R99	
8	Carrier raster: 200 kHz	25.102, 5.4	R99	
9	UE Power Class 2 (+24 dBm)	25.102, 6.2.1	R99	
10	UE Power Class 3 (+21 dBm)	25.102, 6.2.1	R99	
11	Output RF spectrum emissions	25.102, 6.6	R99	

A.4.3.3 Physical Layer Baseline Implementation Capabilities

Table A.17: UE Radio Access Reference Combinations DL

Item	UE Radio Access Reference Combination DL	Ref.	Release	Comments
1	DL 32 kbit class	25.306, 5	R99	
2	DL 64 kbit class	25.306, 5	R99	
3	DL 128 kbit class	25.306, 5	R99	
4	DL 384 kbit class	25.306, 5	R99	
5	DL 768 kbit class	25.306, 5	R99	
6	DL 2048 kbit class	25.306, 5	R99	

Table A.18: UE Radio Access Reference Combinations UL

Item	UE Radio Access Reference Combination UL	Ref.	Release	Comments
1	UL 32 kbit class	25.306, 5	R99	
2	UL 64 kbit class	25.306, 5	R99	
3	UL 128 kbit class	25.306, 5	R99	
4	UL 384 kbit class	25.306, 5	R99	
5	UL 768 kbit class	25.306, 5	R99	

Table A.18b: FDD Layer 1 UE Radio Access Capabilities

Item	FDD Layer 1 UE Radio Access Capabilities	Ref.	Release	Comments
1	Support of turbo decoding	25.306, 4.5.1	R99	
2	Support of turbo encoding	25.306, 4.5.2	R99	
3	Support for SF 512 (downlink)	25.306, 4.5.3	R99	
4	Support of PDSCH	25.306, 4.5.3	R99	
5	Simultaneous reception of SCCPCH and DPCH	25.306, 4.5.3	R99	
6	Simultaneous reception of SCCPCH, DPCH and PDSCH	25.306, 4.5.3	R99	
7	Support of PCPCH	25.306, 4.5.4	R99	

A.4.3.4 Layer 2/3 Baseline Implementation Capabilities (access stratum)

Table A.19: PDCP Parameters

Item	PDCP Parameters	Ref.	Release	Comments
1	IP header compression algorithm	25.323, 5.1.2	R99	
2	Lossless SRNS relocation	25.323, 5.4	R99	
3	Multiplexing of multiple radio bearers [not R99]		R99	
4	RLC in-sequence delivery	25.323, 5.4	R99	
5	Establishment of more than one PDCP entities	25.323, 5.1	R99	

Table A.19b: BMC Parameters

Item	BMC Parameters	Ref.	Release	Comments
1	CBS message support	25.324, 9.1	R99	

A.4.4 Additional information

Table A.20: Additional information

Item	Additional information	Ref.	Release	Comments
1	At least one bearer service	22.002, 3	R99	
2	At least one supplementary service	22.004, 4	R99	
3	Inter-system measurement for GSM	25.331, 8.4	R99	
4	At least one MO circuit switched basic service	24.008, 5.3.4.2.1	R99	
5	At lease one MT circuit switched basic service	24.008, 5.3.4.2.2	R99	
6	Immediate connect supported for all circuit switched basic services.	24.008, 5.2.1.6	R99	
7	Activation of one or more PDP contexts simultaneously	[TBD]	R99	
8	Sending of correct acknowledgement of memory full condition	[TBD]	R99	
9	Status report capability	[TBD]	R99	
10	(Void)		R99	
11	Storing of received Class 1 short messages	[TBD]	R99	
12	Storing of received Class 2 short messages in the SIM	[TBD]	R99	
13	Replacing of short messages	[TBD]	R99	
14	Reply procedures	23.040, Annex 4	R99	
15	Sending of multiple short messages on the same RR connection when there is no call in progress	[TBD]	R99	
16	Sending of concatenated multiple short messages when there is a call in progress	[TBD]	R99	
17	Only circuit switched basic service supported by the mobile is emergency call	22.003, 6, A.1.2	R99	
18	Multi-code transmission	[TBD]	R99	
19	Poll_PU based polling mode of AM RLC	[TBD]	R99	
20	Timer based polling mode of AM RLC	[TBD]	R99	
21	Discard mode of AM RLC	[TBD]	R99	
22	At least one MO circuit switched basic service	[TBD]	R99	
23	At least one MO circuit switched basic service for which immediate connect is not used	[TBD]	R99	
24	Network initiated MO call (CCBS)	24.008, 5.2.3 24.093, 4.1	R99	
25	DTMF protocol control procedure	24.008, 5.5.7	R99	
26	Secondary PDP context activation procedure	24.008, 6.1.3.2	R99	
27	Support of UMTS encryption algorithm UEA1	33.102, 6.6	R99	
28	Support of UMTS integrity algorithm UIA1	33.102, 6.5	R99	
29	Support Automatic calling repeat call attempt	22.001, Annex E	R99	
30	Support auto-calling more B-party numbers than the number of B-party numbers that can be stored in the list of blacklisted numbers	22.001, Annex E	R99	
31	Support of SMS Cell Broadcast, i.e. the UE is capable of receiving and displaying broadcast messages.	23.041, 8 25.324, 11	R99	
32	Support of Follow On Proceed	24.008, 4.4.4.6	R99	
33	Support detach on power down		R99	
34	Support detach on USIM removal		R99	
35	Support switch on/off		R99	
36	Support USIM removal without power down		R99	
37	Indication and user selection of PLMN	23.122, 4.4.3	R99	
38	Support of automatic PS attach procedure at switch on.		R99	

Annex B (informative): Mapping of UE Radio Access Capability combinations to supported RABs

Based on: **ISG Typical parameter set v1.3**
TR25.926 v3.1.0 UE Radio Access Capabilities

Mapping of UE Radio Access Capability combinations to supported RABs
UTRA-FDD

			DL						UL				
	UE class		**1**	**2**	**3**	**4**	**5**	**6**	**1**	**2**	**3**	**4**	**5**
	Data rate (kbps)	**CS/PS**	**32**	**64**	**128**	**384**	**768**	**2048**	**32**	**64**	**128**	**384**	**768**
ISG reference	**Chars - DL/UL (kbps)**												
DPCH 5.4.1.X													
1	DCCH 1.7		X	X	X	X	X	X	X	X	X	X	X
2	DCCH 3.4		X	X	X	X	X	X	X	X	X	X	X
3	DCCH 13.6		X	X	X	X	X	X	X	X	X	X	X
4	CV voice 12.2	CS	X	X	X	X	X	X	X	X	X	X	X
5	CV voice 10.2	CS	X	X	X	X	X	X	X	X	X	X	X
6	CV voice 7.95	CS	X	X	X	X	X	X	X	X	X	X	X
7	CV voice 7.4	CS	X	X	X	X	X	X	X	X	X	X	X
8	CV voice 6.7	CS	X	X	X	X	X	X	X	X	X	X	X
9	CV voice 5.9	CS	X	X	X	X	X	X	X	X	X	X	X
10	CV voice 5.15	CS	X	X	X	X	X	X	X	X	X	X	X
11	CV voice 4.75	CS	X	X	X	X	X	X	X	X	X	X	X
12	CV 28.8/28.8	CS		X	X	X	X	X		X	X	X	X
13	CV 64/64	CS		X	X	X	X	X		X	X	X	X
14	CV 32/32	CS		X	X	X	X	X		X	X	X	X
15	ST 14.4/14.4	CS		X	X	X	X	X		X	X	X	X
16	ST 28.8/28.8	CS		X	X	X	X	X		X	X	X	X
17	ST 57.6/57.6	CS		X	X	X	X	X		X	X	X	X
18	ST 64/0	CS/PS		X	X	X	X	X	X	X	X	X	X
19	ST 0/64	CS/PS	X	X	X	X	X	X		X	X	X	X
20	ST 128/0	CS/PS				X	X	X	X	X	X	X	X
21	ST 0/128	CS/PS	X	X	X	X	X	X				X	X
22	ST 384/0	CS/PS						X	X	X	X	X	X
23	IB 8/32 (CC,10msTTI)	PS	X	X	X	X	X	X	X	X	X	X	X
24	IB 8/64	PS	X	X	X	X	X	X		X	X	X	X
25	IB 64/32 (CC,10msTTI)	PS		X	X	X	X	X	X	X	X	X	X
26	IB 64/64	PS		X	X	X	X	X		X	X	X	X
27	IB 128/64	PS			X	X	X	X		X	X	X	X
28	IB 128/128	PS			X	X	X	X			X	X	X
29	IB 144/64	PS			X	X	X	X		X	X	X	X
30	IB 144/144	PS			X	X	X	X			X	X	X
31	IB 256 (10 ms TTI)/64	PS				X	X	X		X	X	X	X
32	IB 384 (10ms TTI)/64	PS				X	X	X		X	X	X	X
33	IB 384 (10ms TTI)/128	PS				X	X	X			X	X	X
34	IB 384/384 (10ms TTI)	PS				X	X	X				X	X
32	IB 384 (20ms TTI)/64	PS					X	X		X	X	X	X
33	IB 384 (20ms TTI)/128	PS					X	X			X	X	X
34	IB 384/384 (20ms TTI)	PS					X	X					X
35	IB 2048/64	PS						X		X	X	X	X
36	IB 2048/128	PS						X			X	X	X
37	IB 2048/384 (10ms TTI)	PS						X				X	X
37	IB 2048/384 (20ms TTI)	PS						X					X
38	CVV + IB 8/32	CS+PS		X	X	X	X	X		X	X	X	X
39	CVV + IB 64/32	CS+PS		X	X	X	X	X		X	X	X	X
40	CVV + IB 64/64	CS+PS		X	X	X	X	X		X	X	X	X
41	CVV + IB 128/64	CS+PS			X	X	X	X		X	X	X	X
42	CVV + IB 256(10ms TTI)/64	CS+PS				X	X	X		X	X	X	X
43	CVV + IB 384(10ms TTI)/64	CS+PS				X	X	X		X	X	X	X
43	CVV + IB 384(20ms TTI)/64	CS+PS					X	X		X	X	X	X
44	CVV + IB 2048/128	CS+PS						X			X	X	X
45	CVV + ST 57.6/57.6	CS+CS		X	X	X	X	X		X	X	X	X
46	CVV + ST 64/0	CS+CS/PS		X	X	X	X	X	X	X	X	X	X
47	CVV + ST 128/0	CS+CS			X	X	X	X	X	X	X	X	X
48	CVV + ST 384/0	CS+CS						X	X	X	X	X	X
49	CVV + CV 64/64	CS+CS		X	X	X	X	X		X	X	X	X
50	CV 64/64 + CV 64/64	CS+CS				X	X	X				X	X
51	CV 64/64 + IB 64/64	CS+PS				X	X	X				X	X
52	CV 64/64 + IB 128/64	CS+PS				X	X	X				X	X
53	CV 64/64 + IB 128/128	CS+PS				X	X	X				X	X
54	IB 128/64 + ST 64/0	PS+CS/PS				X	X	X		X	X	X	X
55	IB 128/64 + ST 128/0	PS+CS/PS					X	X		X	X	X	X
DSCH & DPCH 5.4.2.X													
1	IB 256/64	PS				O	X	X		X	X	X	X
2	IB 384/64	PS				O	X	X		X	X	X	X
3	IB 2048/64	PS						X		X	X	X	X
4	CVV + IB 256/64	CS+PS				O	X	X		X	X	X	X
5	CVV + IB 384/64	CS+PS				O	X	X		X	X	X	X
6	CVV + IB 2048/64	CS+PS						X		X	X	X	X
SCCPCH 5.4.3.X	**DL**												
1	PCCH		X	X	X	X	X	X	NA	NA	NA	NA	NA
2	IB 32 +	PS	X	X	X	X	X	X	NA	NA	NA	NA	NA
3	IB 32 + PCCH	PS	X	X	X	X	X	X	NA	NA	NA	NA	NA
PRACH 5.4.4.X	**UL**												
1	IB 32	PS	NA	NA	NA	NA	NA	NA	X	X	X	X	X

CV =Conversational
IB =Interactive/Background
ST =Streaming
CVV = CV voice 12.2k

CS + CS = Support of Multicall (CS)
CS + PS = Simultaneous CS and PS
CS/PS = CS or PS
CS + CS/PS = Support of Multicall (2xCS) or simultaneous CS and PS

X = Support
O = Optional
NA = Not Applicable

Annex C (informative): Change history

Meeting -1st-Level	Doc-1st-Level	CR	Rev	Subject	Cat	Version-Current	Version -New	Doc-2nd-Level
TP-09				Approval of the specification as v3.1.0 rather than 3.0.0 to be aligned with 34.123-1 version number.		2.0.0	3.1.0	
TP-10	TP-000219	001		Update of Applicability statements for “Idle mode test	F	3.1.0	3.2.0	T1-000280
TP-10	TP-000219	002		Update of applicability clauses for RLC test cases	F	3.1.0	3.2.0	T1-000302
TP-10	TP-000219	003		Update of Applicability Statements for RRC Test Cases	F	3.1.0	3.2.0	T1-000295
TP-10	TP-000219	004		Update of applicability statements for radio bearer test	F	3.1.0	3.2.0	T1-000291
TP-10	TP-000219	005		Update of applicability statements for Session	B	3.1.0	3.2.0	T1-000299
TP-10	TP-000219	006		Update of Applicability statements for PACKET	B	3.1.0	3.2.0	T1-000284
TP-11	TP-010022	007		Update of Applicability statements for “Idle mode test	F	3.2.0	3.3.0	T1-010077
TP-11	TP-010022	008		Updates to clause 4 of TS 34.123-2 version 3.2.0	F	3.2.0	3.3.0	T1-010085
TP-11	TP-010022	009		Update of Applicability statements for GMM	F	3.2.0	3.3.0	T1-010087
TP-12	TP-010122	010		ICS for Idle mode tests	F	3.3.0	3.4.0	T1-010168
TP-12	TP-010122	011		Update to applicability tables for RLC tests	F	3.3.0	3.4.0	T1-010172
TP-12	TP-010122	012		Update to MAC test applicability tables	F	3.3.0	3.4.0	T1-010177
TP-12	TP-010122	013		Update of applicability table	F	3.3.0	3.4.0	T1-010180
TP-12	TP-010122	014		Deletion of applicability statement for intersystem handover tests GERAN to UTRAN	F	3.3.0	3.4.0	T1-010182
TP-12	TP-010122	015		Corrections to applicability for CC test cases	D	3.3.0	3.4.0	T1-010186
TP-12	TP-010122	016		Corrections to applicability for CC test cases	D	3.3.0	3.4.0	T1-010188
TP-12	TP-010122	017		MM test case ICS update	F	3.3.0	3.4.0	T1-010190
TP-12	TP-010122	018		Correction to MM applicability	F	3.3.0	3.4.0	T1-010191
TP-12	TP-010122	019		Correction and Addition of PICS and applicability tables for MM, SMS auto-calling, emergency call and intersystem HO test cases	F	3.3.0	3.4.0	T1-010192
TP-12	TP-010122	020		Update to SMS Applicability tables	F	3.3.0	3.4.0	T1-010195
TP-12	TP-010122	021		SMS applicability	F	3.3.0	3.4.0	T1-010197
TP-12	TP-010122	022		GMM ICS update	F	3.3.0	3.4.0	T1-010201
TP-12	TP-010122	023		Update of applicability of interoperability radio bearer test cases	F	3.3.0	3.4.0	T1-010209

3GPP TSG-T1 Meeting #12 ***T1-010327***
Busan, Korea, 6th – 7th September, 2001

3GPP TSG-T1/SIG Meeting #18 ***T1S-010172***
Munich, Germany, 31st July – 2nd August, 2001

CR-Form-v3

CHANGE REQUEST

⌘ **34.123-2** **CR** **025** ⌘ rev **-** ⌘ Current version: **3.4.0** ⌘

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

Proposed change affects: ⌘ (U)SIM ☐ ME/UE ☒ Radio Access Network ☐ Core Network ☐

Title:	⌘	CR to MM test case ICS update
Source:	⌘	FUJITSU LIMITED
Work item code:	⌘	***Date:*** ⌘ 7/31/2001
Category:	⌘ **F**	***Release:*** ⌘ R99

Use one of the following categories:
F *(essential 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)

Reason for change:	⌘	Reflect the update of TS 34.123-1.
Summary of change:	⌘	In the table of MM tests, 9.4.2.5 is added.
Consequences if not approved:	⌘	

Clauses affected:	⌘	Clause 4
Other specs affected:	⌘	☐ Other core specifications ⌘ ☐ Test specifications ☐ O&M Specifications
Other comments:	⌘	

How to create CRs using this form:
Comprehensive information and tips about how to create CRs can be found at:
http://www.3gpp.org/3G_Specs/CRs.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://www.3gpp.org/specs/ For the latest version, look for the directory name with the latest date e.g. 2000-09 contains the specifications resulting from the September 2000 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.

4 Recommended test case applicability

The applicability of each individual test is identified in the table 1. This is just a recommendation based on the purpose for which the test case was written.

The applicability of every test is formally expressed by the use of Boolean expression that are based on parameters (ICS) included in annex A of this specification.

The columns in Table 1 have the following meaning:

Clause

The clause column indicates the clause number in 34.123-1 that contains the test body.

Title

The title column describes the name of the test.

Applicability

The following notations are used for the applicability column:

R	recommended - the test case is recommended
N/A	not applicable - in the given context, the test case is not recommended.
Ci	conditional - the test is recommended ("R") or not ("N/A") depending on the support of other items. "i" is an integer identifying an unique conditional status expression which is defined immediately following the table. For nested conditional expressions, the syntax "IF ... THEN (IF ... THEN ... ELSE...) ELSE ..." is used to avoid ambiguities.

Comments

This column contains a verbal description of the condition included in the applicability column.

MOBILITY MANAGEMENT			
9.1	TMSI reallocation	C98	UEs supporting CS domain services
9.2.1	Authentication accepted	C98	UEs supporting CS domain services
9.2.2	Authentication rejected	C98	UEs supporting CS domain services
9.2.3	Authentication rejected by the UE (MAC code failure)	C98	UEs supporting CS domain services
9.2.4	Authentication rejected by the UE (SQN failure)	C98	UEs supporting CS domain services
9.3.1	General Identification	C98	UEs supporting CS domain services
9.3.2	Handling of IMSI shorter than the maximum length	C98	UEs supporting CS domain services
9.4.1	Location updating / accepted	C98	UEs supporting CS domain services
9.4.2.1	Location updating / rejected / IMSI invalid	C98	UEs supporting CS domain services
9.4.2.2	Location updating / rejected / PLMN not allowed	C98	UEs supporting CS domain services
9.4.2.3	Location updating / rejected / location area not allowed	C98	UEs supporting CS domain services
9.4.2.4.1	Location updating / rejected / roaming not allowed in this location area / Procedure 1	C98	UEs supporting CS domain services
9.4.2.4.2	Location updating / rejected / roaming not allowed in this location area / Procedure 2	C98	UEs supporting CS domain services
9.4.2.4.3	Location updating / rejected / roaming not allowed in this location area / Procedure 3	C98	UEs supporting CS domain services
9.4.2.4.4	Location updating / rejected / roaming not allowed in this location area / Procedure 4	C98	UEs supporting CS domain services
9.4.2.4.5	Location updating / rejected / roaming not allowed in this location area / Procedure 5	C99	UEs supporting CS domain services UEs supporting USIM removal
9.4.2.5	Location updating / rejected / No Suitable Cells In Location Area	C98	UEs supporting CS domain services
9.4.3.2	Location updating / abnormal cases / attempt counter less or equal to 4, LAI different	C98	UEs supporting CS domain services
9.4.3.3	Location updating / abnormal cases / attempt counter equal to 4	C98	UEs supporting CS domain services
9.4.3.4	Location updating / abnormal cases / attempt counter less or equal to 4, stored LAI equal to broadcast LAI	C98	UEs supporting CS domain services
9.4.4	Location updating / release / expiry of T3240	C98	UEs supporting CS domain services
9.4.5.1	Location updating / periodic spread	C98	UEs supporting CS domain services
9.4.5.2	Location updating / periodic normal / test 1	C98	UEs supporting CS domain services
9.4.5.3	Location updating / periodic normal / test 2	C98	UEs supporting CS domain services
9.4.5.4.1	Location updating / periodic HPLMN search / UE waits time T	C98	UEs supporting CS domain services
9.4.5.4.2	Location updating / periodic HPLMN search / UE in manual mode	C98	UEs supporting CS domain services
9.4.5.4.3	Location updating / periodic HPLMN search / UE waits at least two minutes and at most T minutes	C98	UEs supporting CS domain services
9.4.6	Location updating / interworking of attach and periodic	C98	UEs supporting CS domain services
9.5.2	MM connection / establishment in security mode	C98	UEs supporting CS domain services
9.5.3	MM connection / establishment in non-security mode	C98	UEs supporting CS domain services
9.5.4	MM connection / establishment rejected	C98	UEs supporting CS domain services
9.5.5	MM connection / establishment rejected cause 4	C98	UEs supporting CS domain services
9.5.6	MM connection / expiry T3230	C98	UEs supporting CS domain services
9.5.7.1	MM connection / abortion by the network / cause #6	C98	UEs supporting CS domain services
9.5.7.2	MM connection / abortion by the network / cause not equal to #6	C100	UEs supporting CS domain services UEs supporting at least one non-call related SS
9.5.8.1	MM connection / follow-on request pending / test 1	C98	UEs supporting CS domain services
9.5.8.2	MM connection / follow-on request pending / test 2	C98	UEs supporting CS domain services
9.5.8.3	MM connection / follow-on request pending / test 3	C98	UEs supporting CS domain services

3GPP TSG-T1 Meeting #12 ***T1-010328***
Pusan, Korea, 6th – 7th September 2001

3GPP TSG-T1/SIG Meeting #19 ***T1S-010232***
Pusan, Korea, 3rd 5th September 2001

CR-Form-v3

CHANGE REQUEST

⌘ **34.123-2** **CR** **026** ⌘ rev **-** ⌘ Current version: **3.4.0** ⌘

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

Proposed change affects: ⌘ (U)SIM ☐ ME/UE **X** Radio Access Network ☐ Core Network ☐

Title:	⌘	Update Table of Aplicability of tests.
Source:	⌘	Siemens & Ericsson
Work item code:	⌘	***Date:*** ⌘ 3/09/2001
Category:	⌘ **F**	***Release:*** ⌘ R99

Use one of the following categories:
F *(essential 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)

Reason for change:	⌘	Reflect the update of TS 34.123-1.
Summary of change:	⌘	1. This CR is based on T1S-010202. Changes are as follows:The content of T1S-010204 has been added, i.e. the applicability of the new test: 6.1.2.7 “Emergency calls; Intra-frequency cell “Not allowed” 2. The applicability for all tests has been split into separate FDD and TDD columns. 3. C01b, C04b, C104b and C106b have been added for TDD mode. These will be replaced by ETSI with the next available numbers. 4. Tests 6.2.1.1 – 6.2.2.3 have not yet been modified to TDD. Thus applicability for TDD has not been defined. Changes for T1S-010202: In the table of idle mode tests, aplicability for TDD is added.
Consequences if not approved:	⌘	Inconsistences between TS 34.123-1 and TS 34.123-2

Clauses affected:	⌘	Clause 4
Other specs affected:	⌘	☐ Other core specifications ⌘ ☐ Test specifications ☐ O&M Specifications
Other comments:	⌘	

4 Recommended test case applicability

The applicability of each individual test is identified in the table 1. This is just a recommendation based on the purpose for which the test case was written.
The applicability of every test is formally expressed by the use of Boolean expression that are based on parameters (ICS) included in annex A of this specification.
The columns in Table 1 have the following meaning:

Clause

The clause column indicates the clause number in 34.123-1 that contains the test body.

Title

The title column describes the name of the test.

Applicability

The following notations are used for the applicability column:

R	recommended - the test case is recommended
N/A	not applicable - in the given context, the test case is not recommended.
Ci	conditional - the test is recommended ("R") or not ("N/A") depending on the support of other items. "i" is an integer identifying an unique conditional status expression which is defined immediately following the table. For nested conditional expressions, the syntax "IF ... THEN (IF ... THEN ... ELSE...) ELSE ..." is used to avoid ambiguities.

Comments

This column contains a verbal description of the condition included in the applicability column.

Table 1: Applicability of tests

Clause	Title	Applicability	Comments
IDLE MODE			
6.1.1.1	PLMN selection of RPLMN, HPLMN, UPLMN and OPLMN; Manual mode	C104	UEs supporting FDD ~~or TDD~~ and PLMN selection
		C104b	UEs supporting TDD and PLMN selection
6.1.1.2	PLMN selection of "Other PLMN / access technology combinations"; Manual mode	C104	UEs supporting FDD ~~or TDD~~ and PLMN selection
		C104b	UEs supporting TDD and PLMN selection
6.1.1.3	PLMN selection; independence of RF level and preferred PLMN; Manual mode	C104	UEs supporting FDD ~~or TDD~~ and PLMN selection
		C104b	UEs supporting TDD and PLMN selection
6.1.1.4	PLMN selection of RPLMN, HPLMN, UPLMN and OPLMN; Automatic mode	C104	UEs supporting FDD ~~or TDD~~ and PLMN selection
		C104b	UEs supporting TDD and PLMN selection
6.1.1.5	PLMN selection of "Other PLMN / access technology combinations"; Automatic mode	C104	UEs supporting FDD ~~or TDD~~ and PLMN selection
		C104b	UEs supporting TDD and PLMN selection
6.1.1.6	UE will transmit only if PLMN available	C106	UEs supporting FDD ~~or TDD~~ and speech and emergency speech call
		C106b	UEs supporting TDD and speech and emergency speech call
6.1.2.1	Cell reselection	C01	UEs supporting FDD ~~or TDD~~
		C01b	UEs supporting TDD
6.1.2.2	Cell reselection using Qhyst, Qoffset and Treselection	C01	UEs supporting FDD ~~or TDD~~
		C01b	UEs supporting TDD
6.1.2.3	HCS cell reselection	C01	UEs supporting FDD ~~or TDD~~
		C01b	UEs supporting TDD
6.1.2.4	HCS cell reselection using reselection timing parameters for the H criterion	C01	UEs supporting FDD ~~or TDD~~.
		C01b	UEs supporting TDD
6.1.2.5	HCS Cell reselection using reselection timing parameters for the R criterion	C01	UEs supporting FDD ~~or TDD~~
		C01b	UEs supporting TDD
6.1.2.6	Emergency calls	C04	UEs supporting FDD ~~or TDD~~ and emergency speech call
		C04b	UEs supporting TDD and emergency speech call
6.1.2.7	Emergency calls; Intra-frequency cell "Not allowed"	C106	UEs supporting FDD and speech and emergency speech call
6.2.1.1	Selection of the correct PLMN and associated RAT	C105	UEs supporting FDD ~~or TDD~~ and GSM and PLMN selection
6.2.1.2	Selection of RAT for HPLMN; Manual mode	C105	UEs supporting FDD ~~or TDD~~ and GSM and PLMN selection
6.2.1.3	Selection of RAT for UPLMN; Manual mode	C105	UEs supporting FDD ~~or TDD~~ and GSM and PLMN selection
6.2.1.4	Selection of RAT for OPLMN; Manual mode	C105	UEs supporting FDD ~~or TDD~~ and GSM and PLMN selection
6.2.1.5	Selection of "Other PLMN / access technology combinations"; Manual mode	C105	UEs supporting FDD ~~or TDD~~ and GSM and PLMN selection
6.2.1.6	Selection of RAT for HPLMN; Automatic mode	C105	UEs supporting FDD ~~or TDD~~ and GSM and PLMN selection
6.2.1.7	Selection of RAT for UPLMN; Automatic mode	C105	UEs supporting FDD ~~or TDD~~ and GSM and PLMN selection
6.2.1.8	Selection of RAT for OPLMN; Automatic mode	C105	UEs supporting FDD ~~or TDD~~ and GSM and PLMN selection
6.2.1.9	Selection of "Other PLMN / access technology combinations"; Automatic mode	C105	UEs supporting FDD ~~or TDD~~ and GSM and PLMN selection
6.2.2.1	Cell reselection if cell becomes barred or S<0; UTRAN to GSM	C05	UEs supporting FDD ~~or TDD~~ and GSM
6.2.2.2	Cell reselection if cell becomes barred or C1<0; GSM to; UTRAN	C05	UEs supporting FDD ~~or TDD~~ and GSM
6.2.2.3	Cell reselection timings; GSM to UTRAN	C05	UEs supporting FDD ~~or TDD~~ and GSM

<Next change>

C01	IF A.1/1 OR A.1/3 OR A.1/4 OR A.1/6 THEN R ELSE N/A
C02	IF A.1/2 OR A.1/3 OR A.1/5 OR A.1/6 THEN R ELSE N/A
C03	IF A.1/3 OR A.1/6 THEN R ELSE N/A
C04	IF (A.1/1 OR A.1/3 OR A.1/4 OR A.1/6) AND A.2/2 THEN R ELSE N/A
C05	IF A.1/4 OR A.1/6 THEN R ELSE N/A
C06	IF (A.1/1 OR A.1/3 OR A.1/4 OR A.1/6) AND A.3/2 THEN R ELSE N/A
C07	IF (A.1/1 OR A.1/3 OR A.1/4 OR A.1/6) AND A.20/27 THEN R ELSE N/A
C08	IF (A.1/1 OR A.1/3 OR A.1/4 OR A.1/6) AND A.20/28 THEN R ELSE N/A
C09	IF (A.1/1 OR A.1/3 OR A.1/4 OR A.1/6) AND NOT A.20/3 THEN R ELSE N/A
C10	IF A.20/4 THEN R ELSE N/A
C11	IF A.20/5 THEN R ELSE N/A
C12	IF A.3/2 THEN R ELSE N/A
C13	IF A.2/1 OR A.2/2 OR A.10/2 THEN R ELSE N/A
C14	IF A.20/4 OR A.20/5 THEN R ELSE N/A
C15	IF A.10/2 THEN R ELSE N/A
C16	IF A.20/1 THEN R ELSE N/A
C17	IF A.3/3 AND A.20/7 THEN R ELSE N/A
C18	IF A.2/3 THEN R ELSE N/A
C19	IF A.1/1 THEN R ELSE N/A
C20	IF A.2/4 THEN R ELSE N/A
C21	IF A.20/8 AND A.3/1 THEN R ELSE N/A
C22	IF A.20/9 AND A.3/1 THEN R ELSE N/A
C23	IF A.3/1 THEN R ELSE N/A
C24	IF A.20/11 AND A.3/1 THEN R ELSE N/A
C25	IF A.20/12 AND A.3/1 THEN R ELSE N/A
C26	IF A.2/5 THEN R ELSE N/A
C27	IF A.2/6 THEN R ELSE N/A
C28	IF A.20/8 AND A.3/2 THEN R ELSE N/A
C29	IF A.20/9 AND A.3/2 THEN R ELSE N/A
C30	A.3/2 THEN R ELSE N/A
C31	IF A.20/11 AND A.3/2 THEN R ELSE N/A
C32	IF A.20/12 AND A.3/2 THEN R ELSE N/A
C33	IF A.20/13 AND A.3/1 THEN R ELSE N/A
C34	IF A.20/14 AND A.2/4 AND A.3/1 THEN R ELSE N/A
C35	IF A.20/15 AND A.3/1 THEN R ELSE N/A
C36	IF A.20/16 AND A.3/1 THEN R ELSE N/A
C37	IF A.20/13 AND A.3/2 THEN R ELSE N/A
C38	IF A.20/14 AND A.2/6 THEN R ELSE N/A
C39	IF A.20/15 AND A.3/2 THEN R ELSE N/A
C40	IF A.20/16 AND A.3/2 THEN R ELSE N/A
C41	IF (NOT A.20/17) AND (NOT A.20/6) AND A.20/5 THEN R ELSE N/A
C42	IF A.17/1 AND A.18/1 AND A.18b/3 THEN R ELSE N/A
C43	IF A.2/1 AND A.3/1 AND A.6/1 AND A.17/1 AND A.18/1 THEN R ELSE N/A
C44	IF A.3/1 AND A.6/1 AND A.17/2 AND A.18/2 THEN R ELSE N/A
C45	IF A.3/1 AND A.6/2 AND A.17/2 AND A.18/2 THEN R ELSE N/A
C46	IF (A.3/1 OR A.3/2) AND A.6/2 AND A.17/2 AND A.18/1 THEN R ELSE N/A
C47	IF (A.3/1 OR A.3/2) AND A.6/2 AND A.17/1 AND A.18/2 THEN R ELSE N/A
C48	IF (A.3/1 OR A.3/2) AND A.6/2 AND A.17/4 AND A.18/1 THEN R ELSE N/A
C49	IF (A.3/1 OR A.3/2) AND A.6/2 AND A.17/1 AND A.18/4 THEN R ELSE N/A
C50	IF (A.3/1 OR A.3/2) AND A.6/2 AND A.17/6 AND A.18/1 THEN R ELSE N/A
C51	IF A.3/2 AND (A.6/3 OR A.6/4) AND A.17/1 AND A.18/1 THEN R ELSE N/A
C52	IF A.3/2 AND (A.6/3 OR A.6/4) AND A.17/1 AND A.18/2 THEN R ELSE N/A
C53	IF A.3/2 AND (A.6/3 OR A.6/4) AND A.17/2 AND A.18/1 AND A.18b/1 THEN R ELSE N/A
C54	IF A.3/2 AND (A.6/3 OR A.6/4) AND A.17/2 AND A.18/2 THEN R ELSE N/A
C55	IF A.3/2 AND (A.6/3 OR A.6/4) AND A.17/3 AND A.18/2 THEN R ELSE N/A
C56	IF A.3/2 AND (A.6/3 OR A.6/4) AND A.17/3 AND A.18/3 THEN R ELSE N/A
C57	IF A.3/2 AND (A.6/3 OR A.6/4) AND A.17/4 AND A.18/2 THEN R ELSE N/A
C58	IF A.3/2 AND (A.6/3 OR A.6/4) AND A.17/4 AND A.18/3 THEN R ELSE N/A
C59	IF A.3/2 AND (A.6/3 OR A.6/4) AND A.17/4 AND A.18/4 THEN R ELSE N/A
C60	IF A.3/2 AND (A.6/3 OR A.6/4) AND A.17/5 AND A.18/2 THEN R ELSE N/A
C61	IF A.3/2 AND (A.6/3 OR A.6/4) AND A.17/5 AND A.18/3 THEN R ELSE N/A
C62	IF A.3/2 AND (A.6/3 OR A.6/4) AND A.17/5 AND A.18/5 THEN R ELSE N/A
C63	IF A.3/2 AND (A.6/3 OR A.6/4) AND A.17/6 AND A.18/2 AND A.13/2 THEN R ELSE N/A
C64	IF A.3/2 AND (A.6/3 OR A.6/4) AND A.17/6 AND A.18/3 AND A.13/2 THEN R ELSE N/A
C65	IF A.3/2 AND (A.6/3 OR A.6/4) AND A.17/6 AND A.18/4 AND A.13/2 THEN R ELSE N/A
C66	IF A.3/2 AND (A.6/3 OR A.6/4) AND A.17/6 AND A.18/5 AND A.13/2 THEN R ELSE N/A
C67	IF A.2/1 AND A.3/3 AND A.6/1 AND (A.6/3 OR A.6/4) AND A.17/2 AND A.18/2 AND A.18b/1 THEN R ELSE N/A
C68	IF A.2/1 AND A.3/3 AND A.6/1 AND (A.6/3 OR A.6/4) AND A.17/3 AND A.18/2 THEN R ELSE N/A
C69	IF A.2/1 AND A.3/3 AND A.6/1 AND (A.6/3 OR A.6/4) AND A.17/4 AND A.18/2 THEN R ELSE N/A

C70 IF A.2/1 AND A.3/3 AND A.6/1 AND (A.6/3 OR A.6/4) AND A.17/5 AND A.18/2 THEN R ELSE N/A
C71 IF A.2/1 AND A.3/3 AND A.6/1 AND (A.6/3 OR A.6/4) AND A.17/6 AND A.18/3 AND A.13/2 THEN R ELSE N/A
C72 IF A.7/28 AND A.2/1 AND A.3/1 AND A.6/1 AND A.6/2 AND A.17/2 AND A.18/2 THEN R ELSE N/A
C73 IF A.2/1 AND ((A.3/1 AND A.7/28) OR A.3/3) AND A.6/1 AND A.6/2 AND A.17/2 AND A.18/1 THEN R ELSE N/A
C74 IF A.2/1 AND A.3/1 AND A.7/28 AND A.6/1 AND A.6/2 AND A.17/3 AND A.18/1 THEN R ELSE N/A
C75 IF A.2/1 AND A.3/1 AND A.7/28 AND A.6/1 AND A.6/2 AND A.17/6 AND A.18/1 THEN R ELSE N/A
C76 IF A.7/28 AND A.2/1 AND A.3/1 AND A.6/1 AND A.17/2 AND A.18/2 THEN R ELSE N/A
C77 IF A.7/28 AND A.3/1 AND A.6/1 AND A.17/4 AND A.18/4 THEN R ELSE N/A
C78 IF A.3/3 AND A.6/1 AND (A.6/3 OR A.6/4) AND A.17/4 AND A.18/4 THEN R ELSE N/A
C79 IF (A.3/2 OR A.3/3) AND A.6/2 AND (A.6/3 OR A.6/4) AND A.17/4 AND A.18/2 THEN R ELSE N/A
C80 IF A.3/2 AND A.6/2 AND (A.6/3 OR A.6/4) AND A.17/5 AND A.18/2 THEN R ELSE N/A
C81 IF A.3/2 AND (A.6/3 OR A.6/4) AND A.17/5 AND A.18/2 AND A.18b/4 THEN R ELSE N/A

Alternatively to DL 768 kbps class the test case may be applicable to DL 384 kbps class, then:
IF A.3/2 AND (A.6/3 OR A.6/4) AND A.17/4 AND A.18/2 AND A.18b/4 AND THEN E ELSE N/A

C82 IF A.3/3 AND (A.6/3 OR A.6/4) AND A.17/5 AND A.18/2 AND A.18b/4 THEN R ELSE N/A

Alternatively to DL 768 kbps class the test case may be applicable to DL 384 kbps class, then:
IF A.2/1 AND A.3/3 AND A.6/1 AND (A.6/3 OR A.6/4) AND A.17/4 AND A.18/2 AND A.18b/4 THEN R ELSE N/A

C83 IF A.2/1 AND A.3/3 AND A.6/1 AND (A.6/3 OR A.6/4) AND A.17/6 AND A.18/2 AND A.18b/4 AND A.13/2 THEN R ELSE N/A
C84 IF A.17/1 THEN R ELSE N/A
C85 IF A.3/2 AND (A.6/3 OR A.6/4) AND A.17/1 THEN R ELSE N/A
C86 IF A.3/2 AND (A.6/3 OR A.6/4) AND A.18/1 THEN R ELSE N/A
C87 IF A.3/2 AND (A.6/3 OR A.6/4) AND A.17/6 AND A.18/2 AND A.18b/4 AND A.13/2 THEN R ELSE N/A
C88 IF A.3/3 THEN R ELSE N/A.
C89 IF (A.3/1 OR A.3/2) AND A.6/2 AND A.17/6 AND A.18/1 AND A.18b/1 AND A.18b/2 THEN R ELSE N/A
C90 IF A.3/2 AND (A.6/3 OR A.6/4) AND A.17/2 AND A.18/1 AND A.18b/1 AND A.18b/2 THEN R ELSE N/A
C91 IF A.3/2 AND (A.6/3 OR A.6/4) AND A.17/6 AND A.18/5 AND A.18b/1 AND A.18b/2 THEN R ELSE N/A
C92 IF A.2/1 AND A.3/3 AND A.6/1 AND (A.6/3 OR A.6/4) AND A.17/2 AND A.18/2 AND A.18b/1 AND A.18b/2 THEN R ELSE N/A
C93 IF A.20/29 THEN R ELSE N/A
C94 IF A.20/29 AND A.20/30 THEN R ELSE N/A
C95 IF (A.1/4 OR A.1/6) AND (A.2/1 OR A.2/2) THEN R ELSE N/A
C96 IF A.2/2 THEN R ELSE N/A
C97 IF (A.1/4 OR A.1/6) AND A.3/1 AND (A.4/1 OR A.4/2 OR A.4/3 OR A.4/4 OR A.4/5 OR A.4/6 OR A.4/7 OR A.4/8 OR A.4/9 OR A.4/10 OR A.4/11 OR A.4/12 OR A.4/13 OR A.4/14 OR A.4/15 OR A.4/16 OR A.4/17 OR A.4/18 OR A.4/19 OR A.4/20 OR A.4/21 OR A.4/22 OR A.4/23 OR A.4/24 OR A.4/25 OR A.4/26 OR A.4/27 OR A.4/28) THEN R ELSE N/A
C98 IF A.3/1 OR A.3/3 THEN R ELSE N/A.
C99 IF (A.3/1 OR A.3/3) AND A.20/36 THEN R ELSE N/A.
C100 IF (A.3/1 OR A.3/3) AND A.7/30 THEN R ELSE N/A.
C101 IF A.2/3 AND A.2/4 THEN R ELSE N/A
C102 IF A.2/5 AND A.2/6 THEN R ELSE N/A
C103 IF A.3/3 AND (NOT A.20/38) THEN R ELSE N/A
C104 IF A.20/37 AND (A.1/1 OR A.1/3 OR A.1/4 OR A.1/6) THEN R ELSE N/A
C105 IF A.20/37 AND (A.1/4 OR A.1/6) THEN R ELSE N/A
C106 IF (A.1/1 OR A.1/3 OR A.1/4 OR A.1/6) AND A.2/1 AND A.2/2 THEN R ELSE N/A
C01b IF A.1/2 OR A.1/3 OR A.1/5 OR A.1/6 THEN R ELSE N/A
C04b IF (A.1/2 OR A.1/3 OR A.1/5 OR A.1/6) AND A.2/2 THEN R ELSE N/A
C104b IF A.20/37 AND (A.1/2 OR A.1/3 OR A.1/5 OR A.1/6) THEN R ELSE N/A
C106b IF (A.1/2 OR A.1/3 OR A.1/5 OR A.1/6) AND A.2/1 AND A.2/2 THEN R ELSE N/A

Note 1. See [34a] TS 25.306 for definition of UE radio access reference combinations in uplink and downlink (UL xx kbps/DL xx kbps classes). See Annex B for mapping between reference radio bearer combinations and UE radio access reference combinations in uplink and downlink.

3GPP TSG-T WG1 Meeting #12 ***Tdoc T1-010329***
Busan, Korea, 6th- 7th September 2001

3GPP TSG- T1 Sig Meeting #19 ***Tdoc T1S-010193***
Busan, Korea, 3rd- 5th September 2001

CR-Form-v4

CHANGE REQUEST

⌘ **34.123-2 CR 027** ⌘ ev **-** ⌘ Current version: **3.4.0** ⌘

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

Proposed change affects: ⌘ (U)SIM ☐ ME/UE **X** Radio Access Network ☐ Core Network ☐

Title:	⌘	Addition of a test case for UE in GSM - 11.1.4.1.2.3 Successful Secondary PDP Context Activation Procedure Initiated by the UE/ LLC SAPI rejected by the UE
Source:	⌘	NEC Australia Pty. Ltd.
Work item code:	⌘	***Date:*** ⌘
Category:	⌘ **F**	***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)

Reason for change:	⌘	Addition of a test case.
Summary of change:	⌘	A new raw added in the Applicability Table
Consequences if not approved:	⌘	In the PDP context activation procedure initiated by the UE, if in GSM the UE can not support the LLC SAPI indicated by the network, the conformance requirement for the UE to initiate the PDP context deactivation procedure shall not be tested.

Clauses affected:	⌘			
Other specs affected:	⌘	☐ Other core specifications **X** Test specifications ☐ O&M Specifications	⌘	3GPP TS 34.123 v3.4.0
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/3G_Specs/CRs.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.

Table 1: Applicability of tests

Clause	Title	Applicability	Comments
SESSION MANAGEMENT			
11.1.1.1	Attach initiated by context activation/QoS Offered by Network is the QoS Requested	C12	UE supporting PS domain services.
11.1.1.2.1	QoS offered by the network is a lower QoS / QoS accepted by UE	C12	UE supporting PS domain services.
11.1.1.2.2	QoS offered by the network is a lower QoS / QoS rejected by UE	C12	UE supporting PS domain services. This test may not be applicable to the UEs which support all QoS and it is not possible to configure the UE to reject any QoS.
11.1.2	PDP context activation requested by the network, successful and unsuccessful	C17	UE supporting PS domain services configured in such a way that one or more PDP contexts can be active simultaneously.
11.1.3.1	Abnormal Cases / T3380 Expiry	C12	UE supporting PS domain services.
11.1.3.2	Abnormal Cases / Collision of UE initiated and network requested PDP context activation	C17	UE supporting PS domain services configured in such a way that one or more PDP contexts can be active simultaneously.
11.1.3.3	Abnormal Cases / Network initiated PDP context activation request for an already activated PDP context (on the UE side)	C12	UE supporting PS domain services.
11.1.4.1.1	Successful secondary PDP context activation procedure initiated by the UE/QoS Offered by Network is the QoS Requested	C12	UE supporting PS domain services.
11.1.4.1.2.1	Successful secondary PDP context activation procedure Initiated by the UE/QoS Offered by Network is a lower QoS/QoS accepted by UE	C12	UE supporting PS domain services.
11.1.4.1.2.2	Successful secondary PDP context activation procedure Initiated by the UE/QoS Offered by Network is a lower QoS/QoS rejected by UE	C12	UE supporting PS domain services.
11.1.4.1.2.3	Successful secondary PDP context activation procedure Initiated by the UE/LLC SAPI rejected by UE	C12	UE supporting PS domain services.
11.1.4.2	Unsuccessful Secondary PDP Context Activation Procedure Initiated by the UE	C12	UE supporting PS domain services.
11.1.4.2.1	Abnormal cases/T3380 Expiry	C12	UE supporting PS domain services.
11.2.1	Network initiated PDP context modification	C12	UE supporting PS domain services.
11.2.2.1	UE initiated PDP context modification/UE initiated PDP context modification accepted by network	C12	UE supporting PS domain services.
11.2.2.2	UE initiated PDP context modification/UE initiated PDP context modification not accepted by network	C12	UE supporting PS domain services.
11.2.3.1	Abnormal Cases/T3381 Expiry	C12	UE supporting PS domain services.
11.2.3.2	Collision of UE and network initiated PDP context modification procedures	C12	UE supporting PS domain services.
11.3.1	PDP context deactivation initiated by the UE	C12	UE supporting PS domain services.
11.3.2	PDP context deactivation initiated by the network	C12	UE supporting PS domain services.
11.3.3.1	Abnormal cases / T3390 Expiry	C12	UE supporting PS domain services.
11.3.3.2	Abnormal cases / Collision of UE and network initiated PDP context deactivation requests	C12	UE supporting PS domain services.
11.4.1	Error cases	C12	UE supporting PS domain services.

3GPP TSG-T WG1 Meeting #12
Busan, Korea, 6th - 7th Sep, 2001
Tdoc T1-010330

3GPP TSG-T WG1/SIG SWG Meeting #19
Busan, Korea, 3rd - 5th Sep, 2001
Tdoc T1S-010212

CR-Form-v3

CHANGE REQUEST

⌘ **34.123-2** **CR** **028** ⌘ rev **-** ⌘ Current version: **3.4.0** ⌘

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

Proposed change affects: ⌘ (U)SIM ☐ ME/UE ☒ Radio Access Network ☐ Core Network ☐

Title:	⌘	Update of Applicability statements for GMM
Source:	⌘	SONY
Work item code:	⌘	***Date:*** ⌘ 2001/09/06
Category:	⌘	**F** ***Release:*** ⌘ R99

Use one of the following categories:
- ***F*** *(essential 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)*

Reason for change: ⌘ It is necessary to:
- introduce new test cases in order to keep consistency with the change of the core specification.
- modify Applicability statement.

Summary of change: ⌘
1. Introductions of new test cases, according to the change in TS24.008.
   - New test items are introduced into the applicability statement table (table1).
   - In relation to the above-mentioned introduction, clause number for the following test items in the applicability statement table (table1) is changed.

     12.2.1.5, 12.2.2.7, 12.4.1.4, 12.4.2.5, 12.9.7
2. Modifications of applicability statement for each test case, according to the changes in TS51.010.
   - The applicability statement table (Table1) is modified.
   - Conditional expression (Table1) is modified.
   - Additional information (Table A.4.4) is modified.

Consequences if not approved: ⌘ Inconsistencies with the test specification (3GPP TS34.123-1) are left.

Clauses affected: ⌘ 4

Other specs affected: ⌘
- ☐ Other core specifications ⌘
- ☐ Test specifications
- ☐ O&M Specifications

Other comments: ⌘

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

4 Recommended test case applicability

The applicability of each individual test is identified in the table 1. This is just a recommendation based on the purpose for which the test case was written.

The applicability of every test is formally expressed by the use of Boolean expression that are based on parameters (ICS) included in annex A of this specification.

The columns in Table 1 have the following meaning:

Clause

The clause column indicates the clause number in 34.123-1 that contains the test body.

Title

The title column describes the name of the test.

Applicability

The following notations are used for the applicability column:

R	recommended - the test case is recommended
N/A	not applicable - in the given context, the test case is not recommended.
Ci	conditional - the test is recommended ("R") or not ("N/A") depending on the support of other items. "i" is an integer identifying an unique conditional status expression which is defined immediately following the table. For nested conditional expressions, the syntax "IF ... THEN (IF ... THEN ... ELSE...) ELSE ..." is used to avoid ambiguities.

Comments

This column contains a verbal description of the condition included in the applicability column.

Table 1: Applicability of tests

Clause	Title	Applicability	Comments
PACKET SWITCHED MOBILITY MANAGEMENT			
12.2.1.1	PS attach / accepted	C12	UE supporting PS domain services.
12.2.1.2	PS attach / rejected / IMSI invalid / illegal UE	C12	UE supporting PS domain services.
12.2.1.3	PS attach / rejected / IMSI invalid / PS services not allowed	C12	UE supporting PS domain services.
12.2.1.4	PS attach / rejected / PLMN not allowed	C12	UE supporting PS domain services.
12.2.1.5a	PS attach / rejected / roaming not allowed in this location area	C12	UE supporting PS domain services.
12.2.1.5b	PS attach / rejected / No Suitable Cells In Location Area	C12	UE supporting PS domain services.
12.2.1.6	PS attach / abnormal cases / access barred due to access class control	C12	UE supporting PS domain services.
12.2.1.7	PS attach / abnormal cases / change of cell into new routing area	C12	UE supporting PS domain services.
12.2.1.8	PS attach / abnormal cases / power off	C12	UE supporting PS domain services.
12.2.1.9	PS attach / abnormal cases / PS detach procedure collision	C12	UE supporting PS domain services.
12.2.2.1	Combined PS attach / PS and non-PS attach accepted	C88	UE supporting PS domain services and CS domain services.
12.2.2.2	Combined PS attach / PS only attach accepted	C88	UE supporting PS domain services and CS domain services.
12.2.2.3	Combined PS attach / PS attach while IMSI attach	C103	UE supports UE operation mode A and does not support automatic PS attach procedure at switch on.
12.2.2.4	Combined PS attach / rejected / IMSI invalid / illegal ME	C88	UE supporting PS domain services and CS domain services (UE supports UE operation mode A).
12.2.2.5	Combined PS attach / rejected / PS services and non-PS services not allowed	C88	UE supporting PS domain services and CS domain services (UE supports UE operation mode A).
12.2.2.6	Combined PS attach / rejected / PS services not allowed	C88	UE supporting PS domain services and CS domain services (UE supports UE operation mode A).
12.2.2.7a	Combined PS attach / rejected / location area not allowed	C88	UE supporting PS domain services and CS domain services (UE supports UE operation mode A).
12.2.2.7b	Combined PS attach / rejected / No Suitable Cells In Location Area	C88	UE supporting PS domain services and CS domain services (UE supports UE operation mode A).
12.2.2.8	Combined PS attach / abnormal cases / attempt counter check / miscellaneous reject causes	C88	UE supporting PS domain services and CS domain services (UE supports UE operation mode A).
12.2.2.9	Combined PS attach / abnormal cases / PS detach procedure collision	C88	UE supporting PS domain services and CS domain services (UE supports UE operation mode A).
12.3.1.1	PS detach / power off / accepted	C12	UE supporting PS domain services.
12.3.1.2	PS detach / accepted	C12	UE supporting PS domain services.
12.3.1.3	PS detach / abnormal cases / attempt counter check / procedure timeout	C12	UE supporting PS domain services.
12.3.1.4	PS detach / abnormal cases / GMM common procedure collision	C12	UE supporting PS domain services.
12.3.1.5	PS detach / power off / accepted	C88	UE supporting PS domain services and CS domain services (UE supports UE operation mode A).
12.3.1.6	PS detach / accepted / PS/IMSI detach	C107	ALL UE supporting user requested combined circuit switch and packet switch detach without power off.
12.3.1.7	PS detach / accepted / IMSI detach	C108	UE supporting user requested non-PS detach.
12.3.1.8	PS detach / abnormal cases / change of cell into new routing area	C107	ALL UE supporting user requested combined circuit switch and packet switch detach without power off.
12.3.1.9	PS detach / abnormal cases / PS detach procedure collision	C107	ALL UE supporting user requested combined circuit switch and packet switch detach without power off.
12.3.2.1	PS detach / re-attach not required / accepted	C12	UE supporting PS domain services.
12.3.2.2	PS detach / rejected / IMSI invalid / PS services not allowed	C12	UE supporting PS domain services.
12.3.2.3	PS detach / IMSI detach / accepted	C88	UE supporting PS domain services and CS domain services (UE supports UE operation mode A).

Clause	Title	Applicability	Comments
12.3.2.4	PS detach / re-attach requested / accepted	C88	UE supporting PS domain services and CS domain services (UE supports UE operation mode A).
12.3.2.5	PS detach / rejected / location area not allowed	C12	UE supporting PS domain services.
12.3.2.6	PS detach / rejected / No Suitable Cells In Location Area	C12	UE supporting PS domain services.
12.4.1.1	Routing area updating / accepted	C12	UE supporting PS domain services.
12.4.1.2	Routing area updating / rejected / IMSI invalid / illegal ME	C12	UE supporting PS domain services.
12.4.1.3	Routing area updating / rejected / UE identity cannot be derived by the network	C12	UE supporting PS domain services.
12.4.1.4a	Routing area updating / rejected / location area not allowed	C12	UE supporting PS domain services.
12.4.1.4b	Routing area updating / rejected / No Suitable Cells In Location Area	C12	UE supporting PS domain services.
12.4.1.5	Routing area updating / abnormal cases / attempt counter check / miscellaneous reject causes	C12	UE supporting PS domain services.
12.4.1.6	Routing area updating / abnormal cases / change of cell into new routing area	C12	UE supporting PS domain services.
12.4.1.7	Routing area updating / abnormal cases / change of cell during routing area updating procedure	C12	UE supporting PS domain services.
12.4.1.8	Routing area updating / abnormal cases / P-TMSI reallocation procedure collision	C12	UE supporting PS domain services.
12.4.2.1	Combined routing area updating / combined RA/LA accepted	C88	UE supporting PS domain services and CS domain services (UE supports UE operation mode A).
12.4.2.2	Combined routing area updating / UE in CS operation at change of RA	C88	UE supporting PS domain services and CS domain services (UE supports UE operation mode A).
12.4.2.3	Combined routing area updating / RA only accepted	C88	UE supporting PS domain services and CS domain services (UE supports UE operation mode A).
12.4.2.4	Combined routing area updating / rejected / PLMN not allowed	C88	UE supporting PS domain services and CS domain services (UE supports UE operation mode A).
12.4.2.5a	Combined routing area updating / rejected / roaming not allowed in this location area	C88	UE supporting PS domain services and CS domain services (UE supports UE operation mode A).
12.4.2.5b	Combined routing area updating / rejected / No Suitable Cells In Location Area	C88	UE supporting PS domain services and CS domain services (UE supports UE operation mode A).
12.4.2.6	Combined routing area updating / abnormal cases / access barred due to access class control	C88	UE supporting PS domain services and CS domain services (UE supports UE operation mode A).
12.4.2.7	Combined routing area updating / abnormal cases / attempt counter check / procedure timeout	C88	UE supporting PS domain services and CS domain services (UE supports UE operation mode A).
12.4.2.8	Combined routing area updating / abnormal cases / change of cell into new routing area	C88	UE supporting PS domain services and CS domain services (UE supports UE operation mode A).
12.4.2.9	Combined routing area updating / abnormal cases / change of cell during routing area updating procedure	C88	UE supporting PS domain services and CS domain services (UE supports UE operation mode A).
12.4.2.10	Combined routing area updating / abnormal cases / PS detach procedure collision	C88	UE supporting PS domain services and CS domain services (UE supports UE operation mode A).
12.4.3.1	Periodic routing area updating / accepted	C12	UE supporting PS domain services.
12.4.3.2	Periodic routing area updating / accepted / T3312 default value	C12	UE supporting PS domain services.
12.4.3.3	Periodic routing area updating / no cell available / network mode I	C12	UE supporting PS domain services.
12.4.3.4	Combined periodic routing area updating / no cell available	C88	UE supporting PS domain services and CS domain services (UE supports UE operation mode A).
12.5	P-TMSI reallocation	C12	UE supporting PS domain services.
12.6.1.1	Authentication accepted	C12	UE supporting PS domain services.
12.6.1.2	Authentication rejected - by the network	C12	UE supporting PS domain services.
12.6.1.3.1	GMM cause ‘MAC failure’	C12	UE supporting PS domain services
12.6.1.3.2	GMM cause ‘Synch failure’	C12	UE supporting PS domain services
12.6.1.3.3	Authentication rejected by the UE / fraudulent network	C12	UE supporting PS domain services

Clause	Title	Applicability	Comments
12.7.1	General Identification	C12	UE supporting PS domain services.
12.8	GMM READY timer handling	C12	UE supporting PS domain services.
12.9.1	Service Request Initiated by UE Procedure	C12	UE supporting PS domain services.
12.9.2	Service Request Initiated by Network Procedure	C12	UE supporting PS domain services.
12.9.3	Service Request / rejected / Illegal MS	C12	UE supporting PS domain services.
12.9.4	Service Request / rejected / PS services not allowed	C12	UE supporting PS domain services.
12.9.5	Service Request / rejected / MS identity cannot be derived by the network	C12	UE supporting PS domain services.
12.9.6	Service Request / rejected / PLMN not allowed	C12	UE supporting PS domain services.
12.9.7a	Service Request / rejected / No PDP context activated	C12	UE supporting PS domain services.
12.9.7b	Service Request / rejected / No Suitable Cells In Location Area	C12	UE supporting PS domain services.
12.9.8	Service Request / Abnormal cases / Access barred due to access class control	C12	UE supporting PS domain services.
12.9.9	Service Request / Abnormal cases / Routing area update procedure is triggered	C12	UE supporting PS domain services.
12.9.10	Service Request / Abnormal cases / Power off	C12	UE supporting PS domain services.
12.9.11	Service Request / Abnormal cases / Service request procedure collision	C12	UE supporting PS domain services.

********** Next changes **********

C01	IF A.1/1 OR A.1/3 OR A.1/4 OR A.1/6 THEN R ELSE N/A
C02	IF A.1/2 OR A.1/3 OR A.1/5 OR A.1/6 THEN R ELSE N/A
C03	IF A.1/3 OR A.1/6 THEN R ELSE N/A
C04	IF (A.1/1 OR A.1/3 OR A.1/4 OR A.1/6) AND A.2/2 THEN R ELSE N/A
C05	IF A.1/4 OR A.1/6 THEN R ELSE N/A
C06	IF (A.1/1 OR A.1/3 OR A.1/4 OR A.1/6) AND A.3/2 THEN R ELSE N/A
C07	IF (A.1/1 OR A.1/3 OR A.1/4 OR A.1/6) AND A.20/27 THEN R ELSE N/A
C08	IF (A.1/1 OR A.1/3 OR A.1/4 OR A.1/6) AND A.20/28 THEN R ELSE N/A
C09	IF (A.1/1 OR A.1/3 OR A.1/4 OR A.1/6) AND NOT A.20/3 THEN R ELSE N/A
C10	IF A.20/4 THEN R ELSE N/A
C11	IF A.20/5 THEN R ELSE N/A
C12	IF A.3/2 THEN R ELSE N/A
C13	IF A.2/1 OR A.2/2 OR A.10/2 THEN R ELSE N/A
C14	IF A.20/4 OR A.20/5 THEN R ELSE N/A
C15	IF A.10/2 THEN R ELSE N/A
C16	IF A.20/1 THEN R ELSE N/A
C17	IF A.3/3 AND A.20/7 THEN R ELSE N/A
C18	IF A.2/3 THEN R ELSE N/A
C19	IF A.1/1 THEN R ELSE N/A
C20	IF A.2/4 THEN R ELSE N/A
C21	IF A.20/8 AND A.3/1 THEN R ELSE N/A
C22	IF A.20/9 AND A.3/1 THEN R ELSE N/A
C23	IF A.3/1 THEN R ELSE N/A
C24	IF A.20/11 AND A.3/1 THEN R ELSE N/A
C25	IF A.20/12 AND A.3/1 THEN R ELSE N/A
C26	IF A.2/5 THEN R ELSE N/A
C27	IF A.2/6 THEN R ELSE N/A
C28	IF A.20/8 AND A.3/2 THEN R ELSE N/A
C29	IF A.20/9 AND A.3/2 THEN R ELSE N/A
C30	A.3/2 THEN R ELSE N/A
C31	IF A.20/11 AND A.3/2 THEN R ELSE N/A
C32	IF A.20/12 AND A.3/2 THEN R ELSE N/A
C33	IF A.20/13 AND A.3/1 THEN R ELSE N/A
C34	IF A.20/14 AND A.2/4 AND A.3/1 THEN R ELSE N/A
C35	IF A.20/15 AND A.3/1 THEN R ELSE N/A
C36	IF A.20/16 AND A.3/1 THEN R ELSE N/A
C37	IF A.20/13 AND A.3/2 THEN R ELSE N/A
C38	IF A.20/14 AND A.2/6 THEN R ELSE N/A
C39	IF A.20/15 AND A.3/2 THEN R ELSE N/A
C40	IF A.20/16 AND A.3/2 THEN R ELSE N/A
C41	IF (NOT A.20/17) AND (NOT A.20/6) AND A.20/5 THEN R ELSE N/A
C42	IF A.17/1 AND A.18/1 AND A.18b/3 THEN R ELSE N/A
C43	IF A.2/1 AND A.3/1 AND A.6/1 AND A.17/1 AND A.18/1 THEN R ELSE N/A
C44	IF A.3/1 AND A.6/1 AND A.17/2 AND A.18/2 THEN R ELSE N/A
C45	IF A.3/1 AND A.6/2 AND A.17/2 AND A.18/2 THEN R ELSE N/A
C46	IF (A.3/1 OR A.3/2) AND A.6/2 AND A.17/2 AND A.18/1 THEN R ELSE N/A
C47	IF (A.3/1 OR A.3/2) AND A.6/2 AND A.17/1 AND A.18/2 THEN R ELSE N/A
C48	IF (A.3/1 OR A.3/2) AND A.6/2 AND A.17/4 AND A.18/1 THEN R ELSE N/A
C49	IF (A.3/1 OR A.3/2) AND A.6/2 AND A.17/1 AND A.18/4 THEN R ELSE N/A
C50	IF (A.3/1 OR A.3/2) AND A.6/2 AND A.17/6 AND A.18/1 THEN R ELSE N/A
C51	IF A.3/2 AND (A.6/3 OR A.6/4) AND A.17/1 AND A.18/1 THEN R ELSE N/A
C52	IF A.3/2 AND (A.6/3 OR A.6/4) AND A.17/1 AND A.18/2 THEN R ELSE N/A
C53	IF A.3/2 AND (A.6/3 OR A.6/4) AND A.17/2 AND A.18/1 AND A.18b/1 THEN R ELSE N/A
C54	IF A.3/2 AND (A.6/3 OR A.6/4) AND A.17/2 AND A.18/2 THEN R ELSE N/A
C55	IF A.3/2 AND (A.6/3 OR A.6/4) AND A.17/3 AND A.18/2 THEN R ELSE N/A
C56	IF A.3/2 AND (A.6/3 OR A.6/4) AND A.17/3 AND A.18/3 THEN R ELSE N/A
C57	IF A.3/2 AND (A.6/3 OR A.6/4) AND A.17/4 AND A.18/2 THEN R ELSE N/A
C58	IF A.3/2 AND (A.6/3 OR A.6/4) AND A.17/4 AND A.18/3 THEN R ELSE N/A
C59	IF A.3/2 AND (A.6/3 OR A.6/4) AND A.17/4 AND A.18/4 THEN R ELSE N/A
C60	IF A.3/2 AND (A.6/3 OR A.6/4) AND A.17/5 AND A.18/2 THEN R ELSE N/A
C61	IF A.3/2 AND (A.6/3 OR A.6/4) AND A.17/5 AND A.18/3 THEN R ELSE N/A
C62	IF A.3/2 AND (A.6/3 OR A.6/4) AND A.17/5 AND A.18/5 THEN R ELSE N/A
C63	IF A.3/2 AND (A.6/3 OR A.6/4) AND A.17/6 AND A.18/2 AND A.13/2 THEN R ELSE N/A
C64	IF A.3/2 AND (A.6/3 OR A.6/4) AND A.17/6 AND A.18/3 AND A.13/2 THEN R ELSE N/A
C65	IF A.3/2 AND (A.6/3 OR A.6/4) AND A.17/6 AND A.18/4 AND A.13/2 THEN R ELSE N/A
C66	IF A.3/2 AND (A.6/3 OR A.6/4) AND A.17/6 AND A.18/5 AND A.13/2 THEN R ELSE N/A
C67	IF A.2/1 AND A.3/3 AND A.6/1 AND (A.6/3 OR A.6/4) AND A.17/2 AND A.18/2 AND A.18b/1 THEN R ELSE N/A
C68	IF A.2/1 AND A.3/3 AND A.6/1 AND (A.6/3 OR A.6/4) AND A.17/3 AND A.18/2 THEN R ELSE N/A
C69	IF A.2/1 AND A.3/3 AND A.6/1 AND (A.6/3 OR A.6/4) AND A.17/4 AND A.18/2 THEN R ELSE N/A

C70 IF A.2/1 AND A.3/3 AND A.6/1 AND (A.6/3 OR A.6/4) AND A.17/5 AND A.18/2 THEN R ELSE N/A
C71 IF A.2/1 AND A.3/3 AND A.6/1 AND (A.6/3 OR A.6/4) AND A.17/6 AND A.18/3 AND A.13/2 THEN R ELSE N/A
C72 IF A.7/28 AND A.2/1 AND A.3/1 AND A.6/1 AND A.6/2 AND A.17/2 AND A.18/2 THEN R ELSE N/A
C73 IF A.2/1 AND ((A.3/1 AND A.7/28) OR A.3/3) AND A.6/1 AND A.6/2 AND A.17/2 AND A.18/1 THEN R ELSE N/A
C74 IF A.2/1 AND A.3/1 AND A.7/28 AND A.6/1 AND A.6/2 AND A.17/3 AND A.18/1 THEN R ELSE N/A
C75 IF A.2/1 AND A.3/1 AND A.7/28 AND A.6/1 AND A.6/2 AND A.17/6 AND A.18/1 THEN R ELSE N/A
C76 IF A.7/28 AND A.2/1 AND A.3/1 AND A.6/1 AND A.17/2 AND A.18/2 THEN R ELSE N/A
C77 IF A.7/28 AND A.3/1 AND A.6/1 AND A.17/4 AND A.18/4 THEN R ELSE N/A
C78 IF A.3/3 AND A.6/1 AND (A.6/3 OR A.6/4) AND A.17/4 AND A.18/4 THEN R ELSE N/A
C79 IF (A.3/2 OR A.3/3) AND A.6/2 AND (A.6/3 OR A.6/4) AND A.17/4 AND A.18/2 THEN R ELSE N/A
C80 IF A.3/2 AND A.6/2 AND (A.6/3 OR A.6/4) AND A.17/5 AND A.18/2 THEN R ELSE N/A
C81 IF A.3/2 AND (A.6/3 OR A.6/4) AND A.17/5 AND A.18/2 AND A.18b/4 THEN R ELSE N/A

Alternatively to DL 768 kbps class the test case may be applicable to DL 384 kbps class, then:
IF A.3/2 AND (A.6/3 OR A.6/4) AND A.17/4 AND A.18/2 AND A.18b/4 AND THEN E ELSE N/A

C82 IF A.3/3 AND (A.6/3 OR A.6/4) AND A.17/5 AND A.18/2 AND A.18b/4 THEN R ELSE N/A

Alternatively to DL 768 kbps class the test case may be applicable to DL 384 kbps class, then:
IF A.2/1 AND A.3/3 AND A.6/1 AND (A.6/3 OR A.6/4) AND A.17/4 AND A.18/2 AND A.18b/4 THEN R ELSE N/A

C83 IF A.2/1 AND A.3/3 AND A.6/1 AND (A.6/3 OR A.6/4) AND A.17/6 AND A.18/2 AND A.18b/4 AND A.13/2 THEN R ELSE N/A
C84 IF A.17/1 THEN R ELSE N/A
C85 IF A.3/2 AND (A.6/3 OR A.6/4) AND A.17/1 THEN R ELSE N/A
C86 IF A.3/2 AND (A.6/3 OR A.6/4) AND A.18/1 THEN R ELSE N/A
C87 IF A.3/2 AND (A.6/3 OR A.6/4) AND A.17/6 AND A.18/2 AND A.18b/4 AND A.13/2 THEN R ELSE N/A
C88 IF A.3/3 THEN R ELSE N/A.
C89 IF (A.3/1 OR A.3/2) AND A.6/2 AND A.17/6 AND A.18/1 AND A.18b/1 AND A.18b/2 THEN R ELSE N/A
C90 IF A.3/2 AND (A.6/3 OR A.6/4) AND A.17/2 AND A.18/1 AND A.18b/1 AND A.18b/2 THEN R ELSE N/A
C91 IF A.3/2 AND (A.6/3 OR A.6/4) AND A.17/6 AND A.18/5 AND A.18b/1 AND A.18b/2 THEN R ELSE N/A
C92 IF A.2/1 AND A.3/3 AND A.6/1 AND (A.6/3 OR A.6/4) AND A.17/2 AND A.18/2 AND A.18b/1 AND A.18b/2 THEN R ELSE N/A
C93 IF A.20/29 THEN R ELSE N/A
C94 IF A.20/29 AND A.20/30 THEN R ELSE N/A
C95 IF (A.1/4 OR A.1/6) AND (A.2/1 OR A.2/2) THEN R ELSE N/A
C96 IF A.2/2 THEN R ELSE N/A
C97 IF (A.1/4 OR A.1/6) AND A.3/1 AND (A.4/1 OR A.4/2 OR A.4/3 OR A.4/4 OR A.4/5 OR A.4/6 OR A.4/7 OR A.4/8 OR A.4/9 OR A.4/10 OR A.4/11 OR A.4/12 OR A.4/13 OR A.4/14 OR A.4/15 OR A.4/16 OR A.4/17 OR A.4/18 OR A.4/19 OR A.4/20 OR A.4/21 OR A.4/22 OR A.4/23 OR A.4/24 OR A.4/25 OR A.4/26 OR A.4/27 OR A.4/28) THEN R ELSE N/A
C98 IF A.3/1 OR A.3/3 THEN R ELSE N/A.
C99 IF (A.3/1 OR A.3/3) AND A.20/36 THEN R ELSE N/A.
C100 IF (A.3/1 OR A.3/3) AND A.7/30 THEN R ELSE N/A.
C101 IF A.2/3 AND A.2/4 THEN R ELSE N/A
C102 IF A.2/5 AND A.2/6 THEN R ELSE N/A
C103 IF A.3/3 AND (NOT A.20/38) THEN R ELSE N/A
C104 IF A.20/37 AND (A.1/1 OR A.1/3 OR A.1/4 OR A.1/6) THEN R ELSE N/A
C105 IF A.20/37 AND (A.1/4 OR A.1/6) THEN R ELSE N/A
C106 IF (A.1/1 OR A.1/3 OR A.1/4 OR A.1/6) AND A.2/1 AND A.2/2 THEN R ELSE N/A
C107 IF A.3/3 AND A.20/39 THEN R ELSE N/A
C108 IF A.3/2 AND A.20/40 THEN R ELSE N/A

Note 1. See [34a] TS 25.306 for definition of UE radio access reference combinations in uplink and downlink (UL xx kbps/DL xx kbps classes). See Annex B for mapping between reference radio bearer combinations and UE radio access reference combinations in uplink and downlink.

********** Next changes **********

A.4.4 Additional information

Table A.20: Additional information

Item	Additional information	Ref.	Comments
1	At least one bearer service	22.002, 3	
2	At least one supplementary service	22.004, 4	
3	Inter-system measurement for GSM	25.331, 8.4	
4	At least one MO circuit switched basic service	24.008, 5.3.4.2.1	
5	At lease one MT circuit switched basic service	24.008, 5.3.4.2.2	
6	Immediate connect supported for all circuit switched basic services.	24.008, 5.2.1.6	
7	Activation of one or more PDP contexts simultaneously	[TBD]	
8	Sending of correct acknowledgement of memory full condition	[TBD]	
9	Status report capability	[TBD]	
10	(Void)		
11	Storing of received Class 1 short messages	[TBD]	
12	Storing of received Class 2 short messages in the SIM	[TBD]	
13	Replacing of short messages	[TBD]	
14	Reply procedures	23.040, Annex 4	
15	Sending of multiple short messages on the same RR connection when there is no call in progress	[TBD]	
16	Sending of concatenated multiple short messages when there is a call in progress	[TBD]	
17	Only circuit switched basic service supported by the mobile is emergency call	22.003, 6, A.1.2	
18	Multi-code transmission	[TBD]	
19	Poll_PU based polling mode of AM RLC	[TBD]	
20	Timer based polling mode of AM RLC	[TBD]	
21	Discard mode of AM RLC	[TBD]	
22	At least one MO circuit switched basic service	[TBD]	
23	At least one MO circuit switched basic service for which immediate connect is not used	[TBD]	
24	Network initiated MO call (CCBS)	24.008, 5.2.3 24.093, 4.1	
25	DTMF protocol control procedure	24.008, 5.5.7	
26	Secondary PDP context activation procedure	24.008, 6.1.3.2	
27	Support of UMTS encryption algorithm UEA1	33.102, 6.6	
28	Support of UMTS integrity algorithm UIA1	33.102, 6.5	
29	Support Automatic calling repeat call attempt	22.001, Annex E	
30	Support auto-calling more B-party numbers than the number of B-party numbers that can be stored in the list of blacklisted numbers	22.001, Annex E	
31	Support of SMS Cell Broadcast, i.e. the UE is capable of receiving and displaying broadcast messages.	23.041, 8 25.324, 11	
32	Support of Follow On Proceed	24.008, 4.4.4.6	
33	Support detach on power down		
34	Support detach on USIM removal		
35	Support switch on/off		
36	Support USIM removal without power down		
37	Indication and user selection of PLMN	23.122, 4.4.3	
38	Support of automatic PS attach procedure at switch on.		
39	User requested combined PS and non-PS detached without powering off	24.008, 4.7.4	
40	User requested non-PS detached	24.008, 4.7.4	

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CR-Form-v4

CHANGE REQUEST

⌘ **34.123-2** **CR** **029** ⌘ ev **-** ⌘ Current version: **3.4.0** ⌘

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

Proposed change affects: ⌘ (U)SIM ☐ ME/UE **X** Radio Access Network ☐ Core Network ☐

Title:	⌘	Update of applicability of FDD interoperability radio bearer test cases
Source:	⌘	Ericsson
Work item code:	⌘	***Date:*** ⌘ 2001-09-02
Category:	⌘ **F**	***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)*

Reason for change: ⌘

- To align entries in the applicability table in 34.123-2 according to 34.123-1 for FDD radio bearer test cases.
- Currently the applicability of the interoperability radio bearer test cases is based on the UE radio access capability parameter combinations (=UE classes) as defined in 25.306. The purpose of using the UE classes have been to provide a convenient tool when defining the applicability of the radio bearer test cases and to not having to define the required value of every UE radio access capability parameter. However, it has been found that for certain alternatives of the FDD interoperability radio bearer configurations the use of the UE classes is not such an efficient tool and that there is a need to base the applicability by using the signalled UE radio access capability parameters (defined in 25.306).

Summary of change: ⌘

1. Table 1, clause 4: Split up applicability statement for following test cases:

   - 14.2.24 split up into 14.2.24.1 (TC) and 14.2.24.2 (CC)
   - 14.2.42 split up into 14.2.42.1 (10ms TTI) and 14.2.42.2 (20ms TTI)
   - 14.3.4 split up into 14.3.4.1 (10ms TTI) and 14.3.4.2 (20ms TTI)
   - 14.3.5 split up into 14.3.4.1 (10ms TTI) and 14.3.4.2 (20ms TTI case)
   - 14.3.6 split up into 14.3.6.1 (10ms TTI) and 14.3.6.2 (20ms TTI)

2. Clause A.4.3.3: Add new sub-section "A.4.3.3.1 FDD Interoperability Radio Bearer Capabilities" and add new ICS tables for FDD interoperability reference radio bearer configurations.

   The new tables are:
   - A.18c (FDD interoperability radio bearer capabilities for combinations on

		DPCH) - A.18d (FDD interoperability radio bearer capabilities for combinations on PDSCH and DPCH) - A.18e (FDD interoperability radio bearer capabilities for combinations on SCCPCH) - A.18f (FDD interoperability radio bearer capabilities for combinations on PRACH) 3. Table 1, clause 4: Updated applicability statement for all FDD radio bearer test cases using the new ICS parameters as defined in ICS tables A.18c to A.18f. 4. In the new ICS tables A.18c to A.18f a column have been added named "Applicability (Minimum UE radio access capability). For each interoperability reference radio bearer configuration the applicability for testing have been defined by specifying the required minimum value of the relevant UE radio access capabilities, which are defined in 25.306. 5. Marked tables A.17 (UE Radio Access Reference Combinations DL) and A.18 (UE Radio Access Reference Combinations DL) as "Void" as the ICS items in the tables are not used in any applicability statement anymore. 6. Annex B (mapping of UE radio access capability combinations to reference radio bearer configurations) have been removed (marked as Void) as the UE classes is not used anymore to define applicability of interoperability reference radio bearer configurations.
Consequences if not approved:	⌘	34.123-1 and 34.123-2 not aligned. Applicability of interoperability reference radio bearer configurations misleading.

Clauses affected:	⌘	Clause 4, Annex A.4.3.3 and Annex B		
Other specs affected:	⌘	☐ Other core specifications ☐ Test specifications ☐ O&M Specifications	⌘	
Other comments:	⌘			

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4 Recommended test case applicability

The applicability of each individual test is identified in the table 1. This is just a recommendation based on the purpose for which the test case was written.

The applicability of every test is formally expressed by the use of Boolean expression that are based on parameters (ICS) included in annex A of this specification.

The columns in Table 1 have the following meaning:

Clause

The clause column indicates the clause number in 34.123-1 that contains the test body.

Title

The title column describes the name of the test.

Applicability

The following notations are used for the applicability column:

R	recommended - the test case is recommended
N/A	not applicable - in the given context, the test case is not recommended.
Ci	conditional - the test is recommended ("R") or not ("N/A") depending on the support of other items. "i" is an integer identifying an unique conditional status expression which is defined immediately following the table. For nested conditional expressions, the syntax "IF ... THEN (IF ... THEN ... ELSE...) ELSE ..." is used to avoid ambiguities.

Comments

This column contains a verbal description of the condition included in the applicability column.

Table 1: Applicability of tests

Clause	Title	Applicability	Comments
IDLE MODE			

<START MODIFIED SECTION>

RADIO BEARER SERVICES			
	Combinations on DPCH		
14.2.1	Stand-alone UL:1.7 DL:1.7 kbps SRBs for DCCH	C107~~C42~~	UEs supporting FDD and reference radio bearer configuration "Stand-alone UL:1.7 DL:1.7 kbps SRBs for DCCH "~~DL 32 kbps class or higher; and UL 32 kbps class or higher.~~ See Note 1
14.2.2	Stand-alone UL:3.4 DL:3.4 kbps SRBs for DCCH	C108~~C42~~	UEs supporting FDD and reference radio bearer configuration "Stand-alone UL:3.4 DL:3.4 kbps SRBs for DCCH" ~~DL 32 kbps class or higher; and UL 32 kbps class or higher; and SF512.~~ ~~See Note 1~~
14.2.3	Stand-alone UL:13.6 DL:13.6 kbps SRBs for DCCH	C109~~C42~~	UEs supporting FDD and reference radio bearer configuration "Stand-alone UL:13.6 DL:13.6 kbps SRBs for DCCH" ~~DL 32 kbps class or higher; and UL 32 kbps class or higher.~~ ~~See Note 1~~
14.2.4	Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH	C110~~C43~~	UEs supporting FDD and reference radio bearer configuration "Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH" ~~Narrow band speech (AMR); and CS bearer services; and Conversational traffic class; and DL 32 kbps class or higher; and UL 32 kbps class or higher.~~ ~~See Note 1~~
14.2.5	Conversational / speech / UL:10.2 DL:10.2 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH	C111~~C43~~	UE supporting FDD and reference radio bearer configuration "Conversational / speech / UL:10.2 DL:10.2 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH" ~~Narrow band speech (AMR); and CS bearer services; and Conversational traffic class; and DL 32 kbps class or higher; and UL 32 kbps class or higher.~~ ~~See Note 1~~
14.2.6	Conversational / speech / UL:7.95 DL:7.95 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH	C112~~C43~~	UE supporting FDD and reference radio bearer configuration "Conversational / speech / UL:7.95 DL:7.95 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH" ~~Narrow band speech (AMR); and CS bearer services; and Conversational traffic class; and DL 32 kbps class or higher; and UL 32 kbps class or higher.~~

			~~See Note 1~~
14.2.7	Conversational / speech / UL:7.4 DL:7.4 kbps / CS RAB+ UL:3.4 DL:3.4 kbps SRBs for DCCH	C113~~C43~~	UE supporting FDD and reference radio bearer configuration "Conversational / speech / UL:7.4 DL:7.4 kbps / CS RAB+ UL:3.4 DL:3.4 kbps SRBs for DCCH" ~~Narrow band speech (AMR); and CS bearer services; and Conversational traffic class; and DL 32 kbps class or higher; and UL 32 kbps class or higher.~~ ~~See Note 1~~
14.2.8	Conversational / speech / UL:6.7 DL:6.7 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH	C114~~C43~~	UE supporting FDD and reference radio bearer configuration "Conversational / speech / UL:6.7 DL:6.7 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH" ~~Narrow band speech (AMR); and CS bearer services; and Conversational traffic class; and DL 32 kbps class or higher; and UL 32 kbps class or higher.~~ ~~See Note 1~~
14.2.9	Conversational / speech / UL:5.9 DL:5.9 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH	C115~~C43~~	UE supporting FDD and reference radio bearer configuration "Conversational / speech / UL:5.9 DL:5.9 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH" ~~Narrow band speech (AMR); and CS bearer services; and Conversational traffic class; and DL 32 kbps class or higher; and UL 32 kbps class or higher.~~ ~~See Note 1~~
14.2.10	Conversational / speech / UL:5.15 DL:5.15 kbps / CS RAB + UL:1.7 DL:1.7 kbps SRBs for DCCH	C116~~C43~~	UE supporting FDD and reference radio bearer configuration "Conversational / speech / UL:5.15 DL:5.15 kbps / CS RAB + UL:1.7 DL:1.7 kbps SRBs for DCCH" ~~Narrow band speech (AMR); and CS bearer services; and Conversational traffic class; and DL 32 kbps class or higher; and UL 32 kbps class or higher.~~ ~~See Note 1~~
14.2.11	Conversational / speech / UL:4.75 DL:4.75 kbps / CS RAB + UL:1.7 DL:1.7 kbps SRBs for DCCH	C117~~C43~~	UE supporting FDD and reference radio bearer configuration "Conversational / speech / UL:4.75 DL:4.75 kbps / CS RAB + UL:1.7 DL:1.7 kbps SRBs for DCCH" ~~Narrow band speech (AMR); and CS bearer services; and Conversational traffic class; and DL 32 kbps class or higher; and UL 32 kbps class or higher.~~ ~~See Note 1~~
14.2.12	Conversational / unknown / UL:28.8 DL:28.8 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH	C118~~C44~~	UE supporting- FDD and reference radio bearer configuration "Conversational / unknown / UL:28.8 DL:28.8 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH" ~~CS bearer services; and Conversational traffic class; and DL 64 kbps class or higher; and UL 64 kbps class or higher.~~ ~~See Note 1~~
14.2.13.1	Conversational / unknown / UL:64 DL:64 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH / 20 ms TTI	C119~~C44~~	UE supporting FDD and reference radio bearer configuration "Conversational / unknown / UL:64

			DL:64 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH / 20 ms TTI" ~~CS bearer services; and Conversational traffic class; and DL 64 kbps class or higher; and UL 64 kbps class or higher.~~ ~~See Note 1~~
14.2.13.2	Conversational / unknown / UL:64 DL:64 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH / 40 ms TTI	C120~~C44~~	UE supporting FDD and reference radio bearer configuration "Conversational / unknown / UL:64 DL:64 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH / 40 ms TTI" ~~CS bearer services; and Conversational traffic class; and DL 64 kbps class or higher; and UL 64 kbps class or higher.~~ ~~See Note 1~~
14.2.14.1	Conversational / unknown / UL:32 DL:32 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH / 20 ms TTI	C121~~C44~~	UE supporting FDD and reference radio bearer configuration "Conversational / unknown / UL:32 DL:32 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH / 20 ms TTI" ~~CS bearer services; and Conversational traffic class; and DL 64 kbps class or higher; and UL 64 kbps class or higher.~~ ~~See Note 1~~
14.2.14.2	Conversational / unknown / UL:32 DL:32 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH / 40 ms TTI	C122~~C44~~	UE supporting FDD and reference radio bearer configuration "Conversational / unknown / UL:32 DL:32 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH / 40 ms TTI" ~~CS bearer services; and Conversational traffic class; and DL 64 kbps class or higher; and UL 64 kbps class or higher.~~ ~~See Note 1~~
14.2.15	Streaming / unknown / UL:14.4/DL:14.4 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH	C123~~C45~~	UE supporting FDD and reference radio bearer configuration "Streaming / unknown / UL:14.4/DL:14.4 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH" ~~CS bearer services; and Streaming traffic class; and DL 64 kbps class or higher; and UL 64 kbps class or higher.~~ ~~See Note 1~~
14.2.16	Streaming / unknown / UL:28.8/DL:28.8 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH	C124~~C45~~	UE supporting FDD and reference radio bearer configuration "Streaming / unknown / UL:28.8/DL:28.8 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH" ~~CS bearer services; and Streaming traffic class; and DL 64 kbps class or higher; and UL 64 kbps class or higher.~~ ~~See Note 1~~
14.2.17	Streaming / unknown / UL:57.6/DL:57.6 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH	C125~~C45~~	UE supporting FDD and reference radio bearer configuration "Streaming / unknown / UL:57.6/DL:57.6 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH" ~~CS bearer services; and Streaming traffic class; and DL 64 kbps class or higher; and UL 64 kbps class or higher.~~ ~~See Note 1~~
14.2.18	Streaming / unknown / UL:0 DL:64 kbps / CS ~~or~~	C126~~C46~~	UE supporting FDD and reference radio

	~~PS~~ RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH		bearer configuration "Streaming / unknown / UL:0 DL:64 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH" ~~CS or PS bearer services; and~~ ~~Streaming traffic class; and~~ ~~DL 64 kbps class or higher; and~~ ~~UL 32 kbps class or higher.~~ ~~See Note 1~~
14.2.19	Streaming / unknown / UL:64 DL:0 kbps / ~~CS or PS~~CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH	C127~~C47~~	UE supporting FDD and reference radio bearer configuration "Streaming / unknown / UL:64 DL:0 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH" ~~CS or PS bearer services; and~~ ~~Streaming traffic class; and~~ ~~DL 32 kbps class or higher; and~~ ~~UL 64 kbps class or higher.~~ ~~See Note 1.~~
14.2.20	Streaming / unknown / UL:0 DL:128 kbps / ~~CS or PS~~CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH	C128~~C48~~	UE supporting FDD and reference radio bearer configuration "Streaming / unknown / UL:0 DL:128 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH" ~~CS or PS bearer services; and~~ ~~Streaming traffic class; and~~ ~~DL 384 kbps class or higher; and~~ ~~UL 32 kbps class or higher.~~ ~~See Note 1.~~
14.2.21	Streaming / unknown / UL:128 DL:0 kbps / ~~CS or PS~~CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH	C129~~C49~~	UEs supporting FDD and reference radio bearer configuration "Streaming / unknown / UL:128 DL:0 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH" ~~CS or PS bearer services; and~~ ~~Streaming traffic class; and~~ ~~DL 32 kbps class or higher; and~~ ~~UL 384 kbps class or higher.~~ ~~See Note 1~~
14.2.22	Streaming / unknown / UL:0 DL:384 kbps / ~~CS or PS~~CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH	C130~~C50~~	UE supporting FDD and reference radio bearer configuration "Streaming / unknown / UL:0 DL:384 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH" ~~CS or PS bearer services; and~~ ~~Streaming traffic class; and~~ ~~DL 2048 kbps class; and~~ ~~UL 32 kbps class or higher.~~ ~~See Note 1~~
14.2.23.1	Interactive or background / UL:32 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH / (TC, 10 ms TTI)	C131~~C89~~	UE supporting FDD and reference radio bearer configuration "Interactive or background / UL:32 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH / (TC, 10 ms TTI)" ~~PS bearer services; and~~ ~~Interactive or background traffic class; and~~ ~~DL 32 kbps class or higher; and~~ ~~UL 32 kbps class or higher; and~~ ~~Turbo encoding; and~~ ~~Turbo decoding.~~ ~~See Note 1~~
14.2.23.2	Interactive or background / UL:32 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH / (TC, 20 ms TTI)	C132~~C89~~	UE supporting FDD and reference radio bearer configuration "Interactive or background / UL:32 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH / (TC, 20 ms TTI)" ~~PS bearer services; and~~ ~~Interactive or background traffic class;~~

			~~and~~ ~~DL 32 kbps class or higher; and~~ ~~UL 32 kbps class or higher; and~~ ~~Turbo encoding; and~~ ~~Turbo decoding.~~ ~~See Note 1~~
14.2.23.3	Interactive or background / UL:32 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH / (CC, 10 ms TTI)	C133~~C51~~	UE supporting FDD and reference radio bearer configuration "Interactive or background / UL:32 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH / (CC, 10 ms TTI)" ~~PS bearer services; and~~ ~~Interactive or background traffic class; and~~ ~~DL 32 kbps class or higher; and~~ ~~UL 32 kbps class or higher.~~ ~~See Note 1~~
14.2.23.4	Interactive or background / UL:32 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH / (CC, 20 ms TTI)	C134~~C51~~	UE supporting FDD and reference radio bearer configuration "Interactive or background / UL:32 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH / (CC, 20 ms TTI)" ~~PS bearer services; and~~ ~~Interactive or background traffic class; and~~ ~~DL 32 kbps class or higher; and~~ ~~UL 32 kbps class or higher.~~ ~~See Note 1~~
14.2.24.1	Interactive or background / UL:64 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH / TC	C135~~C52~~	UE supporting FDD and reference radio bearer configuration "Interactive or background / UL:64 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH / TC" ~~PS bearer services; and~~ ~~Interactive or background traffic class; and~~ ~~DL 32 kbps class or higher; and~~ ~~UL 64 kbps class or higher.~~ ~~See Note 1~~
14.2.24.2	Interactive or background / UL:64 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH / CC	C207	UE supporting FDD and reference radio bearer configuration "Interactive or background / UL:64 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH / CC"
14.2.25.1	Interactive or background / UL:32 DL: 64 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH/ (TC, 10 ms TTI)	C136~~C90~~	UE supporting FDD and reference radio bearer configuration "Interactive or background / UL:32 DL: 64 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH/ (TC, 10 ms TTI)" ~~PS bearer services; and~~ ~~Interactive or background traffic class; and~~ ~~DL 64 kbps class or higher; and~~ ~~UL 32 kbps class or higher; and~~ ~~Turbo encoding; and~~ ~~Turbo decoding.~~ ~~See Note 1~~
14.2.25.2	Interactive or background / UL:32 DL: 64 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH / (TC, 20 ms TTI)	C137~~C90~~	UE supporting FDD and reference radio bearer configuration "Interactive or background / UL:32 DL: 64 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH / (TC, 20 ms TTI)" ~~PS bearer services; and~~ ~~Interactive or background traffic class; and~~ ~~DL 64 kbps class or higher; and~~ ~~UL 32 kbps class or higher; and~~ ~~Turbo encoding; and~~ ~~Turbo decoding.~~

			~~See Note 1~~
14.2.25.3	Interactive or background / UL:32 DL: 64 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH / (CC, 10 ms TTI)	C138~~C53~~	UE supporting FDD and reference radio bearer configuration "Interactive or background / UL:32 DL: 64 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH / (CC, 10 ms TTI)" ~~PS bearer services; and~~ ~~Interactive or background traffic class; and~~ ~~DL 64 kbps class or higher; and~~ ~~UL 32 kbps class or higher; and~~ ~~Turbo decoding.~~ ~~See Note 1~~
14.2.25.4	Interactive or background / UL:32 DL: 64 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH / (CC, 20 ms TTI)	C139~~C53~~	UE supporting FDD and reference radio bearer configuration "Interactive or background / UL:32 DL: 64 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH / (CC, 20 ms TTI)" ~~PS bearer services; and~~ ~~Interactive or background traffic class; and~~ ~~DL 64 kbps class or higher; and~~ ~~UL 32 kbps class or higher; and~~ ~~Turbo decoding.~~ ~~See Note 1~~
14.2.26	Interactive or background / UL:64 DL: 64 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH	C140~~C54~~	UE supporting FDD and reference radio bearer configuration "Interactive or background / UL:64 DL: 64 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH" ~~PS bearer services; and~~ ~~Interactive or background traffic class; and~~ ~~DL 64 kbps class or higher; and~~ ~~UL 64 kbps class or higher.~~ ~~See Note 1~~
14.2.27	Interactive or background / UL:64 DL:128 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH	C141~~C55~~	UE supporting FDD and reference radio bearer configuration "Interactive or background / UL:64 DL:128 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH" ~~PS bearer services; and~~ ~~Interactive or background traffic class; and~~ ~~DL 128 kbps class or higher; and~~ ~~UL 64 kbps class or higher.~~ ~~See Note 1~~
14.2.28	Interactive or background / UL:128 DL:128 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH	C142~~C56~~	UE supporting FDD and reference radio bearer configuration "Interactive or background / UL:128 DL:128 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH" ~~PS bearer services; and~~ ~~Interactive or background traffic class; and~~ ~~DL 128 kbps class or higher; and~~ ~~UL 128 kbps class or higher.~~ ~~See Note 1~~
14.2.29	Interactive or background / UL:64 DL:144 kbps / PS RAB + UL:3.4 DL: 3.4 kbps SRBs for DCCH	C143~~C55~~	UE supporting FDD and reference radio bearer configuration "Interactive or background / UL:64 DL:144 kbps / PS RAB + UL:3.4 DL: 3.4 kbps SRBs for DCCH" ~~PS bearer services; and~~ ~~Interactive or background traffic class; and~~ ~~DL 128 kbps class or higher; and~~ ~~UL 64 kbps class or higher.~~

			~~See Note 1~~
14.2.30	Interactive or background / UL:144 DL:144 kbps / PS RAB + UL:3.4 DL: 3.4 kbps SRBs for DCCH	C144~~C56~~	UE supporting FDD and reference radio bearer configuration "Interactive or background / UL:144 DL:144 kbps / PS RAB + UL:3.4 DL: 3.4 kbps SRBs for DCCH" ~~PS bearer services; and Interactive or background traffic class; and DL 128 kbps class or higher; and UL 128 kbps class or higher.~~ ~~See Note 1~~
14.2.31.1	Interactive or background / UL:64 DL:256 kbps / PS RAB + UL:3.4 DL: 3.4 kbps SRBs for DCCH /10 ms TTI	C145~~C57~~	UE supporting FDD and reference radio bearer configuration "Interactive or background / UL:64 DL:256 kbps / PS RAB + UL:3.4 DL: 3.4 kbps SRBs for DCCH /10 ms TTI" ~~PS bearer services; and Interactive or background traffic class; and DL 384 kbps class or higher; and UL 64 kbps class or higher.~~ ~~See Note 1~~
14.2.31.2	Interactive or background / UL:64 DL:256 kbps / PS RAB + UL:3.4 DL: 3.4 kbps SRBs for DCCH /20 ms TTI	C146~~C57~~	UE supporting FDD and reference radio bearer configuration "Interactive or background / UL:64 DL:256 kbps / PS RAB + UL:3.4 DL: 3.4 kbps SRBs for DCCH /20 ms TTI" ~~PS bearer services; and Interactive or background traffic class; and DL 384 kbps class or higher; and UL 64 kbps class or higher.~~ ~~See Note 1~~
14.2.32.1	Interactive or background / UL:64 DL:384 kbps / PS RAB + UL:3.4 DL: 3.4 kbps SRBs for DCCH / 10 ms TTI	C147~~C57~~	UE supporting FDD and reference radio bearer configuration "Interactive or background / UL:64 DL:384 kbps / PS RAB + UL:3.4 DL: 3.4 kbps SRBs for DCCH / 10 ms TTI" ~~PS bearer services; and Interactive or background traffic class; and DL 384 kbps class or higher; and UL 64 kbps class or higher.~~ ~~See Note 1~~
14.2.32.2	Interactive or background / UL:64 DL:384 kbps / PS RAB + UL:3.4 DL: 3.4 kbps SRBs for DCCH / 20 ms TTI	C148~~C60~~	UE supporting FDD and reference radio bearer configuration "Interactive or background / UL:64 DL:384 kbps / PS RAB + UL:3.4 DL: 3.4 kbps SRBs for DCCH / 20 ms TTI" ~~PS bearer services; and Interactive or background traffic class; and DL 768 kbps class or higher; and UL 64 kbps class or higher.~~ ~~See Note 1~~
14.2.33.1	Interactive or background / UL:128 DL:384 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH / 10 ms TTI	C149~~C58~~	UE supporting FDD and reference radio bearer configuration "Interactive or background / UL:128 DL:384 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH / 10 ms TTI" ~~PS bearer services; and Interactive or background traffic class; and DL 384 kbps class or higher; and UL 128 kbps class or higher.~~ ~~See Note 1~~
14.2.33.2	Interactive or background / UL:128 DL:384 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH	C150~~C61~~	UE supporting FDD and reference radio bearer configuration

	/ 20 ms TTI		"Interactive or background / UL:128 DL:384 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH / 20 ms TTI" ~~PS bearer services; and~~ ~~Interactive or background traffic class; and~~ ~~DL 768 kbps class or higher; and~~ ~~UL 128 kbps class or higher.~~ ~~See Note 1~~
14.2.34.1	Interactive or background / UL:384 DL:384 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH / 10 ms TTI	C151~~C59~~	UEs supporting FDD and reference radio bearer configuration "Interactive or background / UL:384 DL:384 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH / 10 ms TTI" ~~PS bearer services; and~~ ~~Interactive or background traffic class; and~~ ~~DL 384 kbps class or higher; and~~ ~~UL 384 kbps class or higher.~~ ~~See Note 1~~
14.2.34.2	Interactive or background / UL:384 DL:384 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH / 20 ms TTI	C152~~C62~~	UE supporting FDD and reference radio bearer configuration "Interactive or background / UL:384 DL:384 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH / 20 ms TTI" ~~PS bearer services; and~~ ~~Interactive or background traffic class; and~~ ~~DL 768 kbps class or higher; and~~ ~~UL 768 kbps class or higher.~~ ~~See Note 1~~
14.2.35.1	Interactive or background / UL:64 DL:2048 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH / 10 ms TTI	C153~~C63~~	UE supporting FDD and reference radio bearer configuration "Interactive or background / UL:64 DL:2048 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH / 10 ms TTI" ~~PS bearer services; and~~ ~~Interactive or background traffic class; and~~ ~~DL 2048 kbps class; and~~ ~~UL 64 kbps class or higher; and~~ ~~Max UE test loop UL RLC SDU size 65535 bits.~~ ~~See Note 1~~
14.2.35.2	Interactive or background / UL:64 DL:2048 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH / 20 ms TTI	C154~~C63~~	UE supporting FDD and reference radio bearer configuration "Interactive or background / UL:64 DL:2048 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH / 20 ms TTI" ~~PS bearer services; and~~ ~~Interactive or background traffic class; and~~ ~~DL 2048 kbps class; and~~ ~~UL 64 kbps class or higher; and~~ ~~Max UE test loop UL RLC SDU size 65535 bits.~~ ~~See Note 1~~
14.2.36.1	Interactive or background / UL:128 DL:2048 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH / 10 ms TTI	C155~~C64~~	UE supporting FDD and reference radio bearer configuration "Interactive or background / UL:128 DL:2048 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH / 10 ms TTI" ~~PS bearer services; and~~ ~~Interactive or background traffic class; and~~ ~~DL 2048 kbps class; and~~ ~~UL 128 kbps class or higher; and~~

			~~Max UE test loop UL RLC SDU size 65535 bits.~~ ~~See Note 1~~
14.2.36.2	Interactive or background / UL:128 DL:2048 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH / 20 ms TTI	C156~~C64~~	UE supporting FDD and reference radio bearer configuration "Interactive or background / UL:128 DL:2048 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH / 20 ms TTI" ~~PS bearer services; and~~ ~~Interactive or background traffic class; and~~ ~~DL 2048 kbps class; and~~ ~~UL 128 kbps class or higher; and~~ ~~Max UE test loop UL RLC SDU size 65535 bits.~~ ~~See Note 1~~
14.2.37.1	Interactive or background / UL:384 DL:2048 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH / 10 ms TTI	C157~~C65~~	UE supporting FDD and reference radio bearer configuration "Interactive or background / UL:384 DL:2048 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH / 10 ms TTI" ~~PS bearer services; and~~ ~~Interactive or background traffic class; and~~ ~~DL 2048 kbps class; and~~ ~~UL 384 kbps class or higher and~~ ~~Max UE test loop UL RLC SDU size 65535 bits.~~ ~~See Note 1~~
14.2.37.2	Interactive or background / UL:384 DL:2048 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH / 20 ms TTI	C158~~C66~~	UE supporting FDD and reference radio bearer configuration "Interactive or background / UL:384 DL:2048 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH / 20 ms TTI" ~~PS bearer services; and~~ ~~Interactive or background traffic class; and~~ ~~DL 2048 kbps class; and~~ ~~UL 768 kbps class; and~~ ~~Max UE test loop UL RLC SDU size 65535 bits.~~ ~~See Note 1~~
14.2.38.1	Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:32 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH / (TC, 20 ms TTI)	C159~~C91~~	UE supporting FDD and reference radio bearer configuration "Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:32 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH / (TC, 20 ms TTI)" ~~Narrow band speech (AMR); and~~ ~~Simultaneous CS and PS bearer services; and~~ ~~Conversational traffic class; and~~ ~~Interactive or Background traffic class; and~~ ~~DL 64 kbps class or higher; and~~ ~~UL 64 kbps class or higher; and~~ ~~Turbo encoding; and~~ ~~Turbo decoding.~~ ~~See Note 1~~
14.2.38.2	Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:32 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH / (TC, 10 ms TTI)	C160~~C91~~	UE supporting FDD and reference radio bearer configuration "Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:32 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH / (TC, 10 ms TTI)"

			~~Narrow band speech (AMR); and~~ ~~Simultaneous CS and PS bearer services; and~~ ~~Conversational traffic class; and~~ ~~Interactive or Background traffic class; and~~ ~~DL 64 kbps class or higher; and~~ ~~UL 64 kbps class or higher; and~~ ~~Turbo encoding; and~~ ~~Turbo decoding.~~ ~~See Note 1~~
14.2.38.3	Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:32 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH / (CC, 10 ms TTI)	C161~~C67~~	UE supporting FDD and reference radio bearer configuration "Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:32 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH / (CC, 10 ms TTI)" ~~Narrow band speech (AMR); and~~ ~~Simultaneous CS and PS bearer services; and~~ ~~Conversational traffic class; and~~ ~~Interactive or Background traffic class; and~~ ~~DL 64 kbps class or higher; and~~ ~~UL 64 kbps class or higher.~~ ~~See Note 1~~
14.2.38.4	Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:32 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH / (CC, 20 ms TTI)	C162~~C67~~	UE supporting FDD and reference radio bearer configuration "Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:32 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH / (CC, 20 ms TTI)" ~~Narrow band speech (AMR); and~~ ~~Simultaneous CS and PS bearer services; and~~ ~~Conversational traffic class; and~~ ~~Interactive or Background traffic class; and~~ ~~DL 64 kbps class or higher; and~~ ~~UL 64 kbps class or higher.~~ ~~See Note 1~~
14.2.39.1	Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:32 DL:64 kbps / PS RAB+ UL:3.4 DL: 3.4 kbps SRBs for DCCH / (TC, 10 ms TTI)	C163~~C92~~	UE supporting FDD and reference radio bearer configuration "Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:32 DL:64 kbps / PS RAB+ UL:3.4 DL: 3.4 kbps SRBs for DCCH / (TC, 10 ms TTI)" ~~Narrow band speech (AMR); and~~ ~~Simultaneous CS and PS bearer services; and~~ ~~Conversational traffic class; and~~ ~~Interactive or Background traffic class; and~~ ~~DL 64 kbps class or higher; and~~ ~~UL 64 kbps class or higher; and~~ ~~Turbo encoding; and~~ ~~Turbo decoding.~~ ~~See Note 1~~
14.2.39.2	Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:32 DL:64 kbps / PS RAB+ UL:3.4 DL: 3.4 kbps SRBs for DCCH / (TC, 20 ms TTI)	C164~~C92~~	UE supporting FDD and reference radio bearer configuration "Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:32 DL:64 kbps / PS RAB+ UL:3.4 DL: 3.4 kbps SRBs for DCCH / (TC, 20 ms TTI)" ~~Narrow band speech (AMR); and~~ ~~Simultaneous CS and PS bearer services; and~~

			~~Conversational traffic class; and~~ ~~Interactive or Background traffic class; and~~ ~~DL 64 kbps class or higher; and~~ ~~UL 64 kbps class or higher; and~~ ~~Turbo encoding; and~~ ~~Turbo decoding.~~ ~~See Note 1~~
14.2.39.3	Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:32 DL:64 kbps / PS RAB+ UL:3.4 DL: 3.4 kbps SRBs for DCCH / (CC, 10 ms TTI)	C165~~C67~~	UE supporting FDD and reference radio bearer configuration "Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:32 DL:64 kbps / PS RAB+ UL:3.4 DL: 3.4 kbps SRBs for DCCH / (CC, 10 ms TTI)" ~~Narrow band speech (AMR); and~~ ~~Simultaneous CS and PS bearer services; and~~ ~~Conversational traffic class; and~~ ~~Interactive or Background traffic class; and~~ ~~DL 64 kbps class or higher; and~~ ~~UL 64 kbps class or higher; and~~ ~~Turbo decoding.~~ ~~See Note 1~~
14.2.39.4	Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:32 DL:64 kbps / PS RAB+ UL:3.4 DL: 3.4 kbps SRBs for DCCH / (CC, 20 ms TTI)	C166~~C67~~	UE supporting FDD and reference radio bearer configuration "Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:32 DL:64 kbps / PS RAB+ UL:3.4 DL: 3.4 kbps SRBs for DCCH / (CC, 20 ms TTI)" ~~Narrow band speech (AMR); and~~ ~~Simultaneous CS and PS bearer services; and~~ ~~Conversational traffic class; and~~ ~~Interactive or Background traffic class; and~~ ~~DL 64 kbps class or higher; and~~ ~~UL 64 kbps class or higher; and~~ ~~Turbo decoding.~~ ~~See Note 1~~
14.2.40	Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:64 DL:64 kbps / PS RAB+ UL:3.4 DL: 3.4 kbps SRBs for DCCH	C167~~C67~~	UE supporting FDD and reference radio bearer configuration "Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:64 DL:64 kbps / PS RAB+ UL:3.4 DL: 3.4 kbps SRBs for DCCH" ~~Narrow band speech (AMR); and~~ ~~Simultaneous CS and PS bearer services; and~~ ~~Conversational traffic class; and~~ ~~Interactive or Background traffic class; and~~ ~~DL 64 kbps class or higher; and~~ ~~UL 64 kbps class or higher.~~ ~~See Note 1~~
14.2.41	Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:64 DL:128 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH	C168~~C68~~	UE supporting FDD and reference radio bearer configuration "Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:64 DL:128 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH" ~~Narrow band speech (AMR); and~~ ~~Simultaneous CS and PS bearer services; and~~ ~~Conversational traffic class; and~~ ~~Interactive or Background traffic class; and~~

			~~DL 128 kbps class or higher; and~~ ~~UL 64 kbps class or higher.~~ ~~See Note 1~~
14.2.42.1	Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:64 DL:256 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH / 10 ms TTI	C168~~C69~~	UE supporting FDD and reference radio bearer configuration "Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:64 DL:256 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH / 10 ms TTI" ~~Narrow band speech (AMR); and~~ ~~Simultaneous CS and PS bearer services; and~~ ~~Conversational traffic class; and~~ ~~Interactive or Background traffic class; and~~ ~~DL 384 kbps class or higher; and~~ ~~UL 64 kbps class or higher.~~ ~~See Note 1~~
14.2.42.2	Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:64 DL:256 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH / 20 ms TTI	C170	UE supporting FDD and reference radio bearer configuration "Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:64 DL:256 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH / 20 ms TTI"
14.2.43.1	Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:64 DL:384 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH / 10 ms TTI	C171~~C69~~	UE supporting FDD and reference radio bearer configuration "Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:64 DL:384 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH / 10 ms TTI" ~~Narrow band speech (AMR); and~~ ~~Simultaneous CS and PS bearer services; and~~ ~~Conversational traffic class; and~~ ~~Interactive or Background traffic class; and~~ ~~DL 384 kbps class or higher; and~~ ~~UL 64 kbps class or higher.~~ ~~See Note 1~~
14.2.43.2	Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:64 DL:384 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH / 20 ms TTI	C172~~C70~~	UE supporting FDD and reference radio bearer configuration "Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:64 DL:384 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH / 20 ms TTI" ~~Narrow band speech (AMR); and~~ ~~Simultaneous CS and PS bearer services; and~~ ~~Conversational traffic class; and~~ ~~Interactive or Background traffic class; and~~ ~~DL 768 kbps class or higher; and~~ ~~UL 64 kbps class or higher.~~ ~~See Note 1~~
14.2.44.1	Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:128 DL:2048 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH / 10 ms TTI	C173~~C71~~	UE supporting FDD and reference radio bearer configuration "Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:128 DL:2048 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH / 10 ms TTI" ~~Narrow band speech (AMR); and~~ ~~Simultaneous CS and PS bearer services; and~~ ~~Conversational traffic class; and~~ ~~Interactive or Background traffic class; and~~

			~~DL 2048 kbps class; and~~ ~~UL 128 kbps class or higher; and~~ ~~Max UE test loop UL RLC SDU size 65535 bits.~~ ~~See Note 1~~
14.2.44.2	Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:128 DL:2048 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH / 20 ms TTI	C174~~C71~~	UE supporting FDD and reference radio bearer configuration "Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:128 DL:2048 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH / 20 ms TTI" ~~Narrow band speech (AMR); and~~ ~~Simultaneous CS and PS bearer services; and~~ ~~Conversational traffic class; and~~ ~~Interactive or Background traffic class; and~~ ~~DL 2048 kbps class; and~~ ~~UL 128 kbps class or higher; and~~ ~~Max UE test loop UL RLC SDU size 65535 bits.~~ ~~See Note 1~~
14.2.45	Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Streaming / unknown / UL:57.6 DL:57.6 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH	C175~~C72~~	UE supporting FDD and reference radio bearer configuration "Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Streaming / unknown / UL:57.6 DL:57.6 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH" ~~Multicall (2xCS); and~~ ~~Narrow band speech (AMR); and~~ ~~CS bearer service; and~~ ~~Conversational traffic class; and~~ ~~Streaming traffic class; and~~ ~~DL 64 kbps class or higher; and~~ ~~UL 64 kbps class or higher; and~~ ~~Turbo decoding.~~ ~~See Note 1~~
14.2.46	Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Streaming / unknown / UL:0 DL:64 kbps / ~~CS or PS~~CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH	C176~~C73~~	UE supporting FDD and reference radio bearer configuration "Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Streaming / unknown / UL:0 DL:64 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH" ~~Narrow band speech (AMR); and~~ ~~CS bearer service; and~~ ~~Multicall (2xCS) or Simultaneous CS and PS bearer services; and~~ ~~Conversational traffic class; and~~ ~~Streaming traffic class; and~~ ~~DL 64 kbps class or higher; and~~ ~~UL 32 kbps class or higher; and~~ ~~Turbo decoding.~~ ~~See Note 1~~
14.2.47	Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Streaming / unknown / UL:0 DL:128 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH	C177~~C74~~	UE supporting FDD and reference radio bearer configuration "Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Streaming / unknown / UL:0 DL:128 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH" ~~Narrow band speech (AMR); and~~ ~~CS bearer service; and~~ ~~Multicall (2xCS); and~~ ~~Conversational traffic class; and~~ ~~Streaming traffic class; and~~ ~~DL 128 kbps class or higher; and~~ ~~UL 32 kbps class or higher; and~~ ~~Turbo decoding.~~ See Note 1

14.2.48	Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Streaming / unknown / UL:0 DL:384 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH	C178~~C75~~	UE supporting FDD and reference radio bearer configuration "Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Streaming / unknown / UL:0 DL:384 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH" ~~Narrow band speech (AMR); and CS bearer service; and Multicall (2xCS); and Conversational traffic class; and Streaming traffic class; and DL 2048 kbps class; and UL 32 kbps class or higher; and Turbo decoding.~~ ~~See Note 1~~
14.2.49.1	Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Conversational / unknown / UL:64 DL:64 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH / 20 ms TTI	C179~~C76~~	UE supporting FDD and reference radio bearer configuration "Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Conversational / unknown / UL:64 DL:64 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH / 20 ms TTI" ~~Multicall (2xCS); and Narrow band speech (AMR); and CS bearer services; and Conversational traffic class; and DL 64 kbps class or higher; and UL 64 kbps class or higher; and Turbo decoding.~~ ~~See Note 1~~
14.2.49.2	Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Conversational / unknown / UL:64 DL:64 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH / 40 ms TTI	C180~~C76~~	UE supporting FDD and reference radio bearer configuration "Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Conversational / unknown / UL:64 DL:64 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH / 40 ms TTI" ~~Multicall (2xCS); and Narrow band speech (AMR); and CS bearer services; and Conversational traffic class; and DL 64 kbps class or higher; and UL 64 kbps class or higher; and Turbo decoding.~~ ~~See Note 1~~
14.2.50.1	Conversational / unknown / UL:64 DL:64 kbps / CS RAB + Conversational / unknown / UL:64 DL:64 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH / 20 ms TTI	C181~~C77~~	UE supporting FDD and reference radio bearer configuration "Conversational / unknown / UL:64 DL:64 kbps / CS RAB + Conversational / unknown / UL:64 DL:64 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH / 20 ms TTI" ~~Multicall (2xCS); and CS bearer service; and Conversational traffic class; and DL 384 kbps class or higher; and UL 384 kbps class or higher; and Turbo decoding.~~ ~~See Note 1~~
14.2.50.2	Conversational / unknown / UL:64 DL:64 kbps / CS RAB + Conversational / unknown / UL:64 DL:64 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH / 40 ms TTI	C182~~C77~~	UE supporting FDD and reference radio bearer configuration "Conversational / unknown / UL:64 DL:64 kbps / CS RAB + Conversational / unknown / UL:64 DL:64 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH / 40 ms TTI" ~~Multicall (2xCS); and CS bearer service; and Conversational traffic class; and DL 384 kbps class or higher; and UL 384 kbps class or higher; and~~

			~~Turbo decoding.~~ ~~See Note 1~~
14.2.51.1	Conversational / unknown / UL:64 DL:64 kbps / CS RAB / 20 ms TTI + Interactive or background / UL:64 DL:64 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH	C183~~C78~~	UE supporting FDD and reference radio bearer configuration "Conversational / unknown / UL:64 DL:64 kbps / CS RAB / 20 ms TTI + Interactive or background / UL:64 DL:64 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH" ~~Simultaneous CS and PS bearer services; and~~ ~~Conversational traffic class; and~~ ~~Interactive or Background traffic class; and~~ ~~DL 384 kbps class or higher; and~~ ~~UL 384 kbps class or higher; and~~ ~~Turbo decoding.~~ ~~See Note 1~~
14.2.51.2	Conversational / unknown / UL:64 DL:64 kbps / CS RAB / 40 ms TTI + Interactive or background / UL:64 DL:64 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH	C184~~C78~~	UE supporting FDD and reference radio bearer configuration "Conversational / unknown / UL:64 DL:64 kbps / CS RAB / 40 ms TTI + Interactive or background / UL:64 DL:64 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH" ~~Simultaneous CS and PS bearer services; and~~ ~~Conversational traffic class; and~~ ~~Interactive or Background traffic class; and~~ ~~DL 384 kbps class or higher; and~~ ~~UL 384 kbps class or higher; and~~ ~~Turbo decoding.~~ ~~See Note 1~~
14.2.52.1	Conversational / unknown / UL:64 DL:64 kbps / CS RAB / 20 ms TTI + Interactive or background / UL:64 DL:128 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH	C185~~C78~~	UE supporting FDD and reference radio bearer configuration "Conversational / unknown / UL:64 DL:64 kbps / CS RAB / 20 ms TTI + Interactive or background / UL:64 DL:128 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH" ~~Simultaneous CS and PS bearer services; and~~ ~~Conversational traffic class; and~~ ~~Interactive or Background traffic class; and~~ ~~DL 384 kbps class or higher; and~~ ~~UL 384 kbps class or higher; and~~ ~~Turbo decoding.~~ ~~See Note 1~~
14.2.52.2	Conversational / unknown / UL:64 DL:64 kbps / CS RAB / 40 ms TTI + Interactive or background / UL:64 DL:128 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH	C186~~C78~~	UE supporting FDD and reference radio bearer configuration "Conversational / unknown / UL:64 DL:64 kbps / CS RAB / 40 ms TTI + Interactive or background / UL:64 DL:128 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH" ~~Simultaneous CS and PS bearer services; and~~ ~~Conversational traffic class; and~~ ~~Interactive or Background traffic class; and~~ ~~DL 384 kbps class or higher; and~~ ~~UL 384 kbps class or higher; and~~ ~~Turbo decoding.~~ ~~See Note 1~~
14.2.53.1	Conversational / unknown / UL:64 DL:64 kbps / CS RAB / 20 ms TTI + Interactive or background / UL:128 DL:128 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH	C187~~C78~~	UE supporting FDD and reference radio bearer configuration "Conversational / unknown / UL:64 DL:64 kbps / CS RAB / 20 ms TTI +

			Interactive or background / UL:128 DL:128 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH" ~~Simultaneous CS and PS bearer services; and~~ ~~Conversational traffic class; and~~ ~~Interactive or Background traffic class; and~~ ~~DL 384 kbps class or higher; and~~ ~~UL 384 kbps class or higher; and~~ ~~Turbo decoding.~~ ~~See Note 1~~
14.2.53.2	Conversational / unknown / UL:64 DL:64 kbps / CS RAB / 40 ms TTI + Interactive or background / UL:128 DL:128 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH	C188~~C78~~	UE supporting FDD and reference radio bearer configuration "Conversational / unknown / UL:64 DL:64 kbps / CS RAB / 40 ms TTI + Interactive or background / UL:128 DL:128 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH" ~~Simultaneous CS and PS bearer services; and~~ ~~Conversational traffic class; and~~ ~~Interactive or Background traffic class; and~~ ~~DL 384 kbps class or higher; and~~ ~~UL 384 kbps class or higher; and~~ ~~Turbo decoding.~~ ~~See Note 1~~
14.2.54	Interactive or background / UL:64 DL:128 kbps / PS RAB + Streaming / unknown / UL:0 DL:64 kbps / ~~CS or PS~~CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH	C189~~C79~~	UE supporting FDD and reference radio bearer configuration "Interactive or background / UL:64 DL:128 kbps / PS RAB + Streaming / unknown / UL:0 DL:64 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH" ~~PS bearer services; and~~ ~~Streaming traffic class; and~~ ~~Interactive or Background traffic class; and~~ ~~DL 384 kbps class or higher; and~~ ~~UL 64 kbps class or higher; and~~ ~~Turbo decoding.~~ ~~See Note 1~~
14.2.55	Interactive or background / UL:64 DL:128 kbps / PS RAB + Streaming / unknown / UL:0 DL:128 kbps / ~~CS or PS~~CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH	C190~~C80~~	UE supporting FDD and reference radio bearer configuration "Interactive or background / UL:64 DL:128 kbps / PS RAB + Streaming / unknown / UL:0 DL:128 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH" ~~PS bearer services; and~~ ~~Streaming traffic class; and~~ ~~Interactive or Background traffic class; and~~ ~~DL 768 kbps class or higher; and~~ ~~UL 64 kbps class or higher; and~~ ~~Turbo decoding.~~ ~~See Note 1~~
	Combinations on PDSCH and DPCH		
14.3.1.1	Interactive or background / UL:64 DL:256 kbps / PS RAB / 10 ms TTI + UL:3.4 DL: 3.4 kbps SRBs for DCCH	C191~~C81~~	UE supporting FDD and reference radio bearer configuration "Interactive or background / UL:64 DL:256 kbps / PS RAB / 10 ms TTI + UL:3.4 DL: 3.4 kbps SRBs for DCCH" ~~PS bearer services; and~~ ~~Interactive or Background traffic class; and~~ ~~DL 768 kbps class or higher; and~~ ~~UL 64 kbps class or higher; and~~ ~~PDSCH; and~~ ~~Turbo decoding.~~ ~~Alternatively to DL 768 kbps class the~~

			~~test case may be applicable to DL 384 kbps class.~~ ~~See Note 1~~
14.3.1.2	Interactive or background / UL:64 DL:256 kbps / PS RAB / 20 ms TTI + UL:3.4 DL: 3.4 kbps SRBs for DCCH	C192~~C81~~	UE supporting FDD and reference radio bearer configuration "Interactive or background / UL:64 DL:256 kbps / PS RAB / 20 ms TTI + UL:3.4 DL: 3.4 kbps SRBs for DCCH" ~~PS bearer services; and~~ ~~Interactive or Background traffic class; and~~ ~~DL 768 kbps class or higher; and~~ ~~UL 64 kbps class or higher; and~~ ~~PDSCH; and~~ ~~Turbo decoding.~~ ~~Alternatively to DL 768 kbps class the test case may be applicable to DL 384 kbps class.~~ ~~See Note 1~~
14.3.2.1	Interactive or background / UL:64 DL:384 kbps / PS RAB / 10 ms TTI + UL:3.4 DL: 3.4 kbps SRBs for DCCH	C193~~C81~~	UE supporting FDD and reference radio bearer configuration "Interactive or background / UL:64 DL:384 kbps / PS RAB / 10 ms TTI + UL:3.4 DL: 3.4 kbps SRBs for DCCH" ~~PS bearer services; and~~ ~~Interactive or Background traffic class; and~~ ~~DL 768 kbps class or higher; and~~ ~~UL 64 kbps class or higher; and~~ ~~PDSCH; and~~ ~~Turbo decoding.~~ ~~Alternatively to DL 768 kbps class the test case may be applicable to DL 384 kbps class.~~ ~~See Note 1~~
14.3.2.2	Interactive or background / UL:64 DL:384 kbps / PS RAB / 20 ms TTI + UL:3.4 DL: 3.4 kbps SRBs for DCCH	C194~~C81~~	UE supporting FDD and reference radio bearer configuration "Interactive or background / UL:64 DL:384 kbps / PS RAB / 20 ms TTI + UL:3.4 DL: 3.4 kbps SRBs for DCCH" ~~PS bearer services; and~~ ~~Interactive or Background traffic class; and~~ ~~DL 768 kbps class or higher; and~~ ~~UL 64 kbps class or higher; and~~ ~~PDSCH; and~~ ~~Turbo decoding.~~ ~~Alternatively to DL 768 kbps class the test case may be applicable to DL 384 kbps class.~~ ~~See Note 1~~
14.3.3.1	Interactive or background / UL:64 DL:2048 kbps / PS RAB / 10 ms TTI + UL:3.4 DL: 3.4 kbps SRBs for DCCH	C195~~C87~~	UE supporting FDD and reference radio bearer configuration "Interactive or background / UL:64 DL:2048 kbps / PS RAB / 10 ms TTI + UL:3.4 DL: 3.4 kbps SRBs for DCCH" ~~PS bearer services; and~~ ~~Interactive or Background traffic class; and~~ ~~DL 2048 kbps class; and~~ ~~UL 64 kbps class or higher; and~~ ~~PDSCH; and~~ ~~Turbo decoding; and~~ ~~UE test loop UL RLC SDU size upto 65535 bits.~~ ~~See Note 1~~
14.3.3.2	Interactive or background / UL:64 DL:2048 kbps	C196~~C87~~	UE supporting FDD and reference radio

	/ PS RAB / 20 ms TTI + UL:3.4 DL: 3.4 kbps SRBs for DCCH		bearer configuration "Interactive or background / UL:64 DL:2048 kbps / PS RAB / 20 ms TTI + UL:3.4 DL: 3.4 kbps SRBs for DCCH" ~~PS bearer services; and~~ ~~Interactive or Background traffic class; and~~ ~~DL 2048 kbps class; and~~ ~~UL 64 kbps class or higher; and~~ ~~PDSCH; and~~ ~~Turbo decoding.~~ ~~See Note 1~~
14.3.4.1	Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:64 DL:256 kbps / PS RAB / 10 ms TTI + UL:3.4 DL:3.4 kbps SRBs for DCCH	C197~~C82~~	UE supporting FDD and reference radio bearer configuration "Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:64 DL:256 kbps / PS RAB / 10 ms TTI + UL:3.4 DL:3.4 kbps SRBs for DCCH" ~~Narrow band speech (AMR); and~~ ~~Simultaneous CS and PS bearer services; and~~ ~~Conversational traffic class; and~~ ~~Interactive or Background traffic class; and~~ ~~DL 768 kbps class or higher; and~~ ~~UL 64 kbps class or higher; and~~ ~~PDSCH; and~~ ~~Turbo decoding.~~ ~~Alternatively to DL 768 kbps class the test case may be applicable to DL 384 kbps class.~~ ~~See Note 1~~
14.3.4.2	Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:64 DL:256 kbps / PS RAB / 20 ms TTI + UL:3.4 DL:3.4 kbps SRBs for DCCH	C198	UE supporting FDD and reference radio bearer configuration "Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:64 DL:256 kbps / PS RAB / 20 ms TTI + UL:3.4 DL:3.4 kbps SRBs for DCCH"
14.3.5.1	Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:64 DL:384 kbps / PS RAB / 10 ms TTI + UL:3.4 DL:3.4 kbps SRBs for DCCH	C199~~C82~~	UE supporting FDD and reference radio bearer configuration "Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:64 DL:384 kbps / PS RAB / 10 ms TTI + UL:3.4 DL:3.4 kbps SRBs for DCCH" ~~Narrow band speech (AMR); and~~ ~~Simultaneous CS and PS bearer services; and~~ ~~Conversational traffic class; and~~ ~~Interactive or Background traffic class; and~~ ~~DL 768 kbps class or higher; and~~ ~~UL 64 kbps class or higher; and~~ ~~PDSCH; and~~ ~~Turbo decoding.~~ ~~Alternatively to DL 768 kbps class the test case may be applicable to DL 384 kbps class.~~ ~~See Note 1~~
14.3.5.2	Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:64 DL:384 kbps / PS RAB / 20 ms TTI + UL:3.4 DL:3.4 kbps SRBs for DCCH	C200	UE supporting FDD and reference radio bearer configuration "Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:64 DL:384 kbps / PS RAB / 20 ms TTI + UL:3.4 DL:3.4 kbps SRBs for DCCH"

14.3.6.1	Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:64 DL:2048 kbps / PS RAB / 10 ms TTI + UL:3.4 DL:3.4 kbps SRBs for DCCH	C201C83	UE supporting FDD and reference radio bearer configuration "Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:64 DL:2048 kbps / PS RAB / 10 ms TTI + UL:3.4 DL:3.4 kbps SRBs for DCCH" ~~Narrow band speech (AMR); and Simultaneous CS and PS bearer services; and Conversational traffic class; and Interactive or Background traffic class; and DL 2048 kbps class; and UL 64 kbps class or higher; and PDSCH; and Turbo decoding; and Max UE test loop UL RLC SDU size 65535 bits.~~ ~~See Note 1~~
14.3.6.2	Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:64 DL:2048 kbps / PS RAB / 20 ms TTI + UL:3.4 DL:3.4 kbps SRBs for DCCH	C202	UE supporting FDD and reference radio bearer configuration "Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:64 DL:2048 kbps / PS RAB / 20 ms TTI + UL:3.4 DL:3.4 kbps SRBs for DCCH"
	Combinations on SCCPCH		
14.4.1	Stand-alone signalling RB for PCCH	C203C84	UE supporting FDD and reference radio bearer configuration "Stand-alone signalling RB for PCCH" ~~DL 32 kbps class or higher.~~ See Note 1
14.4.2	Interactive/Background 32 kbps PS RAB + SRBs for CCCH + SRB for DCCH + SRB for BCCH	C204C85	UE supporting FDD and reference radio bearer configuration "Interactive/Background 32 kbps PS RAB + SRBs for CCCH + SRB for DCCH + SRB for BCCH" ~~PS bearer services; and Interactive or Background traffic class; and DL 32 kbps class or higher; and Turbo decoding.~~ ~~See Note 1~~
14.4.3	Interactive/Background 32 kbps RAB + SRBs for PCCH + SRB for CCCH + SRB for DCCH + SRB for BCCH	C205C85	UE supporting FDD and reference radio bearer configuration "Interactive/Background 32 kbps RAB + SRBs for PCCH + SRB for CCCH + SRB for DCCH + SRB for BCCH" ~~PS bearer services; and Interactive or Background traffic class; and DL 32 kbps class or higher; and Turbo decoding.~~ ~~See Note 1~~
	Combinations on PRACH		
14.5.1	Interactive/Background 32 kbps PS RAB + SRB for CCCH + SRB for DCCH	C206C86	UE supporting FDD and reference radio bearer configuration "Interactive/Background 32 kbps PS RAB + SRB for CCCH + SRB for DCCH" ~~PS bearer services; and Interactive or Background traffic class; and UL 32 kbps class or higher; and Turbo decoding.~~ ~~See Note 1~~
SMS			

16.1.1	SMS on CS mode / SMS mobile terminated	C18	UE capable of receiving Short Message at any time on CS mode.
16.1.2	SMS on CS mode / SMS mobile originated	C20	UE capable of submitting Short Message at any time on CS mode.
16.1.3	SMS on CS mode / Test of memory full condition and memory available notification	C21	UE capable of sending the correct acknowledgement of memory full condition on CS mode.
16.1.4	SMS on CS mode / Test of the status report capabilities and of SMS-COMMAND	C22	UEs supporting the status report capabilities on CS mode.
16.1.5.1	SMS on CS mode / Short message class 0	C23	UE capable of displaying short messages on CS mode
16.1.5.2	SMS on CS mode / Test of class 1 short messages	C24	UE capable of displaying short messages and storing of received Class 1 Short Messages on CS mode
16.1.5.3	SMS on CS mode / Test of class 2 short messages	C25	UE capable of displaying short messages and storing of received Class 2 Short Messages in the SIM on CS mode.
16.1.5.4	SMS on CS mode / Test of class 3 short messages	[FFS]	[FFS]
16.1.6	SMS on CS mode / Test of short message type 0 (???)	[FFS]	[FFS}
16.1.7	SMS on CS mode / Test of the replace mechanism for SM type 1-7	C33	UEs which support Replace Short Messages and display of received Short Messages on CS mode.
16.1.8	SMS on CS mode / Test of the reply path scheme	C34	UEs which support reply procedures (the class of UEs for which this is mandatory is described in TS 23.040, annex 4) displaying of received Short Messages and submitting Short Messages on CS mode.
16.1.9.1	SMS on CS mode / Multiple SMS mobile originated / UE in idle mode	C35	UE supporting the ability of sending multiple short messages on the same RR connection when there is no call in progress on CS mode.
16.1.9.2	SMS on CS mode / Multiple SMS mobile originated / UE in active mode	C36	UE supporting the ability of sending concatenated multiple short messages when there is a call in progress on CS mode.
16.1.10	SMS on CS mode / Test of capabilities of simultaneously receiving a short message whilst sending a mobile originated short message	C101	UE capable of receiving Short Message whilst sending Short Message on CS mode.
16.2.1	SMS on PS mode / SMS mobile terminated	C26	UE capable of receiving Short Message at any time on PS mode.
16.2.2	SMS on PS mode / SMS mobile originated	C27	UE capable of submitting Short Message at any time on PS mode.
16.2.3	SMS on PS mode / Test of memory full condition and memory available notification	C28	UE capable of sending the correct acknowledgement of memory full condition in PS mode.
16.2.4	SMS on PS mode / Test of the status report capabilities and of SMS-COMMAND	C29	UEs supporting the status report capabilities in PS mode.
16.2.5.1	Short message class 0	C30	UE capable of displaying short messages in PS mode
16.2.5.2	SMS on PS mode / Test of class 1 short messages	C31	UE capable of displaying short messages and storing of received Class 1 Short Messages in PS mode
16.2.5.3	SMS on PS mode / Test of class 2 short messages	C32	UE capable of displaying short messages and storing of received Class 2 Short Messages in the SIM in PS mode.
16.2.5.4	SMS on PS mode / Test of class 3 short messages	[FFS]	[FFS]
16.2.6	SMS on PS mode / Test of short message type 0 (???)	[FFS]	[FFS]
16.2.7	SMS on PS mode / Test of the replace mechanism for SM type 1-7	C37	UEs which support Replace Short Messages and display of received Short Messages in PS mode.
16.2.8	SMS on PS mode / Test of the reply path scheme	C38	UEs which support reply procedures (the class of UEs for which this is mandatory is described in TS 23.040, annex 4) displaying of received Short Messages and submitting Short Messages in PS mode.

16.2.10	SMS on PS mode / Test of capabilities of simultaneously receiving a short message whilst sending a mobile originated short message	C102	UE capable of receiving Short Message whilst sending Short Message on PS mode.
16.3	Short message service cell broadcast	R	All UEs.
USER EQUIPMENT FEATURES			
17.1.2	Constraining the access to a single number	C93	All UEs supporting autocalling
17.1.3	Constraining the access to a single number	C93	All UEs supporting autocalling
17.1.4	Behaviour of the MS when its list of blacklisted numbers is full	C94	UEs that are capable of autocalling more than M B-party numbers.

C01 IF A.1/1 OR A.1/3 OR A.1/4 OR A.1/6 THEN R ELSE N/A
C02 IF A.1/2 OR A.1/3 OR A.1/5 OR A.1/6 THEN R ELSE N/A
C03 IF A.1/3 OR A.1/6 THEN R ELSE N/A
C04 IF (A.1/1 OR A.1/3 OR A.1/4 OR A.1/6) AND A.2/2 THEN R ELSE N/A
C05 IF A.1/4 OR A.1/6 THEN R ELSE N/A
C06 IF (A.1/1 OR A.1/3 OR A.1/4 OR A.1/6) AND A.3/2 THEN R ELSE N/A
C07 IF (A.1/1 OR A.1/3 OR A.1/4 OR A.1/6) AND A.20/27 THEN R ELSE N/A
C08 IF (A.1/1 OR A.1/3 OR A.1/4 OR A.1/6) AND A.20/28 THEN R ELSE N/A
C09 IF (A.1/1 OR A.1/3 OR A.1/4 OR A.1/6) AND NOT A.20/3 THEN R ELSE N/A
C10 IF A.20/4 THEN R ELSE N/A
C11 IF A.20/5 THEN R ELSE N/A
C12 IF A.3/2 THEN R ELSE N/A
C13 IF A.2/1 OR A.2/2 OR A.10/2 THEN R ELSE N/A
C14 IF A.20/4 OR A.20/5 THEN R ELSE N/A
C15 IF A.10/2 THEN R ELSE N/A
C16 IF A.20/1 THEN R ELSE N/A
C17 IF A.3/3 AND A.20/7 THEN R ELSE N/A
C18 IF A.2/3 THEN R ELSE N/A
C19 IF A.1/1 THEN R ELSE N/A
C20 IF A.2/4 THEN R ELSE N/A
C21 IF A.20/8 AND A.3/1 THEN R ELSE N/A
C22 IF A.20/9 AND A.3/1 THEN R ELSE N/A
C23 IF A.3/1 THEN R ELSE N/A
C24 IF A.20/11 AND A.3/1 THEN R ELSE N/A
C25 IF A.20/12 AND A.3/1 THEN R ELSE N/A
C26 IF A.2/5 THEN R ELSE N/A
C27 IF A.2/6 THEN R ELSE N/A
C28 IF A.20/8 AND A.3/2 THEN R ELSE N/A
C29 IF A.20/9 AND A.3/2 THEN R ELSE N/A
C30 A.3/2 THEN R ELSE N/A
C31 IF A.20/11 AND A.3/2 THEN R ELSE N/A
C32 IF A.20/12 AND A.3/2 THEN R ELSE N/A
C33 IF A.20/13 AND A.3/1 THEN R ELSE N/A
C34 IF A.20/14 AND A.2/4 AND A.3/1 THEN R ELSE N/A
C35 IF A.20/15 AND A.3/1 THEN R ELSE N/A
C36 IF A.20/16 AND A.3/1 THEN R ELSE N/A
C37 IF A.20/13 AND A.3/2 THEN R ELSE N/A
C38 IF A.20/14 AND A.2/6 THEN R ELSE N/A
C39 IF A.20/15 AND A.3/2 THEN R ELSE N/A
C40 IF A.20/16 AND A.3/2 THEN R ELSE N/A
C41 IF (NOT A.20/17) AND (NOT A.20/6) AND A.20/5 THEN R ELSE N/A
~~C42 IF A.17/1 AND A.18/1 AND A.18b/3 THEN R ELSE N/A~~
~~C43 IF A.2/1 AND A.3/1 AND A.6/1 AND A.17/1 AND A.18/1 THEN R ELSE N/A~~
~~C44 IF A.3/1 AND A.6/1 AND A.17/2 AND A.18/2 THEN R ELSE N/A~~
~~C45 IF A.3/1 AND A.6/2 AND A.17/2 AND A.18/2 THEN R ELSE N/A~~
~~C46 IF (A.3/1 OR A.3/2) AND A.6/2 AND A.17/2 AND A.18/1 THEN R ELSE N/A~~
~~C47 IF (A.3/1 OR A.3/2) AND A.6/2 AND A.17/1 AND A.18/2 THEN R ELSE N/A~~
~~C48 IF (A.3/1 OR A.3/2) AND A.6/2 AND A.17/4 AND A.18/1 THEN R ELSE N/A~~
~~C49 IF (A.3/1 OR A.3/2) AND A.6/2 AND A.17/1 AND A.18/4 THEN R ELSE N/A~~
~~C50 IF (A.3/1 OR A.3/2) AND A.6/2 AND A.17/6 AND A.18/1 THEN R ELSE N/A~~
~~C51 IF A.3/2 AND (A.6/3 OR A.6/4) AND A.17/1 AND A.18/1 THEN R ELSE N/A~~
~~C52 IF A.3/2 AND (A.6/3 OR A.6/4) AND A.17/1 AND A.18/2 THEN R ELSE N/A~~
~~C53 IF A.3/2 AND (A.6/3 OR A.6/4) AND A.17/2 AND A.18/1 AND A.18b/1 THEN R ELSE N/A~~
~~C54 IF A.3/2 AND (A.6/3 OR A.6/4) AND A.17/2 AND A.18/2 THEN R ELSE N/A~~
~~C55 IF A.3/2 AND (A.6/3 OR A.6/4) AND A.17/3 AND A.18/2 THEN R ELSE N/A~~
~~C56 IF A.3/2 AND (A.6/3 OR A.6/4) AND A.17/3 AND A.18/3 THEN R ELSE N/A~~
~~C57 IF A.3/2 AND (A.6/3 OR A.6/4) AND A.17/4 AND A.18/2 THEN R ELSE N/A~~
~~C58 IF A.3/2 AND (A.6/3 OR A.6/4) AND A.17/4 AND A.18/3 THEN R ELSE N/A~~
~~C59 IF A.3/2 AND (A.6/3 OR A.6/4) AND A.17/4 AND A.18/4 THEN R ELSE N/A~~
~~C60 IF A.3/2 AND (A.6/3 OR A.6/4) AND A.17/5 AND A.18/2 THEN R ELSE N/A~~
~~C61 IF A.3/2 AND (A.6/3 OR A.6/4) AND A.17/5 AND A.18/3 THEN R ELSE N/A~~
~~C62 IF A.3/2 AND (A.6/3 OR A.6/4) AND A.17/5 AND A.18/5 THEN R ELSE N/A~~
~~C63 IF A.3/2 AND (A.6/3 OR A.6/4) AND A.17/6 AND A.18/2 AND A.13/2 THEN R ELSE N/A~~
~~C64 IF A.3/2 AND (A.6/3 OR A.6/4) AND A.17/6 AND A.18/3 AND A.13/2 THEN R ELSE N/A~~
~~C65 IF A.3/2 AND (A.6/3 OR A.6/4) AND A.17/6 AND A.18/4 AND A.13/2 THEN R ELSE N/A~~
~~C66 IF A.3/2 AND (A.6/3 OR A.6/4) AND A.17/6 AND A.18/5 AND A.13/2 THEN R ELSE N/A~~
~~C67 IF A.2/1 AND A.3/3 AND A.6/1 AND (A.6/3 OR A.6/4) AND A.17/2 AND A.18/2 AND A.18b/1 THEN R ELSE N/A~~
~~C68 IF A.2/1 AND A.3/3 AND A.6/1 AND (A.6/3 OR A.6/4) AND A.17/3 AND A.18/2 THEN R ELSE N/A~~

~~C69 IF A.2/1 AND A.3/3 AND A.6/1 AND (A.6/3 OR A.6/4) AND A.17/4 AND A.18/2 THEN R ELSE N/A~~
~~C70 IF A.2/1 AND A.3/3 AND A.6/1 AND (A.6/3 OR A.6/4) AND A.17/5 AND A.18/2 THEN R ELSE N/A~~
~~C71 IF A.2/1 AND A.3/3 AND A.6/1 AND (A.6/3 OR A.6/4) AND A.17/6 AND A.18/3 AND A.13/2 THEN R ELSE N/A~~
~~C72 IF A.7/28 AND A.2/1 AND A.3/1 AND A.6/1 AND A.6/2 AND A.17/2 AND A.18/2 THEN R ELSE N/A~~
~~C73 IF A.2/1 AND ((A.3/1 AND A.7/28) OR A.3/3) AND A.6/1 AND A.6/2 AND A.17/2 AND A.18/1 THEN R ELSE N/A~~
~~C74 IF A.2/1 AND A.3/1 AND A.7/28 AND A.6/1 AND A.6/2 AND A.17/3 AND A.18/1 THEN R ELSE N/A~~
~~C75 IF A.2/1 AND A.3/1 AND A.7/28 AND A.6/1 AND A.6/2 AND A.17/6 AND A.18/1 THEN R ELSE N/A~~
~~C76 IF A.7/28 AND A.2/1 AND A.3/1 AND A.6/1 AND A.17/2 AND A.18/2 THEN R ELSE N/A~~
~~C77 IF A.7/28 AND A.3/1 AND A.6/1 AND A.17/4 AND A.18/4 THEN R ELSE N/A~~
~~C78 IF A.3/3 AND A.6/1 AND (A.6/3 OR A.6/4) AND A.17/4 AND A.18/4 THEN R ELSE N/A~~
~~C79 IF (A.3/2 OR A.3/3) AND A.6/2 AND (A.6/3 OR A.6/4) AND A.17/4 AND A.18/2 THEN R ELSE N/A~~
~~C80 IF A.3/2 AND A.6/2 AND (A.6/3 OR A.6/4) AND A.17/5 AND A.18/2 THEN R ELSE N/A~~
~~C81 IF A.3/2 AND (A.6/3 OR A.6/4) AND A.17/5 AND A.18/2 AND A.18b/4 THEN R ELSE N/A~~

~~Alternatively to DL 768 kbps class the test case may be applicable to DL 384 kbps class, then:~~
~~IF A.3/2 AND (A.6/3 OR A.6/4) AND A.17/4 AND A.18/2 AND A.18b/4 AND THEN E ELSE N/A~~

~~C82 IF A.3/3 AND (A.6/3 OR A.6/4) AND A.17/5 AND A.18/2 AND A.18b/4 THEN R ELSE N/A~~

~~Alternatively to DL 768 kbps class the test case may be applicable to DL 384 kbps class, then:~~
~~IF A.2/1 AND A.3/3 AND A.6/1 AND (A.6/3 OR A.6/4) AND A.17/4 AND A.18/2 AND A.18b/4 THEN R ELSE N/A~~

~~C83 IF A.2/1 AND A.3/3 AND A.6/1 AND (A.6/3 OR A.6/4) AND A.17/6 AND A.18/2 AND A.18b/4 AND A.13/2 THEN R ELSE N/A~~
~~C84 IF A.17/1 THEN R ELSE N/A~~
~~C85 IF A.3/2 AND (A.6/3 OR A.6/4) AND A.17/1 THEN R ELSE N/A~~
~~C86 IF A.3/2 AND (A.6/3 OR A.6/4) AND A.18/1 THEN R ELSE N/A~~
~~C87 IF A.3/2 AND (A.6/3 OR A.6/4) AND A.17/6 AND A.18/2 AND A.18b/4 AND A.13/2 THEN R ELSE N/A~~
C88 IF A.3/3 THEN R ELSE N/A.
~~C89 IF (A.3/1 OR A.3/2) AND A.6/2 AND A.17/6 AND A.18/1 AND A.18b/1 AND A.18b/2 THEN R ELSE N/A~~
~~C90 IF A.3/2 AND (A.6/3 OR A.6/4) AND A.17/2 AND A.18/1 AND A.18b/1 AND A.18b/2 THEN R ELSE N/A~~
~~C91 IF A.3/2 AND (A.6/3 OR A.6/4) AND A.17/6 AND A.18/5 AND A.18b/1 AND A.18b/2 THEN R ELSE N/A~~
~~C92 IF A.2/1 AND A.3/3 AND A.6/1 AND (A.6/3 OR A.6/4) AND A.17/2 AND A.18/2 AND A.18b/1 AND A.18b/2 THEN R ELSE N/A~~
C93 IF A.20/29 THEN R ELSE N/A
C94 IF A.20/29 AND A.20/30 THEN R ELSE N/A
C95 IF (A.1/4 OR A.1/6) AND (A.2/1 OR A.2/2) THEN R ELSE N/A
C96 IF A.2/2 THEN R ELSE N/A
C97 IF (A.1/4 OR A.1/6) AND A.3/1 AND (A.4/1 OR A.4/2 OR A.4/3 OR A.4/4 OR A.4/5 OR A.4/6 OR A.4/7 OR A.4/8 OR A.4/9 OR A.4/10 OR A.4/11 OR A.4/12 OR A.4/13 OR A.4/14 OR A.4/15 OR A.4/16 OR A.4/17 OR A.4/18 OR A.4/19 OR A.4/20 OR A.4/21 OR A.4/22 OR A.4/23 OR A.4/24 OR A.4/25 OR A.4/26 OR A.4/27 OR A.4/28) THEN R ELSE N/A
C98 IF A.3/1 OR A.3/3 THEN R ELSE N/A.
C99 IF (A.3/1 OR A.3/3) AND A.20/36 THEN R ELSE N/A.
C100 IF (A.3/1 OR A.3/3) AND A.7/30 THEN R ELSE N/A.
C101 IF A.2/3 AND A.2/4 THEN R ELSE N/A
C102 IF A.2/5 AND A.2/6 THEN R ELSE N/A
C103 IF A.3/3 AND (NOT A.20/38) THEN R ELSE N/A
C104 IF A.20/37 AND (A.1/1 OR A.1/3 OR A.1/4 OR A.1/6) THEN R ELSE N/A
C105 IF A.20/37 AND (A.1/4 OR A.1/6) THEN R ELSE N/A
C106 IF (A.1/1 OR A.1/3 OR A.1/4 OR A.1/6) AND A.2/1 AND A.2/2 THEN R ELSE N/A
C107 IF (A.1/1 OR A.1/3 OR A.1/4 OR A.1/6) AND A.18c/1 THEN R ELSE N/A
C108 IF (A.1/1 OR A.1/3 OR A.1/4 OR A.1/6) AND A.18c/2 THEN R ELSE N/A
C109 IF (A.1/1 OR A.1/3 OR A.1/4 OR A.1/6) AND A.18c/3 THEN R ELSE N/A
C110 IF (A.1/1 OR A.1/3 OR A.1/4 OR A.1/6) AND A.18c/4 THEN R ELSE N/A
C111 IF (A.1/1 OR A.1/3 OR A.1/4 OR A.1/6) AND A.18c/5 THEN R ELSE N/A
C112 IF (A.1/1 OR A.1/3 OR A.1/4 OR A.1/6) AND A.18c/6 THEN R ELSE N/A
C113 IF (A.1/1 OR A.1/3 OR A.1/4 OR A.1/6) AND A.18c/7 THEN R ELSE N/A
C114 IF (A.1/1 OR A.1/3 OR A.1/4 OR A.1/6) AND A.18c/8 THEN R ELSE N/A
C115 IF (A.1/1 OR A.1/3 OR A.1/4 OR A.1/6) AND A.18c/9 THEN R ELSE N/A
C116 IF (A.1/1 OR A.1/3 OR A.1/4 OR A.1/6) AND A.18c/10 THEN R ELSE N/A
C117 IF (A.1/1 OR A.1/3 OR A.1/4 OR A.1/6) AND A.18c/11 THEN R ELSE N/A
C118 IF (A.1/1 OR A.1/3 OR A.1/4 OR A.1/6) AND A.18c/12 THEN R ELSE N/A
C119 IF (A.1/1 OR A.1/3 OR A.1/4 OR A.1/6) AND A.18c/13.1 THEN R ELSE N/A
C120 IF (A.1/1 OR A.1/3 OR A.1/4 OR A.1/6) AND A.18c/13.2 THEN R ELSE N/A
C121 IF (A.1/1 OR A.1/3 OR A.1/4 OR A.1/6) AND A.18c/14.1 THEN R ELSE N/A
C122 IF (A.1/1 OR A.1/3 OR A.1/4 OR A.1/6) AND A.18c/14.2 THEN R ELSE N/A
C123 IF (A.1/1 OR A.1/3 OR A.1/4 OR A.1/6) AND A.18c/15 THEN R ELSE N/A
C124 IF (A.1/1 OR A.1/3 OR A.1/4 OR A.1/6) AND A.18c/16 THEN R ELSE N/A
C125 IF (A.1/1 OR A.1/3 OR A.1/4 OR A.1/6) AND A.18c/17 THEN R ELSE N/A
C126 IF (A.1/1 OR A.1/3 OR A.1/4 OR A.1/6) AND A.18c/18 THEN R ELSE N/A

C127 IF (A.1/1 OR A.1/3 OR A.1/4 OR A.1/6) AND A.18c/19 THEN R ELSE N/A
C128 IF (A.1/1 OR A.1/3 OR A.1/4 OR A.1/6) AND A.18c/20 THEN R ELSE N/A
C129 IF (A.1/1 OR A.1/3 OR A.1/4 OR A.1/6) AND A.18c/21 THEN R ELSE N/A
C130 IF (A.1/1 OR A.1/3 OR A.1/4 OR A.1/6) AND A.18c/22 THEN R ELSE N/A
C131 IF (A.1/1 OR A.1/3 OR A.1/4 OR A.1/6) AND A.18c/23.1 THEN R ELSE N/A
C132 IF (A.1/1 OR A.1/3 OR A.1/4 OR A.1/6) AND A.18c/23.2 THEN R ELSE N/A
C133 IF (A.1/1 OR A.1/3 OR A.1/4 OR A.1/6) AND A.18c/23.3 THEN R ELSE N/A
C134 IF (A.1/1 OR A.1/3 OR A.1/4 OR A.1/6) AND A.18c/23.4 THEN R ELSE N/A
C135 IF (A.1/1 OR A.1/3 OR A.1/4 OR A.1/6) AND A.18c/24.1 THEN R ELSE N/A
C136 IF (A.1/1 OR A.1/3 OR A.1/4 OR A.1/6) AND A.18c/25.1 THEN R ELSE N/A
C137 IF (A.1/1 OR A.1/3 OR A.1/4 OR A.1/6) AND A.18c/25.2 THEN R ELSE N/A
C138 IF (A.1/1 OR A.1/3 OR A.1/4 OR A.1/6) AND A.18c/25.3 THEN R ELSE N/A
C139 IF (A.1/1 OR A.1/3 OR A.1/4 OR A.1/6) AND A.18c/25.4 THEN R ELSE N/A
C140 IF (A.1/1 OR A.1/3 OR A.1/4 OR A.1/6) AND A.18c/26 THEN R ELSE N/A
C141 IF (A.1/1 OR A.1/3 OR A.1/4 OR A.1/6) AND A.18c/27 THEN R ELSE N/A
C142 IF (A.1/1 OR A.1/3 OR A.1/4 OR A.1/6) AND A.18c/28 THEN R ELSE N/A
C143 IF (A.1/1 OR A.1/3 OR A.1/4 OR A.1/6) AND A.18c/29 THEN R ELSE N/A
C144 IF (A.1/1 OR A.1/3 OR A.1/4 OR A.1/6) AND A.18c/30 THEN R ELSE N/A
C145 IF (A.1/1 OR A.1/3 OR A.1/4 OR A.1/6) AND A.18c/31.1 THEN R ELSE N/A
C146 IF (A.1/1 OR A.1/3 OR A.1/4 OR A.1/6) AND A.18c/31.2 THEN R ELSE N/A
C147 IF (A.1/1 OR A.1/3 OR A.1/4 OR A.1/6) AND A.18c/32.1 THEN R ELSE N/A
C148 IF (A.1/1 OR A.1/3 OR A.1/4 OR A.1/6) AND A.18c/32.2 THEN R ELSE N/A
C149 IF (A.1/1 OR A.1/3 OR A.1/4 OR A.1/6) AND A.18c/33.1 THEN R ELSE N/A
C150 IF (A.1/1 OR A.1/3 OR A.1/4 OR A.1/6) AND A.18c/33.2 THEN R ELSE N/A
C151 IF (A.1/1 OR A.1/3 OR A.1/4 OR A.1/6) AND A.18c/34.1 THEN R ELSE N/A
C152 IF (A.1/1 OR A.1/3 OR A.1/4 OR A.1/6) AND A.18c/34.2 THEN R ELSE N/A
C153 IF (A.1/1 OR A.1/3 OR A.1/4 OR A.1/6) AND A.18c/35.1 THEN R ELSE N/A
C154 IF (A.1/1 OR A.1/3 OR A.1/4 OR A.1/6) AND A.18c/35.2 THEN R ELSE N/A
C155 IF (A.1/1 OR A.1/3 OR A.1/4 OR A.1/6) AND A.18c/36.1 THEN R ELSE N/A
C156 IF (A.1/1 OR A.1/3 OR A.1/4 OR A.1/6) AND A.18c/36.2 THEN R ELSE N/A
C157 IF (A.1/1 OR A.1/3 OR A.1/4 OR A.1/6) AND A.18c/37.1 THEN R ELSE N/A
C158 IF (A.1/1 OR A.1/3 OR A.1/4 OR A.1/6) AND A.18c/37.2 THEN R ELSE N/A
C159 IF (A.1/1 OR A.1/3 OR A.1/4 OR A.1/6) AND A.18c/38.1 THEN R ELSE N/A
C160 IF (A.1/1 OR A.1/3 OR A.1/4 OR A.1/6) AND A.18c/38.2 THEN R ELSE N/A
C161 IF (A.1/1 OR A.1/3 OR A.1/4 OR A.1/6) AND A.18c/38.3 THEN R ELSE N/A
C162 IF (A.1/1 OR A.1/3 OR A.1/4 OR A.1/6) AND A.18c/38.4 THEN R ELSE N/A
C163 IF (A.1/1 OR A.1/3 OR A.1/4 OR A.1/6) AND A.18c/39.1 THEN R ELSE N/A
C164 IF (A.1/1 OR A.1/3 OR A.1/4 OR A.1/6) AND A.18c/39.2 THEN R ELSE N/A
C165 IF (A.1/1 OR A.1/3 OR A.1/4 OR A.1/6) AND A.18c/39.3 THEN R ELSE N/A
C166 IF (A.1/1 OR A.1/3 OR A.1/4 OR A.1/6) AND A.18c/39.4 THEN R ELSE N/A
C167 IF (A.1/1 OR A.1/3 OR A.1/4 OR A.1/6) AND A.18c/40 THEN R ELSE N/A
C168 IF (A.1/1 OR A.1/3 OR A.1/4 OR A.1/6) AND A.18c/41 THEN R ELSE N/A
C169 IF (A.1/1 OR A.1/3 OR A.1/4 OR A.1/6) AND A.18c/42.1 THEN R ELSE N/A
C170 IF (A.1/1 OR A.1/3 OR A.1/4 OR A.1/6) AND A.18c/42.2 THEN R ELSE N/A
C171 IF (A.1/1 OR A.1/3 OR A.1/4 OR A.1/6) AND A.18c/43.1 THEN R ELSE N/A
C172 IF (A.1/1 OR A.1/3 OR A.1/4 OR A.1/6) AND A.18c/43.2 THEN R ELSE N/A
C173 IF (A.1/1 OR A.1/3 OR A.1/4 OR A.1/6) AND A.18c/44.1 THEN R ELSE N/A
C174 IF (A.1/1 OR A.1/3 OR A.1/4 OR A.1/6) AND A.18c/44.2 THEN R ELSE N/A
C175 IF (A.1/1 OR A.1/3 OR A.1/4 OR A.1/6) AND A.18c/45 THEN R ELSE N/A
C176 IF (A.1/1 OR A.1/3 OR A.1/4 OR A.1/6) AND A.18c/46 THEN R ELSE N/A
C177 IF (A.1/1 OR A.1/3 OR A.1/4 OR A.1/6) AND A.18c/47 THEN R ELSE N/A
C178 IF (A.1/1 OR A.1/3 OR A.1/4 OR A.1/6) AND A.18c/48 THEN R ELSE N/A
C179 IF (A.1/1 OR A.1/3 OR A.1/4 OR A.1/6) AND A.18c/49.1 THEN R ELSE N/A
C180 IF (A.1/1 OR A.1/3 OR A.1/4 OR A.1/6) AND A.18c/49.2 THEN R ELSE N/A
C181 IF (A.1/1 OR A.1/3 OR A.1/4 OR A.1/6) AND A.18c/50.1 THEN R ELSE N/A
C182 IF (A.1/1 OR A.1/3 OR A.1/4 OR A.1/6) AND A.18c/50.2 THEN R ELSE N/A
C183 IF (A.1/1 OR A.1/3 OR A.1/4 OR A.1/6) AND A.18c/51.1 THEN R ELSE N/A
C184 IF (A.1/1 OR A.1/3 OR A.1/4 OR A.1/6) AND A.18c/51.2 THEN R ELSE N/A
C185 IF (A.1/1 OR A.1/3 OR A.1/4 OR A.1/6) AND A.18c/52.1 THEN R ELSE N/A
C186 IF (A.1/1 OR A.1/3 OR A.1/4 OR A.1/6) AND A.18c/52.2 THEN R ELSE N/A
C187 IF (A.1/1 OR A.1/3 OR A.1/4 OR A.1/6) AND A.18c/53.1 THEN R ELSE N/A
C188 IF (A.1/1 OR A.1/3 OR A.1/4 OR A.1/6) AND A.18c/53.2 THEN R ELSE N/A
C189 IF (A.1/1 OR A.1/3 OR A.1/4 OR A.1/6) AND A.18c/54 THEN R ELSE N/A
C190 IF (A.1/1 OR A.1/3 OR A.1/4 OR A.1/6) AND A.18c/55 THEN R ELSE N/A
C191 IF (A.1/1 OR A.1/3 OR A.1/4 OR A.1/6) AND A.18d/1.1 THEN R ELSE N/A
C192 IF (A.1/1 OR A.1/3 OR A.1/4 OR A.1/6) AND A.18d/1.2 THEN R ELSE N/A
C193 IF (A.1/1 OR A.1/3 OR A.1/4 OR A.1/6) AND A.18d/2.1 THEN R ELSE N/A
C194 IF (A.1/1 OR A.1/3 OR A.1/4 OR A.1/6) AND A.18d/2.2 THEN R ELSE N/A

C195 IF (A.1/1 OR A.1/3 OR A.1/4 OR A.1/6) AND A.18d/3.1 THEN R ELSE N/A
C196 IF (A.1/1 OR A.1/3 OR A.1/4 OR A.1/6) AND A.18d/3.2 THEN R ELSE N/A
C197 IF (A.1/1 OR A.1/3 OR A.1/4 OR A.1/6) AND A.18d/4.1 THEN R ELSE N/A
C198 IF (A.1/1 OR A.1/3 OR A.1/4 OR A.1/6) AND A.18d/4.2 THEN R ELSE N/A
C199 IF (A.1/1 OR A.1/3 OR A.1/4 OR A.1/6) AND A.18d/5.1 THEN R ELSE N/A
C200 IF (A.1/1 OR A.1/3 OR A.1/4 OR A.1/6) AND A.18d/5.2 THEN R ELSE N/A
C201 IF (A.1/1 OR A.1/3 OR A.1/4 OR A.1/6) AND A.18d/6.1 THEN R ELSE N/A
C202 IF (A.1/1 OR A.1/3 OR A.1/4 OR A.1/6) AND A.18d/6.2 THEN R ELSE N/A
C203 IF (A.1/1 OR A.1/3 OR A.1/4 OR A.1/6) AND A.18e/1 THEN R ELSE N/A
C204 IF (A.1/1 OR A.1/3 OR A.1/4 OR A.1/6) AND A.18e/2 THEN R ELSE N/A
C205 IF (A.1/1 OR A.1/3 OR A.1/4 OR A.1/6) AND A.18e/3 THEN R ELSE N/A
C206 IF (A.1/1 OR A.1/3 OR A.1/4 OR A.1/6) AND A.18f/1 THEN R ELSE N/A
C207 IF (A.1/1 OR A.1/3 OR A.1/4 OR A.1/6) AND A.18c/24.2 THEN R ELSE N/A

~~Note 1. See [34a] TS 25.306 for definition of UE radio access reference combinations in uplink and downlink (UL xx kbps/DL xx kbps classes). See Annex B for mapping between reference radio bearer combinations and UE radio access reference combinations in uplink and downlink.~~

Annex A (normative): ICS proforma for 3rd Generation User Equipment

A.1 Guidance for completing the ICS proforma

A.1.1 Purposes and structure

The purpose of this ICS proforma is to provide a mechanism whereby a supplier of an implementation of the requirements defined in relevant specifications may provide information about the implementation in a standardised manner.

The ICS proforma is subdivided into subclauses for the following categories of information:

- instructions for completing the ICS proforma;
- identification of the implementation;
- identification of the protocol;
- ICS proforma tables (for example: UE implementation types, Teleservices, etc);

A.1.2 Abbreviations and conventions

The ICS proforma contained in this annex is comprised of information in tabular form in accordance with the guidelines presented in ISO/IEC 9646-7.

Item column

The item column contains a number which identifies the item in the table.

Item description column

The item description column describes in free text each respective item (e.g. parameters, timers, etc.). It implicitly means "is <item description> supported by the implementation?".

Reference column

The reference column gives reference to the relevant 3GPP core specifications.

Comments column

This column is left blank for particular use by the reader of this specification.

References to items

For each possible item answer (answer in the support column) within the ICS proforma there exists a unique reference, used, for example, in the conditional expressions. It is defined as the table identifier, followed by a solidus character "/", followed by the item number in the table. If there is more than one support column in a table, the columns shall be discriminated by letters (a, b, etc.), respectively.

EXAMPLE 1: A.5/4 is the reference to the answer of item 4 in table A.5.

EXAMPLE 2: A.6/3b is the reference to the second answer (i.e. in the second support column) of item 3 in table A.6.

A.1.3 Instructions for completing the ICS proforma

The supplier of the implementation may complete the ICS proforma in each of the spaces provided. More detailed instructions are given at the beginning of the different subclauses of the ICS proforma.

A.2 Identification of the User Equipment

Identification of the User Equipment should be filled in so as to provide as much detail as possible regarding version numbers and configuration options.

The product supplier information and client information should both be filled in if they are different.

A person who can answer queries regarding information supplied in the ICS should be named as the contact person.

A.2.1 Date of the statement

.....

A.2.2 User Equipment Under Test (UEUT) identification

UEUT name:

.....

.....

Hardware configuration:

.....

.....

.....

Software configuration:

.....

.....

.....

A.2.3 Product supplier

Name:

.....

Address:

.....

.....

.....

Telephone number:

.....

Facsimile number:

.....

E-mail address:

.....

Additional information:

.....

.....

.....

A.2.4 Client

Name:

.....

Address:

.....

.....

.....

Telephone number:

.....

Facsimile number:

.....

E-mail address:

.....

Additional information:

.....

.....

.....

A.2.5 ICS contact person

Name:

.....

Telephone number:

.....

Facsimile number:

.....

E-mail address:

.....

Additional information:

.....

.....

A.3 Identification of the protocol

This ICS proforma applies to the 3GPP standards listed in the normative references clause of the present document.

A.4 ICS proforma tables

A.4.1 UE Implementation Types

Table A.1: UE Implementation Types

Item	UE Implementation Types	Ref.	Comments
1	Single-mode FDD (DS)	21.904, 5	
2	Single-mode TDD	21.904, 5	
3	Dual-mode FDD (DS)/TDD	21.904, 5	
4	Dual-mode FDD (DS)/GSM	21.904, 5	
5	Dual-mode TDD/GSM	21.904, 5	
6	Tri-mode FDD(DS)/TDD/GSM	21.904, 5	

A.4.2 UE Service Capabilities

A.4.2.1 3GPP Standardised UE Service Capabilities

A.4.2.1.1 Teleservices

Table A.2: Teleservices

Item	Teleservices	Ref.	Comments
1	Narrow band speech (AMR)	22.105, 6.4.1	
2	Emergency speech call	22.105, 6.4.2	
3	Short Message Service (SMS) MT over CS	22.105, 6.4.3 22.003, A.1.3.1	
4	Short Message Service (SMS) MO over CS	22.105, 6.4.3 22.003, A.1.3.2	
5	Short Message Service (SMS) MT over PS	22.105, 6.4.3 22.003, A.1.3.1	
6	Short Message Service (SMS) MO over PS	22.105, 6.4.3 22.003, A.1.3.2	
7	Cell Broadcast Service (CBS)	22.105, 6.4.4	

A.4.2.1.2 Bearer Services

Table A.3: Definition of Bearer Services

Item	Definition of Bearer Services	Ref.	Comments
1	Circuit Switched	22.105, 5.1 22.002	
2	Packet Switched	22.105, 5.1 22.060	
3	UE supports UE operation mode A: PS and CS simultaneously		

Table A.4: Asynchronous General Bearer Services

Item	Asynchronous General Bearer Services	Ref.	Comments
1	3.1 kHz Audio 9600 bit/s	22.002, 3.1.1	
2	3.1 kHz Audio 14400 bit/s	22.002, 3.1.1	
3	3.1 kHz Audio 19200 bit/s	22.002, 3.1.1	
4	3.1 kHz Audio 28800 bit/s	22.002, 3.1.1	
5	3.1 KhZ Audio Modem AutoBauding1	22.002, 3.1.1	
6	V.110 UDI 9600 bit/s	22.002, 3.1.2	
7	V.110 UDI 14400 bit/s	22.002, 3.1.2	
8	V.110 UDI 19200 bit/s	22.002, 3.1.2	
9	V.110 UDI 28800 bit/s	22.002, 3.1.2	
10	V.110 UDI 38400 bit/s	22.002, 3.1.2	
11	V.120 9600 bit/s	22.002, 3.1.4	
12	V.120 14400 bit/s	22.002, 3.1.4	
13	V.120 19200 bit/s	22.002, 3.1.4	
14	V.120 28800 bit/s	22.002, 3.1.4	
15	V.120 38400 bit/s	22.002, 3.1.4	
16	V.120 48000 bit/s	22.002, 3.1.4	
17	V.120 56000 bit/s	22.002, 3.1.4	
18	PIAFS 32000 bit/s	22.002, 3.1.6	
19	PIAFS 64000 bit/s	22.002, 3.1.6	
20	Frame Tunnelling Mode 56000 bit/s	22.002, 3.1.7	
21	Frame Tunnelling Mode 64000 bit/s	22.002, 3.1.7	
Note: The rates in the table refer to FNUR (Fixed Network User Rate).			

Table A.5: Synchronous General Bearer Services

Item	Synchronous General Bearer Services	Ref.	Comments
1	3.1 kHz Audio 9600 bit/s	22.002, 3.1.1	
2	3.1 kHz Audio 14400 bit/s	22.002, 3.1.1	
3	3.1 kHz Audio 19200 bit/s	22.002, 3.1.1	
4	3.1 kHz Audio 28800 bit/s	22.002, 3.1.1	
5	V.110 UDI 28800 bit/s	22.002, 3.1.2	
6	V.110 UDI 48000 bit/s	22.002, 3.1.2	
7	V.110 UDI 56000 bit/s	22.002, 3.1.2	
8	X.31 Flag Stuffing UDI 9600 bit/s	22.002, 3.1.3	
9	X.31 Flag Stuffing UDI 14400 bit/s	22.002, 3.1.3	
10	X.31 Flag Stuffing UDI 19200 bit/s	22.002, 3.1.3	
11	X.31 Flag Stuffing UDI 28800 bit/s	22.002, 3.1.3	
12	X.31 Flag Stuffing UDI 38400 bit/s	22.002, 3.1.3	
13	X.31 Flag Stuffing UDI 48000 bit/s	22.002, 3.1.3	
14	X.31 Flag Stuffing UDI 56000 bit/s	22.002, 3.1.3	
15	V.120 9600 bit/s	22.002, 3.1.4	
16	V.120 14400 bit/s	22.002, 3.1.4	
17	V.120 19200 bit/s	22.002, 3.1.4	
18	V.120 28800 bit/s	22.002, 3.1.4	
19	V.120 38400 bit/s	22.002, 3.1.4	
20	V.120 48000 bit/s	22.002, 3.1.4	
21	V.120 56000 bit/s	22.002, 3.1.4	
22	Bit Transparent mode 56000 bit/s	22.002, 3.1.5	
23	Bit Transparent mode 64000 bit/s	22.002, 3.1.5	
24	Multimedia Call 28800 bit/s	22.002, 3.1.8	
25	Multimedia Call 32000 bit/s	22.002, 3.1.8	
26	Multimedia Call 33600 bit/s	22.002, 3.1.8	
27	Multimedia Call 56000 bit/s	22.002, 3.1.8	
28	Multimedia Call 64000 bit/s	22.002, 3.1.8	
Note: The rates in the table refer to FNUR (Fixed Network User Rate).			

Table A.6: QoS classes or traffic classes

Item	QoS classes or traffic classes	Ref.	Comments
1	Conversational	23.107, 6.3.1, 6.5.1	
2	Streaming	23.107, 6.3.2, 6.5.1	
3	Interactive	23.107, 6.3.3, 6.5.1	
4	Background	23.107, 6.3.4, 6.5.1	

A.4.2.1.3 Supplementary Services

Table A.7: Supplementary Services

Item	Supplementary services	Ref.	Comments
1	Call Deflection	22.072; 22.004, 4	
2	Calling Line Identification Presentation	22.081, 1; 22.004, 4	
3	Calling Line Identification Restriction	22.081, 2; 22.004, 4	
4	Connected Line Identification Presentation	22.081, 3; 22.004, 4	
5	Connected Line Identification Restriction	22.081, 4; 22.004, 4	
6	Call Forwarding Unconditional	22.082, 1; 22.004, 4	
7	Call Forwarding on Mobile Subscriber Busy	22.082, 2; 22.004, 4	
8	Call Forwarding on No Reply	22.082, 3; 22.004, 4	
9	Call Forwarding on Mobile Subscriber Not Reachable	22.082, 4; 22.004, 4	
10	Call Waiting	22.083, 1; 22.004, 4	
11	Call Hold	22.083, 2 22.004, 4	
12	Multi Party Service	22.084; 22.004, 4	
13	Closed User Group	22.085; 22.004, 4	
14	User-to-user signalling	22.087; 22.004, 4	
15	Advice of Charge (Information)	22.086, 1; 22.004, 4	
16	Advice of Charge (Charging)	22.086, 2; 22.004, 4	
17	Barring of All Outgoing Calls	22.088, 1; 22.004, 4	
18	Barring of Outgoing International Calls	22.088, 1; 22.004, 4	
19	Barring of Outgoing International Calls except those directed to the Home PLMN Country	22.088, 1; 22.004, 4	
20	Barring of All Incoming Calls	22.088, 2; 22.004, 4	
21	Barring of Incoming Calls when Roaming Outside the Home PLMN Country	22.088, 2; 22.004, 4	
22	Explicit call transfer	22.091; 22.004, 4	
23	Call Completion to Busy Subscriber	22.093; 22.004, 4	
24	Call Completion to Busy Subscriber Request	22.093; 22.004, 4	
25	Follow Me	22.094	
26	Calling name presentation (CNAP)	22.096; 22.004, 4	
27	Multiple Subscriber Profile (MSP)	22.097; 22.004, A	
28	Multicall	22.135; 22.004, 4	
29	enhanced Multi-Level Precedence and Pre-emption	22.067; 22.004, 4	
30	At least one non-call related Supplementary Service supported		
Note: Test cases for these features will not be include in R99 of TS 34.123-1.			

A.4.2.1.4 Service Capabilities

Table A.8: Service Capabilities

Item	Services Capabilities	Ref.	Comments
1	Mobile station Execution Environment (MExE)	22.057	
2	Location Service (LCS)	22.071	
3	USIM Application Toolkit (USAT)	31.111	
Note: Test cases for these features will not be include in R99 of TS 34.123-1.			

A.4.2.1.5 GSM System Features

Table A.9: GSM System Features

Item	GSM System Features	Ref.	Comments
1	Network Identity and Time Zone (NITZ)	22.042	
2	Unstructured Supplementary Service Data (USSD)	22.090	
Note: Test cases for these features will not be include in R99 of TS 34.123-1.			

A.4.2.2 Other UE Service Capabilities

Table A.10: Other UE Service Capabilities

Item	Other UE Service Capabilities	Ref.	Comments
1	Multimedia services (3G-324M)	26.071, 26.110, 26.111, 26.112	
2	Alternate speech/facsimile group 3	22.003, A.1.4	
3	Automatic facsimile group 3	22.003, A.1.5	

A.4.3 Baseline Implementation Capabilities

Table A.11: Supported protocols

Item	Supported protocols	Ref.	Comments
1	Call Control	24.008, 5	
2	Mobility Management	24.008, 4	
3	Session Management	24.008, 6.1	
4	GPRS Mobility Management	24.008, 4	
5	Radio Resource Control	25.331	
6	Packet Data Convergence Protocol	25.323	
7	Broadcast/Multicast Control	25.324	
8	Radio Link Control	25.322	
9	Medium Access Control	25.321	
10	Physical Layer	25.201	

A.4.3.1 Baseline Implementation Capabilities to facilitate Conformance testing

Table A.12: Reference Measurement Channels

Item	Reference Measurement Channels	Ref.	Comments
1	Up-link reference measurement channel 12.2 kbps (FDD)	25.101 A.2.1	
2	Down-link reference measurement channel 12.2 kbps (FDD)	25.101 A.3.1	
3	Up-link reference measurement channel12.2 kbps (TDD)	25.102 A.2.1	
4	Down-link reference measurement channel 12.2 kbps (TDD)	25.102 A.2.2	

Table A.13: Special Conformance Testing Functions

Item	Special Conformance Testing Functions	Ref.	Comments
1	UE test loop	34.109, 5.3	
2	Max UE test loop UL RLC SDU size 65535 bits	34.109, 6.2	

Table A.14: Terminal Logical Test Interface

Item	Terminal Logical Test Interface	Ref.	Comments
1	Electrical Man Machine Interface (EMMI)	34.109, 8	
2	UICC/ME test interface	34.109, 9	

A.4.3.2 RF Baseline Implementation Capabilities

Table A.15: FDD (DS) RF Baseline Implementation Capabilities

Item	FDD (DS) RF Baseline Implementation Capabilities	Ref.	Comments
1	Chip rate 3.84 Mcps	25.101, 5.1	
2	Frequency band: 1920-1980, 2110-2170 MHz	25.101, 5.2	
3	Frequency band: 1850-1910, 1930-1990 MHz	25.101, 5.2	
4	Frequency band: Other spectrum	25.101, 5.2	
5	TX-RX Freq. Sep: 190 MHz	25.101, 5.3	
6	TX-RX Freq. Sep: 80 MHz	25.101, 5.3	
7	TX-RX Freq. Sep: Variable	25.101, 5.3	
8	Carrier raster: 200 kHz	25.101, 5.4	
9	UE Power Class 1 (+33 dBm)	25.101, 6.2.1	
10	UE Power Class 2 (+27 dBm)	25.101, 6.2.1	
11	UE Power Class 3 (+24 dBm)	25.101, 6.2.1	
12	UE Power Class 4 (+21 dBm)	25.101, 6.2.1	
13	Output RF spectrum emissions	25.101, 6.6	

Table A.16: TDD RF Baseline Implementation Capabilities

Item	TDD RF Baseline Implementation Capabilities	Ref.	Comments
1	Chip rate 3.84 Mcps	25.102, 5.1	
2	Frequency band: 1900-1920 MHz	25.102, 5.2	
3	Frequency band: 2010-2025 MHz	25.102, 5.2	
4	Frequency band: 1850-1910 MHz	25.102, 5.2	
5	Frequency band: 1930-1990 MHz	25.102, 5.2	
6	Frequency band: 1910-1930 MHz	25.102, 5.2	
7	Frequency band: Other spectrum	25.102, 5.2	
8	Carrier raster: 200 kHz	25.102, 5.4	
9	UE Power Class 2 (+24 dBm)	25.102, 6.2.1	
10	UE Power Class 3 (+21 dBm)	25.102, 6.2.1	
11	Output RF spectrum emissions	25.102, 6.6	

A.4.3.3 Physical Layer Baseline Implementation Capabilities

Table A.17: Void~~UE Radio Access Reference Combinations DL~~

~~Item~~	~~UE Radio Access Reference Combination DL~~	~~Ref.~~	~~Comments~~
~~1~~	~~DL 32 kbit class~~	~~25.306, 5~~	
~~2~~	~~DL 64 kbit class~~	~~25.306, 5~~	
~~3~~	~~DL 128 kbit class~~	~~25.306, 5~~	
~~4~~	~~DL 384 kbit class~~	~~25.306, 5~~	
~~5~~	~~DL 768 kbit class~~	~~25.306, 5~~	
~~6~~	~~DL 2048 kbit class~~	~~25.306, 5~~	

Table A.18: Void~~UE Radio Access Reference Combinations UL~~

~~Item~~	~~UE Radio Access Reference Combination UL~~	~~Ref.~~	~~Comments~~
~~1~~	~~UL 32 kbit class~~	~~25.306, 5~~	
~~2~~	~~UL 64 kbit class~~	~~25.306, 5~~	
~~3~~	~~UL 128 kbit class~~	~~25.306, 5~~	
~~4~~	~~UL 384 kbit class~~	~~25.306, 5~~	
~~5~~	~~UL 768 kbit class~~	~~25.306, 5~~	

Table A.18b: FDD Layer 1 UE Radio Access Capabilities

Item	FDD Layer 1 UE Radio Access Capabilities	Ref.	Comments
1	Support of turbo decoding	25.306, 4.5.1	
2	Support of turbo encoding	25.306, 4.5.2	
3	Support for SF 512 (downlink)	25.306, 4.5.3	
4	Support of PDSCH	25.306, 4.5.3	
5	Simultaneous reception of SCCPCH and DPCH	25.306, 4.5.3	
6	Simultaneous reception of SCCPCH, DPCH and PDSCH	25.306, 4.5.3	
7	Support of PCPCH	25.306, 4.5.4	

A.4.3.3.1 FDD Interoperability Radio Bearer Capabilities

The applicability column in table A.18c to A.18f specifies the minimum UE radio access capability for which the reference radio bearer configurations are applicable. The UE radio access capability parameters and their possible value range are defined in [34a] 25.306 clause 5.1.

The following labels have been used in tables A.18c to A.18f to represent the various UE radio access capability parameters:

	Label	UE radio access capability parameter as defined in [34a] 25.306.
Transport channel parameters in downlink	DL Max TB bits	Maximum sum of number of bits of all transport blocks being received at an arbitrary time instant
	DL Max CC TB bits	Maximum sum of number of bits of all convolutionally coded transport blocks being received at an arbitrary time instant
	DL Max TC TB bits	Maximum sum of number of bits of all turbo coded transport blocks being received at an arbitrary time instant
	DL Max TrCHs	Maximum number of simultaneous transport channels
	DL Max CCTrCH	Maximum number of simultaneous CCTrCH
	DL Max TTI TB	Maximum total number of transport blocks received within TTIs that end within the same 10 ms interval
	DL Max TFS	Maximum number of TFC in the TFCS
	DL Max TF	Maximum number of TF
	DL TC	Support for turbo decoding
Transport channel parameters in uplink	UL Max TB bits	Maximum sum of number of bits of all transport blocks being transmitted at an arbitrary time instant
	UL Max CC TB bits	Maximum sum of number of bits of all convolutionally coded transport blocks being transmitted at an arbitrary time instant
	UL Max TC TB bits	Maximum sum of number of bits of all turbo coded transport blocks being transmitted at an arbitrary time instant
	UL Max TrCHs	Maximum number of simultaneous transport channels
	UL Max TTI TB	Maximum total number of transport blocks transmitted within TTIs that start at the same time
	UL Max TFS	Maximum number of TFC in the TFCS
	UL Max TF	Maximum number of TF
	UL TC	Support for turbo encoding

Table A.18c: FDD interoperability radio bearer capabilities for combinations on DPCH.

Item	FDD interoperability radio bearer configuration for combination on DPCH	Ref.	Applicability (Minimum UE radio access capability)		Comments
			Parameter	Value	
1	Stand-alone UL:1.7 DL:1.7 kbps SRBs for DCCH	34.108 6.10.2.4.1.1	DL Max TB bits	640	
			DL Max CC TB bits	640	
			DL Max TC TB bits	N/A	
			DL Max TrCHs	4	
			DL Max CCTrCH	1	
			DL Max TTI TB	4	
			DL Max TFS	16	
			DL Max TF	32	
			DL TC	N/A	
			UL Max TB bits	640	
			UL Max CC TB bits	640	
			UL Max TC TB bits	N/A	
			UL Max TrCHs	2	
			UL Max TTI TB	2	
			UL Max TFS	4	
			UL Max TF	32	
			UL TC	N/A	
			Other required UE radio access capability	SF512 = Yes	
2	Stand-alone UL:3.4 DL:3.4 kbps SRBs for DCCH	34.108 6.10.2.4.1.2	DL Max TB bits	640	
			DL Max CC TB bits	640	
			DL Max TC TB bits	N/A	
			DL Max TrCHs	4	
			DL Max CCTrCH	1	
			DL Max TTI TB	4	
			DL Max TFS	16	
			DL Max TF	32	
			DL TC	N/A	
			UL Max TB bits	640	
			UL Max CC TB bits	640	
			UL Max TC TB bits	N/A	
			UL Max TrCHs	2	
			UL Max TTI TB	2	
			UL Max TFS	4	
			UL Max TF	32	
			UL TC	N/A	
			Other required UE radio access capability	None	
3	Stand-alone UL:13.6 DL:13.6 kbps SRBs for DCCH	34.108 6.10.2.4.1.3	DL Max TB bits	640	
			DL Max CC TB bits	640	
			DL Max TC TB bits	N/A	
			DL Max TrCHs	4	
			DL Max CCTrCH	1	
			DL Max TTI TB	4	
			DL Max TFS	16	
			DL Max TF	32	
			DL TC	N/A	
			UL Max TB bits	640	
			UL Max CC TB bits	640	
			UL Max TC TB bits	N/A	
			UL Max TrCHs	2	
			UL Max TTI TB	2	
			UL Max TFS	4	
			UL Max TF	32	
			UL TC	N/A	
			Other required UE radio access capability	None	

4	Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH	34.108 6.10.2.4.1.4	DL Max TB bits	640	
			DL Max CC TB bits	640	
			DL Max TC TB bits	N/A	
			DL Max TrCHs	4	
			DL Max CCTrCH	1	
			DL Max TTI TB	4	
			DL Max TFS	16	
			DL Max TF	32	
			DL TC	N/A	
			UL Max TB bits	640	
			UL Max CC TB bits	640	
			UL Max TC TB bits	N/A	
			UL Max TrCHs	4	
			UL Max TTI TB	4	
			UL Max TFS	8	
			UL Max TF	32	
			UL TC	N/A	
			Other required UE radio access capability	None	
5	Conversational / speech / UL:10.2 DL:10.2 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH	34.108 6.10.2.4.1.5	Same as for item 4.		
6	Conversational / speech / UL:7.95 DL:7.95 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH	34.108 6.10.2.4.1.6	Same as for item 4.		
7	Conversational / speech / UL:7.4 DL:7.4 kbps / CS RAB+ UL:3.4 DL:3.4 kbps SRBs for DCCH	34.108 6.10.2.4.1.7	Same as for item 4.		
8	Conversational / speech / UL:6.7 DL:6.7 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH	34.108 6.10.2.4.1.8	Same as for item 4.		
9	Conversational / speech / UL:5.9 DL:5.9 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH	34.108 6.10.2.4.1.9	Same as for item 4.		
10	Conversational / speech / UL:5.15 DL:5.15 kbps / CS RAB + UL:1.7 DL:1.7 kbps SRBs for DCCH	34.108 6.10.2.4.1.10	Same as for item 4.		
11	Conversational / speech / UL:4.75 DL:4.75 kbps / CS RAB + UL:1.7 DL:1.7 kbps SRBs for DCCH	34.108 6.10.2.4.1.11	Same as for item 4.		
12	Conversational / unknown / UL:28.8 DL:28.8 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH	34.108 6.10.2.4.1.12	DL Max TB bits	2560	
			DL Max CC TB bits	640	
			DL Max TC TB bits	1280	
			DL Max TrCHs	4	
			DL Max CCTrCH	1	
			DL Max TTI TB	4	
			DL Max TFS	16	
			DL Max TF	32	
			DL TC	Yes	
			UL Max TB bits	2560	
			UL Max CC TB bits	640	
			UL Max TC TB bits	1280	
			UL Max TrCHs	4	
			UL Max TTI TB	4	
			UL Max TFS	8	
			UL Max TF	32	
			UL TC	Y	
			Other required UE radio access capability	None	
13.1	Conversational / unknown / UL:64 DL:64 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH / 20 ms TTI	34.108 6.10.2.4.1.13	DL Max TB bits	2560	
			DL Max CC TB bits	640	
			DL Max TC TB bits	1280	

			DL Max TrCHs	4
			DL Max CCTrCH	1
			DL Max TTI TB	4
			DL Max TFS	16
			DL Max TF	32
			DL TC	Yes
			UL Max TB bits	2560
			UL Max CC TB bits	640
			UL Max TC TB bits	1280
			UL Max TrCHs	4
			UL Max TTI TB	4
			UL Max TFS	8
			UL Max TF	32
			UL TC	Y
			Other required UE radio access capability	None
13.2	Conversational / unknown / UL:64 DL:64 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH / 40 ms TTI	34.108 6.10.2.4.1.13	DL Max TB bits	3840
			DL Max CC TB bits	640
			DL Max TC TB bits	2560
			DL Max TrCHs	4
			DL Max CCTrCH	1
			DL Max TTI TB	8
			DL Max TFS	16
			DL Max TF	32
			DL TC	Yes
			UL Max TB bits	3840
			UL Max CC TB bits	640
			UL Max TC TB bits	2560
			UL Max TrCHs	4
			UL Max TTI TB	8
			UL Max TFS	8
			UL Max TF	32
			UL TC	Yes
			Other required UE radio access capability	None
14.1	Conversational / unknown / UL:32 DL:32 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH / 20 ms TTI	34.108 6.10.2.4.1.14	DL Max TB bits	1280
			DL Max CC TB bits	640
			DL Max TC TB bits	640
			DL Max TrCHs	4
			DL Max CCTrCH	1
			DL Max TTI TB	4
			DL Max TFS	16
			DL Max TF	32
			DL TC	Yes
			UL Max TB bits	1280
			UL Max CC TB bits	640
			UL Max TC TB bits	640
			UL Max TrCHs	4
			UL Max TTI TB	4
			UL Max TFS	8
			UL Max TF	32
			UL TC	Yes
			Other required UE radio access capability	None
14.2	Conversational / unknown / UL:32 DL:32 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH / 40 ms TTI	34.108 6.10.2.4.1.14	DL Max TB bits	2560
			DL Max CC TB bits	640
			DL Max TC TB bits	1280
			DL Max TrCHs	4
			DL Max CCTrCH	1
			DL Max TTI TB	4
			DL Max TFS	16
			DL Max TF	32
			DL TC	Yes
			UL Max TB bits	2560

			UL Max CC TB bits	640
			UL Max TC TB bits	1280
			UL Max TrCHs	4
			UL Max TTI TB	4
			UL Max TFS	8
			UL Max TF	32
			UL TC	Yes
			Other required UE radio access capability	None
15	Streaming / unknown / UL:14.4/DL:14.4 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH	34.108 6.10.2.4.1.15	DL Max TB bits	1280
			DL Max CC TB bits	640
			DL Max TC TB bits	640
			DL Max TrCHs	4
			DL Max CCTrCH	1
			DL Max TTI TB	4
			DL Max TFS	16
			DL Max TF	32
			DL TC	Yes
			UL Max TB bits	1280
			UL Max CC TB bits	640
			UL Max TC TB bits	640
			UL Max TrCHs	2
			UL Max TTI TB	2
			UL Max TFS	4
			UL Max TF	32
			UL TC	Yes
			Other required UE radio access capability	None
16	Streaming / unknown / UL:28.8/DL:28.8 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH	34.108 6.10.2.4.1.16	DL Max TB bits	2560
			DL Max CC TB bits	640
			DL Max TC TB bits	1280
			DL Max TrCHs	4
			DL Max CCTrCH	1
			DL Max TTI TB	4
			DL Max TFS	16
			DL Max TF	32
			DL TC	Yes
			UL Max TB bits	2560
			UL Max CC TB bits	640
			UL Max TC TB bits	1280
			UL Max TrCHs	4
			UL Max TTI TB	4
			UL Max TFS	8
			UL Max TF	32
			UL TC	Yes
			Other required UE radio access capability	None
17	Streaming / unknown / UL:57.6/DL:57.6 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH	34.108 6.10.2.4.1.17	DL Max TB bits	2560
			DL Max CC TB bits	640
			DL Max TC TB bits	2560
			DL Max TrCHs	4
			DL Max CCTrCH	1
			DL Max TTI TB	8
			DL Max TFS	16
			DL Max TF	32
			DL TC	Yes
			UL Max TB bits	2560
			UL Max CC TB bits	640
			UL Max TC TB bits	2560
			UL Max TrCHs	4
			UL Max TTI TB	8
			UL Max TFS	16
			UL Max TF	32
			UL TC	Yes

			Other required UE radio access capability	None
18	Streaming / unknown / UL:0 DL:64 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH See Note 1	34.108 6.10.2.4.1.18	DL Max TB bits	3840
			DL Max CC TB bits	640
			DL Max TC TB bits	2560
			DL Max TrCHs	4
			DL Max CCTrCH	1
			DL Max TTI TB	16
			DL Max TFS	16
			DL Max TF	32
			DL TC	Yes
			UL Max TB bits	1280
			UL Max CC TB bits	640
			UL Max TC TB bits	640
			UL Max TrCHs	2
			UL Max TTI TB	2
			UL Max TFS	4
			UL Max TF	32
			UL TC	Yes
			Other required UE radio access capability	None
19	Streaming / unknown / UL:64 DL:0 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH See Note 1	34.108 6.10.2.4.1.19	DL Max TB bits	1280
			DL Max CC TB bits	640
			DL Max TC TB bits	640
			DL Max TrCHs	4
			DL Max CCTrCH	1
			DL Max TTI TB	4
			DL Max TFS	16
			DL Max TF	32
			DL TC	Yes
			UL Max TB bits	3840
			UL Max CC TB bits	640
			UL Max TC TB bits	2560
			UL Max TrCHs	2
			UL Max TTI TB	16
			UL Max TFS	16
			UL Max TF	32
			UL TC	Yes
			Other required UE radio access capability	None
20	Streaming / unknown / UL:0 DL:128 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH See Note 1	34.108 6.10.2.4.1.20	DL Max TB bits	6400
			DL Max CC TB bits	640
			DL Max TC TB bits	5120
			DL Max TrCHs	4
			DL Max CCTrCH	1
			DL Max TTI TB	32
			DL Max TFS	16
			DL Max TF	32
			DL TC	Yes
			UL Max TB bits	1280
			UL Max CC TB bits	640
			UL Max TC TB bits	640
			UL Max TrCHs	2
			UL Max TTI TB	2
			UL Max TFS	4
			UL Max TF	32
			UL TC	Yes
			Other required UE radio access capability	None
21	Streaming / unknown / UL:128 DL:0 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH See Note 1	34.108 6.10.2.4.1.21	DL Max TB bits	1280
			DL Max CC TB bits	640
			DL Max TC TB bits	640

			DL Max TrCHs	4
			DL Max CCTrCH	1
			DL Max TTI TB	4
			DL Max TFS	16
			DL Max TF	32
			DL TC	Yes
			UL Max TB bits	6400
			UL Max CC TB bits	640
			UL Max TC TB bits	5120
			UL Max TrCHs	2
			UL Max TTI TB	32
			UL Max TFS	16
			UL Max TF	32
			UL TC	Yes
			Other required UE radio access capability	None
22	Streaming / unknown / UL:0 DL:384 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH See Note 1	34.108 6.10.2.4.1.22	DL Max TB bits	20480
			DL Max CC TB bits	640
			DL Max TC TB bits	20480
			DL Max TrCHs	4
			DL Max CCTrCH	1
			DL Max TTI TB	64
			DL Max TFS	16
			DL Max TF	32
			DL TC	Yes
			UL Max TB bits	1280
			UL Max CC TB bits	640
			UL Max TC TB bits	640
			UL Max TrCHs	2
			UL Max TTI TB	2
			UL Max TFS	4
			UL Max TF	32
			UL TC	Yes
			Other required UE radio access capability	None
23.1	Interactive or background / UL:32 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH / (TC, 10 ms TTI)	34.108 6.10.2.4.1.23	DL Max TB bits	640
			DL Max CC TB bits	640
			DL Max TC TB bits	640
			DL Max TrCHs	4
			DL Max CCTrCH	1
			DL Max TTI TB	4
			DL Max TFS	16
			DL Max TF	32
			DL TC	Yes
			UL Max TB bits	640
			UL Max CC TB bits	640
			UL Max TC TB bits	640
			UL Max TrCHs	2
			UL Max TTI TB	2
			UL Max TFS	4
			UL Max TF	32
			UL TC	Yes
			Other required UE radio access capability	None
23.2	Interactive or background / UL:32 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH / (TC, 20 ms TTI)	34.108 6.10.2.4.1.23	DL Max TB bits	640
			DL Max CC TB bits	640
			DL Max TC TB bits	640
			DL Max TrCHs	4
			DL Max CCTrCH	1
			DL Max TTI TB	4
			DL Max TFS	16
			DL Max TF	32
			DL TC	Yes
			UL Max TB bits	1280

			UL Max CC TB bits	640
			UL Max TC TB bits	1280
			UL Max TrCHs	2
			UL Max TTI TB	4
			UL Max TFS	8
			UL Max TF	32
			UL TC	Yes
			Other required UE radio access capability	None
23.3	Interactive or background / UL:32 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH / (CC, 10 ms TTI)	34.108 6.10.2.4.1.23	DL Max TB bits	640
			DL Max CC TB bits	640
			DL Max TC TB bits	N/A
			DL Max TrCHs	4
			DL Max CCTrCH	1
			DL Max TTI TB	4
			DL Max TFS	16
			DL Max TF	32
			DL TC	N/A
			UL Max TB bits	640
			UL Max CC TB bits	640
			UL Max TC TB bits	N/A
			UL Max TrCHs	2
			UL Max TTI TB	2
			UL Max TFS	4
			UL Max TF	32
			UL TC	N/A
23.4	Interactive or background / UL:32 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH / (CC, 20 ms TTI)	34.108 6.10.2.4.1.23	DL Max TB bits	640
			DL Max CC TB bits	640
			DL Max TC TB bits	N/A
			DL Max TrCHs	4
			DL Max CCTrCH	1
			DL Max TTI TB	4
			DL Max TFS	16
			DL Max TF	32
			DL TC	N/A
			UL Max TB bits	1280
			UL Max CC TB bits	1280
			UL Max TC TB bits	N/A
			UL Max TrCHs	2
			UL Max TTI TB	4
			UL Max TFS	8
			UL Max TF	32
			UL TC	N/A
			Other required UE radio access capability	None
24.1	Interactive or background / UL:64 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH / TC	34.108 6.10.2.4.1.24	DL Max TB bits	640
			DL Max CC TB bits	640
			DL Max TC TB bits	640
			DL Max TrCHs	4
			DL Max CCTrCH	1
			DL Max TTI TB	4
			DL Max TFS	16
			DL Max TF	32
			DL TC	Yes
			UL Max TB bits	2560
			UL Max CC TB bits	640
			UL Max TC TB bits	2560
			UL Max TrCHs	2
			UL Max TTI TB	8
			UL Max TFS	16
			UL Max TF	32
			UL TC	Yes

			Other required UE radio access capability	None
24.2	Interactive or background / UL:64 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH / CC	34.108 6.10.2.4.1.24	DL Max TB bits	640
			DL Max CC TB bits	640
			DL Max TC TB bits	N/A
			DL Max TrCHs	4
			DL Max CCTrCH	1
			DL Max TTI TB	4
			DL Max TFS	16
			DL Max TF	32
			DL TC	N/A
			UL Max TB bits	2560
			UL Max CC TB bits	640
			UL Max TC TB bits	2560
			UL Max TrCHs	2
			UL Max TTI TB	8
			UL Max TFS	16
			UL Max TF	32
			UL TC	Yes
			Other required UE radio access capability	None
25.1	Interactive or background / UL:32 DL: 64 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH/ (TC, 10 ms TTI)	34.108 6.10.2.4.1.25	DL Max TB bits	2560
			DL Max CC TB bits	640
			DL Max TC TB bits	2560
			DL Max TrCHs	4
			DL Max CCTrCH	1
			DL Max TTI TB	8
			DL Max TFS	16
			DL Max TF	32
			DL TC	Yes
			UL Max TB bits	640
			UL Max CC TB bits	640
			UL Max TC TB bits	640
			UL Max TrCHs	2
			UL Max TTI TB	2
			UL Max TFS	4
			UL Max TF	32
			UL TC	Yes
			Other required UE radio access capability	None
25.2	Interactive or background / UL:32 DL: 64 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH / (TC, 20 ms TTI)	34.108 6.10.2.4.1.25	DL Max TB bits	2560
			DL Max CC TB bits	640
			DL Max TC TB bits	2560
			DL Max TrCHs	4
			DL Max CCTrCH	1
			DL Max TTI TB	8
			DL Max TFS	16
			DL Max TF	32
			DL TC	Yes
			UL Max TB bits	1280
			UL Max CC TB bits	640
			UL Max TC TB bits	1280
			UL Max TrCHs	2
			UL Max TTI TB	4
			UL Max TFS	8
			UL Max TF	32
			UL TC	Yes
			Other required UE radio access capability	None
25.3	Interactive or background / UL:32 DL: 64 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH / (CC, 10 ms TTI)	34.108 6.10.2.4.1.25	DL Max TB bits	2560
			DL Max CC TB bits	640
			DL Max TC TB bits	2560

			DL Max TrCHs	4
			DL Max CCTrCH	1
			DL Max TTI TB	8
			DL Max TFS	16
			DL Max TF	32
			DL TC	Yes
			UL Max TB bits	640
			UL Max CC TB bits	640
			UL Max TC TB bits	N/A
			UL Max TrCHs	2
			UL Max TTI TB	2
			UL Max TFS	4
			UL Max TF	32
			UL TC	Yes
			Other required UE radio access capability	None
25.4	Interactive or background / UL:32 DL: 64 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH / (CC, 20 ms TTI)	34.108 6.10.2.4.1.25	DL Max TB bits	2560
			DL Max CC TB bits	640
			DL Max TC TB bits	2560
			DL Max TrCHs	4
			DL Max CCTrCH	1
			DL Max TTI TB	8
			DL Max TFS	16
			DL Max TF	32
			DL TC	Yes
			UL Max TB bits	1280
			UL Max CC TB bits	1280
			UL Max TC TB bits	N/A
			UL Max TrCHs	2
			UL Max TTI TB	4
			UL Max TFS	8
			UL Max TF	32
			UL TC	Yes
			Other required UE radio access capability	None
26	Interactive or background / UL:64 DL: 64 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH	34.108 6.10.2.4.1.26	DL Max TB bits	2560
			DL Max CC TB bits	640
			DL Max TC TB bits	2560
			DL Max TrCHs	4
			DL Max CCTrCH	1
			DL Max TTI TB	8
			DL Max TFS	16
			DL Max TF	32
			DL TC	Yes
			UL Max TB bits	2560
			UL Max CC TB bits	640
			UL Max TC TB bits	2560
			UL Max TrCHs	2
			UL Max TTI TB	8
			UL Max TFS	16
			UL Max TF	32
			UL TC	Yes
			Other required UE radio access capability	None
27	Interactive or background / UL:64 DL:128 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH	34.108 6.10.2.4.1.27	DL Max TB bits	3840
			DL Max CC TB bits	640
			DL Max TC TB bits	3840
			DL Max TrCHs	4
			DL Max CCTrCH	1
			DL Max TTI TB	16
			DL Max TFS	16
			DL Max TF	32
			DL TC	Yes
			UL Max TB bits	2560

			UL Max CC TB bits	640
			UL Max TC TB bits	2560
			UL Max TrCHs	2
			UL Max TTI TB	8
			UL Max TFS	16
			UL Max TF	32
			UL TC	Yes
			Other required UE radio access capability	None
28	Interactive or background / UL:128 DL:128 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH	34.108 6.10.2. .4.1.28	DL Max TB bits	3840
			DL Max CC TB bits	640
			DL Max TC TB bits	3840
			DL Max TrCHs	4
			DL Max CCTrCH	1
			DL Max TTI TB	16
			DL Max TFS	16
			DL Max TF	32
			DL TC	Yes
			UL Max TB bits	3840
			UL Max CC TB bits	640
			UL Max TC TB bits	3840
			UL Max TrCHs	2
			UL Max TTI TB	16
			UL Max TFS	16
			UL Max TF	32
			UL TC	Yes
			Other required UE radio access capability	None
29	Interactive or background / UL:64 DL:144 kbps / PS RAB + UL:3.4 DL: 3.4 kbps SRBs for DCCH	34.108 6.10.2.4.1.29	DL Max TB bits	3840
			DL Max CC TB bits	640
			DL Max TC TB bits	3840
			DL Max TrCHs	4
			DL Max CCTrCH	1
			DL Max TTI TB	16
			DL Max TFS	16
			DL Max TF	32
			DL TC	Yes
			UL Max TB bits	2560
			UL Max CC TB bits	640
			UL Max TC TB bits	2560
			UL Max TrCHs	2
			UL Max TTI TB	8
			UL Max TFS	16
			UL Max TF	32
			UL TC	Yes
			Other required UE radio access capability	None
30	Interactive or background / UL:144 DL:144 kbps / PS RAB + UL:3.4 DL: 3.4 kbps SRBs for DCCH	34.108 6.10.2.4.1.30	DL Max TB bits	3840
			DL Max CC TB bits	640
			DL Max TC TB bits	3840
			DL Max TrCHs	4
			DL Max CCTrCH	1
			DL Max TTI TB	16
			DL Max TFS	16
			DL Max TF	32
			DL TC	Yes
			UL Max TB bits	3840
			UL Max CC TB bits	640
			UL Max TC TB bits	3840
			UL Max TrCHs	2
			UL Max TTI TB	16
			UL Max TFS	16
			UL Max TF	32
			UL TC	Yes

			Other required UE radio access capability	None
31.1	Interactive or background / UL:64 DL:256 kbps / PS RAB + UL:3.4 DL: 3.4 kbps SRBs for DCCH /10 ms TTI	34.108 6.10.2.4.1.31	DL Max TB bits	3840
			DL Max CC TB bits	640
			DL Max TC TB bits	3840
			DL Max TrCHs	4
			DL Max CCTrCH	1
			DL Max TTI TB	16
			DL Max TFS	16
			DL Max TF	32
			DL TC	Yes
			UL Max TB bits	2560
			UL Max CC TB bits	640
			UL Max TC TB bits	2560
			UL Max TrCHs	2
			UL Max TTI TB	8
			UL Max TFS	16
			UL Max TF	32
			UL TC	Yes
			Other required UE radio access capability	None
31.2	Interactive or background / UL:64 DL:256 kbps / PS RAB + UL:3.4 DL: 3.4 kbps SRBs for DCCH /20 ms TTI	34.108 6.10.2.4.1.31	DL Max TB bits	6400
			DL Max CC TB bits	640
			DL Max TC TB bits	6400
			DL Max TrCHs	4
			DL Max CCTrCH	1
			DL Max TTI TB	32
			DL Max TFS	16
			DL Max TF	32
			DL TC	Yes
			UL Max TB bits	2560
			UL Max CC TB bits	640
			UL Max TC TB bits	2560
			UL Max TrCHs	2
			UL Max TTI TB	8
			UL Max TFS	16
			UL Max TF	32
			UL TC	Yes
			Other required UE radio access capability	None
32.1	Interactive or background / UL:64 DL:384 kbps / PS RAB + UL:3.4 DL: 3.4 kbps SRBs for DCCH / 10 ms TTI	34.108 6.10.2.4.1.32	DL Max TB bits	5120
			DL Max CC TB bits	640
			DL Max TC TB bits	5120
			DL Max TrCHs	4
			DL Max CCTrCH	1
			DL Max TTI TB	16
			DL Max TFS	16
			DL Max TF	32
			DL TC	Yes
			UL Max TB bits	2560
			UL Max CC TB bits	640
			UL Max TC TB bits	2560
			UL Max TrCHs	2
			UL Max TTI TB	8
			UL Max TFS	16
			UL Max TF	32
			UL TC	Yes
			Other required UE radio access capability	None
32.2	Interactive or background / UL:64 DL:384 kbps / PS RAB + UL:3.4 DL: 3.4 kbps SRBs for DCCH / 20 ms TTI	34.108 6.10.2.4.1.32	DL Max TB bits	8960
			DL Max CC TB bits	640
			DL Max TC TB bits	8960

			DL Max TrCHs	4
			DL Max CCTrCH	1
			DL Max TTI TB	32
			DL Max TFS	32
			DL Max TF	32
			DL TC	Yes
			UL Max TB bits	2560
			UL Max CC TB bits	640
			UL Max TC TB bits	2560
			UL Max TrCHs	2
			UL Max TTI TB	8
			UL Max TFS	16
			UL Max TF	32
			UL TC	Yes
			Other required UE radio access capability	None
33.1	Interactive or background / UL:128 DL:384 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH / 10 ms TTI	34.108 6.10.2.4.1.33	DL Max TB bits	5120
			DL Max CC TB bits	640
			DL Max TC TB bits	5120
			DL Max TrCHs	4
			DL Max CCTrCH	1
			DL Max TTI TB	16
			DL Max TFS	16
			DL Max TF	32
			DL TC	Yes
			UL Max TB bits	3840
			UL Max CC TB bits	640
			UL Max TC TB bits	3840
			UL Max TrCHs	2
			UL Max TTI TB	16
			UL Max TFS	16
			UL Max TF	32
			UL TC	Yes
			Other required UE radio access capability	None
33.2	Interactive or background / UL:128 DL:384 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH / 20 ms TTI	34.108 6.10.2.4.1.33	DL Max TB bits	8960
			DL Max CC TB bits	640
			DL Max TC TB bits	8960
			DL Max TrCHs	4
			DL Max CCTrCH	1
			DL Max TTI TB	32
			DL Max TFS	32
			DL Max TF	32
			DL TC	Yes
			UL Max TB bits	3840
			UL Max CC TB bits	640
			UL Max TC TB bits	3840
			UL Max TrCHs	2
			UL Max TTI TB	16
			UL Max TFS	16
			UL Max TF	32
			UL TC	Yes
			Other required UE radio access capability	None
34.1	Interactive or background / UL:384 DL:384 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH / 10 ms TTI	34.108 6.10.2.4.1.34	DL Max TB bits	5120
			DL Max CC TB bits	640
			DL Max TC TB bits	5120
			DL Max TrCHs	4
			DL Max CCTrCH	1
			DL Max TTI TB	16
			DL Max TFS	16
			DL Max TF	32
			DL TC	Yes
			UL Max TB bits	5120

			UL Max CC TB bits	640
			UL Max TC TB bits	5120
			UL Max TrCHs	2
			UL Max TTI TB	16
			UL Max TFS	16
			UL Max TF	32
			UL TC	Yes
			Other required UE radio access capability	None
34.2	Interactive or background / UL:384 DL:384 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH / 20 ms TTI	34.108 6.10.2.4.1.34	DL Max TB bits	8960
			DL Max CC TB bits	640
			DL Max TC TB bits	8960
			DL Max TrCHs	4
			DL Max CCTrCH	1
			DL Max TTI TB	32
			DL Max TFS	32
			DL Max TF	32
			DL TC	Yes
			UL Max TB bits	8960
			UL Max CC TB bits	640
			UL Max TC TB bits	8960
			UL Max TrCHs	2
			UL Max TTI TB	32
			UL Max TFS	32
			UL Max TF	32
			UL TC	Yes
			Other required UE radio access capability	None
35.1	Interactive or background / UL:64 DL:2048 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH / 10 ms TTI	34.108 6.10.2.4.1.35	DL Max TB bits	40960
			DL Max CC TB bits	640
			DL Max TC TB bits	40960
			DL Max TrCHs	4
			DL Max CCTrCH	1
			DL Max TTI TB	64
			DL Max TFS	32
			DL Max TF	32
			DL TC	Yes
			UL Max TB bits	2560
			UL Max CC TB bits	640
			UL Max TC TB bits	2560
			UL Max TrCHs	2
			UL Max TTI TB	8
			UL Max TFS	16
			UL Max TF	32
			UL TC	Yes
			Other required UE radio access capability	None
35.2	Interactive or background / UL:64 DL:2048 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH / 20 ms TTI	34.108 6.10.2.4.1.35	DL Max TB bits	81920
			DL Max CC TB bits	640
			DL Max TC TB bits	81920
			DL Max TrCHs	4
			DL Max CCTrCH	1
			DL Max TTI TB	96
			DL Max TFS	64
			DL Max TF	32
			DL TC	Yes
			UL Max TB bits	2560
			UL Max CC TB bits	640
			UL Max TC TB bits	2560
			UL Max TrCHs	2
			UL Max TTI TB	8
			UL Max TFS	16
			UL Max TF	32
			UL TC	Yes

			Other required UE radio access capability	None
36.1	Interactive or background / UL:128 DL:2048 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH / 10 ms TTI	34.108 6.10.2.4.1.36	DL Max TB bits	40960
			DL Max CC TB bits	640
			DL Max TC TB bits	40960
			DL Max TrCHs	4
			DL Max CCTrCH	1
			DL Max TTI TB	64
			DL Max TFS	32
			DL Max TF	32
			DL TC	Yes
			UL Max TB bits	3840
			UL Max CC TB bits	640
			UL Max TC TB bits	3840
			UL Max TrCHs	2
			UL Max TTI TB	16
			UL Max TFS	16
			UL Max TF	32
			UL TC	Yes
			Other required UE radio access capability	None
36.2	Interactive or background / UL:128 DL:2048 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH / 20 ms TTI	34.108 6.10.2.4.1.36	DL Max TB bits	81920
			DL Max CC TB bits	640
			DL Max TC TB bits	81920
			DL Max TrCHs	4
			DL Max CCTrCH	1
			DL Max TTI TB	96
			DL Max TFS	64
			DL Max TF	32
			DL TC	Yes
			UL Max TB bits	3840
			UL Max CC TB bits	640
			UL Max TC TB bits	3840
			UL Max TrCHs	2
			UL Max TTI TB	16
			UL Max TFS	16
			UL Max TF	32
			UL TC	Yes
			Other required UE radio access capability	None
37.1	Interactive or background / UL:384 DL:2048 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH / 10 ms TTI	34.108 6.10.2.4.1.37	DL Max TB bits	40960
			DL Max CC TB bits	640
			DL Max TC TB bits	40960
			DL Max TrCHs	4
			DL Max CCTrCH	1
			DL Max TTI TB	64
			DL Max TFS	32
			DL Max TF	32
			DL TC	Yes
			UL Max TB bits	5120
			UL Max CC TB bits	640
			UL Max TC TB bits	5120
			UL Max TrCHs	2
			UL Max TTI TB	16
			UL Max TFS	16
			UL Max TF	32
			UL TC	Yes
			Other required UE radio access capability	None
37.2	Interactive or background / UL:384 DL:2048 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH / 20 ms TTI	34.108 6.10.2.4.1.37	DL Max TB bits	81920
			DL Max CC TB bits	640
			DL Max TC TB bits	81920

			DL Max TrCHs	4
			DL Max CCTrCH	1
			DL Max TTI TB	96
			DL Max TFS	64
			DL Max TF	32
			DL TC	Yes
			UL Max TB bits	8960
			UL Max CC TB bits	640
			UL Max TC TB bits	8960
			UL Max TrCHs	2
			UL Max TTI TB	32
			UL Max TFS	32
			UL Max TF	32
			UL TC	Yes
			Other required UE radio access capability	None
38.1	Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:32 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH / (TC, 20 ms TTI	34.108 6.10.2.4.1.38	DL Max TB bits	1280
			DL Max CC TB bits	640
			DL Max TC TB bits	640
			DL Max TrCHs	8
			DL Max CCTrCH	1
			DL Max TTI TB	8
			DL Max TFS	16
			DL Max TF	32
			DL TC	Yes
			UL Max TB bits	1280
			UL Max CC TB bits	640
			UL Max TC TB bits	1280
			UL Max TrCHs	8
			UL Max TTI TB	8
			UL Max TFS	16
			UL Max TF	32
			UL TC	Yes
			Other required UE radio access capability	Simultaneous CS and PS bearer services
38.2	Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:32 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH / (TC, 10 ms TTI	34.108 6.10.2.4.1.38	DL Max TB bits	1280
			DL Max CC TB bits	640
			DL Max TC TB bits	640
			DL Max TrCHs	8
			DL Max CCTrCH	1
			DL Max TTI TB	8
			DL Max TFS	16
			DL Max TF	32
			DL TC	Yes
			UL Max TB bits	1280
			UL Max CC TB bits	640
			UL Max TC TB bits	640
			UL Max TrCHs	8
			UL Max TTI TB	8
			UL Max TFS	32
			UL Max TF	32
			UL TC	Yes
			Other required UE radio access capability	Simultaneous CS and PS bearer services
38.3	Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:32 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH / (CC, 10 ms TTI	34.108 6.10.2.4.1.38	DL Max TB bits	1280
			DL Max CC TB bits	1280
			DL Max TC TB bits	N/A
			DL Max TrCHs	8
			DL Max CCTrCH	1
			DL Max TTI TB	8
			DL Max TFS	16
			DL Max TF	32
			DL TC	N/A
			UL Max TB bits	1280

			UL Max CC TB bits	1280
			UL Max TC TB bits	N/A
			UL Max TrCHs	8
			UL Max TTI TB	8
			UL Max TFS	16
			UL Max TF	32
			UL TC	Yes
			Other required UE radio access capability	Simultaneous CS and PS bearer services
38.4	Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:32 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH / (CC, 20 ms TTI	34.108 6.10.2.4.1.38	DL Max TB bits	1280
			DL Max CC TB bits	1280
			DL Max TC TB bits	N/A
			DL Max TrCHs	8
			DL Max CCTrCH	1
			DL Max TTI TB	8
			DL Max TFS	16
			DL Max TF	32
			DL TC	Yes
			UL Max TB bits	1280
			UL Max CC TB bits	1280
			UL Max TC TB bits	N/A
			UL Max TrCHs	8
			UL Max TTI TB	8
			UL Max TFS	32
			UL Max TF	32
			UL TC	Yes
			Other required UE radio access capability	Simultaneous CS and PS bearer services
39.1	Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:32 DL:64 kbps / PS RAB+ UL:3.4 DL: 3.4 kbps SRBs for DCCH / (TC, 10 ms TTI)	34.108 6.10.2.4.1.39	DL Max TB bits	2560
			DL Max CC TB bits	640
			DL Max TC TB bits	2560
			DL Max TrCHs	8
			DL Max CCTrCH	1
			DL Max TTI TB	8
			DL Max TFS	32
			DL Max TF	32
			DL TC	Yes
			UL Max TB bits	1280
			UL Max CC TB bits	640
			UL Max TC TB bits	640
			UL Max TrCHs	8
			UL Max TTI TB	8
			UL Max TFS	32
			UL Max TF	32
			UL TC	Yes
			Other required UE radio access capability	Simultaneous CS and PS bearer services
39.2	Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:32 DL:64 kbps / PS RAB+ UL:3.4 DL: 3.4 kbps SRBs for DCCH / (TC, 20 ms TTI)	34.108 6.10.2.4.1.39	DL Max TB bits	2560
			DL Max CC TB bits	640
			DL Max TC TB bits	2560
			DL Max TrCHs	8
			DL Max CCTrCH	1
			DL Max TTI TB	8
			DL Max TFS	32
			DL Max TF	32
			DL TC	Yes
			UL Max TB bits	1280
			UL Max CC TB bits	640
			UL Max TC TB bits	1280
			UL Max TrCHs	8
			UL Max TTI TB	8
			UL Max TFS	32
			UL Max TF	32
			UL TC	Yes

			Other required UE radio access capability	Simultaneous CS and PS bearer services
39.3	Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:32 DL:64 kbps / PS RAB+ UL:3.4 DL: 3.4 kbps SRBs for DCCH / (CC, 10 ms TTI)	34.108 6.10.2.4.1.39	DL Max TB bits	2560
			DL Max CC TB bits	640
			DL Max TC TB bits	2560
			DL Max TrCHs	8
			DL Max CCTrCH	1
			DL Max TTI TB	8
			DL Max TFS	32
			DL Max TF	32
			DL TC	Yes
			UL Max TB bits	1280
			UL Max CC TB bits	1280
			UL Max TC TB bits	N/A
			UL Max TrCHs	8
			UL Max TTI TB	8
			UL Max TFS	32
			UL Max TF	32
			UL TC	Yes
			Other required UE radio access capability	Simultaneous CS and PS bearer services
39.4	Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:32 DL:64 kbps / PS RAB+ UL:3.4 DL: 3.4 kbps SRBs for DCCH / (CC, 20 ms TTI)	34.108 6.10.2.4.1.39	DL Max TB bits	2560
			DL Max CC TB bits	640
			DL Max TC TB bits	2560
			DL Max TrCHs	8
			DL Max CCTrCH	1
			DL Max TTI TB	8
			DL Max TFS	32
			DL Max TF	32
			DL TC	Yes
			UL Max TB bits	1280
			UL Max CC TB bits	1280
			UL Max TC TB bits	N/A
			UL Max TrCHs	8
			UL Max TTI TB	8
			UL Max TFS	16
			UL Max TF	32
			UL TC	Yes
			Other required UE radio access capability	Simultaneous CS and PS bearer services
40	Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:64 DL:64 kbps / PS RAB+ UL:3.4 DL: 3.4 kbps SRBs for DCCH	34.108 6.10.2.4.1.40	DL Max TB bits	2560
			DL Max CC TB bits	640
			DL Max TC TB bits	2560
			DL Max TrCHs	8
			DL Max CCTrCH	1
			DL Max TTI TB	8
			DL Max TFS	32
			DL Max TF	32
			DL TC	Yes
			UL Max TB bits	2560
			UL Max CC TB bits	640
			UL Max TC TB bits	2560
			UL Max TrCHs	8
			UL Max TTI TB	8
			UL Max TFS	32
			UL Max TF	32
			UL TC	Yes
			Other required UE radio access capability	Simultaneous CS and PS bearer services
41	Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:64 DL:128 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH	34.108 6.10.2.4.1.41	DL Max TB bits	3840
			DL Max CC TB bits	640
			DL Max TC TB bits	3840

			DL Max TrCHs	8
			DL Max CCTrCH	1
			DL Max TTI TB	16
			DL Max TFS	32
			DL Max TF	32
			DL TC	Yes
			UL Max TB bits	2560
			UL Max CC TB bits	640
			UL Max TC TB bits	2560
			UL Max TrCHs	8
			UL Max TTI TB	8
			UL Max TFS	32
			UL Max TF	32
			UL TC	Yes
			Other required UE radio access capability	Simultaneous CS and PS bearer services
42.1	Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:64 DL:256 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH / 10 ms TTI	34.108 6.10.2.4.1.42	DL Max TB bits	3840
			DL Max CC TB bits	640
			DL Max TC TB bits	3840
			DL Max TrCHs	8
			DL Max CCTrCH	1
			DL Max TTI TB	16
			DL Max TFS	32
			DL Max TF	32
			DL TC	Yes
			UL Max TB bits	2560
			UL Max CC TB bits	640
			UL Max TC TB bits	2560
			UL Max TrCHs	8
			UL Max TTI TB	8
			UL Max TFS	32
			UL Max TF	32
			UL TC	Yes
			Other required UE radio access capability	Simultaneous CS and PS bearer services
42.2	Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:64 DL:256 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH / 20 ms TTI	34.108 6.10.2.4.1.42	DL Max TB bits	6400
			DL Max CC TB bits	640
			DL Max TC TB bits	6400
			DL Max TrCHs	8
			DL Max CCTrCH	1
			DL Max TTI TB	32
			DL Max TFS	64
			DL Max TF	32
			DL TC	Yes
			UL Max TB bits	2560
			UL Max CC TB bits	640
			UL Max TC TB bits	2560
			UL Max TrCHs	8
			UL Max TTI TB	8
			UL Max TFS	32
			UL Max TF	32
			UL TC	Yes
			Other required UE radio access capability	Simultaneous CS and PS bearer services
43.1	Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:64 DL:384 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH / 10 ms TTI	34.108 6.10.2.4.1.43	DL Max TB bits	5120
			DL Max CC TB bits	640
			DL Max TC TB bits	4120
			DL Max TrCHs	8
			DL Max CCTrCH	1
			DL Max TTI TB	16
			DL Max TFS	64
			DL Max TF	32
			DL TC	Yes
			UL Max TB bits	2560

			UL Max CC TB bits	640
			UL Max TC TB bits	2560
			UL Max TrCHs	8
			UL Max TTI TB	8
			UL Max TFS	32
			UL Max TF	32
			UL TC	Yes
			Other required UE radio access capability	Simultaneous CS and PS bearer services
43.2	Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:64 DL:384 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH / 20 ms TTI	34.108 6.10.2.4.1.43	DL Max TB bits	8960
			DL Max CC TB bits	640
			DL Max TC TB bits	8960
			DL Max TrCHs	8
			DL Max CCTrCH	1
			DL Max TTI TB	32
			DL Max TFS	64
			DL Max TF	32
			DL TC	Yes
			UL Max TB bits	2560
			UL Max CC TB bits	640
			UL Max TC TB bits	2560
			UL Max TrCHs	8
			UL Max TTI TB	8
			UL Max TFS	32
			UL Max TF	32
			UL TC	Yes
			Other required UE radio access capability	Simultaneous CS and PS bearer services
44.1	Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:128 DL:2048 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH / 10 ms TTI	34.108 6.10.2.4.1.44	DL Max TB bits	40960
			DL Max CC TB bits	640
			DL Max TC TB bits	40960
			DL Max TrCHs	8
			DL Max CCTrCH	1
			DL Max TTI TB	64
			DL Max TFS	96
			DL Max TF	32
			DL TC	Yes
			UL Max TB bits	3840
			UL Max CC TB bits	640
			UL Max TC TB bits	3840
			UL Max TrCHs	8
			UL Max TTI TB	16
			UL Max TFS	32
			UL Max TF	32
			UL TC	Yes
			Other required UE radio access capability	Simultaneous CS and PS bearer services
44.2	Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:128 DL:2048 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH / 20 ms TTI	34.108 6.10.2.4.1.44	DL Max TB bits	81920
			DL Max CC TB bits	640
			DL Max TC TB bits	81920
			DL Max TrCHs	8
			DL Max CCTrCH	1
			DL Max TTI TB	96
			DL Max TFS	128
			DL Max TF	32
			DL TC	Yes
			UL Max TB bits	3840
			UL Max CC TB bits	640
			UL Max TC TB bits	3840
			UL Max TrCHs	8
			UL Max TTI TB	16
			UL Max TFS	32
			UL Max TF	32
			UL TC	Yes

			Other required UE radio access capability	Simultaneous CS and PS bearer services
45	Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Streaming / unknown / UL:57.6 DL:57.6 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH	34.108 6.10.2.4.1.45	DL Max TB bits	3840
			DL Max CC TB bits	640
			DL Max TC TB bits	2560
			DL Max TrCHs	8
			DL Max CCTrCH	1
			DL Max TTI TB	8
			DL Max TFS	32
			DL Max TF	32
			DL TC	Yes
			UL Max TB bits	3840
			UL Max CC TB bits	640
			UL Max TC TB bits	2560
			UL Max TrCHs	8
			UL Max TTI TB	8
			UL Max TFS	32
			UL Max TF	32
			UL TC	Yes
			Other required UE radio access capability	Simultaneous CS and PS bearer services
46	Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Streaming / unknown / UL:0 DL:64 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH See note 1	34.108 6.10.2.4.1.46	DL Max TB bits	3840
			DL Max CC TB bits	640
			DL Max TC TB bits	2560
			DL Max TrCHs	8
			DL Max CCTrCH	1
			DL Max TTI TB	16
			DL Max TFS	32
			DL Max TF	32
			DL TC	Yes
			UL Max TB bits	1280
			UL Max CC TB bits	640
			UL Max TC TB bits	640
			UL Max TrCHs	8
			UL Max TTI TB	8
			UL Max TFS	32
			UL Max TF	32
			UL TC	Yes
			Other required UE radio access capability	Simultaneous CS and PS bearer services
47	Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Streaming / unknown / UL:0 DL:128 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH See note 1	34.108 6.10.2.4.1.47	DL Max TB bits	6400
			DL Max CC TB bits	640
			DL Max TC TB bits	6400
			DL Max TrCHs	8
			DL Max CCTrCH	1
			DL Max TTI TB	32
			DL Max TFS	48
			DL Max TF	32
			DL TC	Yes
			UL Max TB bits	1280
			UL Max CC TB bits	640
			UL Max TC TB bits	640
			UL Max TrCHs	8
			UL Max TTI TB	8
			UL Max TFS	16
			UL Max TF	32
			UL TC	Yes
			Other required UE radio access capability	Simultaneous CS and PS bearer services
48	Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Streaming / unknown / UL:0 DL:384 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH See note 1	34.108 6.10.2.4.1.48	DL Max TB bits	20480
			DL Max CC TB bits	640
			DL Max TC TB bits	20480

			DL Max TrCHs	8
			DL Max CCTrCH	1
			DL Max TTI TB	64
			DL Max TFS	48
			DL Max TF	32
			DL TC	Yes
			UL Max TB bits	1280
			UL Max CC TB bits	640
			UL Max TC TB bits	640
			UL Max TrCHs	8
			UL Max TTI TB	8
			UL Max TFS	16
			UL Max TF	32
			UL TC	Yes
			Other required UE radio access capability	Simultaneous CS and PS bearer services
49.1	Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Conversational / unknown / UL:64 DL:64 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH / 20 ms TTI	34.108 6.10.2.4.1.49	DL Max TB bits	2560
			DL Max CC TB bits	640
			DL Max TC TB bits	1280
			DL Max TrCHs	8
			DL Max CCTrCH	1
			DL Max TTI TB	8
			DL Max TFS	16
			DL Max TF	32
			DL TC	Yes
			UL Max TB bits	2560
			UL Max CC TB bits	640
			UL Max TC TB bits	1280
			UL Max TrCHs	8
			UL Max TTI TB	8
			UL Max TFS	16
			UL Max TF	32
			UL TC	Yes
			Other required UE radio access capability	Multicall (2xCS)
49.2	Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Conversational / unknown / UL:64 DL:64 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH / 40 ms TTI	34.108 6.10.2.4.1.49	DL Max TB bits	3840
			DL Max CC TB bits	640
			DL Max TC TB bits	2560
			DL Max TrCHs	8
			DL Max CCTrCH	1
			DL Max TTI TB	8
			DL Max TFS	16
			DL Max TF	32
			DL TC	Yes
			UL Max TB bits	3840
			UL Max CC TB bits	640
			UL Max TC TB bits	2560
			UL Max TrCHs	8
			UL Max TTI TB	8
			UL Max TFS	16
			UL Max TF	32
			UL TC	Yes
			Other required UE radio access capability	Multicall (2xCS)
50.1	Conversational / unknown / UL:64 DL:64 kbps / CS RAB + Conversational / unknown / UL:64 DL:64 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH / 20 ms TTI	34.108 6.10.2.4.1.50	DL Max TB bits	3840
			DL Max CC TB bits	640
			DL Max TC TB bits	2560
			DL Max TrCHs	4
			DL Max CCTrCH	1
			DL Max TTI TB	8
			DL Max TFS	16
			DL Max TF	32
			DL TC	Yes
			UL Max TB bits	3840

			UL Max CC TB bits	640
			UL Max TC TB bits	2560
			UL Max TrCHs	4
			UL Max TTI TB	8
			UL Max TFS	8
			UL Max TF	32
			UL TC	Yes
			Other required UE radio access capability	Multicall (2xCS)
50.2	Conversational / unknown / UL:64 DL:64 kbps / CS RAB + Conversational / unknown / UL:64 DL:64 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH / 40 ms TTI	34.108 6.10.2.4.1.50	DL Max TB bits	6400
			DL Max CC TB bits	640
			DL Max TC TB bits	2560
			DL Max TrCHs	4
			DL Max CCTrCH	1
			DL Max TTI TB	16
			DL Max TFS	16
			DL Max TF	32
			DL TC	Yes
			UL Max TB bits	6400
			UL Max CC TB bits	640
			UL Max TC TB bits	5120
			UL Max TrCHs	4
			UL Max TTI TB	16
			UL Max TFS	8
			UL Max TF	32
			UL TC	Yes
			Other required UE radio access capability	Multicall (2xCS)
51.1	Conversational / unknown / UL:64 DL:64 kbps / CS RAB / 20 ms TTI + Interactive or background / UL:64 DL:64 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH	34.108 6.10.2.4.1.51	DL Max TB bits	3840
			DL Max CC TB bits	640
			DL Max TC TB bits	3840
			DL Max TrCHs	4
			DL Max CCTrCH	1
			DL Max TTI TB	8
			DL Max TFS	32
			DL Max TF	32
			DL TC	Yes
			UL Max TB bits	3840
			UL Max CC TB bits	640
			UL Max TC TB bits	3840
			UL Max TrCHs	4
			UL Max TTI TB	8
			UL Max TFS	32
			UL Max TF	32
			UL TC	Yes
			Other required UE radio access capability	Simultaneous CS and PS bearer services
51.2	Conversational / unknown / UL:64 DL:64 kbps / CS RAB / 40 ms TTI + Interactive or background / UL:64 DL:64 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH	34.108 6.10.2.4.1.51	DL Max TB bits	5120
			DL Max CC TB bits	640
			DL Max TC TB bits	5120
			DL Max TrCHs	4
			DL Max CCTrCH	1
			DL Max TTI TB	16
			DL Max TFS	32
			DL Max TF	32
			DL TC	Yes
			UL Max TB bits	5120
			UL Max CC TB bits	640
			UL Max TC TB bits	5120
			UL Max TrCHs	4
			UL Max TTI TB	16
			UL Max TFS	32
			UL Max TF	32
			UL TC	Yes

			Other required UE radio access capability	Simultaneous CS and PS bearer services
52.1	Conversational / unknown / UL:64 DL:64 kbps / CS RAB / 20 ms TTI + Interactive or background / UL:64 DL:128 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH	34.108 6.10.2.4.1.52	DL Max TB bits	5120
			DL Max CC TB bits	640
			DL Max TC TB bits	5120
			DL Max TrCHs	4
			DL Max CCTrCH	1
			DL Max TTI TB	16
			DL Max TFS	32
			DL Max TF	32
			DL TC	Yes
			UL Max TB bits	3840
			UL Max CC TB bits	640
			UL Max TC TB bits	3840
			UL Max TrCHs	4
			UL Max TTI TB	8
			UL Max TFS	32
			UL Max TF	32
			UL TC	Yes
			Other required UE radio access capability	Simultaneous CS and PS bearer services
52.2	Conversational / unknown / UL:64 DL:64 kbps / CS RAB / 40 ms TTI + Interactive or background / UL:64 DL:128 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH	34.108 6.10.2.4.1.52	DL Max TB bits	6400
			DL Max CC TB bits	640
			DL Max TC TB bits	6400
			DL Max TrCHs	4
			DL Max CCTrCH	1
			DL Max TTI TB	16
			DL Max TFS	32
			DL Max TF	32
			DL TC	Yes
			UL Max TB bits	5120
			UL Max CC TB bits	640
			UL Max TC TB bits	5120
			UL Max TrCHs	4
			UL Max TTI TB	16
			UL Max TFS	32
			UL Max TF	32
			UL TC	Yes
			Other required UE radio access capability	Simultaneous CS and PS bearer services
53.1	Conversational / unknown / UL:64 DL:64 kbps / CS RAB / 20 ms TTI + Interactive or background / UL:128 DL:128 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH	34.108 6.10.2.4.1.53	DL Max TB bits	5120
			DL Max CC TB bits	640
			DL Max TC TB bits	5120
			DL Max TrCHs	4
			DL Max CCTrCH	1
			DL Max TTI TB	16
			DL Max TFS	32
			DL Max TF	32
			DL TC	Yes
			UL Max TB bits	5120
			UL Max CC TB bits	640
			UL Max TC TB bits	5120
			UL Max TrCHs	4
			UL Max TTI TB	16
			UL Max TFS	32
			UL Max TF	32
			UL TC	Yes
			Other required UE radio access capability	Simultaneous CS and PS bearer services
53.2	Conversational / unknown / UL:64 DL:64 kbps / CS RAB / 40 ms TTI + Interactive or background / UL:128 DL:128 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH	34.108 6.10.2.4.1.53	DL Max TB bits	6400
			DL Max CC TB bits	640
			DL Max TC TB bits	6400

			DL Max TrCHs	4
			DL Max CCTrCH	1
			DL Max TTI TB	16
			DL Max TFS	32
			DL Max TF	32
			DL TC	Yes
			UL Max TB bits	6400
			UL Max CC TB bits	640
			UL Max TC TB bits	6400
			UL Max TrCHs	4
			UL Max TTI TB	16
			UL Max TFS	32
			UL Max TF	32
			UL TC	Yes
			Other required UE radio access capability	Simultaneous CS and PS bearer services
54	Interactive or background / UL:64 DL:128 kbps / PS RAB + Streaming / unknown / UL:0 DL:64 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH See Note 1	34.108 6.10.2.4.1.54	DL Max TB bits	5120
			DL Max CC TB bits	640
			DL Max TC TB bits	5120
			DL Max TrCHs	4
			DL Max CCTrCH	1
			DL Max TTI TB	16
			DL Max TFS	64
			DL Max TF	32
			DL TC	Yes
			UL Max TB bits	2560
			UL Max CC TB bits	640
			UL Max TC TB bits	2560
			UL Max TrCHs	4
			UL Max TTI TB	8
			UL Max TFS	32
			UL Max TF	32
			UL TC	Yes
			Other required UE radio access capability	Simultaneous CS and PS bearer services
55	Interactive or background / UL:64 DL:128 kbps / PS RAB + Streaming / unknown / UL:0 DL:128 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH See Note 1	34.108 6.10.2.4.1.55	DL Max TB bits	7680
			DL Max CC TB bits	640
			DL Max TC TB bits	7680
			DL Max TrCHs	4
			DL Max CCTrCH	1
			DL Max TTI TB	32
			DL Max TFS	64
			DL Max TF	32
			DL TC	Yes
			UL Max TB bits	2560
			UL Max CC TB bits	640
			UL Max TC TB bits	2560
			UL Max TrCHs	4
			UL Max TTI TB	8
			UL Max TFS	32
			UL Max TF	32
			UL TC	Yes
			Other required UE radio access capability	Simultaneous CS and PS bearer services

NOTE 1 To enable UE loopback of test data for the FDD interoperability reference radio bearer configurations having zero rate in uplink or downlink (items 18 to 22, items 47 to 49 and items 54 and 55 in table A.18c) the “Streaming / unknown / UL:14.4 kbps / CS RAB” and “Streaming / unknown / DL:14.4 kbps / CS RAB” have been used instead of the zero-rate uplink and downlink configuration. The impact on the UE radio access capability has been taken into account in the applicbility statement for those items.

Table A.18d: FDD interoperability radio bearer capabilities for combinations on PDSCH and DPCH

Item	FDD interoperability radio bearer configuration for combination on PDSCH and DPCH	Ref.	UE radio access capability See Note 1.		Comments
1.1	Interactive or background / UL:64 DL:256 kbps / PS RAB / 10 ms TTI + UL:3.4 DL: 3.4 kbps SRBs for DCCH	34.108 6.10.2.4.2.1	DL Max TB bits	3840	
			DL Max CC TB bits	640	
			DL Max TC TB bits	3840	
			DL Max TrCHs	4	
			DL Max CCTrCH	2	
			DL Max TTI TB	16	
			DL Max TFS	16	
			DL Max TF	32	
			DL TC	Yes	
			UL Max TB bits	2560	
			UL Max CC TB bits	640	
			UL Max TC TB bits	2560	
			UL Max TrCHs	4	
			UL Max TTI TB	8	
			UL Max TFS	16	
			UL Max TF	32	
			UL TC	Yes	
			Other required UE radio access capability	PDSCH=Yes	
1.2	Interactive or background / UL:64 DL:256 kbps / PS RAB / 20 ms TTI + UL:3.4 DL: 3.4 kbps SRBs for DCCH	34.108 6.10.2.4.2.1	DL Max TB bits	6400	
			DL Max CC TB bits	640	
			DL Max TC TB bits	6400	
			DL Max TrCHs	4	
			DL Max CCTrCH	2	
			DL Max TTI TB	16	
			DL Max TFS	16	
			DL Max TF	32	
			DL TC	Yes	
			UL Max TB bits	2560	
			UL Max CC TB bits	640	
			UL Max TC TB bits	2560	
			UL Max TrCHs	4	
			UL Max TTI TB	8	
			UL Max TFS	16	
			UL Max TF	32	
			UL TC	Yes	
			Other required UE radio access capability	PDSCH=Yes	
2.1	Interactive or background / UL:64 DL:384 kbps / PS RAB / 10 ms TTI + UL:3.4 DL: 3.4 kbps SRBs for DCCH	34.108 6.10.2.4.2.2	DL Max TB bits	5120	
			DL Max CC TB bits	640	
			DL Max TC TB bits	5120	
			DL Max TrCHs	4	
			DL Max CCTrCH	2	
			DL Max TTI TB	16	
			DL Max TFS	16	
			DL Max TF	32	
			DL TC	Yes	
			UL Max TB bits	2560	
			UL Max CC TB bits	640	
			UL Max TC TB bits	2560	
			UL Max TrCHs	4	
			UL Max TTI TB	8	
			UL Max TFS	16	
			UL Max TF	32	
			UL TC	Yes	
			Other required UE radio access capability	PDSCH=Yes	
2.2	Interactive or background / UL:64 DL:384 kbps / PS RAB / 20 ms TTI + UL:3.4 DL: 3.4 kbps SRBs for DCCH	34.108 6.10.2.4.2.2	DL Max TB bits	8960	

			DL Max CC TB bits	640
			DL Max TC TB bits	8960
			DL Max TrCHs	4
			DL Max CCTrCH	2
			DL Max TTI TB	32
			DL Max TFS	16
			DL Max TF	32
			DL TC	Yes
			UL Max TB bits	2560
			UL Max CC TB bits	640
			UL Max TC TB bits	2560
			UL Max TrCHs	4
			UL Max TTI TB	8
			UL Max TFS	16
			UL Max TF	32
			UL TC	Yes
			Other required UE radio access capability	PDSCH=Yes
3.1	Interactive or background / UL:64 DL:2048 kbps / PS RAB / 10 ms TTI + UL:3.4 DL: 3.4 kbps SRBs for DCCH	34.108 6.10.2.4.2.3	DL Max TB bits	40960
			DL Max CC TB bits	640
			DL Max TC TB bits	40960
			DL Max TrCHs	4
			DL Max CCTrCH	2
			DL Max TTI TB	64
			DL Max TFS	16
			DL Max TF	32
			DL TC	Yes
			UL Max TB bits	2560
			UL Max CC TB bits	640
			UL Max TC TB bits	2560
			UL Max TrCHs	4
			UL Max TTI TB	8
			UL Max TFS	16
			UL Max TF	32
			UL TC	Yes
			Other required UE radio access capability	PDSCH=Yes
3.2	Interactive or background / UL:64 DL:2048 kbps / PS RAB / 20 ms TTI + UL:3.4 DL: 3.4 kbps SRBs for DCCH	34.108 6.10.2.4.2.3	DL Max TB bits	81920
			DL Max CC TB bits	640
			DL Max TC TB bits	81920
			DL Max TrCHs	4
			DL Max CCTrCH	2
			DL Max TTI TB	96
			DL Max TFS	32
			DL Max TF	32
			DL TC	Yes
			UL Max TB bits	2560
			UL Max CC TB bits	640
			UL Max TC TB bits	2560
			UL Max TrCHs	4
			UL Max TTI TB	8
			UL Max TFS	16
			UL Max TF	32
			UL TC	Yes
			Other required UE radio access capability	PDSCH=Yes
4.1	Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:64 DL:256 kbps / PS RAB / 10 ms TTI + UL:3.4 DL:3.4 kbps SRBs for DCCH	34.108 6.10.2.4.2.4	DL Max TB bits	3840
			DL Max CC TB bits	640
			DL Max TC TB bits	3840
			DL Max TrCHs	8
			DL Max CCTrCH	2
			DL Max TTI TB	16
			DL Max TFS	16
			DL Max TF	32

			DL TC	Yes
			UL Max TB bits	2560
			UL Max CC TB bits	640
			UL Max TC TB bits	2560
			UL Max TrCHs	8
			UL Max TTI TB	8
			UL Max TFS	32
			UL Max TF	32
			UL TC	Yes
			Other required UE radio access capability	PDSCH=Yes; and Simultaneous CS and PS bearer services
4.2	Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:64 DL:256 kbps / PS RAB / 20 ms TTI + UL:3.4 DL:3.4 kbps SRBs for DCCH	34.108 6.10.2.4.2.4	DL Max TB bits	6400
			DL Max CC TB bits	640
			DL Max TC TB bits	6400
			DL Max TrCHs	8
			DL Max CCTrCH	2
			DL Max TTI TB	32
			DL Max TFS	16
			DL Max TF	32
			DL TC	Yes
			UL Max TB bits	2560
			UL Max CC TB bits	640
			UL Max TC TB bits	2560
			UL Max TrCHs	8
			UL Max TTI TB	8
			UL Max TFS	32
			UL Max TF	32
			UL TC	Yes
			Other required UE radio access capability	PDSCH=Yes; and Simultaneous CS and PS bearer services
5.1	Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:64 DL:384 kbps / PS RAB / 10 ms TTI + UL:3.4 DL:3.4 kbps SRBs for DCCH	34.108 6.10.2.4.2.5	DL Max TB bits	5120
			DL Max CC TB bits	640
			DL Max TC TB bits	5120
			DL Max TrCHs	8
			DL Max CCTrCH	2
			DL Max TTI TB	16
			DL Max TFS	16
			DL Max TF	32
			DL TC	Yes
			UL Max TB bits	2560
			UL Max CC TB bits	640
			UL Max TC TB bits	2560
			UL Max TrCHs	8
			UL Max TTI TB	8
			UL Max TFS	32
			UL Max TF	32
			UL TC	Yes
			Other required UE radio access capability	PDSCH=Yes; and Simultaneous CS and PS bearer services
5.2	Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:64 DL:384 kbps / PS RAB / 20 ms TTI + UL:3.4 DL:3.4 kbps SRBs for DCCH	34.108 6.10.2.4.2.5	DL Max TB bits	8960
			DL Max CC TB bits	640
			DL Max TC TB bits	8960
			DL Max TrCHs	8
			DL Max CCTrCH	2
			DL Max TTI TB	32
			DL Max TFS	16
			DL Max TF	32
			DL TC	Yes
			UL Max TB bits	2560

			UL Max CC TB bits	640	
			UL Max TC TB bits	2560	
			UL Max TrCHs	8	
			UL Max TTI TB	8	
			UL Max TFS	32	
			UL Max TF	32	
			UL TC	Yes	
			Other required UE radio access capability	PDSCH=Yes; and Simultaneous CS and PS bearer services	
6.1	Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:64 DL:2048 kbps / PS RAB / 10 ms TTI + UL:3.4 DL:3.4 kbps SRBs for DCCH	34.108 6.10.2.4.2.6	DL Max TB bits	40960	
			DL Max CC TB bits	640	
			DL Max TC TB bits	40960	
			DL Max TrCHs	8	
			DL Max CCTrCH	2	
			DL Max TTI TB	48	
			DL Max TFS	16	
			DL Max TF	32	
			DL TC	Yes	
			UL Max TB bits	2560	
			UL Max CC TB bits	640	
			UL Max TC TB bits	2560	
			UL Max TrCHs	8	
			UL Max TTI TB	8	
			UL Max TFS	32	
			UL Max TF	32	
			UL TC	Yes	
			Other required UE radio access capability	PDSCH=Yes; and Simultaneous CS and PS bearer services	
6.2	Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:64 DL:2048 kbps / PS RAB / 20 ms TTI + UL:3.4 DL:3.4 kbps SRBs for DCCH	34.108 6.10.2.4.2.6	DL Max TB bits	81920	
			DL Max CC TB bits	640	
			DL Max TC TB bits	81920	
			DL Max TrCHs	8	
			DL Max CCTrCH	2	
			DL Max TTI TB	96	
			DL Max TFS	32	
			DL Max TF	32	
			DL TC	Yes	
			UL Max TB bits	2560	
			UL Max CC TB bits	640	
			UL Max TC TB bits	2560	
			UL Max TrCHs	8	
			UL Max TTI TB	8	
			UL Max TFS	32	
			UL Max TF	32	
			UL TC	Yes	
			Other required UE radio access capability	PDSCH=Yes; and Simultaneous CS and PS bearer services	

Table A.18e: FDD interoperability radio bearer capabilities for combinations on SCCPCH

Item	FDD interoperability radio bearer configuration for combination on SCCPCH	Ref.	Applicability (Minimum UE radio access capability)		Comments
1	Stand-alone signalling RB for PCCH	34.108 6.10.2.4.3.1	DL Max TB bits	640	
			DL Max CC TB bits	640	
			DL Max TC TB bits	N/A	
			DL Max TrCHs	4	
			DL Max CCTrCH	1	
			DL Max TTI TB	4	
			DL Max TFS	16	
			DL Max TF	32	
			DL TC	N/A	
			Other required UE radio access capability	none	
2	Interactive/Background 32 kbps PS RAB + SRBs for CCCH + SRB for DCCH + SRB for BCCH	34.108 6.10.2.4.3.2	DL Max TB bits	1280	
			DL Max CC TB bits	640	
			DL Max TC TB bits	640	
			DL Max TrCHs	4	
			DL Max CCTrCH	1	
			DL Max TTI TB	4	
			DL Max TFS	16	
			DL Max TF	32	
			DL TC	Yes	
			Other required UE radio access capability	none	
3	Interactive/Background 32 kbps RAB + SRBs for PCCH + SRB for CCCH + SRB for DCCH + SRB for BCCH	34.108 6.10.2.4.3.3	DL Max TB bits	1280	
			DL Max CC TB bits	640	
			DL Max TC TB bits	640	
			DL Max TrCHs	4	
			DL Max CCTrCH	1	
			DL Max TTI TB	8	
			DL Max TFS	16	
			DL Max TF	32	
			DL TC	Yes	
			Other required UE radio access capability	none	

Table A.18f: FDD interoperability radio bearer capabilities for combinations on PRACH

Item	FDD interoperability radio bearer configuration for combination on PRACH	Ref.	Applicability (Minimum UE radio access capability)		Comments
1	Interactive/Background 32 kbps PS RAB + SRB for CCCH + SRB for DCCH	34.108 6.10.2.4.4.1	UL Max TB bits	640	
			UL Max CC TB bits	640	
			UL Max TC TB bits	N/A	
			UL Max TrCHs	2	
			UL Max TTI TB	2	
			UL Max TFS	4	
			UL Max TF	32	
			UL TC	N/A	
			Other required UE radio access capability	none	

A.4.3.4 Layer 2/3 Baseline Implementation Capabilities (access stratum)

Table A.19: PDCP Parameters

Item	PDCP Parameters	Ref.	Comments
1	IP header compression algorithm	25.323, 5.1.2	
2	Lossless SRNS relocation	25.323, 5.4	
3	Multiplexing of multiple radio bearers [not R99]		
4	RLC in-sequence delivery	25.323, 5.4	
5	Establishment of more than one PDCP entities	25.323, 5.1	

Table A.19b: BMC Parameters

Item	BMC Parameters	Ref.	Comments
1	CBS message support	25.324, 9.1	

A.4.4 Additional information

Table A.20: Additional information

Item	Additional information	Ref.	Comments
1	At least one bearer service	22.002, 3	
2	At least one supplementary service	22.004, 4	
3	Inter-system measurement for GSM	25.331, 8.4	
4	At least one MO circuit switched basic service	24.008, 5.3.4.2.1	
5	At lease one MT circuit switched basic service	24.008, 5.3.4.2.2	
6	Immediate connect supported for all circuit switched basic services.	24.008, 5.2.1.6	
7	Activation of one or more PDP contexts simultaneously	[TBD]	
8	Sending of correct acknowledgement of memory full condition	[TBD]	
9	Status report capability	[TBD]	
10	(Void)		
11	Storing of received Class 1 short messages	[TBD]	
12	Storing of received Class 2 short messages in the SIM	[TBD]	
13	Replacing of short messages	[TBD]	
14	Reply procedures	23.040, Annex 4	
15	Sending of multiple short messages on the same RR connection when there is no call in progress	[TBD]	
16	Sending of concatenated multiple short messages when there is a call in progress	[TBD]	
17	Only circuit switched basic service supported by the mobile is emergency call	22.003, 6, A.1.2	
18	Multi-code transmission	[TBD]	
19	Poll_PU based polling mode of AM RLC	[TBD]	
20	Timer based polling mode of AM RLC	[TBD]	
21	Discard mode of AM RLC	[TBD]	
22	At least one MO circuit switched basic service	[TBD]	
23	At least one MO circuit switched basic service for which immediate connect is not used	[TBD]	
24	Network initiated MO call (CCBS)	24.008, 5.2.3 24.093, 4.1	
25	DTMF protocol control procedure	24.008, 5.5.7	
26	Secondary PDP context activation procedure	24.008, 6.1.3.2	
27	Support of UMTS encryption algorithm UEA1	33.102, 6.6	
28	Support of UMTS integrity algorithm UIA1	33.102, 6.5	
29	Support Automatic calling repeat call attempt	22.001, Annex E	
30	Support auto-calling more B-party numbers than the number of B-party numbers that can be stored in the list of blacklisted numbers	22.001, Annex E	
31	Support of SMS Cell Broadcast, i.e. the UE is capable of receiving and displaying broadcast messages.	23.041, 8 25.324, 11	
32	Support of Follow On Proceed	24.008, 4.4.4.6	
33	Support detach on power down		
34	Support detach on USIM removal		
35	Support switch on/off		
36	Support USIM removal without power down		
37	Indication and user selection of PLMN	23.122, 4.4.3	
38	Support of automatic PS attach procedure at switch on.		

Annex B ~~(informative)~~: Void
~~Mapping of UE Radio Access Capability combinations to supported RABs~~

Based on: **ISG Typical parameter set v1.3**
TR25.926 v3.1.0 UE Radio Access Capabilities

Mapping of UE Radio Access Capability combinations to supported RABs
UTRA-FDD

			DL						UL				
	UE class		**1**	**2**	**3**	**4**	**5**	**6**	**1**	**2**	**3**	**4**	**5**
	Data rate (kbps)	**CS/PS**	**32**	**64**	**128**	**384**	**768**	**2048**	**32**	**64**	**128**	**384**	**768**
ISG reference	**Chars - DL/UL (kbps)**												
DPCH 5.4.1.X													
1	DCCH 1.7		X	X	X	X	X	X	X	X	X	X	X
2	DCCH 3.4		X	X	X	X	X	X	X	X	X	X	X
3	DCCH 13.6		X	X	X	X	X	X	X	X	X	X	X
4	CV voice 12.2	CS	X	X	X	X	X	X	X	X	X	X	X
5	CV voice 10.2	CS	X	X	X	X	X	X	X	X	X	X	X
6	CV voice 7.95	CS	X	X	X	X	X	X	X	X	X	X	X
7	CV voice 7.4	CS	X	X	X	X	X	X	X	X	X	X	X
8	CV voice 6.7	CS	X	X	X	X	X	X	X	X	X	X	X
9	CV voice 5.9	CS	X	X	X	X	X	X	X	X	X	X	X
10	CV voice 5.15	CS	X	X	X	X	X	X	X	X	X	X	X
11	CV voice 4.75	CS	X	X	X	X	X	X	X	X	X	X	X
12	CV 28.8/28.8	CS		X	X	X	X	X		X	X	X	X
13	CV 64/64	CS		X	X	X	X	X		X	X	X	X
14	CV 32/32	CS		X	X	X	X	X		X	X	X	X
15	ST 14.4/14.4	CS		X	X	X	X	X		X	X	X	X
16	ST 28.8/28.8	CS		X	X	X	X	X		X	X	X	X
17	ST 57.6/57.6	CS		X	X	X	X	X		X	X	X	X
18	ST 64/0	CS/PS		X	X	X	X	X	X	X	X	X	X
19	ST 0/64	CS/PS	X	X	X	X	X	X		X	X	X	X
20	ST 128/0	CS/PS				X	X	X	X	X	X	X	X
21	ST 0/128	CS/PS	X	X	X	X	X	X				X	X
22	ST 384/0	CS/PS						X	X	X	X	X	X
23	IB 8/32 (CC,10msTTI)	PS	X	X	X	X	X	X	X	X	X	X	X
24	IB 8/64	PS	X	X	X	X	X	X		X	X	X	X
25	IB 64/32 (CC,10msTTI)	PS		X	X	X	X	X	X	X	X	X	X
26	IB 64/64	PS		X	X	X	X	X		X	X	X	X
27	IB 128/64	PS			X	X	X	X		X	X	X	X
28	IB 128/128	PS			X	X	X	X			X	X	X
29	IB 144/64	PS			X	X	X	X		X	X	X	X
30	IB 144/144	PS			X	X	X	X			X	X	X
31	IB 256 (10 ms TTI)/64	PS				X	X	X		X	X	X	X
32	IB 384 (10ms TTI)/64	PS				X	X	X		X	X	X	X
33	IB 384 (10ms TTI)/128	PS				X	X	X			X	X	X
34	IB 384/384 (10ms TTI)	PS				X	X	X				X	X
32	IB 384 (20ms TTI)/64	PS					X	X		X	X	X	X
33	IB 384 (20ms TTI)/128	PS					X	X			X	X	X
34	IB 384/384 (20ms TTI)	PS					X	X					X
35	IB 2048/64	PS						X		X	X	X	X
36	IB 2048/128	PS						X			X	X	X
37	IB 2048/384 (10ms TTI)	PS						X				X	X
37	IB 2048/384 (20ms TTI)	PS						X					X
38	CVV + IB 8/32	CS+PS		X	X	X	X	X		X	X	X	X
39	CVV + IB 64/32	CS+PS		X	X	X	X	X		X	X	X	X
40	CVV + IB 64/64	CS+PS		X	X	X	X	X		X	X	X	X
41	CVV + IB 128/64	CS+PS			X	X	X	X		X	X	X	X
42	CVV + IB 256(10ms TTI)/64	CS+PS				X	X	X		X	X	X	X
43	CVV + IB 384(10ms TTI)/64	CS+PS				X	X	X		X	X	X	X
43	CVV + IB 384(20ms TTI)/64	CS+PS					X	X		X	X	X	X
44	CVV + IB 2048/128	CS+PS						X			X	X	X
45	CVV + ST 57.6/57.6	CS+CS		X	X	X	X	X		X	X	X	X
46	CVV + ST 64/0	CS+CS/PS		X	X	X	X	X	X	X	X	X	X
47	CVV + ST 128/0	CS+CS			X	X	X	X	X	X	X	X	X
48	CVV + ST 384/0	CS+CS						X	X	X	X	X	X
49	CVV + CV 64/64	CS+CS		X	X	X	X	X		X	X	X	X
50	CV 64/64 + CV 64/64	CS+CS				X	X	X				X	X
51	CV 64/64 + IB 64/64	CS+PS				X	X	X				X	X
52	CV 64/64 + IB 128/64	CS+PS				X	X	X				X	X
53	CV 64/64 + IB 128/128	CS+PS				X	X	X				X	X
54	IB 128/64 + ST 64/0	PS+CS/PS				X	X	X		X	X	X	X
55	IB 128/64 + ST 128/0	PS+CS/PS					X	X		X	X	X	X
DSCH & DPCH 5.4.2.X													
1	IB 256/64	PS				O	X	X		X	X	X	X
2	IB 384/64	PS				O	X	X		X	X	X	X
3	IB 2048/64	PS						X		X	X	X	X
4	CVV + IB 256/64	CS+PS				O	X	X		X	X	X	X
5	CVV + IB 384/64	CS+PS				O	X	X		X	X	X	X
6	CVV + IB 2048/64	CS+PS						X		X	X	X	X
SCCPCH 5.4.3.X	**DL**												
1	PCCH		X	X	X	X	X	X	NA	NA	NA	NA	NA
2	IB 32 +	PS	X	X	X	X	X	X	NA	NA	NA	NA	NA
3	IB 32 + PCCH	PS	X	X	X	X	X	X	NA	NA	NA	NA	NA
PRACH 5.4.4.X	**UL**												
1	IB 32	PS	NA	NA	NA	NA	NA	NA	X	X	X	X	X

CV =Conversational
IB =Interactive/Background
ST =Streaming
CVV = CV voice 12.2k

CS + CS = Support of Multicall (CS)
CS + PS = Simultaneous CS and PS
CS/PS = CS or PS
CS + CS/PS = Support of Multicall (2xCS) or simultaneous CS and PS

X = Support
O = Optional
NA = Not Applicable

Annex C (informative): Change history

Meeting -1st-Level	Doc-1st-Level	CR	Rev	Subject	Cat	Version-Current	Version-New	Doc-2nd-Level
TP-09				Approval of the specification as v3.1.0 rather than 3.0.0 to be aligned with 34.123-1 version number.		2.0.0	3.1.0	
TP-10	TP-000219	001		Update of Applicability statements for “Idle mode test	F	3.1.0	3.2.0	T1-000280
TP-10	TP-000219	002		Update of applicability clauses for RLC test cases	F	3.1.0	3.2.0	T1-000302
TP-10	TP-000219	003		Update of Applicability Statements for RRC Test Cases	F	3.1.0	3.2.0	T1-000295
TP-10	TP-000219	004		Update of applicability statements for radio bearer test	F	3.1.0	3.2.0	T1-000291
TP-10	TP-000219	005		Update of applicability statements for Session	B	3.1.0	3.2.0	T1-000299
TP-10	TP-000219	006		Update of Applicability statements for PACKET	B	3.1.0	3.2.0	T1-000284
TP-11	TP-010022	007		Update of Applicability statements for “Idle mode test	F	3.2.0	3.3.0	T1-010077
TP-11	TP-010022	008		Updates to clause 4 of TS 34.123-2 version 3.2.0	F	3.2.0	3.3.0	T1-010085
TP-11	TP-010022	009		Update of Applicability statements for GMM	F	3.2.0	3.3.0	T1-010087
TP-12	TP-010122	010		ICS for Idle mode tests	F	3.3.0	3.4.0	T1-010168
TP-12	TP-010122	011		Update to applicability tables for RLC tests	F	3.3.0	3.4.0	T1-010172
TP-12	TP-010122	012		Update to MAC test applicability tables	F	3.3.0	3.4.0	T1-010177
TP-12	TP-010122	013		Update of applicability table	F	3.3.0	3.4.0	T1-010180
TP-12	TP-010122	014		Deletion of applicability statement for intersystem handover tests GERAN to UTRAN	F	3.3.0	3.4.0	T1-010182
TP-12	TP-010122	015		Corrections to applicability for CC test cases	D	3.3.0	3.4.0	T1-010186
TP-12	TP-010122	016		Corrections to applicability for CC test cases	D	3.3.0	3.4.0	T1-010188
TP-12	TP-010122	017		MM test case ICS update	F	3.3.0	3.4.0	T1-010190
TP-12	TP-010122	018		Correction to MM applicability	F	3.3.0	3.4.0	T1-010191
TP-12	TP-010122	019		Correction and Addition of PICS and applicability tables for MM, SMS auto-calling, emergency call and intersystem HO test cases	F	3.3.0	3.4.0	T1-010192
TP-12	TP-010122	020		Update to SMS Applicability tables	F	3.3.0	3.4.0	T1-010195
TP-12	TP-010122	021		SMS applicability	F	3.3.0	3.4.0	T1-010197
TP-12	TP-010122	022		GMM ICS update	F	3.3.0	3.4.0	T1-010201
TP-12	TP-010122	023		Update of applicability of interoperability radio bearer test cases	F	3.3.0	3.4.0	T1-010209

3GPP TSG- T1 Meeting #12
Busan, Korea, 6-7 Sep 2001

TSG T1-010332

3GPP TSG- T1/SIG SWG Meeting #19
Busan, Korea, 3-5 Sep 2001

TSG T1S-010196r2

CR-Form-v3

CHANGE REQUEST

⌘ **34.123-2** **CR** **030** ⌘ rev **-** ⌘ Current version: **3.4.0** ⌘

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

Proposed change affects: ⌘ (U)SIM ☐ ME/UE ☒ Radio Access Network ☐ Core Network ☐

Title:	⌘	Update to 34.123-2 SMS applicability
Source:	⌘	DENSO
Work item code:	⌘	***Date:*** ⌘ 2001-09-03
Category:	⌘ **F**	***Release:*** ⌘ R99

Use one of the following categories:
F *(essential 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)

Reason for change: ⌘ To correct ICS table and applicability of CBS.

Summary of change: ⌘

1. Deletion of the redundancy ICS tables

The ICS tables A.2/7 and A.20/31 are almost same meaning. Therefore, A.20/31 unused for TTCN is unnecessary.

Deletion of "A.20/31 Support of SMS Cell Broadcast"

2. Correction of applicability about CBS

Cell broadcast service (CBS) is not supported by all the UEs. Only the UE capable of receiving cell broadcast messages is supported.

Therefore, the applicability of CBS applied to all UEs should be corrected.

Correction of;

16.3 Short message service cell broadcast		
UE capable of receiving broadcast messages	C107	

Addition of "C107 IF A.3/2 and A.2/7 THEN R ELSE N/A"

Consequences if not approved: ⌘

Clauses affected:	⌘	Clause 4		
Other specs affected:	⌘	☐ Other core specifications ☐ Test specifications ☐ O&M Specifications	⌘	
Other comments:	⌘			

How to create CRs using this form:

Comprehensive information and tips about how to create CRs can be found at: http://www.3gpp.org/3G_Specs/CRs.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://www.3gpp.org/specs/ For the latest version, look for the directory name with the latest date e.g. 2000-09 contains the specifications resulting from the September 2000 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.

<Start of modified section>

4 Recommended test case applicability

SMS			
16.1.1	SMS on CS mode / SMS mobile terminated	C18	UE capable of receiving Short Message at any time on CS mode.
16.1.2	SMS on CS mode / SMS mobile originated	C20	UE capable of submitting Short Message at any time on CS mode.
16.1.3	SMS on CS mode / Test of memory full condition and memory available notification	C21	UE capable of sending the correct acknowledgement of memory full condition on CS mode.
16.1.4	SMS on CS mode / Test of the status report capabilities and of SMS-COMMAND	C22	UEs supporting the status report capabilities on CS mode.
16.1.5.1	SMS on CS mode / Short message class 0	C23	UE capable of displaying short messages on CS mode
16.1.5.2	SMS on CS mode / Test of class 1 short messages	C24	UE capable of displaying short messages and storing of received Class 1 Short Messages on CS mode
16.1.5.3	SMS on CS mode / Test of class 2 short messages	C25	UE capable of displaying short messages and storing of received Class 2 Short Messages in the SIM on CS mode.
16.1.5.4	SMS on CS mode / Test of class 3 short messages	[FFS]	[FFS]
16.1.6	SMS on CS mode / Test of short message type 0 (???)	[FFS]	[FFS}
16.1.7	SMS on CS mode / Test of the replace mechanism for SM type 1-7	C33	UEs which support Replace Short Messages and display of received Short Messages on CS mode.
16.1.8	SMS on CS mode / Test of the reply path scheme	C34	UEs which support reply procedures (the class of UEs for which this is mandatory is described in TS 23.040, annex 4) displaying of received Short Messages and submitting Short Messages on CS mode.
16.1.9.1	SMS on CS mode / Multiple SMS mobile originated / UE in idle mode	C35	UE supporting the ability of sending multiple short messages on the same RR connection when there is no call in progress on CS mode.
16.1.9.2	SMS on CS mode / Multiple SMS mobile originated / UE in active mode	C36	UE supporting the ability of sending concatenated multiple short messages when there is a call in progress on CS mode.
16.1.10	SMS on CS mode / Test of capabilities of simultaneously receiving a short message whilst sending a mobile originated short message	C101	UE capable of receiving Short Message whilst sending Short Message on CS mode.
16.2.1	SMS on PS mode / SMS mobile terminated	C26	UE capable of receiving Short Message at any time on PS mode.
16.2.2	SMS on PS mode / SMS mobile originated	C27	UE capable of submitting Short Message at any time on PS mode.
16.2.3	SMS on PS mode / Test of memory full condition and memory available notification	C28	UE capable of sending the correct acknowledgement of memory full condition in PS mode.
16.2.4	SMS on PS mode / Test of the status report capabilities and of SMS-COMMAND	C29	UEs supporting the status report capabilities in PS mode.
16.2.5.1	Short message class 0	C30	UE capable of displaying short messages in PS mode
16.2.5.2	SMS on PS mode / Test of class 1 short messages	C31	UE capable of displaying short messages and storing of received Class 1 Short Messages in PS mode

16.2.5.3	SMS on PS mode / Test of class 2 short messages	C32	UE capable of displaying short messages and storing of received Class 2 Short Messages in the SIM in PS mode.
16.2.5.4	SMS on PS mode / Test of class 3 short messages	[FFS]	[FFS]
16.2.6	SMS on PS mode / Test of short message type 0 (???)	[FFS]	[FFS]
16.2.7	SMS on PS mode / Test of the replace mechanism for SM type 1-7	C37	UEs which support Replace Short Messages and display of received Short Messages in PS mode.
16.2.8	SMS on PS mode / Test of the reply path scheme	C38	UEs which support reply procedures (the class of UEs for which this is mandatory is described in TS 23.040, annex 4) displaying of received Short Messages and submitting Short Messages in PS mode.
16.2.10	SMS on PS mode / Test of capabilities of simultaneously receiving a short message whilst sending a mobile originated short message	C102	UE capable of receiving Short Message whilst sending Short Message on PS mode.
16.3	Short message service cell broadcast	~~R~~C107	~~All UEs.~~UE capable of receiving broadcast messages
USER EQUIPMENT FEATURES			
17.1.2	Constraining the access to a single number	C93	All UEs supporting autocalling
17.1.3	Constraining the access to a single number	C93	All UEs supporting autocalling
17.1.4	Behaviour of the MS when its list of blacklisted numbers is full	C94	UEs that are capable of autocalling more than M B-party numbers.

C01	IF A.1/1 OR A.1/3 OR A.1/4 OR A.1/6 THEN R ELSE N/A
C02	IF A.1/2 OR A.1/3 OR A.1/5 OR A.1/6 THEN R ELSE N/A
C03	IF A.1/3 OR A.1/6 THEN R ELSE N/A
C04	IF (A.1/1 OR A.1/3 OR A.1/4 OR A.1/6) AND A.2/2 THEN R ELSE N/A
C05	IF A.1/4 OR A.1/6 THEN R ELSE N/A
C06	IF (A.1/1 OR A.1/3 OR A.1/4 OR A.1/6) AND A.3/2 THEN R ELSE N/A
C07	IF (A.1/1 OR A.1/3 OR A.1/4 OR A.1/6) AND A.20/27 THEN R ELSE N/A
C08	IF (A.1/1 OR A.1/3 OR A.1/4 OR A.1/6) AND A.20/28 THEN R ELSE N/A
C09	IF (A.1/1 OR A.1/3 OR A.1/4 OR A.1/6) AND NOT A.20/3 THEN R ELSE N/A
C10	IF A.20/4 THEN R ELSE N/A
C11	IF A.20/5 THEN R ELSE N/A
C12	IF A.3/2 THEN R ELSE N/A
C13	IF A.2/1 OR A.2/2 OR A.10/2 THEN R ELSE N/A
C14	IF A.20/4 OR A.20/5 THEN R ELSE N/A
C15	IF A.10/2 THEN R ELSE N/A
C16	IF A.20/1 THEN R ELSE N/A
C17	IF A.3/3 AND A.20/7 THEN R ELSE N/A
C18	IF A.2/3 THEN R ELSE N/A
C19	IF A.1/1 THEN R ELSE N/A
C20	IF A.2/4 THEN R ELSE N/A
C21	IF A.20/8 AND A.3/1 THEN R ELSE N/A
C22	IF A.20/9 AND A.3/1 THEN R ELSE N/A
C23	IF A.3/1 THEN R ELSE N/A
C24	IF A.20/11 AND A.3/1 THEN R ELSE N/A
C25	IF A.20/12 AND A.3/1 THEN R ELSE N/A
C26	IF A.2/5 THEN R ELSE N/A
C27	IF A.2/6 THEN R ELSE N/A
C28	IF A.20/8 AND A.3/2 THEN R ELSE N/A
C29	IF A.20/9 AND A.3/2 THEN R ELSE N/A
C30	A.3/2 THEN R ELSE N/A
C31	IF A.20/11 AND A.3/2 THEN R ELSE N/A
C32	IF A.20/12 AND A.3/2 THEN R ELSE N/A
C33	IF A.20/13 AND A.3/1 THEN R ELSE N/A
C34	IF A.20/14 AND A.2/4 AND A.3/1 THEN R ELSE N/A
C35	IF A.20/15 AND A.3/1 THEN R ELSE N/A
C36	IF A.20/16 AND A.3/1 THEN R ELSE N/A
C37	IF A.20/13 AND A.3/2 THEN R ELSE N/A
C38	IF A.20/14 AND A.2/6 THEN R ELSE N/A
C39	IF A.20/15 AND A.3/2 THEN R ELSE N/A
C40	IF A.20/16 AND A.3/2 THEN R ELSE N/A
C41	IF (NOT A.20/17) AND (NOT A.20/6) AND A.20/5 THEN R ELSE N/A
C42	IF A.17/1 AND A.18/1 AND A.18b/3 THEN R ELSE N/A
C43	IF A.2/1 AND A.3/1 AND A.6/1 AND A.17/1 AND A.18/1 THEN R ELSE N/A
C44	IF A.3/1 AND A.6/1 AND A.17/2 AND A.18/2 THEN R ELSE N/A
C45	IF A.3/1 AND A.6/2 AND A.17/2 AND A.18/2 THEN R ELSE N/A
C46	IF (A.3/1 OR A.3/2) AND A.6/2 AND A.17/2 AND A.18/1 THEN R ELSE N/A
C47	IF (A.3/1 OR A.3/2) AND A.6/2 AND A.17/1 AND A.18/2 THEN R ELSE N/A
C48	IF (A.3/1 OR A.3/2) AND A.6/2 AND A.17/4 AND A.18/1 THEN R ELSE N/A
C49	IF (A.3/1 OR A.3/2) AND A.6/2 AND A.17/1 AND A.18/4 THEN R ELSE N/A
C50	IF (A.3/1 OR A.3/2) AND A.6/2 AND A.17/6 AND A.18/1 THEN R ELSE N/A
C51	IF A.3/2 AND (A.6/3 OR A.6/4) AND A.17/1 AND A.18/1 THEN R ELSE N/A
C52	IF A.3/2 AND (A.6/3 OR A.6/4) AND A.17/1 AND A.18/2 THEN R ELSE N/A
C53	IF A.3/2 AND (A.6/3 OR A.6/4) AND A.17/2 AND A.18/1 AND A.18b/1 THEN R ELSE N/A
C54	IF A.3/2 AND (A.6/3 OR A.6/4) AND A.17/2 AND A.18/2 THEN R ELSE N/A
C55	IF A.3/2 AND (A.6/3 OR A.6/4) AND A.17/3 AND A.18/2 THEN R ELSE N/A
C56	IF A.3/2 AND (A.6/3 OR A.6/4) AND A.17/3 AND A.18/3 THEN R ELSE N/A
C57	IF A.3/2 AND (A.6/3 OR A.6/4) AND A.17/4 AND A.18/2 THEN R ELSE N/A
C58	IF A.3/2 AND (A.6/3 OR A.6/4) AND A.17/4 AND A.18/3 THEN R ELSE N/A
C59	IF A.3/2 AND (A.6/3 OR A.6/4) AND A.17/4 AND A.18/4 THEN R ELSE N/A
C60	IF A.3/2 AND (A.6/3 OR A.6/4) AND A.17/5 AND A.18/2 THEN R ELSE N/A
C61	IF A.3/2 AND (A.6/3 OR A.6/4) AND A.17/5 AND A.18/3 THEN R ELSE N/A
C62	IF A.3/2 AND (A.6/3 OR A.6/4) AND A.17/5 AND A.18/5 THEN R ELSE N/A
C63	IF A.3/2 AND (A.6/3 OR A.6/4) AND A.17/6 AND A.18/2 AND A.13/2 THEN R ELSE N/A
C64	IF A.3/2 AND (A.6/3 OR A.6/4) AND A.17/6 AND A.18/3 AND A.13/2 THEN R ELSE N/A
C65	IF A.3/2 AND (A.6/3 OR A.6/4) AND A.17/6 AND A.18/4 AND A.13/2 THEN R ELSE N/A
C66	IF A.3/2 AND (A.6/3 OR A.6/4) AND A.17/6 AND A.18/5 AND A.13/2 THEN R ELSE N/A
C67	IF A.2/1 AND A.3/3 AND A.6/1 AND (A.6/3 OR A.6/4) AND A.17/2 AND A.18/2 AND A.18b/1 THEN R ELSE N/A
C68	IF A.2/1 AND A.3/3 AND A.6/1 AND (A.6/3 OR A.6/4) AND A.17/3 AND A.18/2 THEN R ELSE N/A

C69 IF A.2/1 AND A.3/3 AND A.6/1 AND (A.6/3 OR A.6/4) AND A.17/4 AND A.18/2 THEN R ELSE N/A
C70 IF A.2/1 AND A.3/3 AND A.6/1 AND (A.6/3 OR A.6/4) AND A.17/5 AND A.18/2 THEN R ELSE N/A
C71 IF A.2/1 AND A.3/3 AND A.6/1 AND (A.6/3 OR A.6/4) AND A.17/6 AND A.18/3 AND A.13/2 THEN R ELSE N/A
C72 IF A.7/28 AND A.2/1 AND A.3/1 AND A.6/1 AND A.6/2 AND A.17/2 AND A.18/2 THEN R ELSE N/A
C73 IF A.2/1 AND ((A.3/1 AND A.7/28) OR A.3/3) AND A.6/1 AND A.6/2 AND A.17/2 AND A.18/1 THEN R ELSE N/A
C74 IF A.2/1 AND A.3/1 AND A.7/28 AND A.6/1 AND A.6/2 AND A.17/3 AND A.18/1 THEN R ELSE N/A
C75 IF A.2/1 AND A.3/1 AND A.7/28 AND A.6/1 AND A.6/2 AND A.17/6 AND A.18/1 THEN R ELSE N/A
C76 IF A.7/28 AND A.2/1 AND A.3/1 AND A.6/1 AND A.17/2 AND A.18/2 THEN R ELSE N/A
C77 IF A.7/28 AND A.3/1 AND A.6/1 AND A.17/4 AND A.18/4 THEN R ELSE N/A
C78 IF A.3/3 AND A.6/1 AND (A.6/3 OR A.6/4) AND A.17/4 AND A.18/4 THEN R ELSE N/A
C79 IF (A.3/2 OR A.3/3) AND A.6/2 AND (A.6/3 OR A.6/4) AND A.17/4 AND A.18/2 THEN R ELSE N/A
C80 IF A.3/2 AND A.6/2 AND (A.6/3 OR A.6/4) AND A.17/5 AND A.18/2 THEN R ELSE N/A
C81 IF A.3/2 AND (A.6/3 OR A.6/4) AND A.17/5 AND A.18/2 AND A.18b/4 THEN R ELSE N/A

Alternatively to DL 768 kbps class the test case may be applicable to DL 384 kbps class, then:
IF A.3/2 AND (A.6/3 OR A.6/4) AND A.17/4 AND A.18/2 AND A.18b/4 AND THEN E ELSE N/A

C82 IF A.3/3 AND (A.6/3 OR A.6/4) AND A.17/5 AND A.18/2 AND A.18b/4 THEN R ELSE N/A

Alternatively to DL 768 kbps class the test case may be applicable to DL 384 kbps class, then:
IF A.2/1 AND A.3/3 AND A.6/1 AND (A.6/3 OR A.6/4) AND A.17/4 AND A.18/2 AND A.18b/4 THEN R ELSE N/A

C83 IF A.2/1 AND A.3/3 AND A.6/1 AND (A.6/3 OR A.6/4) AND A.17/6 AND A.18/2 AND A.18b/4 AND A.13/2 THEN R ELSE N/A
C84 IF A.17/1 THEN R ELSE N/A
C85 IF A.3/2 AND (A.6/3 OR A.6/4) AND A.17/1 THEN R ELSE N/A
C86 IF A.3/2 AND (A.6/3 OR A.6/4) AND A.18/1 THEN R ELSE N/A
C87 IF A.3/2 AND (A.6/3 OR A.6/4) AND A.17/6 AND A.18/2 AND A.18b/4 AND A.13/2 THEN R ELSE N/A
C88 IF A.3/3 THEN R ELSE N/A.
C89 IF (A.3/1 OR A.3/2) AND A.6/2 AND A.17/6 AND A.18/1 AND A.18b/1 AND A.18b/2 THEN R ELSE N/A
C90 IF A.3/2 AND (A.6/3 OR A.6/4) AND A.17/2 AND A.18/1 AND A.18b/1 AND A.18b/2 THEN R ELSE N/A
C91 IF A.3/2 AND (A.6/3 OR A.6/4) AND A.17/6 AND A.18/5 AND A.18b/1 AND A.18b/2 THEN R ELSE N/A
C92 IF A.2/1 AND A.3/3 AND A.6/1 AND (A.6/3 OR A.6/4) AND A.17/2 AND A.18/2 AND A.18b/1 AND A.18b/2 THEN R ELSE N/A
C93 IF A.20/29 THEN R ELSE N/A
C94 IF A.20/29 AND A.20/30 THEN R ELSE N/A
C95 IF (A.1/4 OR A.1/6) AND (A.2/1 OR A.2/2) THEN R ELSE N/A
C96 IF A.2/2 THEN R ELSE N/A
C97 IF (A.1/4 OR A.1/6) AND A.3/1 AND (A.4/1 OR A.4/2 OR A.4/3 OR A.4/4 OR A.4/5 OR A.4/6 OR A.4/7 OR A.4/8 OR A.4/9 OR A.4/10 OR A.4/11 OR A.4/12 OR A.4/13 OR A.4/14 OR A.4/15 OR A.4/16 OR A.4/17 OR A.4/18 OR A.4/19 OR A.4/20 OR A.4/21 OR A.4/22 OR A.4/23 OR A.4/24 OR A.4/25 OR A.4/26 OR A.4/27 OR A.4/28) THEN R ELSE N/A
C98 IF A.3/1 OR A.3/3 THEN R ELSE N/A.
C99 IF (A.3/1 OR A.3/3) AND A.20/36 THEN R ELSE N/A.
C100 IF (A.3/1 OR A.3/3) AND A.7/30 THEN R ELSE N/A.
C101 IF A.2/3 AND A.2/4 THEN R ELSE N/A
C102 IF A.2/5 AND A.2/6 THEN R ELSE N/A
C103 IF A.3/3 AND (NOT A.20/38) THEN R ELSE N/A
C104 IF A.20/37 AND (A.1/1 OR A.1/3 OR A.1/4 OR A.1/6) THEN R ELSE N/A
C105 IF A.20/37 AND (A.1/4 OR A.1/6) THEN R ELSE N/A
C106 IF (A.1/1 OR A.1/3 OR A.1/4 OR A.1/6) AND A.2/1 AND A.2/2 THEN R ELSE N/A
C107 IF A.3/2 AND A.2/7 THEN R ELSE N/A

<End of modified section>

<Start of modified section>

A.4.4 Additional information

Table A.20: Additional information

Item	Additional information	Ref.	Comments
1	At least one bearer service	22.002, 3	
2	At least one supplementary service	22.004, 4	
3	Inter-system measurement for GSM	25.331, 8.4	
4	At least one MO circuit switched basic service	24.008, 5.3.4.2.1	
5	At lease one MT circuit switched basic service	24.008, 5.3.4.2.2	
6	Immediate connect supported for all circuit switched basic services.	24.008, 5.2.1.6	
7	Activation of one or more PDP contexts simultaneously	[TBD]	
8	Sending of correct acknowledgement of memory full condition	[TBD]	
9	Status report capability	[TBD]	
10	(Void)		
11	Storing of received Class 1 short messages	[TBD]	
12	Storing of received Class 2 short messages in the SIM	[TBD]	
13	Replacing of short messages	[TBD]	
14	Reply procedures	23.040, Annex 4	
15	Sending of multiple short messages on the same RR connection when there is no call in progress	[TBD]	
16	Sending of concatenated multiple short messages when there is a call in progress	[TBD]	
17	Only circuit switched basic service supported by the mobile is emergency call	22.003, 6, A.1.2	
18	Multi-code transmission	[TBD]	
19	Poll_PU based polling mode of AM RLC	[TBD]	
20	Timer based polling mode of AM RLC	[TBD]	
21	Discard mode of AM RLC	[TBD]	
22	At least one MO circuit switched basic service	[TBD]	
23	At least one MO circuit switched basic service for which immediate connect is not used	[TBD]	
24	Network initiated MO call (CCBS)	24.008, 5.2.3 24.093, 4.1	
25	DTMF protocol control procedure	24.008, 5.5.7	
26	Secondary PDP context activation procedure	24.008, 6.1.3.2	
27	Support of UMTS encryption algorithm UEA1	33.102, 6.6	
28	Support of UMTS integrity algorithm UIA1	33.102, 6.5	
29	Support Automatic calling repeat call attempt	22.001, Annex E	
30	Support auto-calling more B-party numbers than the number of B-party numbers that can be stored in the list of blacklisted numbers	22.001, Annex E	
31	~~Support of SMS Cell Broadcast, i.e. the UE is capable of receiving and displaying broadcast messages.~~(Void)	~~23.041, 8 25.324, 11~~	
32	Support of Follow On Proceed	24.008, 4.4.4.6	
33	Support detach on power down		
34	Support detach on USIM removal		
35	Support switch on/off		
36	Support USIM removal without power down		
37	Indication and user selection of PLMN	23.122, 4.4.3	
38	Support of automatic PS attach procedure at switch on.		

<End of modified section>

3GPP TSG-T1 Meeting #12 ***T1-010333***
Pusan, Korea, 6th – 7th September 2001

3GPP TSG-T1/SIG Meeting #19 ***T1S-010203r1***
Pusan, Korea, 3rd 5th September 2001

CR-Form-v3

CHANGE REQUEST

⌘ **34.123-2** **CR** **031** ⌘ rev **-** ⌘ Current version: **3.4.0** ⌘

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

Proposed change affects: ⌘ (U)SIM ☐ ME/UE **X** Radio Access Network ☐ Core Network ☐

Title:	⌘	Update Table of Aplicability of tests for Layer 2 in TDD
Source:	⌘	Siemens
Work item code:	⌘	LCRTDD L2-3
Date:	⌘	31/08/2001
Category:	⌘	**B**
Release:	⌘	REL-4

Use one of the following categories:
F *(essential 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)*

Reason for change:	⌘	Reflect the update of TS 34.123-1.
Summary of change:	⌘	In the table of Layer 2, new test case for 1.28 McpsTDD is added. Condition is added: Cxxx: UEs supporting 1.28 Mcps TDD option Table A.1: UE Implementation Types 2. Single-mode 3.84 McpsTDD 7. Single-mode 1.28 Mcps TDD is added.
Consequences if not approved:	⌘	Inconsistences between TS 34.123-1 and TS 34.123-2

Clauses affected:	⌘	Clause 4
Other specs affected:	⌘	☐ Other core specifications ⌘ ☐ Test specifications ☐ O&M Specifications
Other comments:	⌘	

4 Recommended test case applicability

The applicability of each individual test is identified in the table 1. This is just a recommendation based on the purpose for which the test case was written.
The applicability of every test is formally expressed by the use of Boolean expression that are based on parameters (ICS) included in annex A of this specification.
The columns in Table 1 have the following meaning:

Clause

The clause column indicates the clause number in 34.123-1 that contains the test body.

Title

The title column describes the name of the test.

Applicability

The following notations are used for the applicability column:

R	recommended - the test case is recommended
N/A	not applicable - in the given context, the test case is not recommended.
Ci	conditional - the test is recommended ("R") or not ("N/A") depending on the support of other items. "i" is an integer identifying an unique conditional status expression which is defined immediately following the table. For nested conditional expressions, the syntax "IF ... THEN (IF ... THEN ... ELSE...) ELSE ..." is used to avoid ambiguities.

Comments

This column contains a verbal description of the condition included in the applicability column.

<Start of modified section>

Table 1: Applicability of tests

LAYER 2			
7.1.1	Permission to access the network	[FFS]	All UEs [FFS]
7.1.2.1	Selection and control of Power Level	R	All UEs
7.1.2.2	Correct application of Dynamic Persistence	R	All UEs
7.1.2.3	Correct Selection of RACH parameters	R	All UEs
7.1.2.4	Correct Detection and Response to FPACH	Cxxx	UEs supporting 1.28 Mcps TDD option
7.1.3	Dynamic Radio Bearer Control	[FFS]	[FFS]
7.1.4	RACH/FACH transmission and retransmission	[FFS]	[FFS]
7.1.5	MAC Access Control Function	[FFS]	[FFS]
7.1.7	Inband identification of UE on DSCH	[FFS]	[FFS]
7.1.8	Mapping between logical channels and transport channels		
7.1.8.1	CCCH mapped to RACH/FACH / Invalid TCTF	R	All UEs
7.1.8.2	DTCH or DCCH mapped to RACH/FACH / Invalid TCTF	R	All UEs
7.1.8.3	DTCH or DCCH mapped to RACH/FACH / Invalid C/T Field	R	All UEs
7.1.8.4	DTCH or DCCH mapped to RACH/FACH / Invalid UE ID Type Field	R	All UEs
7.1.8.5	DTCH or DCCH mapped to RACH/FACH / Incorrect UE ID	R	All UEs
7.1.8.6	DTCH or DCCH mapped to DSCH or USCH	[FFS]	UEs supporting DSCH and/or USCH
7.1.8.7	DTCH or DCCH mapped to CPCH	[FFS]	UEs supporting CPCH
7.1.8.8	DTCH or DCCH mapped to DCH / Invalid C/T Field	R	All Ues
7.1.9.1	Selection of Transport Format depending on instantaneous source rate	[FFS]	[FFS]
7.1.10.1	Priority handling between data flows of one UE	[FFS]	[FFS]
7.1.11.1	Ciphering	[FFS]	[FFS]
7.1.12.1	Access Service class selection for RACH transmission	[FFS]	[FFS]
7.1.12.2	Control of RACH transmissions for FDD mode	[FFS]	[FFS]
7.1.13.1	Control of CPCH transmissions for FDD	[FFS]	UEs supporting CPCH
7.2.1.1	RLC testing / Transparent mode / Segmentation and reassembly	R	All UEs
7.2.2.2	UM RLC / Segmentation and reassembly / Selection of 7 or 15 bit Length Indicators	R	All UEs
7.2.2.3	UM RLC / Segmentation / 7-bit Length Indicators / Padding	R	All UEs
7.2.2.4	UM RLC / Segmentation / 7-bit Length Indicators / LI = 0	R	All UEs
7.2.2.5	UM RLC / Segmentation / 7-bit Length Indicators / Invalid LI value	R	All UEs
7.2.2.6	UM RLC / Segmentation / 7-bit Length Indicators / LI value > PDU	R	All UEs
7.2.2.7	UM RLC / Segmentation / 7-bit Length Indicators / First data octet LI	R	All UEs
7.2.2.8	UM RLC / Segmentation / 15-bit Length Indicators / Padding	R	All UEs
7.2.2.9	UM RLC / Segmentation / 15-bit Length Indicators / LI = 0	R	All UEs
7.2.2.10	UM RLC / Segmentation / 15-bit Length Indicators / One octet short LI	R	All UEs
7.2.2.11	UM RLC / Segmentation / 15-bit Length Indicators / Invalid LI value	R	All UEs
7.2.2.12	UM RLC / Segmentation / 15-bit Length Indicators / LI value > PDU size	R	All UEs
7.2.2.13	UM RLC / Segmentation / 15-bit Length Indicators / First data octet LI	R	All UEs
7.2.3.2	AM RLC / Segmentation and reassembly / Selection of 7 or 15 bit Length Indicators	R	All UEs
7.2.3.3	AM RLC / Segmentation / 7-bit Length Indicators / Padding	R	All UEs

7.2.3.4	AM RLC / Segmentation / 7-bit Length Indicators / LI = 0	R	All UEs
7.2.3.5	AM RLC / Segmentation / 7-bit Length Indicators / Reserved LI value	R	All UEs
7.2.3.6	AM RLC / Segmentation / 7-bit Length Indicators / LI value > PDU	R	All UEs
7.2.3.7	AM RLC / Segmentation / 15-bit Length Indicators / Padding or Piggy-backed Status	R	All UEs
7.2.3.8	AM RLC / Segmentation / 15-bit Length Indicators / LI = 0	R	All UEs
7.2.3.9	AM RLC / Segmentation / 15-bit Length Indicators / One octet short LI	R	All UEs
7.2.3.10	AM RLC / Segmentation / 15-bit Length Indicators / Reserved LI value	R	All UEs
7.2.3.11	AM RLC / Segmentation / 15-bit Length Indicators / LI value > PDU size	R	All UEs
7.2.3.12	AM RLC / Correct use of Sequence Numbering	R	All UEs
7.2.3.13	AM RLC / Control of Transmit Window	R	All UEs
7.2.3.14	AM RLC / Control of Receive Window	R	All UEs
7.2.3.15	AM RLC / Polling for status / Last PU in transmission queue	R	All UEs
7.2.3.16	AM RLC / Polling for status / Last PU in retransmission queue	R	All UEs
7.2.3.17	AM RLC / Polling for status / Poll every Poll_PU PUs	R	All UEs
7.2.3.18	AM RLC / Polling for status / Poll every Poll_SDU SDUs	R	All UEs
7.2.3.19	AM RLC / Polling for status / Timer triggered polling (Timer_Poll_Periodic)	R	All UEs
7.2.3.20	AM RLC / Polling for status / Polling on Poll_Window% of transmission window	R	All UEs
7.2.3.21	AM RLC / Polling for status / Operation of Timer_Poll timer / Timer expiry	R	All UEs
7.2.3.22	AM RLC / Polling for status / Operation of Timer_Poll timer / Stopping Timer_Poll timer	R	All UEs
7.2.3.23	AM RLC / Polling for status / Operation of Timer_Poll timer / Restart of the Timer_Poll timer	R	All UEs
7.2.3.24	AM RLC / Polling for status / Operation of timer Timer_Poll_Prohibit	R	All UEs
7.2.3.25	AM RLC / Receiver Status Triggers / Detection of missing PUs	R	All UEs
7.2.3.26	AM RLC / Receiver Status Triggers / Operation of timer Timer_Status_Periodic	R	All UEs
7.2.3.27	AM RLC / Receiver Status Triggers / Operation of timer Timer_Status_Prohibit	R	All UEs
7.2.3.28	AM RLC / Status reporting / Abnormal conditions / Reception of LIST SUFI with Length set to zero	R	All UEs
7.2.3.29	AM RLC / Timer based discard, with explicit signalling / Expiry of Timer_Discard	R	All UEs
7.2.3.29a	AM RLC / Timer based discard, with explicit signalling / Expiry of Timer_Discard when Timer_STATUS_prohibit is active	R	All UEs
7.2.3.30	AM RLC / Timer based discard, with explicit signalling / Obsolete MRW_ACK	R	All UEs
7.2.3.31	AM RLC / Timer based discard, with explicit signalling / Failure of MRW procedure	R	All UEs
7.2.3.32	AM RLC / SDU discard after MaxDAT number of retransmissions	R	All UEs
7.2.3.33	AM RLC / Operation of the RLC Reset procedure / UE Originated	R	All UEs
7.2.3.34	AM RLC / Operation of the RLC Reset procedure / UE Terminated	R	All UEs

<End of modified section>

<Start of modified section>

C01	IF A.1/1 OR A.1/3 OR A.1/4 OR A.1/6 THEN R ELSE N/A
C02	IF A.1/2 OR A.1/3 OR A.1/5 OR A.1/6 THEN R ELSE N/A
C03	IF A.1/3 OR A.1/6 THEN R ELSE N/A
C04	IF (A.1/1 OR A.1/3 OR A.1/4 OR A.1/6) AND A.2/2 THEN R ELSE N/A
C05	IF A.1/4 OR A.1/6 THEN R ELSE N/A
C06	IF (A.1/1 OR A.1/3 OR A.1/4 OR A.1/6) AND A.3/2 THEN R ELSE N/A
C07	IF (A.1/1 OR A.1/3 OR A.1/4 OR A.1/6) AND A.20/27 THEN R ELSE N/A
C08	IF (A.1/1 OR A.1/3 OR A.1/4 OR A.1/6) AND A.20/28 THEN R ELSE N/A
C09	IF (A.1/1 OR A.1/3 OR A.1/4 OR A.1/6) AND NOT A.20/3 THEN R ELSE N/A
C10	IF A.20/4 THEN R ELSE N/A
C11	IF A.20/5 THEN R ELSE N/A
C12	IF A.3/2 THEN R ELSE N/A
C13	IF A.2/1 OR A.2/2 OR A.10/2 THEN R ELSE N/A
C14	IF A.20/4 OR A.20/5 THEN R ELSE N/A
C15	IF A.10/2 THEN R ELSE N/A
C16	IF A.20/1 THEN R ELSE N/A
C17	IF A.3/3 AND A.20/7 THEN R ELSE N/A
C18	IF A.2/3 THEN R ELSE N/A
C19	IF A.1/1 THEN R ELSE N/A
C20	IF A.2/4 THEN R ELSE N/A
C21	IF A.20/8 AND A.3/1 THEN R ELSE N/A
C22	IF A.20/9 AND A.3/1 THEN R ELSE N/A
C23	IF A.3/1 THEN R ELSE N/A
C24	IF A.20/11 AND A.3/1 THEN R ELSE N/A
C25	IF A.20/12 AND A.3/1 THEN R ELSE N/A
C26	IF A.2/5 THEN R ELSE N/A
C27	IF A.2/6 THEN R ELSE N/A
C28	IF A.20/8 AND A.3/2 THEN R ELSE N/A
C29	IF A.20/9 AND A.3/2 THEN R ELSE N/A
C30	A.3/2 THEN R ELSE N/A
C31	IF A.20/11 AND A.3/2 THEN R ELSE N/A
C32	IF A.20/12 AND A.3/2 THEN R ELSE N/A
C33	IF A.20/13 AND A.3/1 THEN R ELSE N/A
C34	IF A.20/14 AND A.2/4 AND A.3/1 THEN R ELSE N/A
C35	IF A.20/15 AND A.3/1 THEN R ELSE N/A
C36	IF A.20/16 AND A.3/1 THEN R ELSE N/A
C37	IF A.20/13 AND A.3/2 THEN R ELSE N/A
C38	IF A.20/14 AND A.2/6 THEN R ELSE N/A
C39	IF A.20/15 AND A.3/2 THEN R ELSE N/A
C40	IF A.20/16 AND A.3/2 THEN R ELSE N/A
C41	IF (NOT A.20/17) AND (NOT A.20/6) AND A.20/5 THEN R ELSE N/A
C42	IF A.17/1 AND A.18/1 AND A.18b/3 THEN R ELSE N/A
C43	IF A.2/1 AND A.3/1 AND A.6/1 AND A.17/1 AND A.18/1 THEN R ELSE N/A
C44	IF A.3/1 AND A.6/1 AND A.17/2 AND A.18/2 THEN R ELSE N/A
C45	IF A.3/1 AND A.6/2 AND A.17/2 AND A.18/2 THEN R ELSE N/A
C46	IF (A.3/1 OR A.3/2) AND A.6/2 AND A.17/2 AND A.18/1 THEN R ELSE N/A
C47	IF (A.3/1 OR A.3/2) AND A.6/2 AND A.17/1 AND A.18/2 THEN R ELSE N/A
C48	IF (A.3/1 OR A.3/2) AND A.6/2 AND A.17/4 AND A.18/1 THEN R ELSE N/A
C49	IF (A.3/1 OR A.3/2) AND A.6/2 AND A.17/1 AND A.18/4 THEN R ELSE N/A
C50	IF (A.3/1 OR A.3/2) AND A.6/2 AND A.17/6 AND A.18/1 THEN R ELSE N/A
C51	IF A.3/2 AND (A.6/3 OR A.6/4) AND A.17/1 AND A.18/1 THEN R ELSE N/A
C52	IF A.3/2 AND (A.6/3 OR A.6/4) AND A.17/1 AND A.18/2 THEN R ELSE N/A
C53	IF A.3/2 AND (A.6/3 OR A.6/4) AND A.17/2 AND A.18/1 AND A.18b/1 THEN R ELSE N/A
C54	IF A.3/2 AND (A.6/3 OR A.6/4) AND A.17/2 AND A.18/2 THEN R ELSE N/A
C55	IF A.3/2 AND (A.6/3 OR A.6/4) AND A.17/3 AND A.18/2 THEN R ELSE N/A
C56	IF A.3/2 AND (A.6/3 OR A.6/4) AND A.17/3 AND A.18/3 THEN R ELSE N/A
C57	IF A.3/2 AND (A.6/3 OR A.6/4) AND A.17/4 AND A.18/2 THEN R ELSE N/A
C58	IF A.3/2 AND (A.6/3 OR A.6/4) AND A.17/4 AND A.18/3 THEN R ELSE N/A
C59	IF A.3/2 AND (A.6/3 OR A.6/4) AND A.17/4 AND A.18/4 THEN R ELSE N/A
C60	IF A.3/2 AND (A.6/3 OR A.6/4) AND A.17/5 AND A.18/2 THEN R ELSE N/A
C61	IF A.3/2 AND (A.6/3 OR A.6/4) AND A.17/5 AND A.18/3 THEN R ELSE N/A
C62	IF A.3/2 AND (A.6/3 OR A.6/4) AND A.17/5 AND A.18/5 THEN R ELSE N/A
C63	IF A.3/2 AND (A.6/3 OR A.6/4) AND A.17/6 AND A.18/2 AND A.13/2 THEN R ELSE N/A
C64	IF A.3/2 AND (A.6/3 OR A.6/4) AND A.17/6 AND A.18/3 AND A.13/2 THEN R ELSE N/A
C65	IF A.3/2 AND (A.6/3 OR A.6/4) AND A.17/6 AND A.18/4 AND A.13/2 THEN R ELSE N/A
C66	IF A.3/2 AND (A.6/3 OR A.6/4) AND A.17/6 AND A.18/5 AND A.13/2 THEN R ELSE N/A
C67	IF A.2/1 AND A.3/3 AND A.6/1 AND (A.6/3 OR A.6/4) AND A.17/2 AND A.18/2 AND A.18b/1 THEN R ELSE N/A

C68 IF A.2/1 AND A.3/3 AND A.6/1 AND (A.6/3 OR A.6/4) AND A.17/3 AND A.18/2 THEN R ELSE N/A
C69 IF A.2/1 AND A.3/3 AND A.6/1 AND (A.6/3 OR A.6/4) AND A.17/4 AND A.18/2 THEN R ELSE N/A
C70 IF A.2/1 AND A.3/3 AND A.6/1 AND (A.6/3 OR A.6/4) AND A.17/5 AND A.18/2 THEN R ELSE N/A
C71 IF A.2/1 AND A.3/3 AND A.6/1 AND (A.6/3 OR A.6/4) AND A.17/6 AND A.18/3 AND A.13/2 THEN R ELSE N/A
C72 IF A.7/28 AND A.2/1 AND A.3/1 AND A.6/1 AND A.6/2 AND A.17/2 AND A.18/2 THEN R ELSE N/A
C73 IF A.2/1 AND ((A.3/1 AND A.7/28) OR A.3/3) AND A.6/1 AND A.6/2 AND A.17/2 AND A.18/1 THEN R ELSE N/A
C74 IF A.2/1 AND A.3/1 AND A.7/28 AND A.6/1 AND A.6/2 AND A.17/3 AND A.18/1 THEN R ELSE N/A
C75 IF A.2/1 AND A.3/1 AND A.7/28 AND A.6/1 AND A.6/2 AND A.17/6 AND A.18/1 THEN R ELSE N/A
C76 IF A.7/28 AND A.2/1 AND A.3/1 AND A.6/1 AND A.17/2 AND A.18/2 THEN R ELSE N/A
C77 IF A.7/28 AND A.3/1 AND A.6/1 AND A.17/4 AND A.18/4 THEN R ELSE N/A
C78 IF A.3/3 AND A.6/1 AND (A.6/3 OR A.6/4) AND A.17/4 AND A.18/4 THEN R ELSE N/A
C79 IF (A.3/2 OR A.3/3) AND A.6/2 AND (A.6/3 OR A.6/4) AND A.17/4 AND A.18/2 THEN R ELSE N/A
C80 IF A.3/2 AND A.6/2 AND (A.6/3 OR A.6/4) AND A.17/5 AND A.18/2 THEN R ELSE N/A
C81 IF A.3/2 AND (A.6/3 OR A.6/4) AND A.17/5 AND A.18/2 AND A.18b/4 THEN R ELSE N/A

Alternatively to DL 768 kbps class the test case may be applicable to DL 384 kbps class, then:
IF A.3/2 AND (A.6/3 OR A.6/4) AND A.17/4 AND A.18/2 AND A.18b/4 AND THEN E ELSE N/A

C82 IF A.3/3 AND (A.6/3 OR A.6/4) AND A.17/5 AND A.18/2 AND A.18b/4 THEN R ELSE N/A

Alternatively to DL 768 kbps class the test case may be applicable to DL 384 kbps class, then:
IF A.2/1 AND A.3/3 AND A.6/1 AND (A.6/3 OR A.6/4) AND A.17/4 AND A.18/2 AND A.18b/4 THEN R ELSE N/A

C83 IF A.2/1 AND A.3/3 AND A.6/1 AND (A.6/3 OR A.6/4) AND A.17/6 AND A.18/2 AND A.18b/4 AND A.13/2 THEN R ELSE N/A
C84 IF A.17/1 THEN R ELSE N/A
C85 IF A.3/2 AND (A.6/3 OR A.6/4) AND A.17/1 THEN R ELSE N/A
C86 IF A.3/2 AND (A.6/3 OR A.6/4) AND A.18/1 THEN R ELSE N/A
C87 IF A.3/2 AND (A.6/3 OR A.6/4) AND A.17/6 AND A.18/2 AND A.18b/4 AND A.13/2 THEN R ELSE N/A
C88 IF A.3/3 THEN R ELSE N/A.
C89 IF (A.3/1 OR A.3/2) AND A.6/2 AND A.17/6 AND A.18/1 AND A.18b/1 AND A.18b/2 THEN R ELSE N/A
C90 IF A.3/2 AND (A.6/3 OR A.6/4) AND A.17/2 AND A.18/1 AND A.18b/1 AND A.18b/2 THEN R ELSE N/A
C91 IF A.3/2 AND (A.6/3 OR A.6/4) AND A.17/6 AND A.18/5 AND A.18b/1 AND A.18b/2 THEN R ELSE N/A
C92 IF A.2/1 AND A.3/3 AND A.6/1 AND (A.6/3 OR A.6/4) AND A.17/2 AND A.18/2 AND A.18b/1 AND A.18b/2 THEN R ELSE N/A
C93 IF A.20/29 THEN R ELSE N/A
C94 IF A.20/29 AND A.20/30 THEN R ELSE N/A
C95 IF (A.1/4 OR A.1/6) AND (A.2/1 OR A.2/2) THEN R ELSE N/A
C96 IF A.2/2 THEN R ELSE N/A
C97 IF (A.1/4 OR A.1/6) AND A.3/1 AND (A.4/1 OR A.4/2 OR A.4/3 OR A.4/4 OR A.4/5 OR A.4/6 OR A.4/7 OR A.4/8 OR A.4/9 OR A.4/10 OR A.4/11 OR A.4/12 OR A.4/13 OR A.4/14 OR A.4/15 OR A.4/16 OR A.4/17 OR A.4/18 OR A.4/19 OR A.4/20 OR A.4/21 OR A.4/22 OR A.4/23 OR A.4/24 OR A.4/25 OR A.4/26 OR A.4/27 OR A.4/28) THEN R ELSE N/A
C98 IF A.3/1 OR A.3/3 THEN R ELSE N/A.
C99 IF (A.3/1 OR A.3/3) AND A.20/36 THEN R ELSE N/A.
C100 IF (A.3/1 OR A.3/3) AND A.7/30 THEN R ELSE N/A.
C101 IF A.2/3 AND A.2/4 THEN R ELSE N/A
C102 IF A.2/5 AND A.2/6 THEN R ELSE N/A
C103 IF A.3/3 AND (NOT A.20/38) THEN R ELSE N/A
C104 IF A.20/37 AND (A.1/1 OR A.1/3 OR A.1/4 OR A.1/6) THEN R ELSE N/A
C105 IF A.20/37 AND (A.1/4 OR A.1/6) THEN R ELSE N/A
C106 IF (A.1/1 OR A.1/3 OR A.1/4 OR A.1/6) AND A.2/1 AND A.2/2 THEN R ELSE N/A
Cxxx IF A.1.7 THEN R ELSE N/A

<End of modified section>

<Start of modified section>

A.4 ICS proforma tables

A.4.1 UE Implementation Types

Table A.1: UE Implementation Types

Item	UE Implementation Types	Ref.	Comments
1	Single-mode FDD (DS)	21.904, 5	
2	Single-mode 3.84 McpsTDD	21.904, 5	
3	Dual-mode FDD (DS)/TDD	21.904, 5	
4	Dual-mode FDD (DS)/GSM	21.904, 5	
5	Dual-mode TDD/GSM	21.904, 5	
6	Tri-mode FDD(DS)/TDD/GSM	21.904, 5	
7	Single-mode 1.28 Mcps TDD	25.102	

<End of modified section>

3GPP TSG-T1 Meeting #12 ***T1-010334***
Busan, Korea, 6-7 September, 2001

3GPP TSG T1/SIG Meeting #19 ***T1S-010194***
Busan, Korea, 3 – 5 September

CR-Form-v4

CHANGE REQUEST

⌘ **34.123-2** **CR** **032** ⌘ ev **-** ⌘ Current version: **3.4.0** ⌘

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

Proposed change affects: ⌘ (U)SIM ☐ ME/UE ☐ Radio Access Network ☐ Core Network ☐

Title:	⌘	Editorial modification for References (34.123-2 clause 2)
Source:	⌘	NTTDoCoMo
Work item code:	⌘	***Date:*** ⌘
Category:	⌘ **D**	***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)*

Reason for change:	⌘	Reference specification informations are wrong
Summary of change:	⌘	Specification's names and numbers were changed.
Consequences if not approved:	⌘	

Clauses affected:	⌘			
Other specs affected:	⌘	☐ Other core specifications ☐ Test specifications ☐ O&M Specifications	⌘	
Other comments:	⌘			

How to create CRs using this form:
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http://www.3gpp.org/3G_Specs/CRs.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.

2 References

The following documents contain provisions which, through reference in this text, constitute provisions of the present document.

- References are either specific (identified by date of publication, edition number, version number, etc.) or non-specific.
- For a specific reference, subsequent revisions do not apply.
- For a non-specific reference, the latest version applies. In the case of a reference to a 3GPP document (including a GSM document), a non-specific reference implicitly refers to the latest version of that document in the same Release as the present document.

[1] ISO/IEC 9646-1: "Information technology - Open systems interconnection - Conformance testing methodology and framework - Part 1: General concepts".

[2] ISO/IEC 9646-7: "Information technology - Open systems interconnection - Conformance testing methodology and framework - Part 7: Implementation Conformance Statements".

[3] ETSI ETS 300 406 (January 1995): "Methods for testing and Specification (MTS); Protocol and profile conformance testing specifications; Standardization methodology".

[4] 3GPP TR 21.904: "Terminal Capability Requirements".

[5] 3GPP TS 22.002: "Circuit Bearer Services (BS) supported by a GSM; Public Land Mobile Network (PLMN)".

[6] 3GPP TS 22.003: "Circuit Teleservices supported by a Public Land Mobile Network (PLMN)".

[7] 3GPP TS 22.004: "General on Supplementary Services".

[8] 3GPP TS 22.042: "Network Identity and Timezone (NITZ); Service description, Stage 1".

[9] 3GPP TS 22.057: "Mobile Station Application Execution Environment (MExE); Service description, Stage 1".

[10] 3GPP TS 22.060: "General Packet Radio Service (GPRS); Service description, Stage 1".

[11] 3GPP TS 22.067: "~~Enhanced~~ enhanced Multi-Level Precedence and Pre-emption ~~Service~~ service (~~EMLPP~~eMLPP) - Stage ~~2~~1".

[12] 3GPP TS 22.071: "Location Services (LCS); Service description, Stage 1".

[13] 3GPP TS 22.072: "Call Deflection Service description - Stage 1".

[14] 3GPP TS 22.081: "Line identification Supplementary Services; Stage 1"

[15] 3GPP TS 22.082: "Call Forwarding (CF) supplementary services - Stage 1".

[16] 3GPP TS 22.083: "Call Waiting (CW) and Call Holding (HOLD); Supplementary Services - Stage 1".

[17] 3GPP TS 22.084: "MultiParty (MPTY) Supplementary Services - Stage 1".

[18] 3GPP TS 22.085: "Closed User Group (CUG) Supplementary Services - Stage 1".

[19] 3GPP TS 22.086: "Advice of Charge (AoC) Supplementary Services - Stage 1".

[20] 3GPP TS 22.087: "User-to-~~user~~ User signalling (UUS); Service description - Stage 1".

[21] 3GPP TS 22.088: "Call Barring (CB) Supplementary Services - Stage 1".

[22] 3GPP TS 22.090: "Unstructured Supplementary Service Data (USSD) - Stage 1".

[23] 3GPP TS 22.091: "Explicit Call Transfer (ECT)".

[24] 3GPP TS 22.093: "Completion of Calls to Busy Subscriber (CCBS); Service description, Stage 1".

[25] 3GPP TS 22.094: "Follow Me Service description; - Stage 13".

[26] 3GPP TS 22.096: "Name identification supplementary services; Stage 1".

[27] 3GPP TS 22.097: "Multiple Subscriber Profile (MSP) Phase 1; Service description - Stage 1".

[28] 3GPP TS 22.105: "Services and Service Capabilities".

[29] 3GPP TS 24.008: "Mobile Radio radio Interface interface Layer 3 specification; Core Network Protocols - Stage 3".

[30] 3GPP TS 22.135: "Multicall-; Service description; Stage 12"

[31] 3GPP TS 23.107: "Quality of ServiceQoS, Concept and Architecture".

[32] 3GPP TS 25.201: "Physical layer -General Description".

[33] 3GPP TS 25.101: "UE radio transmission Transmission and reception Reception (FDD)".

[34] 3GPP TS 25.102: " UTRA (UE) TDD; Radio Transmission and ReceptionUE radio transmission and reception (TDD)".

[34a] 3GPP TS 25.306: "UE Radio Access Capabilities"

[35] 3GPP TS 25.321: " Medium Access Control (MAC) Protocol Specification".

[36] 3GPP TS 25.322: "Radio Link Control (RLC) Protocol Specification".

[37] 3GPP TS 25.323: "Packet Data Convergence Protocol (PDCP) Specificationprotocol".

[38] 3GPP TS 25.324: "Radio Interface for Broadcast/Multicast Control BMC Services".

[39] 3GPP TS 25.331: " Radio Resource Control (RRC) Protocol Specification".

[40] Void

[41] 3GPP TS 26.071: " Mandatory Speech Codec speech processing functions AMR speech Speech Codec; General descriptionDescription".

[42] 3GPP TS 26.111: "Codec for Circuit circuit switched Multimedia multimedia Telephony telephony Serviceservice; Modifications to H.324"

[43] 3GPP TS 31.111: "USIM Application Toolkit (USAT)".

[44] 3GPP TS 34.108: "Common Test Environments for User Equipment (UE) Conformance Testing".

[45] 3GPP TS 34.109: " Terminal logical test interface; Special conformance testing functionsLogical Test Interface (TDD and FDD)".

[46] 3GPP TS 34.121: "Terminal Conformance Specification, Radio Transmission transmission and Reception reception (FDD)".

[47] 3GPP TS 34.122: "Terminal Conformance Specification, Radio Transmission and Reception (FDDTDD)".

[48] 3GPP TS 34.124: "Electro-Magnetic Compatibility (EMC) for Terminal equipment - stage 1".

[49] 3GPP TS 34.123-1: "User Equipment (UE) ~~Conformance~~ conformance ~~Specifications~~specification, Part 1 - Protocol ~~Conformance~~ conformance specification".

[50] 3GPP TS 34.123-3: "User Equipment (UE) Conformance Specification, Part 3 - Abstract Test Suite".

[51] 3GPP TS 22.001: " Principles of circuit telecommunication services supported by a Public Land Mobile Network (PLMN)".

3GPP TSG-T1 Meeting #12
Busan, Korea, 6-7 September 2001

Tdoc T1-010368

CR-Form-v4

CHANGE REQUEST

⌘ **34.123-2** **CR** **034** ⌘ ev **-** ⌘ Current version: **3.4.0** ⌘

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

Proposed change affects: ⌘ (U)SIM ☐ ME/UE ☒ Radio Access Network ☐ Core Network ☐

Title:	⌘	Inclusion of pointer to maintained specification
Source:	⌘	T1
Work item code:	⌘	TEI
Date:	⌘	5/09/01
Category:	⌘	**F**
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)*

Reason for change:	⌘	T1-010273 proposes the creation of the new Rel-4 of 34.123-2 as a merged document with the R99 specification. As consequence, the R99 specification will be no longer maintained. In order to avoid confusion, a pointer to the maintained version of the specification is included in 34.123-2 R99 and the specification can be closed after the implementation of this CR. Note: All the testcases related to R99 can be found in TS 34.123-2 Rel-4.
Summary of change:	⌘	Deletion of text and inclusion of pointer to the updated version of the specification
Consequences if not approved:	⌘	It will not be clear that this release of the specification is not longer maintained

Clauses affected:	⌘	All
Other specs affected:	⌘	☐ Other core specifications ⌘ ☐ Test specifications ☐ O&M Specifications
Other comments:	⌘	

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

3GPP TS 34.123-2 V3.45.0 (2001-0609)

Technical Specification

3rd Generation Partnership Project; Technical Specification Group Terminal; User Equipment (UE) conformance specification; Part 2: Implementation Conformance Statement (ICS) proforma specification (Release 1999)

Keywords
ICS, Mobile, UE, Terminal, Testing, UMTS

3GPP

Postal address

3GPP support office address
650 Route des Lucioles - Sophia Antipolis
Valbonne - FRANCE
Tel.: +33 4 92 94 42 00 Fax: +33 4 93 65 47 16

Internet
http://www.3gpp.org

Contents

Foreword

This Technical Specification (TS) has been produced by the 3rd Generation Partnership Project (3GPP).

The contents of the present document are subject to continuing work within the TSG and may change following formal TSG approval. Should the TSG modify the contents of the present document, it will be re-released by the TSG with an identifying change of release date and an increase in version number as follows:

Version x.y.z

where:

- x the first digit:
  - 1 presented to TSG for information;
  - 2 presented to TSG for approval;
  - 3 or greater indicates TSG approved document under change control.
- y the second digit is incremented for all changes of substance, i.e. technical enhancements, corrections, updates, etc.
- z the third digit is incremented when editorial only changes have been incorporated in the document.

Introduction

To evaluate conformance of a particular implementation, it is necessary to have a statement of which capabilities and options have been implemented for a telecommunication specification. Such a statement is called an Implementation Conformance Statement (ICS).

1 Scope

The present document provides the Implementation Conformance Statement (ICS) proforma for 3rd Generation User Equipment (UE), in compliance with the relevant requirements, and in accordance with the relevant guidance given in ISO/IEC 9646-7 [2] and ETS 300 406 [3].

This document also specifies a recommended applicability statement for the test cases included in TS 34.123-1. These applicability statements are based on the features implemented in the UE.

Special conformance testing functions can be found in 3GPP TS 34.109 [45] and the common test environments are included in 3GPP TS 34.108 [44].

2 References

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- References are either specific (identified by date of publication, edition number, version number, etc.) or non-specific.
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[1] ~~ISO/IEC 9646-1: "Information technology - Open systems interconnection - Conformance testing methodology and framework - Part 1: General concepts"~~(void)~~.~~

[2] ISO/IEC 9646-7: "Information technology - Open systems interconnection - Conformance testing methodology and framework - Part 7: Implementation Conformance Statements".

[3] ETSI ETS 300 406 (January 1995): "Methods for testing and Specification (MTS); Protocol and profile conformance testing specifications; Standardization methodology".

[4] to [43] (void)

~~[4] 3GPP TR 21.904: "Terminal Capability Requirements".~~

~~[5] 3GPP TS 22.002: "Bearer Services (BS) supported by a GSM; Public Land Mobile Network (PLMN)".~~

~~[6] 3GPP TS 22.003: "Circuit Teleservices supported by a Public Land Mobile Network (PLMN)".~~

~~[7] 3GPP TS 22.004: "General on Supplementary Services".~~

~~[8] 3GPP TS 22.042: "Network Identity and Timezone (NITZ); Service description, Stage 1".~~

~~[9] 3GPP TS 22.057: "Mobile Station Application Execution Environment (MExE); Stage 1".~~

~~[10] 3GPP TS 22.060: "General Packet Radio Service (GPRS); Stage 1".~~

~~[11] 3GPP TS 22.067: "Enhanced Multi Level Precedence and Preemption Service (EMLPP) - Stage 2".~~

~~[12] 3GPP TS 22.071: "Location Services (LCS); Stage 1".~~

~~[13] 3GPP TS 22.072: "Call Deflection Service description - Stage 1".~~

~~[14] 3GPP TS 22.081: "Line identification Supplementary Services; Stage 1"~~

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~~[19] 3GPP TS 22.086: "Advice of Charge (AoC) Supplementary Services - Stage 1".~~

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~~[25] 3GPP TS 22.094: "Follow Me - Stage 3".~~

~~[26] 3GPP TS 22.096: "Name identification supplementary services; Stage 1".~~

~~[27] 3GPP TS 22.097: "Multiple Subscriber Profile (MSP) Phase 1; Service description - Stage 1".~~

~~[28] 3GPP TS 22.105: "Services and Service Capabilities".~~

~~[29] 3GPP TS 24.008: "Mobile Radio Interface Layer 3 specification; Core Network Protocols - Stage 3".~~

~~[30] 3GPP TS 22.135: "Multicall Stage 2"~~

~~[31] 3GPP TS 23.107: "Quality of Service, Concept and Architecture".~~

~~[32] 3GPP TS 25.201: "Physical layer -General Description".~~

~~[33] 3GPP TS 25.101: "UE radio transmission and reception (FDD)".~~

~~[34] 3GPP TS 25.102: "UE radio transmission and reception (TDD)".~~

~~[34a] 3GPP TS 25.306: "UE Radio Access Capabilities"~~

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~~[39] 3GPP TS 25.331: "Radio Resource Control (RRC) Protocol Specification".~~

~~[40] Void~~

~~[41] 3GPP TS 26.071: "AMR speech Codec; General description".~~

~~[42] 3GPP TS 26.111: "Codec for Circuit switched Multimedia Telephony Service; Modifications to H.324"~~

~~[43] 3GPP TS 31.111: "USIM Application Toolkit (USAT)".~~

[44] 3GPP TS 34.108: "Common Test Environments for User Equipment (UE) Conformance Testing".

[45] 3GPP TS 34.109: "Logical Test Interface (TDD and FDD)".

[46] ~~3GPP TS 34.121: "Terminal Conformance Specification, Radio Transmission and Reception (FDD)".~~(void)

[47] ~~3GPP TS 34.122: "Terminal Conformance Specification, Radio Transmission and Reception (FDD)".~~(void)

[48] ~~3GPP TS 34.124: "Electro-Magnetic Compatibility (EMC) for Terminal equipment - stage 1".~~(void)

[49] 3GPP TS 34.123-1: "User Equipment (UE) Conformance Specification, Part 1 - Conformance specification".

[50] ~~3GPP TS 34.123-3: "User Equipment (UE) Conformance Specification, Part 3 - Abstract Test Suite".~~(void)

[51] ~~3GPP TS 22.001: " Principles of circuit telecommunication services supported by a Public Land Mobile Network (PLMN)".~~(void)

[52] 3GPP TS 34.123-2 version 4 (Release 4): “User Equipment (UE) Conformance Specification, Part 2 - Implementation Conformance Statement (ICS) proforma specification”

3 Definitions and abbreviations

(void)

~~3.1 Definitions~~

~~For the purposes of the present document, the following terms and definitions apply:~~

~~- terms defined in the relevant 3GPP core specifications (see normative references);~~

~~- terms defined in ISO/IEC 9646-1 [1] and in ISO/IEC 9646-7 [2].~~

~~In particular, the following terms defined in ISO/IEC 9646-1 [1] apply:~~

~~**Implementation Conformance Statement (ICS):** statement made by the supplier of an implementation or system claimed to conform to a given specification, stating which capabilities have been implemented. The ICS can take several forms: protocol ICS, profile ICS, profile specific ICS, information object ICS, etc.~~

~~**ICS proforma:** document, in the form of a questionnaire, which when completed for an implementation or system becomes an ICS.~~

~~3.2 Abbreviations~~

~~For the purposes of the present document, the following abbreviations apply:~~

~~ICS Implementation Conformance Statement~~
~~SCS System Conformance Statement~~
~~UEUT User Equipment Under Test~~

4 ~~Recommended test case applicability~~Requirements

The requirements of the present document are provided in 3GPP TS 34.123-2 [52].

~~The applicability of each individual test is identified in the table 1. This is just a recommendation based on the purpose for which the test case was written.~~

~~The applicability of every test is formally expressed by the use of Boolean expression that are based on parameters (ICS) included in annex A of this specification.~~

The columns in Table 1 have the following meaning:

Clause

The clause column indicates the clause number in 34.123-1 that contains the test body.

Title

The title column describes the name of the test.

Applicability

The following notations are used for the applicability column:

R recommended - the test case is recommended

N/A not applicable - in the given context, the test case is not recommended.

Ci conditional - the test is recommended ("R") or not ("N/A") depending on the support of other items. "i" is an integer identifying an unique conditional status expression which is defined immediately following the table. For nested conditional expressions, the syntax "IF ... THEN (IF ... THEN ... ELSE...) ELSE ..." is used to avoid ambiguities.

Comments

This column contains a verbal description of the condition included in the applicability column.

Table 1: Applicability of tests

Clause	Title	Applicability	Comments
IDLE MODE			
6.1.1.1	PLMN selection of RPLMN, HPLMN, UPLMN and OPLMN; Manual mode	C104	UEs supporting FDD and PLMN selection
6.1.1.2	PLMN selection of "Other PLMN / access technology combinations"; Manual mode	C104	UEs supporting FDD and PLMN selection
6.1.1.3	PLMN selection; independence of RF level and preferred PLMN; Manual mode	C104	UEs supporting FDD and PLMN selection
6.1.1.4	PLMN selection of RPLMN, HPLMN, UPLMN and OPLMN; Automatic mode	C104	UEs supporting FDD and PLMN selection
6.1.1.5	PLMN selection of "Other PLMN / access technology combinations"; Automatic mode	C104	UEs supporting FDD and PLMN selection
6.1.1.6	UE will transmit only if PLMN available	C106	UEs supporting FDD and speech and emergency speech call
6.1.2.1	Cell reselection	C01	UEs supporting FDD
6.1.2.2	Cell reselection using Qhyst, Qoffset and Treselection	C01	UEs supporting FDD
6.1.2.3	HCS cell reselection	C01	UEs supporting FDD
6.1.2.4	HCS cell reselection using reselection timing parameters for the H criterion	C01	UEs supporting FDD.
6.1.2.5	HCS Cell reselection using reselection timing parameters for the R criterion	C01	UEs supporting FDD
6.1.2.6	Emergency calls	C04	UEs supporting FDD and emergency speech call
6.2.1.1	Selection of the correct PLMN and associated RAT	C105	UEs supporting FDD and GSM and PLMN selection
6.2.1.2	Selection of RAT for HPLMN; Manual mode	C105	UEs supporting FDD and GSM and PLMN selection
6.2.1.3	Selection of RAT for UPLMN; Manual mode	C105	UEs supporting FDD and GSM and PLMN selection
6.2.1.4	Selection of RAT for OPLMN; Manual mode	C105	UEs supporting FDD and GSM and PLMN selection
6.2.1.5	Selection of "Other PLMN / access technology combinations"; Manual mode	C105	UEs supporting FDD and GSM and PLMN selection
6.2.1.6	Selection of RAT for HPLMN; Automatic mode	C105	UEs supporting FDD and GSM and PLMN selection
6.2.1.7	Selection of RAT for UPLMN; Automatic mode	C105	UEs supporting FDD and GSM and PLMN selection
6.2.1.8	Selection of RAT for OPLMN; Automatic mode	C105	UEs supporting FDD and GSM and PLMN selection
6.2.1.9	Selection of "Other PLMN / access technology combinations"; Automatic mode	C105	UEs supporting FDD and GSM and PLMN selection
6.2.2.1	Cell reselection if cell becomes barred or S<0; UTRAN to GSM	C05	UEs supporting FDD and GSM
6.2.2.2	Cell reselection if cell becomes barred or C1<0; GSM to; UTRAN	C05	UEs supporting FDD and GSM
6.2.2.3	Cell reselection timings; GSM to UTRAN	C05	UEs supporting FDD and GSM
LAYER 2			
7.1.1	Permission to access the network	[FFS]	All UEs [FFS]
7.1.2.1	Selection and control of Power Level	R	All UEs
7.1.2.2	Correct application of Dynamic Persistence	R	All UEs
7.1.2.3	Correct Selection of RACH parameters	R	All UEs
7.1.3	Dynamic Radio Bearer Control	[FFS]	[FFS]
7.1.4	RACH/FACH transmission and retransmission	[FFS]	[FFS]
7.1.5	MAC Access Control Function	[FFS]	[FFS]
7.1.7	Inband identification of UE on DSCH	[FFS]	[FFS]
7.1.8	Mapping between logical channels and transport channels		
7.1.8.1	CCCH mapped to RACH/FACH / Invalid TCTF	R	All UEs
7.1.8.2	DTCH or DCCH mapped to RACH/FACH / Invalid TCTF	R	All UEs
7.1.8.3	DTCH or DCCH mapped to RACH/FACH / Invalid C/T Field	R	All UEs
7.1.8.4	DTCH or DCCH mapped to RACH/FACH / Invalid UE ID Type Field	R	All UEs
7.1.8.5	DTCH or DCCH mapped to RACH/FACH / Incorrect UE ID	R	All UEs
7.1.8.6	DTCH or DCCH mapped to DSCH or USCH	[FFS]	UEs supporting DSCH and/or USCH
7.1.8.7	DTCH or DCCH mapped to CPCH	[FFS]	UEs supporting CPCH

Clause	Title	Applicability	Comments
7.1.8.8	DTCH or DCCH mapped to DCH / Invalid C/T Field	R	All Ues
7.1.9.1	Selection of Transport Format depending on instantaneous source rate	[FFS]	[FFS]
7.1.10.1	Priority handling between data flows of one UE	[FFS]	[FFS]
7.1.11.1	Ciphering	[FFS]	[FFS]
7.1.12.1	Access Service class selection for RACH transmission	[FFS]	[FFS]
7.1.12.2	Control of RACH transmissions for FDD mode	[FFS]	[FFS]
7.1.13.1	Control of CPCH transmissions for FDD	[FFS]	UEs supporting CPCH
7.2.1.1	RLC testing / Transparent mode / Segmentation and reassembly	R	All UEs
7.2.2.2	UM RLC / Segmentation and reassembly / Selection of 7 or 15 bit Length Indicators	R	All UEs
7.2.2.3	UM RLC / Segmentation / 7-bit Length Indicators / Padding	R	All UEs
7.2.2.4	UM RLC / Segmentation / 7-bit Length Indicators / LI = 0	R	All UEs
7.2.2.5	UM RLC / Segmentation / 7-bit Length Indicators / Invalid LI value	R	All UEs
7.2.2.6	UM RLC / Segmentation / 7-bit Length Indicators / LI value > PDU	R	All UEs
7.2.2.7	UM RLC / Segmentation / 7-bit Length Indicators / First data octet LI	R	All UEs
7.2.2.8	UM RLC / Segmentation / 15-bit Length Indicators / Padding	R	All UEs
7.2.2.9	UM RLC / Segmentation / 15-bit Length Indicators / LI = 0	R	All UEs
7.2.2.10	UM RLC / Segmentation / 15-bit Length Indicators / One octet short LI	R	All UEs
7.2.2.11	UM RLC / Segmentation / 15-bit Length Indicators / Invalid LI value	R	All UEs
7.2.2.12	UM RLC / Segmentation / 15-bit Length Indicators / LI value > PDU size	R	All UEs
7.2.2.13	UM RLC / Segmentation / 15-bit Length Indicators / First data octet LI	R	All UEs
7.2.3.2	AM RLC / Segmentation and reassembly / Selection of 7 or 15 bit Length Indicators	R	All UEs
7.2.3.3	AM RLC / Segmentation / 7-bit Length Indicators / Padding	R	All UEs
7.2.3.4	AM RLC / Segmentation / 7-bit Length Indicators / LI = 0	R	All UEs
7.2.3.5	AM RLC / Segmentation / 7-bit Length Indicators / Reserved LI value	R	All UEs
7.2.3.6	AM RLC / Segmentation / 7-bit Length Indicators / LI value > PDU	R	All UEs
7.2.3.7	AM RLC / Segmentation / 15-bit Length Indicators / Padding or Piggy-backed Status	R	All UEs
7.2.3.8	AM RLC / Segmentation / 15-bit Length Indicators / LI = 0	R	All UEs
7.2.3.9	AM RLC / Segmentation / 15-bit Length Indicators / One octet short LI	R	All UEs
7.2.3.10	AM RLC / Segmentation / 15-bit Length Indicators / Reserved LI value	R	All UEs
7.2.3.11	AM RLC / Segmentation / 15-bit Length Indicators / LI value > PDU size	R	All UEs
7.2.3.12	AM RLC / Correct use of Sequence Numbering	R	All UEs
7.2.3.13	AM RLC / Control of Transmit Window	R	All UEs
7.2.3.14	AM RLC / Control of Receive Window	R	All UEs
7.2.3.15	AM RLC / Polling for status / Last PU in transmission queue	R	All UEs
7.2.3.16	AM RLC / Polling for status / Last PU in retransmission queue	R	All UEs
7.2.3.17	AM RLC / Polling for status / Poll every Poll_PU PUs	R	All UEs
7.2.3.18	AM RLC / Polling for status / Poll every Poll_SDU SDUs	R	All UEs

Clause	Title	Applicability	Comments
7.2.3.19	AM RLC / Polling for status / Timer triggered polling (Timer_Poll_Periodic)	R	All UEs
7.2.3.20	AM RLC / Polling for status / Polling on Poll_Window% of transmission window	R	All UEs
7.2.3.21	AM RLC / Polling for status / Operation of Timer_Poll timer / Timer expiry	R	All UEs
7.2.3.22	AM RLC / Polling for status / Operation of Timer_Poll timer / Stopping Timer_Poll timer	R	All UEs
7.2.3.23	AM RLC / Polling for status / Operation of Timer_Poll timer / Restart of the Timer_Poll timer	R	All UEs
7.2.3.24	AM RLC / Polling for status / Operation of timer Timer_Poll_Prohibit	R	All UEs
7.2.3.25	AM RLC / Receiver Status Triggers / Detection of missing PUs	R	All UEs
7.2.3.26	AM RLC / Receiver Status Triggers / Operation of timer Timer_Status_Periodic	R	All UEs
7.2.3.27	AM RLC / Receiver Status Triggers / Operation of timer Timer_Status_Prohibit	R	All UEs
7.2.3.28	AM RLC / Status reporting / Abnormal conditions / Reception of LIST SUFI with Length set to zero	R	All UEs
7.2.3.29	AM RLC / Timer based discard, with explicit signalling / Expiry of Timer_Discard	R	All UEs
7.2.3.29a	AM RLC / Timer based discard, with explicit signalling / Expiry of Timer_Discard when Timer_STATUS_prohibit is active	R	All UEs
7.2.3.30	AM RLC / Timer based discard, with explicit signalling / Obsolete MRW_ACK	R	All UEs
7.2.3.31	AM RLC / Timer based discard, with explicit signalling / Failure of MRW procedure	R	All UEs
7.2.3.32	AM RLC / SDU discard after MaxDAT number of retransmissions	R	All UEs
7.2.3.33	AM RLC / Operation of the RLC Reset procedure / UE Originated	R	All UEs
7.2.3.34	AM RLC / Operation of the RLC Reset procedure / UE Terminated	R	All UEs
RADIO RESOURCE CONTROL			
8.1.1.1	RRC / Paging for Connection in idle mode	C01	UEs supporting FDD.
8.1.1.2	RRC / Paging for Connection in connected mode (CELL_PCH)	C06	UEs supporting FDD and supporting PS bearer service.
8.1.1.3	RRC / Paging for Connection in connected mode (URA_PCH)	C06	UEs supporting FDD and supporting PS bearer service.
8. 1.1.4	RRC / Paging for Notification in idle mode	C01	UEs supporting FDD.
8.1.1.5	RRC / Paging for Notification in connected mode (CELL_PCH)	C06	UEs supporting FDD and supporting PS bearer service.
8.1.1.6	RRC / Paging for Notification in connected mode (URA_PCH)	C01	UEs supporting FDD.
8.1.1.7	RRC / Paging for Connection in connected mode (CELL_DCH)	C01	UEs supporting FDD.
8.1.1.8	RRC / Paging for Connection in connected mode (CELL_FACH)	C01	UEs supporting FDD.
8.1.2.1	RRC / RRC Connection Establishment in CELL_DCH state: Success	C01	UEs supporting FDD.
8.1.2.2	RRC / RRC Connection Establishment: Success after T300 timeout	C01	UEs supporting FDD.
8.1.2.3	RRC / RRC Connection Establishment: Failure (V300 is greater than N300)	C01	UEs supporting FDD.
8.1.2.4	RRC / RRC Connection Establishment: Reject ("wait time" is not equal to 0)	C01	UEs supporting FDD.
8.1.2.5	RRC / RRC Connection Establishment: Reject ("wait time" is not equal to 0 and V300 is greater than N300)	C01	UEs supporting FDD.
8.1.2.6	RRC / RRC Connection Establishment: Reject ("wait time" is set to 0)	C01	UEs supporting FDD.

Clause	Title	Applicability	Comments
8.1.2.7	RRC / RRC Connection Establishment in CELL_FACH state: Success	C01	UEs supporting FDD.
8.1.2.8	RRC / RRC Connection Establishment : Invalid system information message reception	C01	UEs supporting FDD.
8.1.2.9	RRC / RRC Connection Establishment: Success after Physical channel failure, Invalid message reception and Invalid configuration	C01	UEs supporting FDD.
8.1.3.1	RRC / RRC Connection Release in CELL_DCH state: Successful	C01	UEs supporting FDD.
8.1.3.2	RRC / RRC Connection Release using on DCCH in CELL_FACH state: Successful	C01	UEs supporting FDD.
8.1.3.3	RRC / RRC Connection Release using on CCCH in CELL_FACH state: Failure	C01	UEs supporting FDD.
8.1.3.4	RRC / RRC Connection Release in CELL_FACH state: Failure	C01	UEs supporting FDD.
8.1.3.5	RRC / RRC Connection Release in CELL_FACH state: Invalid message	C01	UEs supporting FDD.
8.1.5.1	RRC / UE Capability in CELL_DCH state: Success	C01	UEs supporting FDD.
8.1.5.2	RRC / UE Capability in CELL_DCH state: Success after T304 timeout	C01	UEs supporting FDD.
8.1.5.3	RRC / UE Capability in CELL_DCH state: Falilure (After (N304+1) re-transmissions)	C01	UEs supporting FDD.
8.1.5.4	RRC / UE Capability in CELL_FACH state: Success	C01	UEs supporting FDD.
8.1.5.5	RRC / UE Capability in CELL_FACH state: Success after T304 timeout	C01	UEs supporting FDD.
8.1.6.1	Direct Transfer in CELL_DCH state (invalid message reception)	C01	UEs supporting FDD.
8.1.6.2	Direct Transfer in CELL_FACH state (invalid message reception and no signalling)	C01	UEs supporting FDD.
8.1.7.1	RRC / Security mode control in CELL_DCH state	C07	UEs supporting FDD and supporting UMTS Encryption Algorithm UEA1.
8.1.7.2	RRC / Security mode control in CELL_FACH state	C07	UEs supporting FDD and supporting UMTS Encryption Algorithm UEA1.
8.1.8.1	RRC / Counter check in CELL_DCH state	C01	UEs supporting FDD.
8.1.8.2	RRC / Counter check in CELL_FACH state	C01	UEs supporting FDD.
8.1.9	RRC / Signalling Connection Release Request	C01	UEs supporting FDD.
8.2.1.1	RRC / Radio Bearer Establishment for transition from CELL_DCH to CELL_DCH: Success (Data integrity protection algorithm is not applied)	C01	UEs supporting FDD.
8.2.1.2	RRC / Radio Bearer Establishment for transition from CELL_DCH to CELL_DCH: Success (Effected Data integrity protection algorithm)	C08	UEs supporting FDD and supporting UMTS Integrity Algorithm UIA1.
8.2.1.3	RRC / Radio Bearer Establishment for transition from CELL_DCH to CELL_DCH: Failure (Unsupported configuration)	C01	UEs supporting FDD.
8.2.1.4	RRC / Radio Bearer Establishment for transition from CELL_DCH to CELL_DCH: Failure (Physical channel Failure and successful reversion to old configuration)	C01	UEs supporting FDD.
8.2.1.5	RRC / Radio Bearer Establishment for transition from CELL_DCH to CELL_DCH: Failure (Physical channel Failure and reversion failure)	C01	UEs supporting FDD.
8.2.1.6	RRC / Radio Bearer Establishment for transition from CELL_DCH to CELL_DCH: Failure (Incompatible simultaneous configuration)	C01	UEs supporting FDD.
8.2.1.7	RRC / Radio Bearer Establishment for transition from CELL_DCH to CELL_DCH: Failure (Invalid message reception)	C01	UEs supporting FDD.
8.2.1.8	RRC / Radio Bearer Establishment for transition from CELL_DCH to CELL_FACH: Success	C06	UEs supporting FDD and supporting PS bearer service.
8.2.1.9	RRC / Radio Bearer Establishment for transition from CELL_DCH to CELL_FACH: Failure (Physical channel Failure)	C06	UEs supporting FDD and supporting PS bearer service.
8.2.1.10	RRC / Radio Bearer Establishment for transition from CELL_FACH to CELL_DCH: Success	C06	UEs supporting FDD and supporting PS bearer service.
8.2.1.11	RRC / Radio Bearer Establishment for transition from CELL_FACH to CELL_DCH: Failure (Unsupported configuration)	C06	UEs supporting FDD and supporting PS bearer service.

Clause	Title	Applicability	Comments
8.2.1.12	RRC / Radio Bearer Establishment for transition from CELL_FACH to CELL_DCH: Failure (Physical channel Failure and successful reversion to old configuration)	C06	UEs supporting FDD and supporting PS bearer service.
8.2.1.13	RRC / Radio Bearer Establishment for transition from CELL_FACH to CELL_DCH: Failure (Physical channel Failure and reversion failure)	C06	UEs supporting FDD and supporting PS bearer service.
8.2.1.14	RRC / Radio Bearer Establishment for transition from CELL_FACH to CELL_DCH: Failure (Incompatible simultaneous reconfiguration)	C06	UEs supporting FDD and supporting PS bearer service.
8.2.1.15	RRC / Radio Bearer Establishment for transition from CELL_FACH to CELL_DCH: Failure (Invalid message reception)	C06	UEs supporting FDD and supporting PS bearer service.
8.2.1.16	RRC / Radio Bearer Establishment for transition from CELL_FACH to CELL_FACH: Success	C06	UEs supporting FDD and supporting PS bearer service.
8.2.1.17	RRC / Radio Bearer Establishment for transition from CELL_DCH to CELL_DCH: Success (Subsequently received)	C01	UEs supporting FDD and supporting PS bearer service.
8.2.1.18	RRC / Radio Bearer Establishment for transition from CELL_FACH to CELL_DCH: Success (Subsequently received)	C06	UEs supporting FDD and supporting PS bearer service.
8.2.1.19	RRC / Radio Bearer Establishment from CELL_DCH to CELL_PCH: Success	C06	UEs supporting FDD and supporting PS bearer service.
8.2.1.20	RRC / Radio Bearer Establishment from CELL_DCH to URA_PCH: Success	C06	UEs supporting FDD and supporting PS bearer service.
8.2.2.1	RRC / Radio Bearer Reconfiguration (Hard Handover) from CELL_DCH to CELL_DCH: Success	C06	UEs supporting FDD and supporting PS bearer service.
8.2.2.2	RRC / Radio Bearer Reconfiguration from CELL_DCH to CELL_DCH: Failure (Unsupported configuration)	C06	UEs supporting FDD and supporting PS bearer service.
8.2.2.3	RRC / Radio Bearer Reconfiguration from CELL_DCH to CELL_DCH: Failure (Physical channel failure and reversion to old configuration)	C06	UEs supporting FDD and supporting PS bearer service.
8.2.2.4	RRC / Radio Bearer Reconfiguration from CELL_DCH to CELL_DCH: Failure (Physical channel failure and reversion failure)	C06	UEs supporting FDD and supporting PS bearer service.
8.2.2.5	RRC / Radio Bearer Reconfiguration from CELL_DCH to CELL_DCH: Failure (Incompatible simultaneous reconfiguration)	C06	UEs supporting FDD and supporting PS bearer service.
8.2.2.6	RRC / Radio Bearer Reconfiguration from CELL_DCH to CELL_DCH: Failure (Invalid message reception)	C06	UEs supporting FDD and supporting PS bearer service..
8.2.2.7	RRC / Radio Bearer Reconfiguration from CELL_DCH to CELL_DCH: Failure (Suspension of signalling bearer)	C06	UEs supporting FDD and supporting PS bearer service..
8.2.2.8	RRC / Radio Bearer Reconfiguration from CELL_DCH to CELL_FACH: Success	C06	UEs supporting FDD and supporting PS bearer service.
8.2.2.9	RRC / Radio Bearer Reconfiguration from CELL_DCH to CELL_FACH: Success (Physical channel failure)	C06	UEs supporting FDD and supporting PS bearer service.
8.2.2.10	RRC / Radio Bearer Reconfiguration from CELL_FACH to CELL_DCH: Success	C06	UEs supporting FDD and supporting PS bearer service.
8.2.2.11	RRC / Radio Bearer Reconfiguration from CELL_FACH to CELL_DCH: Failure (Unsupported configuration)	C06	UEs supporting FDD and supporting PS bearer service.
8.2.2.12	RRC / Radio Bearer Reconfiguration from CELL_FACH to CELL_DCH: Failure (Physical channel failure and reversion to old configuration)	C06	UEs supporting FDD and supporting PS bearer service.
8.2.2.13	RRC / Radio Bearer Reconfiguration from CELL_FACH to CELL_DCH: Failure (Physical channel failure and reversion failure)	C06	UEs supporting FDD and supporting PS bearer service.
8.2.2.14	RRC / Radio Bearer Reconfiguration from CELL_FACH to CELL_DCH: Failure (Incompatible simultaneous reconfiguration)	C06	UEs supporting FDD and supporting PS bearer service.
8.2.2.15	RRC / Radio Bearer Reconfiguration from CELL_FACH to CELL_DCH: Failure (Invalid message reception)	C06	UEs supporting FDD and supporting PS bearer service.

Clause	Title	Applicability	Comments
8.2.2.16	RRC / Radio Bearer Reconfiguration from CELL_FACH to CELL_DCH: Failure (Suspension of signalling bearer)	C06	UEs supporting FDD and supporting PS bearer service.
8.2.2.17	RRC / Radio Bearer Reconfiguration from CELL_FACH to CELL_FACH: Success	C06	UEs supporting FDD and supporting PS bearer service.
8.2.2.18	RRC / Radio Bearer Reconfiguration from CELL_FACH to CELL_FACH: Success (Physical channel failure)	C06	UEs supporting FDD and supporting PS bearer service.
8.2.2.19	RRC / Radio Bearer Reconfiguration from CELL_DCH to CELL_DCH: Success (Subsequently received)	C01	UEs supporting FDD and supporting PS bearer service.
8.2.2.20	RRC / Radio Bearer Reconfiguration from CELL_FACH to CELL_DCH: Success (Subsequently received)	C06	UEs supporting FDD and supporting PS bearer service.
8.2.2.21	RRC / Radio Bearer Reconfiguration from CELL_DCH to CELL_PCH: Success	C06	UEs supporting FDD and supporting PS bearer service.
8.2.2.22	RRC / Radio Bearer Reconfiguration from CELL_DCH to URA_PCH: Success	C06	UEs supporting FDD and supporting PS bearer service.
8.2.2.23	RRC / Radio Bearer Reconfiguration from CELL_FACH to CELL_PCH: Success	C06	UEs supporting FDD and supporting PS bearer service.
8.2.2.24	RRC / Radio Bearer Reconfiguration from CELL_FACH to URA_PCH: Success	C06	UEs supporting FDD and supporting PS bearer service.
8.2.3.1	RRC / Radio Bearer Release for transition from CELL_DCH to CELL_DCH: Success	C01	UEs supporting FDD.
8.2.3.2	RRC / Radio Bearer Release for transition from CELL_DCH to CELL_DCH: Failure (Unsupported configuration)	C01	UEs supporting FDD.
8.2.3.3	RRC / Radio Bearer Release for transition from CELL_DCH to CELL_DCH: Failure (Physical channel failure and reversion to old configuration)	C01	UEs supporting FDD.
8.2.3.4	RRC / Radio Bearer Release for transition from CELL_DCH to CELL_DCH: Failure (Physical channel failure and reversion failure)	C01	UEs supporting FDD.
8.2.3.5	RRC / Radio Bearer Release for transition from CELL_DCH to CELL_DCH: Failure (Incompatible simultaneous reconfiguration)	C06	UEs supporting FDD and supporting PS bearer service.
8.2.3.6	RRC / Radio Bearer Release for transition from CELL_DCH to CELL_DCH: Failure (Invalid message reception)	C01	UEs supporting FDD.
8.2.3.7	RRC / Radio Bearer Release for transition from CELL_DCH to CELL_FACH: Success	C06	UEs supporting FDD and supporting PS bearer service.
8.2.3.8	RRC / Radio Bearer Release for transition from CELL_DCH to CELL_FACH: Success (Physical channel failure)	C06	UEs supporting FDD and supporting PS bearer service.
8.2.3.9	RRC / Radio Bearer Release for transition from CELL_FACH to CELL_DCH: Success	C06	UEs supporting FDD and supporting PS bearer service.
8.2.3.10	RRC / Radio Bearer Release for transition from CELL_FACH to CELL_DCH: Failure (Unsupported configuration)	C06	UEs supporting FDD and supporting PS bearer service.
8.2.3.11	RRC / Radio Bearer Release for transition from CELL_FACH to CELL_DCH: Failure (Physical channel failure and reversion to old configuration)	C06	UEs supporting FDD and supporting PS bearer service.
8.2.3.12	RRC / Radio Bearer Release for transition from CELL_FACH to CELL_DCH: Failure (Physical channel failure and reversion failure)	C06	UEs supporting FDD and supporting PS bearer service.
8.2.3.13	RRC / Radio Bearer Release for transition from CELL_FACH to CELL_DCH: Failure (Incompatible simultaneous reconfiguration)	C06	UEs supporting FDD and supporting PS bearer service.
8.2.3.14	RRC / Radio Bearer Release for transition from CELL_FACH to CELL_DCH: Failure (Invalid message reception)	C06	UEs supporting FDD and supporting PS bearer service.
8.2.3.15	RRC / Radio Bearer Release for transition from CELL_FACH to CELL_FACH: Success	C06	UEs supporting FDD and supporting PS bearer service.
8.2.3.16	RRC / Radio Bearer Release for transition from CELL_DCH to CELL_DCH: Success (Subsequently received)	C01	UEs supporting FDD and supporting PS bearer service.
8.2.3.17	RRC / Radio Bearer Release for transition from CELL_FACH to CELL_DCH: Success (Subsequently received)	C06	UEs supporting FDD and supporting PS bearer service.

Clause	Title	Applicability	Comments
8.2.3.18	RRC / Radio Bearer Release from CELL_DCH to CELL_PCH: Success	C06	UEs supporting FDD and supporting PS bearer service.
8.2.3.19	RRC / Radio Bearer Release from CELL_DCH to URA_PCH: Success	C06	UEs supporting FDD and supporting PS bearer service.
8.2.4.1	RRC / Transport channel reconfiguration from CELL_DCH to CELL_DCH (Hard handover to intra-frequency): Success with no transport channel type switching	C06	UEs supporting FDD and supporting PS bearer service..
8.2.4.2	RRC / Transport channel reconfiguration from CELL_DCH to CELL_DCH: Failure (Unsupported configuration)	C06	UEs supporting FDD and supporting PS bearer service..
8.2.4.3	RRC / Transport channel reconfiguration from CELL_DCH to CELL_DCH: Failure (Physical channel failure and reversion to old configuration)	C06	UEs supporting FDD and supporting PS bearer service..
8.2.4.4	RRC / Transport channel reconfiguration from CELL_DCH to CELL_DCH: Failure (Physical channel failure and reversion failure)	C06	UEs supporting FDD and supporting PS bearer service..
8.2.4.5	RRC / Transport channel reconfiguration from CELL_DCH to CELL_DCH: Failure (Incompatible simultaneous reconfiguration)	C06	UEs supporting FDD and supporting PS bearer service..
8.2.4.6	RRC / Transport channel reconfiguration from CELL_DCH to CELL_DCH: Failure (Invalid message reception)	C06	UEs supporting FDD and supporting PS bearer service..
8.2.4.7	RRC / Transport channel reconfiguration from CELL_DCH to CELL_FACH: Success	C06	UEs supporting FDD and supporting PS bearer service.
8.2.4.9	RRC / Transport channel reconfiguration from CELL_DCH to CELL_FACH: Success (Physical channel failure and reversion failure)	C06	UEs supporting FDD and supporting PS bearer service.
8.2.4.10	RRC / Transport channel reconfiguration from CELL_FACH to CELL_DCH: Success	C06	UEs supporting FDD and supporting PS bearer service.
8.2.4.11	RRC / Transport channel reconfiguration from CELL_FACH to CELL_DCH: Failure (Unsupported configuration)	C06	UEs supporting FDD and supporting PS bearer service.
8.2.4.12	RRC / Transport channel reconfiguration from CELL_FACH to CELL_DCH: Failure (Physical channel failure and reversion to old channel)	C06	UEs supporting FDD and supporting PS bearer service.
8.2.4.13	RRC / Transport channel reconfiguration from CELL_FACH to CELL_DCH: Failure (Physical channel failure and reversion failure)	C06	UEs supporting FDD and supporting PS bearer service.
8.2.4.14	RRC / Transport channel reconfiguration from CELL_FACH to CELL_DCH: Failure (Incompatible simultaneous reconfiguration)	C06	UEs supporting FDD and supporting PS bearer service.
8.2.4.15	RRC / Transport channel reconfiguration from CELL_FACH to CELL_DCH: Failure (Invalid message reception)	C06	UEs supporting FDD and supporting PS bearer service.
8.2.4.16	RRC / Transport channel reconfiguration from CELL_FACH to CELL_FACH: Success with no transport channel type switching	C06	UEs supporting FDD and supporting PS bearer service.
8.2.4.17	RRC / Transport channel reconfiguration from CELL_FACH to CELL_FACH: Success (Physical channel failure)	C06	UEs supporting FDD and supporting PS bearer service.
8.2.4.18	RRC / Transport Channel Reconfiguration from CELL_DCH to CELL_DCH: Success (Subsequently received)	C01	UEs supporting FDD and supporting PS bearer service.
8.2.4.19	RRC / Transport Channel Reconfiguration from CELL_FACH to CELL_DCH: Success (Subsequently received)	C06	UEs supporting FDD and supporting PS bearer service.
8.2.4.20	RRC / Transport channel Reconfiguration from CELL_DCH to CELL_PCH: Success	C06	UEs supporting FDD and supporting PS bearer service.
8.2.4.21	RRC / Transport channel from CELL_DCH to URA_PCH: Success	C06	UEs supporting FDD and supporting PS bearer service.
8.2.5.1	RRC / Transport format combination Control in CELL_DCH: restriction	C01	UEs supporting FDD.
8.2.5.2	RRC / Transport format combination Control in CELL_DCH: release a restriction	C01	UEs supporting FDD.
8.2.5.3	RRC / Transport format combination Control in CELL_DCH: Failure (Incompatible simultaneous reconfiguration)	C06	UEs supporting FDD and supporting PS bearer service..
8.2.5.4	RRC / Transport format combination Control in CELL_DCH: Failure (Invalid message reception)	C06	UEs supporting FDD and supporting PS bearer service..

Clause	Title	Applicability	Comments
8.2.6.1	RRC / Physical channel reconfiguration for transition from CELL_DCH to CELL_DCH (Hard handover to another frequency): Success	C06	UEs supporting FDD and supporting PS bearer service..
8.2.6.2	RRC / Physical channel reconfiguration for transition from CELL_DCH to CELL_DCH (Hard handover to another frequency): Failure (Unsupported configuration)	C06	UEs supporting FDD and supporting PS bearer service..
8.2.6.3	RRC / Physical channel reconfiguration for transition from CELL_DCH to CELL_DCH (Hard handover to another frequency): Failure (Physical channel failure and reversion to old channel)	C06	UEs supporting FDD and supporting PS bearer service..
8.2.6.4	RRC / Physical channel reconfiguration for transition from CELL_DCH to CELL_DCH (Hard handover to another frequency): Failure (Physical channel failure and reversion failure)	C06	UEs supporting FDD and supporting PS bearer service..
8.2.6.5	RRC / Physical channel reconfiguration for transition from CELL_DCH to CELL_DCH (Hard handover to another frequency): Failure (Incompatible simultaneous reconfiguration)	C06	UEs supporting FDD and supporting PS bearer service..
8.2.6.6	RRC / Physical channel reconfiguration for transition from CELL_DCH to CELL_DCH (Hard handover to another frequency): Failure (Invalid message reception)	C06	UEs supporting FDD and supporting PS bearer service..
8.2.6.7	RRC / Physical channel reconfiguration for transition from CELL_DCH to CELL_FACH: Success	C06	UEs supporting FDD and supporting PS bearer service.
8.2.6.8	RRC / Physical channel reconfiguration for transition from CELL_DCH to CELL_FACH: Success (Physical channel failure)	C06	UEs supporting FDD and supporting PS bearer service.
8.2.6.9	RRC / Physical channel reconfiguration for transition from CELL_FACH to CELL_DCH: Success	C06	UEs supporting FDD and supporting PS bearer service.
8.2.6.10	RRC / Physical channel reconfiguration for transition from CELL_FACH to CELL_DCH: Failure (Unsupported configuration)	C06	UEs supporting FDD and supporting PS bearer service.
8.2.6.11	RRC / Physical channel reconfiguration for transition from CELL_FACH to CELL_DCH: Failure (Physical channel failure and reversion to old configuration)	C06	UEs supporting FDD and supporting PS bearer service.
8.2.6.12	RRC / Physical channel reconfiguration for transition from CELL_FACH to CELL_DCH: Failure (Physical channel failure and reversion failure)	C06	UEs supporting FDD and supporting PS bearer service.
8.2.6.13	RRC / Physical channel reconfiguration for transition from CELL_FACH to CELL_DCH: Failure (Incompatible simultaneous reconfiguration)	C06	UEs supporting FDD and supporting PS bearer service.
8.2.6.14	RRC / Physical channel reconfiguration for transition from CELL_FACH to CELL_DCH: Failure (Invalid message reception)	C06	UEs supporting FDD and supporting PS bearer service.
8.2.6.15	RRC / Physical channel reconfiguration for transition from CELL_FACH to CELL_FACH: Success	C06	UEs supporting FDD and supporting PS bearer service.
8.2.6.16	RRC / Physical channel reconfiguration for transition from CELL_FACH to CELL_FACH: Failure (Physical channel failure)	C06	UEs supporting FDD and supporting PS bearer service.
8.2.6.17	RRC / Physical Channel Reconfiguration-from CELL_DCH to CELL_DCH (Hard Handover to another frequency): Success (Subsequently received)	C01	UEs supporting FDD and supporting PS bearer service.
8.2.6.18	RRC / Physical Channel Reconfiguration-from CELL_FACH to CELL_DCH: Success (Subsequently received)	C06	UEs supporting FDD and supporting PS bearer service.
8.2.6.19	RRC / Physical channel from CELL_DCH to CELL_PCH: Success	C06	UEs supporting FDD and supporting PS bearer service.
8.2.6.20	RRC / Physical channel from CELL_DCH to URA_PCH: Success	C06	UEs supporting FDD and supporting PS bearer service.
8.2.7	RRC / Physical Shared Channel Allocation [TDD only]	[FFS]	Inclusion of this test cases if FFS
8.2.8	RRC / PUSCH capacity request [TDD only]	[FFS]	Inclusion of this test cases if FFS

Clause	Title	Applicability	Comments
8.3.1.1	RRC / Cell Update: cell reselection in CELL_FACH	C06	UEs supporting FDD and supporting PS bearer service.
8.3.1.2	RRC / Cell Update: cell reselection in CELL_PCH	C06	UEs supporting FDD and supporting PS bearer service.
8.3.1.3	RRC / Cell Update: periodical cell update in CELL_FACH	C06	UEs supporting FDD and supporting PS bearer service.
8.3.1.4	RRC / Cell Update: periodical cell update in CELL_PCH and multiple cell update causes	C06	UEs supporting FDD and supporting PS bearer service.
8.3.1.5	RRC / Cell Update: UL data transmission in URA_PCH	C06	UEs supporting FDD and supporting PS bearer service.
8.3.1.6	RRC / Cell Update: UL data transmission in CELL_PCH	C06	UEs supporting FDD and supporting PS bearer service.
8.3.1.7	RRC / Cell Update: paging response in URA_PCH	C06	UEs supporting FDD and supporting PS bearer service.
8.3.1.8	RRC / Cell Update: paging response in CELL_PCH	C06	UEs supporting FDD and supporting PS bearer service.
8.3.1.9	RRC / Cell Update: re-entering of service area after T305 expiry and being out of service area	C06	UEs supporting FDD and supporting PS bearer service.
8.3.1.10	RRC / Cell Update: expiry of T307 after T305 expiry and being out of service area	C06	UEs supporting FDD and supporting PS bearer service.
8.3.1.11	RRC / Cell Update: Success after T302 time-out	C06	UEs supporting FDD and supporting PS bearer service.
8.3.1.12	RRC / Cell Update: Failure (After Maximum Re-transmissions)	C06	UEs supporting FDD and supporting PS bearer service.
8.3.1.13	RRC / Cell Update: Reception of Invalid CELL UPDATE CONFIRM message	C06	UEs supporting FDD and supporting PS bearer service.
8.3.1.14	RRC / Cell Update: Incompatible simultaneous reconfiguration	C06	UEs supporting FDD and supporting PS bearer service.
8.3.1.15	RRC / Cell Update: Acknowledged Mode RLC Reset	C06	UEs supporting FDD and supporting PS bearer service.
8.3.1.16	RRC / Cell Update: cell reselection in CELL_FACH (in non-ciphering mode)	C06	UEs supporting FDD and supporting PS bearer service.
8.3.1.17	RRC / Cell Update: Failure (UTRAN initiate an RRC connection release procedure on DCCH)	C06	UEs supporting FDD and supporting PS bearer service.
8.3.1.18	RRC / Cell Update: Radio Link Failure (T314>0, T315=0)	C06	UEs supporting FDD and supporting PS bearer service.
8.3.1.19	RRC / Cell Update: Unrecoverable error in RLC	C06	UEs supporting FDD and supporting PS bearer service.
8.3.1.20	RRC / Cell Update: Reception of CELL UPDATE CONFIRM Message that causes invalid configuration	C06	UEs supporting FDD and supporting PS bearer service.
8.3.2.1	RRC / URA Update: URA reselection	C06	UEs supporting FDD and supporting PS bearer service.
8.3.2.2	RRC / URA Update: Periodical URA update and Reception of Invalid message	C06	UEs supporting FDD and supporting PS bearer service.
8.3.2.3	RRC / URA Update: re-entering of service area after T306 expiry	C06	UEs supporting FDD and supporting PS bearer service.
8.3.2.4	RRC / URA Update: loss of service after expiry of timers T307 after T306	C06	UEs supporting FDD and supporting PS bearer service.
8.3.2.5	RRC / URA Update: Success after Confirmation error of URA-ID list	C06	UEs supporting FDD and supporting PS bearer service.
8.3.2.6	RRC / URA Update: Failure (V303 is greater than N303: Confirmation error of URA-ID list)	C06	UEs supporting FDD and supporting PS bearer service.
8.3.2.7	RRC / URA Update: Success after T303 timeout	C06	UEs supporting FDD and supporting PS bearer service.
8.3.2.8	RRC / URA Update: Failure (V303 is greater than N303: T303 timeout)	C06	UEs supporting FDD and supporting PS bearer service.
8.3.2.9	RRC / URA Update: Failure (UTRAN initiate an RRC connection release procedure on DCCH)	C06	UEs supporting FDD and supporting PS bearer service.
8.3.2.10	RRC / URA Update: Reception of URA UPDATE CONFIRM message that causes invalid configuration and invalid URA UPDATE CONFIRM message	C06	UEs supporting FDD and supporting PS bearer service.
8.3.3.1	RRC / UTRAN Mobility Information: Success	C01	UEs supporting FDD.
8.3.3.2	RRC / UTRAN Mobility Information: Failure (Invalid message reception and cell re-selection)	C01	UEs supporting FDD.
8.3.4.1	RRC / Active set update in soft handover: Radio Link addition	C01	UEs supporting FDD.
8.3.4.2	RRC / Active set update in soft handover: Radio Link removal	C01	UEs supporting FDD.

Clause	Title	Applicability	Comments
8.3.4.3	RRC / Active set update in soft handover: Combined radio link addition and removal (active set is not full)	C01	UEs supporting FDD.
8.3.4.4	RRC / Active set update in soft handover: Unsupported Configuration in the UE	C01	UEs supporting FDD.
8.3.4.5	RRC / Active set update in soft handover: Combined radio link addition and removal (active set is full)	C01	UEs supporting FDD.
8.3.4.7	RRC / Active set update in soft handover: Invalid Message Reception	C01	UEs supporting FDD.
8.3.5.1	RRC / Hard Handover: success	[FFS]	Inclusion of this test case is FFS
8.3.5.2	RRC / Hard Handover: Unsupported Configuration in the UE	[FFS]	Inclusion of this test case is FFS
8.3.5.3	RRC / Hard Handover: Physical channel failure	[FFS]	Inclusion of this test case is FFS
8.3.7.1	Inter system handover from UTRAN/To GSM/Speech/Success	C95	UEs supporting FDD and GSM and supporting speech
8.3.7.2	Inter system handover from UTRAN/To GSM/Data/Same data rate/Success	C97	UEs supporting FDD and GSM
8.3.7.3	Inter system handover from UTRAN/To GSM/Data/Data rate down grading/Success	C97	UEs supporting FDD and GSM
8.3.7.4	Inter system handover from UTRAN/To GSM/Speech/Establishment/Success	C95	UEs supporting FDD and GSM and supporting speech
8.3.7.5	Inter system handover from UTRAN/To GSM/Speech/Failure	C95	UEs supporting FDD and GSM and supporting speech
8.3.8	RRC / Inter system cell reselection to UTRAN	[FFS]	Inclusion of this test case is FFS
8.3.9	RRC / Inter system cell reselection from UTRAN	[FFS]	Inclusion of this test case is FFS
8.4.1.1	RRC / Measurement Control and Report: Intra-frequency measurement for transition from idle mode to CELL_DCH state	C01	UEs supporting FDD.
8.4.1.2	RRC / Measurement Control and Report: Inter-frequency measurement for transition from idle mode to CELL_DCH state	C01	UEs supporting FDD.
8.4.1.3	RRC / Measurement Control and Report: Intra-frequency measurement for transition from idle mode to CELL_FACH state	C01	UEs supporting FDD.
8.4.1.4	RRC / Measurement Control and Report: Inter-frequency measurement for transition from idle mode to CELL_FACH state	C01	UEs supporting FDD.
8.4.1.5	RRC / Measurement Control and Report: Intra-frequency measurement for transition from CELL_DCH to CELL_FACH state	C06	UEs supporting FDD and supporting PS bearer service.
8.4.1.6	RRC / Measurement Control and Report: Inter-frequency measurement for transition from CELL_DCH to CELL_FACH state	C06	UEs supporting FDD and supporting PS bearer service.
8.4.1.7	RRC / Measurement Control and Report: Intra-frequency measurement for transition from CELL_FACH to CELL_DCH state	C06	UEs supporting FDD and supporting PS bearer service.
8.4.1.8	RRC / Measurement Control and Report: Inter-frequency measurement for transition from CELL_FACH to CELL_DCH state	C06	UEs supporting FDD and supporting PS bearer service.
8.4.1.9	RRC / Measurement Control and Report: Unsupported measurement in the UE	C09	UEs supporting FDD and not supporting Inter-system measurement for GSM.
8.4.1.10	RRC / Measurement Control and Report: Failure (Invalid Message Reception)	C01	UEs supporting FDD.
8.4.1.11	RRC / Measurement Control and Report: Compressed Mode Configuration Failure during radio bearer reconfiguration procedure	C01	UEs supporting FDD
8.4.1.12	RRC / Measurement Control and Report: Compressed Mode Configuration Failure during transport channel reconfiguration procedure	C01	UEs supporting FDD
8.4.1.13	RRC / Measurement Control and Report: Compressed Mode Configuration Failure during physical channel reconfiguration procedure	C01	UEs supporting FDD
8.4.1.14	RRC / Measurement Control and Report: Cell forbidden to affect reporting range	C01	UEs supporting FDD
8.4.1.15	RRC / Measurement Control and Report Incomplete	C01	UEs supporting FDD
MOBILITY MANAGEMENT			
9.1	TMSI reallocation	C98	UEs supporting CS domain services
9.2.1	Authentication accepted	C98	UEs supporting CS domain services
9.2.2	Authentication rejected	C98	UEs supporting CS domain services

Clause	Title	Applicability	Comments
9.2.3	Authentication rejected by the UE (MAC code failure)	C98	UEs supporting CS domain services
9.2.4	Authentication rejected by the UE (SQN failure)	C98	UEs supporting CS domain services
9.3.1	General Identification	C98	UEs supporting CS domain services
9.3.2	Handling of IMSI shorter than the maximum length	C98	UEs supporting CS domain services
9.4.1	Location updating / accepted	C98	UEs supporting CS domain services
9.4.2.1	Location updating / rejected / IMSI invalid	C98	UEs supporting CS domain services
9.4.2.2	Location updating / rejected / PLMN not allowed	C98	UEs supporting CS domain services
9.4.2.3	Location updating / rejected / location area not allowed	C98	UEs supporting CS domain services
9.4.2.4.1	Location updating / rejected / roaming not allowed in this location area / Procedure 1	C98	UEs supporting CS domain services
9.4.2.4.2	Location updating / rejected / roaming not allowed in this location area / Procedure 2	C98	UEs supporting CS domain services
9.4.2.4.3	Location updating / rejected / roaming not allowed in this location area / Procedure 3	C98	UEs supporting CS domain services
9.4.2.4.4	Location updating / rejected / roaming not allowed in this location area / Procedure 4	C98	UEs supporting CS domain services
9.4.2.4.5	Location updating / rejected / roaming not allowed in this location area / Procedure 5	C99	UEs supporting CS domain services UEs supporting USIM removal
9.4.3.2	Location updating / abnormal cases / attempt counter less or equal to 4, LAI different	C98	UEs supporting CS domain services
9.4.3.3	Location updating / abnormal cases / attempt counter equal to 4	C98	UEs supporting CS domain services
9.4.3.4	Location updating / abnormal cases / attempt counter less or equal to 4, stored LAI equal to broadcast LAI	C98	UEs supporting CS domain services
9.4.4	Location updating / release / expiry of T3240	C98	UEs supporting CS domain services
9.4.5.1	Location updating / periodic spread	C98	UEs supporting CS domain services
9.4.5.2	Location updating / periodic normal / test 1	C98	UEs supporting CS domain services
9.4.5.3	Location updating / periodic normal / test 2	C98	UEs supporting CS domain services
9.4.5.4.1	Location updating / periodic HPLMN search / UE waits time T	C98	UEs supporting CS domain services
9.4.5.4.2	Location updating / periodic HPLMN search / UE in manual mode	C98	UEs supporting CS domain services
9.4.5.4.3	Location updating / periodic HPLMN search / UE waits at least two minutes and at most T minutes	C98	UEs supporting CS domain services
9.4.6	Location updating / interworking of attach and periodic	C98	UEs supporting CS domain services
9.5.2	MM connection / establishment in security mode	C98	UEs supporting CS domain services
9.5.3	MM connection / establishment in non-security mode	C98	UEs supporting CS domain services
9.5.4	MM connection / establishment rejected	C98	UEs supporting CS domain services
9.5.5	MM connection / establishment rejected cause 4	C98	UEs supporting CS domain services
9.5.6	MM connection / expiry T3230	C98	UEs supporting CS domain services
9.5.7.1	MM connection / abortion by the network / cause #6	C98	UEs supporting CS domain services
9.5.7.2	MM connection / abortion by the network / cause not equal to #6	C100	UEs supporting CS domain services UEs supporting at least one non-call related SS
9.5.8.1	MM connection / follow-on request pending / test 1	C98	UEs supporting CS domain services
9.5.8.2	MM connection / follow-on request pending / test 2	C98	UEs supporting CS domain services
9.5.8.3	MM connection / follow-on request pending / test 3	C98	UEs supporting CS domain services
CALL CONTROL			
10.1.2.1.1	Outgoing call / U0 null state / MM connection requested	C10	UEs supporting at least one mobile originated circuit switched basic service
10.1.2.2.1	Outgoing call / U0.1 MM connection pending / CM service rejected	C10	UEs supporting at least one mobile originated circuit switched basic service

Clause	Title	Applicability	Comments
10.1.2.2.2	Outgoing call / U0.1 MM connection pending / CM service accepted	C10	UEs supporting at least one mobile originated circuit switched basic service
10.1.2.2.3	Outgoing call / U0.1 MM connection pending / lower layer failure	C10	UEs supporting at least one mobile originated circuit switched basic service
10.1.2.3.1	Outgoing call / U1 call initiated / receiving CALL PROCEEDING	C10	UEs supporting at least one mobile originated circuit switched basic service
10.1.2.3.2	Outgoing call / U1 call initiated / rejecting with RELEASE COMPLETE	C10	UEs supporting at least one mobile originated circuit switched basic service
10.1.2.3.3	Outgoing call / U1 call initiated / T303 expiry	C10	UEs supporting at least one mobile originated circuit switched basic service
10.1.2.3.4	Outgoing call / U1 call initiated / lower layer failure	C10	UEs supporting at least one mobile originated circuit switched basic service
10.1.2.3.5	Outgoing call / U1 call initiated / receiving ALERTING	C10	UEs supporting at least one mobile originated circuit switched basic service
10.1.2.3.6	Outgoing call / U1 call initiated / entering state U10	C10	UEs supporting at least one mobile originated circuit switched basic service
10.1.2.3.7	Outgoing call / U1 call initiated / unknown message received	C10	UEs supporting at least one mobile originated circuit switched basic service
10.1.2.4.1	Outgoing call / U3 UE originating call proceeding / ALERTING received	C10	UEs supporting at least one mobile originated circuit switched basic service
10.1.2.4.2	Outgoing call / U3 UE originating call proceeding / CONNECT received	C10	UEs supporting at least one mobile originated circuit switched basic service
10.1.2.4.3	Outgoing call / U3 UE originating call proceeding / PROGRESS received without in band information	C10	UEs supporting at least one mobile originated circuit switched basic service
10.1.2.4.4	Outgoing call / U3 UE originating call proceeding / PROGRESS with in band information	C10	UEs supporting at least one mobile originated circuit switched basic service
10.1.2.4.5	Outgoing call / U3 UE originating call proceeding / DISCONNECT with in band tones	C10	UEs supporting at least one mobile originated circuit switched basic service
10.1.2.4.6	Outgoing call / U3 UE originating call proceeding / DISCONNECT without in band tones	C10	UEs supporting at least one mobile originated circuit switched basic service
10.1.2.4.7	Outgoing call / U3 UE originating call proceeding / RELEASE received	C10	UEs supporting at least one mobile originated circuit switched basic service
10.1.2.4.8	Outgoing call / U3 UE originating call proceeding / termination requested by the user	C10	UEs supporting at least one mobile originated circuit switched basic service
10.1.2.4.9	Outgoing call / U3 UE originating call proceeding / traffic channel allocation	C10	UEs supporting at least one mobile originated circuit switched basic service
10.1.2.4.10	Outgoing call / U3 UE originating call proceeding / timer T310 time-out	C10	UEs supporting at least one mobile originated circuit switched basic service
10.1.2.4.11	Outgoing call / U3 UE originating call proceeding / lower layer failure	C10	UEs supporting at least one mobile originated circuit switched basic service
10.1.2.4.12	Outgoing call / U3 UE originating call proceeding / unknown message received	C10	UEs supporting at least one mobile originated circuit switched basic service
10.1.2.4.13	Outgoing call / U3 UE originating call proceeding / Internal alerting indication	C13	UEs supporting mobile originated circuit switched basic service for telephony
10.1.2.5.1	Outgoing call / U4 call delivered / CONNECT received	C10	UEs supporting at least one mobile originated circuit switched basic service
10.1.2.5.2	Outgoing call / U4 call delivered / termination requested by the user	C10	UEs supporting at least one mobile originated circuit switched basic service
10.1.2.5.3	Outgoing call / U4 call delivered / DISCONNECT with in band tones	C10	UEs supporting at least one mobile originated circuit switched basic service
10.1.2.5.4	Outgoing call / U4 call delivered / DISCONNECT without in band tones	C10	UEs supporting at least one mobile originated circuit switched basic service
10.1.2.5.5	Outgoing call / U4 call delivered / RELEASE received	C10	UEs supporting at least one mobile originated circuit switched basic service
10.1.2.5.6	Outgoing call / U4 call delivered / lower layer failure	C10	UEs supporting at least one mobile originated circuit switched basic service
10.1.2.5.7	Outgoing call / U4 call delivered / traffic channel allocation	C10	UEs supporting at least one mobile originated circuit switched basic service
10.1.2.5.8	Outgoing call / U4 call delivered / unknown message received	C10	UEs supporting at least one mobile originated circuit switched basic service
10.1.2.6.1	U10 call active / termination requested by the user	C10	UEs supporting at least one mobile originated circuit switched basic service
10.1.2.6.2	U10 call active / RELEASE received	C10	UEs supporting at least one mobile originated circuit switched basic service
10.1.2.6.3	U10 call active / DISCONNECT with in band tones	C10	UEs supporting at least one mobile originated circuit switched basic service
10.1.2.6.4	U10 call active / DISCONNECT without in band tones	C10	UEs supporting at least one mobile originated circuit switched basic service
10.1.2.6.5	U10 call active / RELEASE COMPLETE received	C10	UEs supporting at least one mobile originated circuit switched basic service

Clause	Title	Applicability	Comments
10.1.2.6.6	U10 call active / SETUP received	C10	UEs supporting at least one mobile originated circuit switched basic service
10.1.2.7.1	U11 disconnect request / clear collision	C10	UEs supporting at least one mobile originated circuit switched basic service
10.1.2.7.2	U11 disconnect request / RELEASE received	C10	UEs supporting at least one mobile originated circuit switched basic service
10.1.2.7.3	U11 disconnect request / timer T305 time-out	C10	UEs supporting at least one mobile originated circuit switched basic service
10.1.2.7.4	U11 disconnect request / lower layer failure	C10	UEs supporting at least one mobile originated circuit switched basic service
10.1.2.7.5	U11 disconnect request / unknown message received	C10	UEs supporting at least one mobile originated circuit switched basic service
10.1.2.8.1	U12 disconnect indication / call releasing requested by the user	C13	UEs supporting bearer capability for speech.= UE supporting mobile originated circuit switched basic service for telephony
10.1.2.8.2	U12 disconnect indication / RELEASE received	C13	UEs supporting bearer capability for speech. = UE supporting mobile originated circuit switched basic service for telephony
10.1.2.8.3	U12 disconnect indication / lower layer failure	C13	UEs supporting bearer capability for speech. = UE supporting mobile originated circuit switched basic service for telephony
10.1.2.8.4	U12 disconnect indication / unknown message received	C13	UEs supporting bearer capability for speech. = UE supporting mobile originated circuit switched basic service for telephony
10.1.2.9.1	Outgoing call / U19 release request / timer T308 time-out	C10	UEs supporting at least one mobile originated circuit switched basic service.
10.1.2.9.2	Outgoing call / U19 release request / 2nd timer T308 time-out	C10	UEs supporting at least one mobile originated circuit switched basic service.
10.1.2.9.3	Outgoing call / U19 release request / RELEASE received	C10	UEs supporting at least one mobile originated circuit switched basic service.
10.1.2.9.4	Outgoing call / U19 release request / RELEASE COMPLETE received	C10	UEs supporting at least one mobile originated circuit switched basic service.
10.1.2.9.5	Outgoing call / U19 release request / lower layer failure	C10	UEs supporting at least one mobile originated circuit switched basic service.
10.1.3.1.1	Incoming call / U0 null state / SETUP received with a non supported bearer capability	C11	UEs supporting at least one mobile terminating circuit switched basic service.All UEs.
10.1.3.2.1	Incoming call / U6 call present / automatic call rejection	C11	UEs supporting at least one mobile terminating circuit switched basic service.
10.1.3.3.1	Incoming call / U9 mobile terminating call confirmed / alerting or immediate connecting	C11	UEs supporting at least one mobile terminating circuit switched basic service.
10.1.3.3.2	Incoming call / U9 mobile terminating call confirmed / DTCH assignment	C41	UEs supporting at least one MT circuit switched basic service, for which immediate connect is not used.
10.1.3.3.3	Incoming call / U9 mobile terminating call confirmed / termination requested by the user	C41	UEs supporting at least one MT circuit switched basic service for which immediate connection is not used
10.1.3.3.4	Incoming call / U9 mobile terminating call confirmed / DISCONNECT received	C41	UEs supporting at least one MT circuit switched basic service, for which immediate connect is not used.
10.1.3.3.5	Incoming call / U9 mobile terminating call confirmed / RELEASE received	C41	UEs supporting at least one MT circuit switched basic service, for which immediate connect is not used.
10.1.3.3.6	Incoming call / U9 mobile terminating call confirmed / lower layer failure	C41	UEs supporting at least one MT circuit switched basic service, for which immediate connect is not used.
10.1.3.3.7	Incoming call / U9 mobile terminating call confirmed / unknown message received	C41	UEs supporting at least MT circuit switched basic service, for which immediate connect is not used.
10.1.3.4.1	Incoming call / U7 call received / call accepted	C41	UEs supporting at least one mobile terminating circuit switched basic service for which immediate connect is not used.

Clause	Title	Applicability	Comments
10.1.3.4.2	Incoming call / U7 call received / termination requested by the user	C41	UEs supporting at least one mobile terminating circuit switched basic service for which immediate connect is not used.
10.1.3.4.3	Incoming call / U7 call received / DISCONNECT received	C41	UEs supporting at least one mobile terminating circuit switched basic service for which immediate connect is not used.
10.1.3.4.4	Incoming call / U7 call received / RELEASE received	C41	UEs supporting at least one mobile terminating circuit switched basic service for which immediate connect is not used.
10.1.3.4.5	Incoming call / U7 call received / lower layer failure	C41	UEs supporting at least one mobile terminating circuit switched basic service for which immediate connect is not used.
10.1.3.4.6	Incoming call / U7 call received / unknown message received	C41	UEs supporting at least one mobile terminating circuit switched basic service for which immediate connect is not used.
10.1.3.4.7	Incoming call / U7 call received / DTCH assignment	C41	UEs supporting at least one mobile terminating circuit switched basic service for which immediate connect is not used.
10.1.3.4.8	Incoming call / U7 call received / RELEASE COMPLETE received	C41	UEs supporting at least one mobile terminating circuit switched basic service, for which immediate connect is not used.
10.1.3.5.1	Incoming call / U8 connect request / CONNECT acknowledged	C11	UEs supporting at least one mobile terminating circuit switched basic service.
10.1.3.5.2	Incoming call / U8 connect request / timer T313 time-out	C11	UEs supporting at least one mobile terminating circuit switched basic service.
10.1.3.5.3	Incoming call / U8 connect request / termination requested by the user	C11	UEs supporting at least one mobile terminating circuit switched basic service.
10.1.3.5.4	Incoming call / U8 connect request / DISCONNECT received with in-band information	C11	UEs supporting at least one mobile terminating circuit switched basic service.
10.1.3.5.5	Incoming call / U8 connect request / DISCONNECT received without in-band information	C11	UEs supporting at least one mobile terminating circuit switched basic service.
10.1.3.5.6	Incoming call / U8 connect request / RELEASE received	C11	UEs supporting at least one mobile terminating circuit switched basic service.
10.1.3.5.7	Incoming call / U8 connect request / lower layer failure	C11	UEs supporting at least one mobile terminating circuit switched basic service.
10.1.3.5.8	Incoming call / U8 connect request / DTCH assignment	C11	UEs supporting at least one mobile terminating circuit switched basic service.
10.1.3.5.9	Incoming call / U8 connect request / unknown message received	C11	UEs supporting at least one mobile terminating circuit switched basic service.
10.1.4.1.1	In-call functions / DTMF information transfer / basic procedures	C13	UEs supporting any equipment supporting bearer capability for speech= UE supporting mobile originated circuit switched basic service for telephony
10.1.4.2.1	In-call functions / User notification / UE terminated	C14	UEs supporting at least one circuit switched basic service.
10.1.4.3.1	In-call functions / channel changes / a successful channel change in active state/ Handover and Assignment Command	C14	UEs supporting at least one circuit switched basic service.
10.1.4.3.2	In-call functions / channel changes / an unsuccessful channel change in active mode/ Handover and Assignment Command	C14	UEs supporting at least one circuit switched basic service.
10.2.1	Call Re-establishment/call present, re-establishment allowed	C16	UEs supporting at least one bearer capability.
10.3	User to user signalling	C11	UEs supporting at least one mobile terminating circuit switched basic service.

Clause	Title	Applicability	Comments
SESSION MANAGEMENT			
11.1.1.1	Attach initiated by context activation/QoS Offered by Network is the QoS Requested	C12	UE supporting PS domain services.
11.1.1.2.1	QoS offered by the network is a lower QoS / QoS accepted by UE	C12	UE supporting PS domain services.
11.1.1.2.2	QoS offered by the network is a lower QoS / QoS rejected by UE	C12	UE supporting PS domain services. This test may not be applicable to the UEs which support all QoS and it is not possible to configure the UE to reject any QoS.
11.1.2	PDP context activation requested by the network, successful and unsuccessful	C17	UE supporting PS domain services configured in such a way that one or more PDP contexts can be active simultaneously.
11.1.3.1	Abnormal Cases / T3380 Expiry	C12	UE supporting PS domain services.
11.1.3.2	Abnormal Cases / Collision of UE initiated and network requested PDP context activation	C17	UE supporting PS domain services configured in such a way that one or more PDP contexts can be active simultaneously.
11.1.3.3	Network initiated PDP context activation request for an already activated PDP context (on the UE side)	C12	UE supporting PS domain services.
11.1.4.1.1	Successful secondary PDP context activation procedure initiated by the UE/QoS Offered by Network is the QoS Requested	C12	UE supporting PS domain services.
11.1.4.1.2.1	Successful secondary PDP context activation procedure Initiated by the UE/QoS Offered by Network is a lower QoS/QoS accepted by UE	C12	UE supporting PS domain services.
11.1.4.1.2.2	Successful secondary PDP context activation procedure Initiated by the UE/QoS Offered by Network is a lower QoS/QoS rejected by UE	C12	UE supporting PS domain services.
11.1.4.2	Unsuccessful Secondary PDP Context Activation Procedure Initiated by the UE	C12	UE supporting PS domain services.
11.1.4.2.1	Abnormal cases/T3380 Expiry	C12	UE supporting PS domain services.
11.2.1	Network initiated PDP context modification	C12	UE supporting PS domain services.
11.2.2.1	UE initiated PDP context modification/UE initiated PDP context modification accepted by network	C12	UE supporting PS domain services.
11.2.2.2	UE initiated PDP context modification/UE initiated PDP context modification not accepted by network	C12	UE supporting PS domain services.
11.2.3.1	Abnormal Cases/T3381 Expiry	C12	UE supporting PS domain services.
11.2.3.2	Collision of UE and network initiated PDP context modification procedures	C12	UE supporting PS domain services.
11.3.1	PDP context deactivation initiated by the UE	C12	UE supporting PS domain services.
11.3.2	PDP context deactivation initiated by the network	C12	UE supporting PS domain services.
11.3.3.1	Abnormal cases / T3390 Expiry	C12	UE supporting PS domain services.
11.3.3.2	Abnormal cases / Collision of UE and network initiated PDP context deactivation requests	C12	UE supporting PS domain services.
11.4.1	Error cases	C12	UE supporting PS domain services.
PACKET SWITCHED MOBILITY MANAGEMENT			
12.2.1.1	PS attach / accepted	C12	UE supporting PS domain services.
12.2.1.2	PS attach / rejected / IMSI invalid / illegal UE	C12	UE supporting PS domain services.
12.2.1.3	PS attach / rejected / IMSI invalid / PS services not allowed	C12	UE supporting PS domain services.
12.2.1.4	PS attach / rejected / PLMN not allowed	C12	UE supporting PS domain services.
12.2.1.5	PS attach / rejected / roaming not allowed in this location area	C12	UE supporting PS domain services.
12.2.1.6	PS attach / abnormal cases / access barred due to access class control	C12	UE supporting PS domain services.
12.2.1.7	PS attach / abnormal cases / change of cell into new routing area	C12	UE supporting PS domain services.
12.2.1.8	PS attach / abnormal cases / power off	C12	UE supporting PS domain services.
12.2.1.9	PS attach / abnormal cases / PS detach procedure collision	C12	UE supporting PS domain services.
12.2.2.1	Combined PS attach / PS and non-PS attach accepted	C88	UE supporting PS domain services and CS domain services.

Clause	Title	Applicability	Comments
12.2.2.2	Combined PS attach / PS only attach accepted	C88	UE supporting PS domain services and CS domain services.
12.2.2.3	Combined PS attach / PS attach while IMSI attach	C103	UE supports UE operation mode A and does not support automatic PS attach procedure at switch on.
12.2.2.4	Combined PS attach / rejected / IMSI invalid / illegal ME	C88	UE supporting PS domain services and CS domain services (UE supports UE operation mode A).
12.2.2.5	Combined PS attach / rejected / PS services and non-PS services not allowed	C88	UE supporting PS domain services and CS domain services (UE supports UE operation mode A).
12.2.2.6	Combined PS attach / rejected / PS services not allowed	C88	UE supporting PS domain services and CS domain services (UE supports UE operation mode A).
12.2.2.7	Combined PS attach / rejected / location area not allowed	C88	UE supporting PS domain services and CS domain services (UE supports UE operation mode A).
12.2.2.8	Combined PS attach / abnormal cases / attempt counter check / miscellaneous reject causes	C88	UE supporting PS domain services and CS domain services (UE supports UE operation mode A).
12.2.2.9	Combined PS attach / abnormal cases / PS detach procedure collision	C88	UE supporting PS domain services and CS domain services (UE supports UE operation mode A).
12.3.1.1	PS detach / power off / accepted	C12	UE supporting PS domain services.
12.3.1.2	PS detach / accepted	C12	UE supporting PS domain services.
12.3.1.3	PS detach / abnormal cases / attempt counter check / procedure timeout	C12	UE supporting PS domain services.
12.3.1.4	PS detach / abnormal cases / GMM common procedure collision	C12	UE supporting PS domain services.
12.3.1.5	PS detach / power off / accepted	C88	UE supporting PS domain services and CS domain services (UE supports UE operation mode A).
12.3.1.6	PS detach / accepted / PS/IMSI detach	C88	UE supporting PS domain services and CS domain services (UE supports UE operation mode A).
12.3.1.7	PS detach / accepted / IMSI detach	C12	UE supporting PS domain services.
12.3.1.8	PS detach / abnormal cases / change of cell into new routing area	C88	UE supporting PS domain services and CS domain services (UE supports UE operation mode A).
12.3.1.9	PS detach / abnormal cases / PS detach procedure collision	C88	UE supporting PS domain services and CS domain services (UE supports UE operation mode A).
12.3.2.1	PS detach / re-attach not required / accepted	C12	UE supporting PS domain services.
12.3.2.2	PS detach / rejected / IMSI invalid / PS services not allowed	C12	UE supporting PS domain services.
12.3.2.3	PS detach / IMSI detach / accepted	C88	UE supporting PS domain services and CS domain services (UE supports UE operation mode A).
12.3.2.4	PS detach / re-attach requested / accepted	C88	UE supporting PS domain services and CS domain services (UE supports UE operation mode A).
12.3.2.5	PS detach / rejected / location area not allowed	C12	UE supporting PS domain services.
12.4.1.1	Routing area updating / accepted	C12	UE supporting PS domain services.
12.4.1.2	Routing area updating / rejected / IMSI invalid / illegal ME	C12	UE supporting PS domain services.
12.4.1.3	Routing area updating / rejected / UE identity cannot be derived by the network	C12	UE supporting PS domain services.
12.4.1.4	Routing area updating / rejected / location area not allowed	C12	UE supporting PS domain services.
12.4.1.5	Routing area updating / abnormal cases / attempt counter check / miscellaneous reject causes	C12	UE supporting PS domain services.
12.4.1.6	Routing area updating / abnormal cases / change of cell into new routing area	C12	UE supporting PS domain services.
12.4.1.7	Routing area updating / abnormal cases / change of cell during routing area updating procedure	C12	UE supporting PS domain services.
12.4.1.8	Routing area updating / abnormal cases / P-TMSI reallocation procedure collision	C12	UE supporting PS domain services.
12.4.2.1	Combined routing area updating / combined RA/LA accepted	C88	UE supporting PS domain services and CS domain services (UE supports UE operation mode A).

Clause	Title	Applicability	Comments
12.4.2.2	Combined routing area updating / UE in CS operation at change of RA	C88	UE supporting PS domain services and CS domain services (UE supports UE operation mode A).
12.4.2.3	Combined routing area updating / RA only accepted	C88	UE supporting PS domain services and CS domain services (UE supports UE operation mode A).
12.4.2.4	Combined routing area updating / rejected / PLMN not allowed	C88	UE supporting PS domain services and CS domain services (UE supports UE operation mode A).
12.4.2.5	Combined routing area updating / rejected / roaming not allowed in this location area	C88	UE supporting PS domain services and CS domain services (UE supports UE operation mode A).
12.4.2.6	Combined routing area updating / abnormal cases / access barred due to access class control	C88	UE supporting PS domain services and CS domain services (UE supports UE operation mode A).
12.4.2.7	Combined routing area updating / abnormal cases / attempt counter check / procedure timeout	C88	UE supporting PS domain services and CS domain services (UE supports UE operation mode A).
12.4.2.8	Combined routing area updating / abnormal cases / change of cell into new routing area	C88	UE supporting PS domain services and CS domain services (UE supports UE operation mode A).
12.4.2.9	Combined routing area updating / abnormal cases / change of cell during routing area updating procedure	C88	UE supporting PS domain services and CS domain services (UE supports UE operation mode A).
12.4.2.10	Combined routing area updating / abnormal cases / PS detach procedure collision	C88	UE supporting PS domain services and CS domain services (UE supports UE operation mode A).
12.4.3.1	Periodic routing area updating / accepted	C12	UE supporting PS domain services.
12.4.3.2	Periodic routing area updating / accepted / T3312 default value	C12	UE supporting PS domain services.
12.4.3.3	Periodic routing area updating / no cell available / network mode I	C12	UE supporting PS domain services.
12.4.3.4	Combined periodic routing area updating / no cell available	C88	UE supporting PS domain services and CS domain services (UE supports UE operation mode A).
12.5	P-TMSI reallocation	C12	UE supporting PS domain services.
12.6.1.1	Authentication accepted	C12	UE supporting PS domain services.
12.6.1.2	Authentication rejected - by the network	C12	UE supporting PS domain services.
12.6.1.3.1	GMM cause 'MAC failure'	C12	UE supporting PS domain services
12.6.1.3.2	GMM cause 'Synch failure'	C12	UE supporting PS domain services
12.6.1.3.3	Authentication rejected by the UE / fraudulent network	C12	UE supporting PS domain services
12.7.1	General Identification	C12	UE supporting PS domain services.
12.8	GMM READY timer handling	C12	UE supporting PS domain services.
12.9.1	Service Request Initiated by UE Procedure	C12	UE supporting PS domain services.
12.9.2	Service Request Initiated by Network Procedure	C12	UE supporting PS domain services.
12.9.3	Service Request / rejected / Illegal MS	C12	UE supporting PS domain services.
12.9.4	Service Request / rejected / PS services not allowed	C12	UE supporting PS domain services.
12.9.5	Service Request / rejected / MS identity cannot be derived by the network	C12	UE supporting PS domain services.
12.9.6	Service Request / rejected / PLMN not allowed	C12	UE supporting PS domain services.
12.9.7	Service Request / rejected / No PDP context activated	C12	UE supporting PS domain services.
12.9.8	Service Request / Abnormal cases / Access barred due to access class control	C12	UE supporting PS domain services.
12.9.9	Service Request / Abnormal cases / Routing area update procedure is triggered	C12	UE supporting PS domain services.
12.9.10	Service Request / Abnormal cases / Power off	C12	UE supporting PS domain services.
12.9.11	Service Request / Abnormal cases / Service request procedure collision	C12	UE supporting PS domain services.
GENERAL TESTS			
13.2.1.1	Emergency call / with USIM / accept case	C96	UEs supporting emergency speech call
13.2.2.1	Emergency call / without USIM / accept case	C96	UEs supporting emergency speech call
13.2.2.2	Emergency call / without USIM / reject case	C96	UEs supporting emergency speech call
RADIO BEARER SERVICES			
	Combinations on DPCH		
14.2.1	Stand-alone UL:1.7 DL:1.7 kbps SRBs for DCCH	C42	UEs supporting DL 32 kbps class or higher; and UL 32 kbps class or higher.

Clause	Title	Applicability	Comments
			See Note 1
14.2.2	Stand-alone UL:3.4 DL:3.4 kbps SRBs for DCCH	C42	UEs supporting DL 32 kbps class or higher; and UL 32 kbps class or higher; and SF512. See Note 1
14.2.3	Stand-alone UL:13.6 DL:13.6 kbps SRBs for DCCH	C42	UEs supporting DL 32 kbps class or higher; and UL 32 kbps class or higher. See Note 1
14.2.4	Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH	C43	UEs supporting Narrow band speech (AMR); and CS bearer services; and Conversational traffic class; and DL 32 kbps class or higher; and UL 32 kbps class or higher. See Note 1
14.2.5	Conversational / speech / UL:10.2 DL:10.2 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH	C43	UE supporting Narrow band speech (AMR); and CS bearer services; and Conversational traffic class; and DL 32 kbps class or higher; and UL 32 kbps class or higher. See Note 1
14.2.6	Conversational / speech / UL:7.95 DL:7.95 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH	C43	UE supporting Narrow band speech (AMR); and CS bearer services; and Conversational traffic class; and DL 32 kbps class or higher; and UL 32 kbps class or higher. See Note 1
14.2.7	Conversational / speech / UL:7.4 DL:7.4 kbps / CS RAB+ UL:3.4 DL:3.4 kbps SRBs for DCCH	C43	UE supporting Narrow band speech (AMR); and CS bearer services; and Conversational traffic class; and DL 32 kbps class or higher; and UL 32 kbps class or higher. See Note 1
14.2.8	Conversational / speech / UL:6.7 DL:6.7 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH	C43	UE supporting Narrow band speech (AMR); and CS bearer services; and Conversational traffic class; and DL 32 kbps class or higher; and UL 32 kbps class or higher. See Note 1
14.2.9	Conversational / speech / UL:5.9 DL:5.9 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH	C43	UE supporting Narrow band speech (AMR); and CS bearer services; and Conversational traffic class; and DL 32 kbps class or higher; and UL 32 kbps class or higher. See Note 1
14.2.10	Conversational / speech / UL:5.15 DL:5.15 kbps / CS RAB + UL:1.7 DL:1.7 kbps SRBs for DCCH	C43	UE supporting Narrow band speech (AMR); and CS bearer services; and Conversational traffic class; and DL 32 kbps class or higher; and UL 32 kbps class or higher. See Note 1
14.2.11	Conversational / speech / UL:4.75 DL:4.75 kbps / CS RAB + UL:1.7 DL:1.7 kbps SRBs for DCCH	C43	UE supporting Narrow band speech (AMR); and CS bearer services; and Conversational traffic class; and DL 32 kbps class or higher; and UL 32 kbps class or higher.

Clause	Title	Applicability	Comments
			See Note 1
14.2.12	Conversational / unknown / UL:28.8 DL:28.8 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH	C44	UE supporting CS bearer services; and Conversational traffic class; and DL 64 kbps class or higher; and UL 64 kbps class or higher. See Note 1
14.2.13.1	Conversational / unknown / UL:64 DL:64 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH / 20 ms TTI	C44	UE supporting CS bearer services; and Conversational traffic class; and DL 64 kbps class or higher; and UL 64 kbps class or higher. See Note 1
14.2.13.2	Conversational / unknown / UL:64 DL:64 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH / 40 ms TTI	C44	UE supporting CS bearer services; and Conversational traffic class; and DL 64 kbps class or higher; and UL 64 kbps class or higher. See Note 1
14.2.14.1	Conversational / unknown / UL:32 DL:32 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH / 20 ms TTI	C44	UE supporting CS bearer services; and Conversational traffic class; and DL 64 kbps class or higher; and UL 64 kbps class or higher. See Note 1
14.2.14.2	Conversational / unknown / UL:32 DL:32 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH / 40 ms TTI	C44	UE supporting CS bearer services; and Conversational traffic class; and DL 64 kbps class or higher; and UL 64 kbps class or higher. See Note 1
14.2.15	Streaming / unknown / UL:14.4/DL:14.4 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH	C45	UE supporting CS bearer services; and Streaming traffic class; and DL 64 kbps class or higher; and UL 64 kbps class or higher. See Note 1
14.2.16	Streaming / unknown / UL:28.8/DL:28.8 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH	C45	UE supporting CS bearer services; and Streaming traffic class; and DL 64 kbps class or higher; and UL 64 kbps class or higher. See Note 1
14.2.17	Streaming / unknown / UL:57.6/DL:57.6 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH	C45	UE supporting CS bearer services; and Streaming traffic class; and DL 64 kbps class or higher; and UL 64 kbps class or higher. See Note 1
14.2.18	Streaming / unknown / UL:0 DL:64 kbps / CS or PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH	C46	UE supporting CS or PS bearer services; and Streaming traffic class; and DL 64 kbps class or higher; and UL 32 kbps class or higher. See Note 1
14.2.19	Streaming / unknown / UL:64 DL:0 kbps / CS or PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH	C47	UE supporting CS or PS bearer services; and Streaming traffic class; and DL 32 kbps class or higher; and UL 64 kbps class or higher. See Note 1.
14.2.20	Streaming / unknown / UL:0 DL:128 kbps / CS or PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH	C48	UE supporting CS or PS bearer services; and

Clause	Title	Applicability	Comments
			Streaming traffic class; and DL 384 kbps class or higher; and UL 32 kbps class or higher. See Note 1.
14.2.21	Streaming / unknown / UL:128 DL:0 kbps / CS or PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH	C49	UEs supporting CS or PS bearer services; and Streaming traffic class; and DL 32 kbps class or higher; and UL 384 kbps class or higher. See Note 1
14.2.22	Streaming / unknown / UL:0 DL:384 kbps / CS or PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH	C50	UE supporting CS or PS bearer services; and Streaming traffic class; and DL 2048 kbps class; and UL 32 kbps class or higher. See Note 1
14.2.23.1	Interactive or background / UL:32 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH / (TC, 10 ms TTI)	C89	UE supporting PS bearer services; and Interactive or background traffic class; and DL 32 kbps class or higher; and UL 32 kbps class or higher; and Turbo encoding; and Turbo decoding. See Note 1
14.2.23.2	Interactive or background / UL:32 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH / (TC, 20 ms TTI)	C89	UE supporting PS bearer services; and Interactive or background traffic class; and DL 32 kbps class or higher; and UL 32 kbps class or higher; and Turbo encoding; and Turbo decoding. See Note 1
14.2.23.3	Interactive or background / UL:32 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH / (CC, 10 ms TTI)	C51	UE supporting PS bearer services; and Interactive or background traffic class; and DL 32 kbps class or higher; and UL 32 kbps class or higher. See Note 1
14.2.23.4	Interactive or background / UL:32 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH / (CC, 20 ms TTI)	C51	UE supporting PS bearer services; and Interactive or background traffic class; and DL 32 kbps class or higher; and UL 32 kbps class or higher. See Note 1
14.2.24	Interactive or background / UL:64 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH	C52	UE supporting PS bearer services; and Interactive or background traffic class; and DL 32 kbps class or higher; and UL 64 kbps class or higher. See Note 1
14.2.25.1	Interactive or background / UL:32 DL: 64 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH/ (TC, 10 ms TTI)	C90	UE supporting PS bearer services; and Interactive or background traffic class; and DL 64 kbps class or higher; and UL 32 kbps class or higher; and Turbo encoding; and Turbo decoding. See Note 1
14.2.25.2	Interactive or background / UL:32 DL: 64 kbps /	C90	UE supporting

Clause	Title	Applicability	Comments
	PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH / (TC, 20 ms TTI)		PS bearer services; and Interactive or background traffic class; and DL 64 kbps class or higher; and UL 32 kbps class or higher; and Turbo encoding; and Turbo decoding. See Note 1
14.2.25.3	Interactive or background / UL:32 DL: 64 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH / (CC, 10 ms TTI)	C53	UE supporting PS bearer services; and Interactive or background traffic class; and DL 64 kbps class or higher; and UL 32 kbps class or higher; and Turbo decoding. See Note 1
14.2.25.4	Interactive or background / UL:32 DL: 64 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH / (CC, 20 ms TTI)	C53	UE supporting PS bearer services; and Interactive or background traffic class; and DL 64 kbps class or higher; and UL 32 kbps class or higher; and Turbo decoding. See Note 1
14.2.26	Interactive or background / UL:64 DL: 64 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH	C54	UE supporting PS bearer services; and Interactive or background traffic class; and DL 64 kbps class or higher; and UL 64 kbps class or higher. See Note 1
14.2.27	Interactive or background / UL:64 DL:128 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH	C55	UE supporting PS bearer services; and Interactive or background traffic class; and DL 128 kbps class or higher; and UL 64 kbps class or higher. See Note 1
14.2.28	Interactive or background / UL:128 DL:128 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH	C56	UE supporting PS bearer services; and Interactive or background traffic class; and DL 128 kbps class or higher; and UL 128 kbps class or higher. See Note 1
14.2.29	Interactive or background / UL:64 DL:144 kbps / PS RAB + UL:3.4 DL: 3.4 kbps SRBs for DCCH	C55	UE supporting PS bearer services; and Interactive or background traffic class; and DL 128 kbps class or higher; and UL 64 kbps class or higher. See Note 1
14.2.30	Interactive or background / UL:144 DL:144 kbps / PS RAB + UL:3.4 DL: 3.4 kbps SRBs for DCCH	C56	UE supporting PS bearer services; and Interactive or background traffic class; and DL 128 kbps class or higher; and UL 128 kbps class or higher. See Note 1
14.2.31.1	Interactive or background / UL:64 DL:256 kbps / PS RAB + UL:3.4 DL: 3.4 kbps SRBs for DCCH /10 ms TTI	C57	UE supporting PS bearer services; and Interactive or background traffic class; and DL 384 kbps class or higher; and UL 64 kbps class or higher.

Clause	Title	Applicability	Comments
			See Note 1
14.2.31.2	Interactive or background / UL:64 DL:256 kbps / PS RAB + UL:3.4 DL: 3.4 kbps SRBs for DCCH /20 ms TTI	C57	UE supporting PS bearer services; and Interactive or background traffic class; and DL 384 kbps class or higher; and UL 64 kbps class or higher. See Note 1
14.2.32.1	Interactive or background / UL:64 DL:384 kbps / PS RAB + UL:3.4 DL: 3.4 kbps SRBs for DCCH / 10 ms TTI	C57	UE supporting PS bearer services; and Interactive or background traffic class; and DL 384 kbps class or higher; and UL 64 kbps class or higher. See Note 1
14.2.32.2	Interactive or background / UL:64 DL:384 kbps / PS RAB + UL:3.4 DL: 3.4 kbps SRBs for DCCH / 20 ms TTI	C60	UE supporting PS bearer services; and Interactive or background traffic class; and DL 768 kbps class or higher; and UL 64 kbps class or higher. See Note 1
14.2.33.1	Interactive or background / UL:128 DL:384 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH / 10 ms TTI	C58	UE supporting PS bearer services; and Interactive or background traffic class; and DL 384 kbps class or higher; and UL 128 kbps class or higher. See Note 1
14.2.33.2	Interactive or background / UL:128 DL:384 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH / 20 ms TTI	C61	UE supporting PS bearer services; and Interactive or background traffic class; and DL 768 kbps class or higher; and UL 128 kbps class or higher. See Note 1
14.2.34.1	Interactive or background / UL:384 DL:384 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH / 10 ms TTI	C59	UEs supporting PS bearer services; and Interactive or background traffic class; and DL 384 kbps class or higher; and UL 384 kbps class or higher. See Note 1
14.2.34.2	Interactive or background / UL:384 DL:384 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH / 20 ms TTI	C62	UE supporting PS bearer services; and Interactive or background traffic class; and DL 768 kbps class or higher; and UL 768 kbps class or higher. See Note 1
14.2.35.1	Interactive or background / UL:64 DL:2048 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH / 10 ms TTI	C63	UE supporting PS bearer services; and Interactive or background traffic class; and DL 2048 kbps class; and UL 64 kbps class or higher; and Max UE test loop UL RLC SDU size 65535 bits. See Note 1
14.2.35.2	Interactive or background / UL:64 DL:2048 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH / 20 ms TTI	C63	UE supporting PS bearer services; and Interactive or background traffic class; and DL 2048 kbps class; and UL 64 kbps class or higher; and Max UE test loop UL RLC SDU size

Clause	Title	Applicability	Comments
			65535 bits. See Note 1
14.2.36.1	Interactive or background / UL:128 DL:2048 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH / 10 ms TTI	C64	UE supporting PS bearer services; and Interactive or background traffic class; and DL 2048 kbps class; and UL 128 kbps class or higher; and Max UE test loop UL RLC SDU size 65535 bits. See Note 1
14.2.36.2	Interactive or background / UL:128 DL:2048 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH / 20 ms TTI	C64	UE supporting PS bearer services; and Interactive or background traffic class; and DL 2048 kbps class; and UL 128 kbps class or higher; and Max UE test loop UL RLC SDU size 65535 bits. See Note 1
14.2.37.1	Interactive or background / UL:384 DL:2048 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH / 10 ms TTI	C65	UE supporting PS bearer services; and Interactive or background traffic class; and DL 2048 kbps class; and UL 384 kbps class or higher and Max UE test loop UL RLC SDU size 65535 bits. See Note 1
14.2.37.2	Interactive or background / UL:384 DL:2048 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH / 20 ms TTI	C66	UE supporting PS bearer services; and Interactive or background traffic class; and DL 2048 kbps class; and UL 768 kbps class; and Max UE test loop UL RLC SDU size 65535 bits. See Note 1
14.2.38.1	Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:32 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH / (TC, 20 ms TTI	C91	UE supporting Narrow band speech (AMR); and Simultaneous CS and PS bearer services; and Conversational traffic class; and Interactive or Background traffic class; and DL 64 kbps class or higher; and UL 64 kbps class or higher; and Turbo encoding; and Turbo decoding. See Note 1
14.2.38.2	Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:32 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH / (TC, 10 ms TTI	C91	UE supporting Narrow band speech (AMR); and Simultaneous CS and PS bearer services; and Conversational traffic class; and Interactive or Background traffic class; and DL 64 kbps class or higher; and UL 64 kbps class or higher; and Turbo encoding; and Turbo decoding. See Note 1
14.2.38.3	Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:32 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH / (CC, 10 ms TTI	C67	UE supporting Narrow band speech (AMR); and Simultaneous CS and PS bearer services; and Conversational traffic class; and

Clause	Title	Applicability	Comments
			Interactive or Background traffic class; and DL 64 kbps class or higher; and UL 64 kbps class or higher. See Note 1
14.2.38.4	Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:32 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH / (CC, 20 ms TTI	C67	UE supporting Narrow band speech (AMR); and Simultaneous CS and PS bearer services; and Conversational traffic class; and Interactive or Background traffic class; and DL 64 kbps class or higher; and UL 64 kbps class or higher. See Note 1
14.2.39.1	Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:32 DL:64 kbps / PS RAB+ UL:3.4 DL: 3.4 kbps SRBs for DCCH / (TC, 10 ms TTI)	C92	UE supporting Narrow band speech (AMR); and Simultaneous CS and PS bearer services; and Conversational traffic class; and Interactive or Background traffic class; and DL 64 kbps class or higher; and UL 64 kbps class or higher; and Turbo encoding; and Turbo decoding. See Note 1
14.2.39.2	Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:32 DL:64 kbps / PS RAB+ UL:3.4 DL: 3.4 kbps SRBs for DCCH / (TC, 20 ms TTI)	C92	UE supporting Narrow band speech (AMR); and Simultaneous CS and PS bearer services; and Conversational traffic class; and Interactive or Background traffic class; and DL 64 kbps class or higher; and UL 64 kbps class or higher; and Turbo encoding; and Turbo decoding. See Note 1
14.2.39.3	Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:32 DL:64 kbps / PS RAB+ UL:3.4 DL: 3.4 kbps SRBs for DCCH / (CC, 10 ms TTI)	C67	UE supporting Narrow band speech (AMR); and Simultaneous CS and PS bearer services; and Conversational traffic class; and Interactive or Background traffic class; and DL 64 kbps class or higher; and UL 64 kbps class or higher; and Turbo decoding. See Note 1
14.2.39.4	Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:32 DL:64 kbps / PS RAB+ UL:3.4 DL: 3.4 kbps SRBs for DCCH / (CC, 20 ms TTI)	C67	UE supporting Narrow band speech (AMR); and Simultaneous CS and PS bearer services; and Conversational traffic class; and Interactive or Background traffic class; and DL 64 kbps class or higher; and UL 64 kbps class or higher; and Turbo decoding. See Note 1
14.2.40	Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:64 DL:64 kbps / PS RAB+ UL:3.4 DL: 3.4 kbps SRBs for DCCH	C67	UE supporting Narrow band speech (AMR); and Simultaneous CS and PS bearer services; and Conversational traffic class; and Interactive or Background traffic class; and

Clause	Title	Applicability	Comments
			DL 64 kbps class or higher; and UL 64 kbps class or higher. See Note 1
14.2.41	Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:64 DL:128 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH	C68	UE supporting Narrow band speech (AMR); and Simultaneous CS and PS bearer services; and Conversational traffic class; and Interactive or Background traffic class; and DL 128 kbps class or higher; and UL 64 kbps class or higher. See Note 1
14.2.42	Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:64 DL:256 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH	C69	UE supporting Narrow band speech (AMR); and Simultaneous CS and PS bearer services; and Conversational traffic class; and Interactive or Background traffic class; and DL 384 kbps class or higher; and UL 64 kbps class or higher. See Note 1
14.2.43.1	Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:64 DL:384 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH / 10 ms TTI	C69	UE supporting Narrow band speech (AMR); and Simultaneous CS and PS bearer services; and Conversational traffic class; and Interactive or Background traffic class; and DL 384 kbps class or higher; and UL 64 kbps class or higher. See Note 1
14.2.43.2	Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:64 DL:384 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH / 20 ms TTI	C70	UE supporting Narrow band speech (AMR); and Simultaneous CS and PS bearer services; and Conversational traffic class; and Interactive or Background traffic class; and DL 768 kbps class or higher; and UL 64 kbps class or higher. See Note 1
14.2.44.1	Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:128 DL:2048 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH / 10 ms TTI	C71	UE supporting Narrow band speech (AMR); and Simultaneous CS and PS bearer services; and Conversational traffic class; and Interactive or Background traffic class; and DL 2048 kbps class; and UL 128 kbps class or higher; and Max UE test loop UL RLC SDU size 65535 bits. See Note 1
14.2.44.2	Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:128 DL:2048 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH / 20 ms TTI	C71	UE supporting Narrow band speech (AMR); and Simultaneous CS and PS bearer services; and Conversational traffic class; and Interactive or Background traffic class; and DL 2048 kbps class; and UL 128 kbps class or higher; and Max UE test loop UL RLC SDU size 65535 bits. See Note 1

Clause	Title	Applicability	Comments
14.2.45	Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Streaming / unknown / UL:57.6 DL:57.6 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH	C72	UE supporting Multicall (2xCS); and Narrow band speech (AMR); and CS bearer service; and Conversational traffic class; and Streaming traffic class; and DL 64 kbps class or higher; and UL 64 kbps class or higher; and Turbo decoding. See Note 1
14.2.46	Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Streaming / unknown / UL:0 DL:64 kbps / CS or PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH	C73	UE supporting Narrow band speech (AMR); and CS bearer service; and Multicall (2xCS) or Simultaneous CS and PS bearer services; and Conversational traffic class; and Streaming traffic class; and DL 64 kbps class or higher; and UL 32 kbps class or higher; and Turbo decoding. See Note 1
14.2.47	Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Streaming / unknown / UL:0 DL:128 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH	C74	UE supporting Narrow band speech (AMR); and CS bearer service; and Multicall (2xCS); and Conversational traffic class; and Streaming traffic class; and DL 128 kbps class or higher; and UL 32 kbps class or higher; and Turbo decoding. See Note 1
14.2.48	Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Streaming / unknown / UL:0 DL:384 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH	C75	UE supporting Narrow band speech (AMR); and CS bearer service; and Multicall (2xCS); and Conversational traffic class; and Streaming traffic class; and DL 2048 kbps class; and UL 32 kbps class or higher; and Turbo decoding. See Note 1
14.2.49.1	Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Conversational / unknown / UL:64 DL:64 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH / 20 ms TTI	C76	UE supporting Multicall (2xCS); and Narrow band speech (AMR); and CS bearer services; and Conversational traffic class; and DL 64 kbps class or higher; and UL 64 kbps class or higher; and Turbo decoding. See Note 1
14.2.49.2	Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Conversational / unknown / UL:64 DL:64 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH / 40 ms TTI	C76	UE supporting Multicall (2xCS); and Narrow band speech (AMR); and CS bearer services; and Conversational traffic class; and DL 64 kbps class or higher; and UL 64 kbps class or higher; and Turbo decoding. See Note 1
14.2.50.1	Conversational / unknown / UL:64 DL:64 kbps / CS RAB + Conversational / unknown / UL:64 DL:64 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH / 20 ms TTI	C77	UE supporting Multicall (2xCS); and CS bearer service; and Conversational traffic class; and DL 384 kbps class or higher; and UL 384 kbps class or higher; and Turbo decoding. See Note 1

Clause	Title	Applicability	Comments
14.2.50.2	Conversational / unknown / UL:64 DL:64 kbps / CS RAB + Conversational / unknown / UL:64 DL:64 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH / 40 ms TTI	C77	UE supporting Multicall (2xCS); and CS bearer service; and Conversational traffic class; and DL 384 kbps class or higher; and UL 384 kbps class or higher; and Turbo decoding. See Note 1
14.2.51.1	Conversational / unknown / UL:64 DL:64 kbps / CS RAB / 20 ms TTI + Interactive or background / UL:64 DL:64 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH	C78	UE supporting Simultaneous CS and PS bearer services; and Conversational traffic class; and Interactive or Background traffic class; and DL 384 kbps class or higher; and UL 384 kbps class or higher; and Turbo decoding. See Note 1
14.2.51.2	Conversational / unknown / UL:64 DL:64 kbps / CS RAB / 40 ms TTI + Interactive or background / UL:64 DL:64 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH	C78	UE supporting Simultaneous CS and PS bearer services; and Conversational traffic class; and Interactive or Background traffic class; and DL 384 kbps class or higher; and UL 384 kbps class or higher; and Turbo decoding. See Note 1
14.2.52.1	Conversational / unknown / UL:64 DL:64 kbps / CS RAB / 20 ms TTI + Interactive or background / UL:64 DL:128 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH	C78	UE supporting Simultaneous CS and PS bearer services; and Conversational traffic class; and Interactive or Background traffic class; and DL 384 kbps class or higher; and UL 384 kbps class or higher; and Turbo decoding. See Note 1
14.2.52.2	Conversational / unknown / UL:64 DL:64 kbps / CS RAB / 40 ms TTI + Interactive or background / UL:64 DL:128 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH	C78	UE supporting Simultaneous CS and PS bearer services; and Conversational traffic class; and Interactive or Background traffic class; and DL 384 kbps class or higher; and UL 384 kbps class or higher; and Turbo decoding. See Note 1
14.2.53.1	Conversational / unknown / UL:64 DL:64 kbps / CS RAB / 20 ms TTI + Interactive or background / UL:128 DL:128 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH	C78	UE supporting Simultaneous CS and PS bearer services; and Conversational traffic class; and Interactive or Background traffic class; and DL 384 kbps class or higher; and UL 384 kbps class or higher; and Turbo decoding. See Note 1
14.2.53.2	Conversational / unknown / UL:64 DL:64 kbps / CS RAB / 40 ms TTI + Interactive or background / UL:128 DL:128 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH	C78	UE supporting Simultaneous CS and PS bearer services; and Conversational traffic class; and Interactive or Background traffic class; and DL 384 kbps class or higher; and UL 384 kbps class or higher; and Turbo decoding.

Clause	Title	Applicability	Comments
			See Note 1
14.2.54	Interactive or background / UL:64 DL:128 kbps / PS RAB + Streaming / unknown / UL:0 DL:64 kbps / CS or PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH	C79	UE supporting PS bearer services; and Streaming traffic class; and Interactive or Background traffic class; and DL 384 kbps class or higher; and UL 64 kbps class or higher; and Turbo decoding. See Note 1
14.2.55	Interactive or background / UL:64 DL:128 kbps / PS RAB + Streaming / unknown / UL:0 DL:128 kbps / CS or PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH	C80	UE supporting PS bearer services; and Streaming traffic class; and Interactive or Background traffic class; and DL 768 kbps class or higher; and UL 64 kbps class or higher; and Turbo decoding. See Note 1
	Combinations on PDSCH and DPCH		
14.3.1.1	Interactive or background / UL:64 DL:256 kbps / PS RAB / 10 ms TTI + UL:3.4 DL: 3.4 kbps SRBs for DCCH	C81	UE supporting PS bearer services; and Interactive or Background traffic class; and DL 768 kbps class or higher; and UL 64 kbps class or higher; and PDSCH; and Turbo decoding. Alternatively to DL 768 kbps class the test case may be applicable to DL 384 kbps class. See Note 1
14.3.1.2	Interactive or background / UL:64 DL:256 kbps / PS RAB / 20 ms TTI + UL:3.4 DL: 3.4 kbps SRBs for DCCH	C81	UE supporting PS bearer services; and Interactive or Background traffic class; and DL 768 kbps class or higher; and UL 64 kbps class or higher; and PDSCH; and Turbo decoding. Alternatively to DL 768 kbps class the test case may be applicable to DL 384 kbps class. See Note 1
14.3.2.1	Interactive or background / UL:64 DL:384 kbps / PS RAB / 10 ms TTI + UL:3.4 DL: 3.4 kbps SRBs for DCCH	C81	UE supporting PS bearer services; and Interactive or Background traffic class; and DL 768 kbps class or higher; and UL 64 kbps class or higher; and PDSCH; and Turbo decoding. Alternatively to DL 768 kbps class the test case may be applicable to DL 384 kbps class. See Note 1
14.3.2.2	Interactive or background / UL:64 DL:384 kbps / PS RAB / 20 ms TTI + UL:3.4 DL: 3.4 kbps SRBs for DCCH	C81	UE supporting PS bearer services; and Interactive or Background traffic class; and DL 768 kbps class or higher; and UL 64 kbps class or higher; and PDSCH; and Turbo decoding. Alternatively to DL 768 kbps class the

Clause	Title	Applicability	Comments
			test case may be applicable to DL 384 kbps class. See Note 1
14.3.3.1	Interactive or background / UL:64 DL:2048 kbps / PS RAB / 10 ms TTI + UL:3.4 DL: 3.4 kbps SRBs for DCCH	C87	UE supporting PS bearer services; and Interactive or Background traffic class; and DL 2048 kbps class; and UL 64 kbps class or higher; and PDSCH; and Turbo decoding; and UE test loop UL RLC SDU size upto 65535 bits. See Note 1
14.3.3.2	Interactive or background / UL:64 DL:2048 kbps / PS RAB / 20 ms TTI + UL:3.4 DL: 3.4 kbps SRBs for DCCH	C87	UE supporting PS bearer services; and Interactive or Background traffic class; and DL 2048 kbps class; and UL 64 kbps class or higher; and PDSCH; and Turbo decoding. See Note 1
14.3.4	Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:64 DL:256 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH	C82	UE supporting Narrow band speech (AMR); and Simultaneous CS and PS bearer services; and Conversational traffic class; and Interactive or Background traffic class; and DL 768 kbps class or higher; and UL 64 kbps class or higher; and PDSCH; and Turbo decoding. Alternatively to DL 768 kbps class the test case may be applicable to DL 384 kbps class. See Note 1
14.3.5	Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:64 DL:384 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH	C82	UE supporting Narrow band speech (AMR); and Simultaneous CS and PS bearer services; and Conversational traffic class; and Interactive or Background traffic class; and DL 768 kbps class or higher; and UL 64 kbps class or higher; and PDSCH; and Turbo decoding. Alternatively to DL 768 kbps class the test case may be applicable to DL 384 kbps class. See Note 1
14.3.6	Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:64 DL:2048 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH	C83	UE supporting Narrow band speech (AMR); and Simultaneous CS and PS bearer services; and Conversational traffic class; and Interactive or Background traffic class; and DL 2048 kbps class; and UL 64 kbps class or higher; and PDSCH; and Turbo decoding; and Max UE test loop UL RLC SDU size 65535 bits.

Clause	Title	Applicability	Comments
			See Note 1
	Combinations on SCCPCH		
14.4.1	Stand-alone signalling RB for PCCH	C84	UE supporting DL 32 kbps class or higher. See Note 1
14.4.2	Interactive/Background 32 kbps PS RAB + SRBs for CCCH + SRB for DCCH + SRB for BCCH	C85	UE supporting PS bearer services; and Interactive or Background traffic class; and DL 32 kbps class or higher; and Turbo decoding. See Note 1
14.4.3	Interactive/Background 32 kbps RAB + SRBs for PCCH + SRB for CCCH + SRB for DCCH + SRB for BCCH	C85	UE supporting PS bearer services; and Interactive or Background traffic class; and DL 32 kbps class or higher; and Turbo decoding. See Note 1
	Combinations on PRACH		
14.5.1	Interactive/Background 32 kbps PS RAB + SRB for CCCH + SRB for DCCH	C86	UE supporting PS bearer services; and Interactive or Background traffic class; and UL 32 kbps class or higher; and Turbo decoding. See Note 1
SMS			
16.1.1	SMS on CS mode / SMS mobile terminated	C18	UE capable of receiving Short Message at any time on CS mode.
16.1.2	SMS on CS mode / SMS mobile originated	C20	UE capable of submitting Short Message at any time on CS mode.
16.1.3	SMS on CS mode / Test of memory full condition and memory available notification	C21	UE capable of sending the correct acknowledgement of memory full condition on CS mode.
16.1.4	SMS on CS mode / Test of the status report capabilities and of SMS-COMMAND	C22	UEs supporting the status report capabilities on CS mode.
16.1.5.1	SMS on CS mode / Short message class 0	C23	UE capable of displaying short messages on CS mode
16.1.5.2	SMS on CS mode / Test of class 1 short messages	C24	UE capable of displaying short messages and storing of received Class 1 Short Messages on CS mode
16.1.5.3	SMS on CS mode / Test of class 2 short messages	C25	UE capable of displaying short messages and storing of received Class 2 Short Messages in the SIM on CS mode.
16.1.5.4	SMS on CS mode / Test of class 3 short messages	[FFS]	[FFS]
16.1.6	SMS on CS mode / Test of short message type 0 (???)	[FFS]	[FFS]
16.1.7	SMS on CS mode / Test of the replace mechanism for SM type 1-7	C33	UEs which support Replace Short Messages and display of received Short Messages on CS mode.
16.1.8	SMS on CS mode / Test of the reply path scheme	C34	UEs which support reply procedures (the class of UEs for which this is mandatory is described in TS 23.040, annex 4) displaying of received Short Messages and submitting Short Messages on CS mode.
16.1.9.1	SMS on CS mode / Multiple SMS mobile originated / UE in idle mode	C35	UE supporting the ability of sending multiple short messages on the same RR connection when there is no call in progress on CS mode.
16.1.9.2	SMS on CS mode / Multiple SMS mobile originated / UE in active mode	C36	UE supporting the ability of sending concatenated multiple short messages when there is a call in progress on CS mode.

Clause	Title	Applicability	Comments
16.1.10	SMS on CS mode / Test of capabilities of simultaneously receiving a short message whilst sending a mobile originated short message	C101	UE capable of receiving Short Message whilst sending Short Message on CS mode.
16.2.1	SMS on PS mode / SMS mobile terminated	C26	UE capable of receiving Short Message at any time on PS mode.
16.2.2	SMS on PS mode / SMS mobile originated	C27	UE capable of submitting Short Message at any time on PS mode.
16.2.3	SMS on PS mode / Test of memory full condition and memory available notification	C28	UE capable of sending the correct acknowledgement of memory full condition in PS mode.
16.2.4	SMS on PS mode / Test of the status report capabilities and of SMS-COMMAND	C29	UEs supporting the status report capabilities in PS mode.
16.2.5.1	Short message class 0	C30	UE capable of displaying short messages in PS mode
16.2.5.2	SMS on PS mode / Test of class 1 short messages	C31	UE capable of displaying short messages and storing of received Class 1 Short Messages in PS mode
16.2.5.3	SMS on PS mode / Test of class 2 short messages	C32	UE capable of displaying short messages and storing of received Class 2 Short Messages in the SIM in PS mode.
16.2.5.4	SMS on PS mode / Test of class 3 short messages	[FFS]	[FFS]
16.2.6	SMS on PS mode / Test of short message type 0 (???)	[FFS]	[FFS]
16.2.7	SMS on PS mode / Test of the replace mechanism for SM type 1-7	C37	UEs which support Replace Short Messages and display of received Short Messages in PS mode.
16.2.8	SMS on PS mode / Test of the reply path scheme	C38	UEs which support reply procedures (the class of UEs for which this is mandatory is described in TS 23.040, annex 4) displaying of received Short Messages and submitting Short Messages in PS mode.
16.2.10	SMS on PS mode / Test of capabilities of simultaneously receiving a short message whilst sending a mobile originated short message	C102	UE capable of receiving Short Message whilst sending Short Message on PS mode.
16.3	Short message service cell broadcast	R	All UEs.
USER EQUIPMENT FEATURES			
17.1.2	Constraining the access to a single number	C93	All UEs supporting autocalling
17.1.3	Constraining the access to a single number	C93	All UEs supporting autocalling
17.1.4	Behaviour of the MS when its list of blacklisted numbers is full	C94	UEs that are capable of autocalling more than M B-party numbers.

C01 IF A.1/1 OR A.1/3 OR A.1/4 OR A.1/6 THEN R ELSE N/A
C02 IF A.1/2 OR A.1/3 OR A.1/5 OR A.1/6 THEN R ELSE N/A
C03 IF A.1/3 OR A.1/6 THEN R ELSE N/A
C04 IF (A.1/1 OR A.1/3 OR A.1/4 OR A.1/6) AND A.2/2 THEN R ELSE N/A
C05 IF A.1/4 OR A.1/6 THEN R ELSE N/A
C06 IF (A.1/1 OR A.1/3 OR A.1/4 OR A.1/6) AND A.3/2 THEN R ELSE N/A
C07 IF (A.1/1 OR A.1/3 OR A.1/4 OR A.1/6) AND A.20/27 THEN R ELSE N/A
C08 IF (A.1/1 OR A.1/3 OR A.1/4 OR A.1/6) AND A.20/28 THEN R ELSE N/A
C09 IF (A.1/1 OR A.1/3 OR A.1/4 OR A.1/6) AND NOT A.20/3 THEN R ELSE N/A
C10 IF A.20/4 THEN R ELSE N/A
C11 IF A.20/5 THEN R ELSE N/A
C12 IF A.3/2 THEN R ELSE N/A
C13 IF A.2/1 OR A.2/2 OR A.10/2 THEN R ELSE N/A
C14 IF A.20/4 OR A.20/5 THEN R ELSE N/A
C15 IF A.10/2 THEN R ELSE N/A
C16 IF A.20/1 THEN R ELSE N/A
C17 IF A.3/3 AND A.20/7 THEN R ELSE N/A
C18 IF A.2/3 THEN R ELSE N/A
C19 IF A.1/1 THEN R ELSE N/A
C20 IF A.2/4 THEN R ELSE N/A
C21 IF A.20/8 AND A.3/1 THEN R ELSE N/A
C22 IF A.20/9 AND A.3/1 THEN R ELSE N/A
C23 IF A.3/1 THEN R ELSE N/A
C24 IF A.20/11 AND A.3/1 THEN R ELSE N/A
C25 IF A.20/12 AND A.3/1 THEN R ELSE N/A
C26 IF A.2/5 THEN R ELSE N/A
C27 IF A.2/6 THEN R ELSE N/A
C28 IF A.20/8 AND A.3/2 THEN R ELSE N/A
C29 IF A.20/9 AND A.3/2 THEN R ELSE N/A
C30 A.3/2 THEN R ELSE N/A
C31 IF A.20/11 AND A.3/2 THEN R ELSE N/A
C32 IF A.20/12 AND A.3/2 THEN R ELSE N/A
C33 IF A.20/13 AND A.3/1 THEN R ELSE N/A
C34 IF A.20/14 AND A.2/4 AND A.3/1 THEN R ELSE N/A
C35 IF A.20/15 AND A.3/1 THEN R ELSE N/A
C36 IF A.20/16 AND A.3/1 THEN R ELSE N/A
C37 IF A.20/13 AND A.3/2 THEN R ELSE N/A
C38 IF A.20/14 AND A.2/6 THEN R ELSE N/A
C39 IF A.20/15 AND A.3/2 THEN R ELSE N/A
C40 IF A.20/16 AND A.3/2 THEN R ELSE N/A
C41 IF (NOT A.20/17) AND (NOT A.20/6) AND A.20/5 THEN R ELSE N/A
C42 IF A.17/1 AND A.18/1 AND A.18b/3 THEN R ELSE N/A
C43 IF A.2/1 AND A.3/1 AND A.6/1 AND A.17/1 AND A.18/1 THEN R ELSE N/A
C44 IF A.3/1 AND A.6/1 AND A.17/2 AND A.18/2 THEN R ELSE N/A
C45 IF A.3/1 AND A.6/2 AND A.17/2 AND A.18/2 THEN R ELSE N/A
C46 IF (A.3/1 OR A.3/2) AND A.6/2 AND A.17/2 AND A.18/1 THEN R ELSE N/A
C47 IF (A.3/1 OR A.3/2) AND A.6/2 AND A.17/1 AND A.18/2 THEN R ELSE N/A
C48 IF (A.3/1 OR A.3/2) AND A.6/2 AND A.17/4 AND A.18/1 THEN R ELSE N/A
C49 IF (A.3/1 OR A.3/2) AND A.6/2 AND A.17/1 AND A.18/4 THEN R ELSE N/A
C50 IF (A.3/1 OR A.3/2) AND A.6/2 AND A.17/6 AND A.18/1 THEN R ELSE N/A
C51 IF A.3/2 AND (A.6/3 OR A.6/4) AND A.17/1 AND A.18/1 THEN R ELSE N/A
C52 IF A.3/2 AND (A.6/3 OR A.6/4) AND A.17/1 AND A.18/2 THEN R ELSE N/A
C53 IF A.3/2 AND (A.6/3 OR A.6/4) AND A.17/2 AND A.18/1 AND A.18b/1 THEN R ELSE N/A
C54 IF A.3/2 AND (A.6/3 OR A.6/4) AND A.17/2 AND A.18/2 THEN R ELSE N/A
C55 IF A.3/2 AND (A.6/3 OR A.6/4) AND A.17/3 AND A.18/2 THEN R ELSE N/A
C56 IF A.3/2 AND (A.6/3 OR A.6/4) AND A.17/3 AND A.18/3 THEN R ELSE N/A
C57 IF A.3/2 AND (A.6/3 OR A.6/4) AND A.17/4 AND A.18/2 THEN R ELSE N/A
C58 IF A.3/2 AND (A.6/3 OR A.6/4) AND A.17/4 AND A.18/3 THEN R ELSE N/A
C59 IF A.3/2 AND (A.6/3 OR A.6/4) AND A.17/4 AND A.18/4 THEN R ELSE N/A
C60 IF A.3/2 AND (A.6/3 OR A.6/4) AND A.17/5 AND A.18/2 THEN R ELSE N/A
C61 IF A.3/2 AND (A.6/3 OR A.6/4) AND A.17/5 AND A.18/3 THEN R ELSE N/A
C62 IF A.3/2 AND (A.6/3 OR A.6/4) AND A.17/5 AND A.18/5 THEN R ELSE N/A
C63 IF A.3/2 AND (A.6/3 OR A.6/4) AND A.17/6 AND A.18/2 AND A.13/2 THEN R ELSE N/A
C64 IF A.3/2 AND (A.6/3 OR A.6/4) AND A.17/6 AND A.18/3 AND A.13/2 THEN R ELSE N/A
C65 IF A.3/2 AND (A.6/3 OR A.6/4) AND A.17/6 AND A.18/4 AND A.13/2 THEN R ELSE N/A
C66 IF A.3/2 AND (A.6/3 OR A.6/4) AND A.17/6 AND A.18/5 AND A.13/2 THEN R ELSE N/A
C67 IF A.2/1 AND A.3/3 AND A.6/1 AND (A.6/3 OR A.6/4) AND A.17/2 AND A.18/2 AND A.18b/1 THEN R ELSE N/A
C68 IF A.2/1 AND A.3/3 AND A.6/1 AND (A.6/3 OR A.6/4) AND A.17/3 AND A.18/2 THEN R ELSE N/A

C69 IF A.2/1 AND A.3/3 AND A.6/1 AND (A.6/3 OR A.6/4) AND A.17/4 AND A.18/2 THEN R ELSE N/A
C70 IF A.2/1 AND A.3/3 AND A.6/1 AND (A.6/3 OR A.6/4) AND A.17/5 AND A.18/2 THEN R ELSE N/A
C71 IF A.2/1 AND A.3/3 AND A.6/1 AND (A.6/3 OR A.6/4) AND A.17/6 AND A.18/3 AND A.13/2 THEN R ELSE N/A
C72 IF A.7/28 AND A.2/1 AND A.3/1 AND A.6/1 AND A.6/2 AND A.17/2 AND A.18/2 THEN R ELSE N/A
C73 IF A.2/1 AND ((A.3/1 AND A.7/28) OR A.3/3) AND A.6/1 AND A.6/2 AND A.17/2 AND A.18/1 THEN R ELSE N/A
C74 IF A.2/1 AND A.3/1 AND A.7/28 AND A.6/1 AND A.6/2 AND A.17/3 AND A.18/1 THEN R ELSE N/A
C75 IF A.2/1 AND A.3/1 AND A.7/28 AND A.6/1 AND A.6/2 AND A.17/6 AND A.18/1 THEN R ELSE N/A
C76 IF A.7/28 AND A.2/1 AND A.3/1 AND A.6/1 AND A.17/2 AND A.18/2 THEN R ELSE N/A
C77 IF A.7/28 AND A.3/1 AND A.6/1 AND A.17/4 AND A.18/4 THEN R ELSE N/A
C78 IF A.3/3 AND A.6/1 AND (A.6/3 OR A.6/4) AND A.17/4 AND A.18/4 THEN R ELSE N/A
C79 IF (A.3/2 OR A.3/3) AND A.6/2 AND (A.6/3 OR A.6/4) AND A.17/4 AND A.18/2 THEN R ELSE N/A
C80 IF A.3/2 AND A.6/2 AND (A.6/3 OR A.6/4) AND A.17/5 AND A.18/2 THEN R ELSE N/A
C81 IF A.3/2 AND (A.6/3 OR A.6/4) AND A.17/5 AND A.18/2 AND A.18b/4 THEN R ELSE N/A

Alternatively to DL 768 kbps class the test case may be applicable to DL 384 kbps class, then:
IF A.3/2 AND (A.6/3 OR A.6/4) AND A.17/4 AND A.18/2 AND A.18b/4 AND THEN E ELSE N/A

C82 IF A.3/3 AND (A.6/3 OR A.6/4) AND A.17/5 AND A.18/2 AND A.18b/4 THEN R ELSE N/A

Alternatively to DL 768 kbps class the test case may be applicable to DL 384 kbps class, then:
IF A.2/1 AND A.3/3 AND A.6/1 AND (A.6/3 OR A.6/4) AND A.17/4 AND A.18/2 AND A.18b/4 THEN R ELSE N/A

C83 IF A.2/1 AND A.3/3 AND A.6/1 AND (A.6/3 OR A.6/4) AND A.17/6 AND A.18/2 AND A.18b/4 AND A.13/2 THEN R ELSE N/A
C84 IF A.17/1 THEN R ELSE N/A
C85 IF A.3/2 AND (A.6/3 OR A.6/4) AND A.17/1 THEN R ELSE N/A
C86 IF A.3/2 AND (A.6/3 OR A.6/4) AND A.18/1 THEN R ELSE N/A
C87 IF A.3/2 AND (A.6/3 OR A.6/4) AND A.17/6 AND A.18/2 AND A.18b/4 AND A.13/2 THEN R ELSE N/A
C88 IF A.3/3 THEN R ELSE N/A.
C89 IF (A.3/1 OR A.3/2) AND A.6/2 AND A.17/6 AND A.18/1 AND A.18b/1 AND A.18b/2 THEN R ELSE N/A
C90 IF A.3/2 AND (A.6/3 OR A.6/4) AND A.17/2 AND A.18/1 AND A.18b/1 AND A.18b/2 THEN R ELSE N/A
C91 IF A.3/2 AND (A.6/3 OR A.6/4) AND A.17/6 AND A.18/5 AND A.18b/1 AND A.18b/2 THEN R ELSE N/A
C92 IF A.2/1 AND A.3/3 AND A.6/1 AND (A.6/3 OR A.6/4) AND A.17/2 AND A.18/2 AND A.18b/1 AND A.18b/2 THEN R ELSE N/A
C93 IF A.20/29 THEN R ELSE N/A
C94 IF A.20/29 AND A.20/30 THEN R ELSE N/A
C95 IF (A.1/4 OR A.1/6) AND (A.2/1 OR A.2/2) THEN R ELSE N/A
C96 IF A.2/2 THEN R ELSE N/A
C97 IF (A.1/4 OR A.1/6) AND A.3/1 AND (A.4/1 OR A.4/2 OR A.4/3 OR A.4/4 OR A.4/5 OR A.4/6 OR A.4/7 OR A.4/8 OR A.4/9 OR A.4/10 OR A.4/11 OR A.4/12 OR A.4/13 OR A.4/14 OR A.4/15 OR A.4/16 OR A.4/17 OR A.4/18 OR A.4/19 OR A.4/20 OR A.4/21 OR A.4/22 OR A.4/23 OR A.4/24 OR A.4/25 OR A.4/26 OR A.4/27 OR A.4/28) THEN R ELSE N/A
C98 IF A.3/1 OR A.3/3 THEN R ELSE N/A.
C99 IF (A.3/1 OR A.3/3) AND A.20/36 THEN R ELSE N/A.
C100 IF (A.3/1 OR A.3/3) AND A.7/30 THEN R ELSE N/A.
C101 IF A.2/3 AND A.2/4 THEN R ELSE N/A
C102 IF A.2/5 AND A.2/6 THEN R ELSE N/A
C103 IF A.3/3 AND (NOT A.20/38) THEN R ELSE N/A
C104 IF A.20/37 AND (A.1/1 OR A.1/3 OR A.1/4 OR A.1/6) THEN R ELSE N/A
C105 IF A.20/37 AND (A.1/4 OR A.1/6) THEN R ELSE N/A
C106 IF (A.1/1 OR A.1/3 OR A.1/4 OR A.1/6) AND A.2/1 AND A.2/2 THEN R ELSE N/A

Note 1. See [34a] TS 25.306 for definition of UE radio access reference combinations in uplink and downlink (UL xx kbps/DL xx kbps classes). See Annex B for mapping between reference radio bearer combinations and UE radio access reference combinations in uplink and downlink.

Annex A (normative):
~~ICS proforma for 3rd Generation User Equipment~~(void)

~~Notwithstanding the provisions of the copyright clause related to the text of the present document, 3GPP grants that users of the present document may freely reproduce the ICS proforma in this annex so that it can be used for its intended purposes and may further publish the completed ICS.~~

~~A.1 Guidance for completing the ICS proforma~~

~~A.1.1 Purposes and structure~~

~~The purpose of this ICS proforma is to provide a mechanism whereby a supplier of an implementation of the requirements defined in relevant specifications may provide information about the implementation in a standardised manner.~~

~~The ICS proforma is subdivided into subclauses for the following categories of information:~~

- ~~instructions for completing the ICS proforma;~~
- ~~identification of the implementation;~~
- ~~identification of the protocol;~~
- ~~ICS proforma tables (for example: UE implementation types, Teleservices, etc);~~

~~A.1.2 Abbreviations and conventions~~

~~The ICS proforma contained in this annex is comprised of information in tabular form in accordance with the guidelines presented in ISO/IEC 9646-7.~~

~~Item column~~

~~The item column contains a number which identifies the item in the table.~~

~~Item description column~~

~~The item description column describes in free text each respective item (e.g. parameters, timers, etc.). It implicitly means "is <item description> supported by the implementation?".~~

~~Reference column~~

~~The reference column gives reference to the relevant 3GPP core specifications.~~

~~Comments column~~

~~This column is left blank for particular use by the reader of this specification.~~

~~References to items~~

~~For each possible item answer (answer in the support column) within the ICS proforma there exists a unique reference, used, for example, in the conditional expressions. It is defined as the table identifier, followed by a solidus character "/", followed by the item number in the table. If there is more than one support column in a table, the columns shall be discriminated by letters (a, b, etc.), respectively.~~

~~EXAMPLE 1: A.5/4 is the reference to the answer of item 4 in table A.5.~~

EXAMPLE 2: A.6/3b is the reference to the second answer (i.e. in the second support column) of item 3 in table A.6.

A.1.3 Instructions for completing the ICS proforma

The supplier of the implementation may complete the ICS proforma in each of the spaces provided. More detailed instructions are given at the beginning of the different subclauses of the ICS proforma.

A.2 Identification of the User Equipment

Identification of the User Equipment should be filled in so as to provide as much detail as possible regarding version numbers and configuration options.

The product supplier information and client information should both be filled in if they are different.

A person who can answer queries regarding information supplied in the ICS should be named as the contact person.

A.2.1 Date of the statement

.....

A.2.2 User Equipment Under Test (UEUT) identification

UEUT name:

.....

.....

Hardware configuration:

.....

.....

.....

Software configuration:

.....

.....

.....

A.2.3 Product supplier

Name:

.....

Address:

.....

.....

.....

Telephone number:

.....

Facsimile number:

.....

E-mail address:

.....

Additional information:

.....

.....

.....

A.2.4 Client

Name:

.....

Address:

.....

.....

.....

Telephone number:

.....

Facsimile number:

.....

E-mail address:

.....

Additional information:

.....

.....

A.2.5 ICS contact person

Name:

Telephone number:

Facsimile number:

E-mail address:

Additional information:

A.3 Identification of the protocol

This ICS proforma applies to the 3GPP standards listed in the normative references clause of the present document.

A.4 ICS proforma tables

A.4.1 UE Implementation Types

Table A.1: UE Implementation Types

Item	UE Implementation Types	Ref.	Comments
1	Single-mode FDD (DS)	21.904, 5	
2	Single-mode TDD	21.904, 5	
3	Dual-mode FDD (DS)/TDD	21.904, 5	
4	Dual-mode FDD (DS)/GSM	21.904, 5	
5	Dual-mode TDD/GSM	21.904, 5	
6	Tri-mode FDD(DS)/TDD/GSM	21.904, 5	

A.4.2 UE Service Capabilities

A.4.2.1 3GPP Standardised UE Service Capabilities

A.4.2.1.1 Teleservices

Table A.2: Teleservices

Item	Teleservices	Ref.	Comments
1	Narrow band speech (AMR)	22.105, 6.4.1	
2	Emergency speech call	22.105, 6.4.2	
3	Short Message Service (SMS) MT over CS	22.105, 6.4.3 22.003, A.1.3.1	
4	Short Message Service (SMS) MO over CS	22.105, 6.4.3 22.003, A.1.3.2	
5	Short Message Service (SMS) MT over PS	22.105, 6.4.3 22.003, A.1.3.1	
6	Short Message Service (SMS) MO over PS	22.105, 6.4.3 22.003, A.1.3.2	
7	Cell Broadcast Service (CBS)	22.105, 6.4.4	

A.4.2.1.2 Bearer Services

Table A.3: Definition of Bearer Services

Item	Definition of Bearer Services	Ref.	Comments
1	Circuit Switched	22.105, 5.1 22.002	
2	Packet Switched	22.105, 5.1 22.060	
3	UE supports UE operation mode A: PS and CS simultaneously		

Table A.4: Asynchronous General Bearer Services

Item	Asynchronous General Bearer Services	Ref.	Comments
1	3.1 kHz Audio 9600 bit/s	22.002, 3.1.1	
2	3.1 kHz Audio 14400 bit/s	22.002, 3.1.1	
3	3.1 kHz Audio 19200 bit/s	22.002, 3.1.1	
4	3.1 kHz Audio 28800 bit/s	22.002, 3.1.1	
5	3.1 KhZ Audio Modem AutoBauding1	22.002, 3.1.1	
6	V.110 UDI 9600 bit/s	22.002, 3.1.2	
7	V.110 UDI 14400 bit/s	22.002, 3.1.2	
8	V.110 UDI 19200 bit/s	22.002, 3.1.2	
9	V.110 UDI 28800 bit/s	22.002, 3.1.2	
10	V.110 UDI 38400 bit/s	22.002, 3.1.2	
11	V.120 9600 bit/s	22.002, 3.1.4	
12	V.120 14400 bit/s	22.002, 3.1.4	
13	V.120 19200 bit/s	22.002, 3.1.4	
14	V.120 28800 bit/s	22.002, 3.1.4	
15	V.120 38400 bit/s	22.002, 3.1.4	
16	V.120 48000 bit/s	22.002, 3.1.4	
17	V.120 56000 bit/s	22.002, 3.1.4	
18	PIAFS 32000 bit/s	22.002, 3.1.6	
19	PIAFS 64000 bit/s	22.002, 3.1.6	
20	Frame Tunnelling Mode 56000 bit/s	22.002, 3.1.7	
21	Frame Tunnelling Mode 64000 bit/s	22.002, 3.1.7	
Note: The rates in the table refer to FNUR (Fixed Network User Rate).			

Table A.5: Synchronous General Bearer Services

Item	Synchronous General Bearer Services	Ref.	Comments
1	3.1 kHz Audio 9600 bit/s	22.002, 3.1.1	
2	3.1 kHz Audio 14400 bit/s	22.002, 3.1.1	
3	3.1 kHz Audio 19200 bit/s	22.002, 3.1.1	
4	3.1 kHz Audio 28800 bit/s	22.002, 3.1.1	
5	V.110 UDI 28800 bit/s	22.002, 3.1.2	
6	V.110 UDI 48000 bit/s	22.002, 3.1.2	
7	V.110 UDI 56000 bit/s	22.002, 3.1.2	
8	X.31 Flag Stuffing UDI 9600 bit/s	22.002, 3.1.3	
9	X.31 Flag Stuffing UDI 14400 bit/s	22.002, 3.1.3	
10	X.31 Flag Stuffing UDI 19200 bit/s	22.002, 3.1.3	
11	X.31 Flag Stuffing UDI 28800 bit/s	22.002, 3.1.3	
12	X.31 Flag Stuffing UDI 38400 bit/s	22.002, 3.1.3	
13	X.31 Flag Stuffing UDI 48000 bit/s	22.002, 3.1.3	
14	X.31 Flag Stuffing UDI 56000 bit/s	22.002, 3.1.3	
15	V.120 9600 bit/s	22.002, 3.1.4	
16	V.120 14400 bit/s	22.002, 3.1.4	
17	V.120 19200 bit/s	22.002, 3.1.4	
18	V.120 28800 bit/s	22.002, 3.1.4	
19	V.120 38400 bit/s	22.002, 3.1.4	
20	V.120 48000 bit/s	22.002, 3.1.4	
21	V.120 56000 bit/s	22.002, 3.1.4	
22	Bit Transparent mode 56000 bit/s	22.002, 3.1.5	
23	Bit Transparent mode 64000 bit/s	22.002, 3.1.5	
24	Multimedia Call 28800 bit/s	22.002, 3.1.8	
25	Multimedia Call 32000 bit/s	22.002, 3.1.8	
26	Multimedia Call 33600 bit/s	22.002, 3.1.8	
27	Multimedia Call 56000 bit/s	22.002, 3.1.8	
28	Multimedia Call 64000 bit/s	22.002, 3.1.8	
Note: The rates in the table refer to FNUR (Fixed Network User Rate).			

Table A.6: QoS classes or traffic classes

Item	QoS classes or traffic classes	Ref.	Comments
1	Conversational	23.107, 6.3.1, 6.5.1	
2	Streaming	23.107, 6.3.2, 6.5.1	
3	Interactive	23.107, 6.3.3, 6.5.1	
4	Background	23.107, 6.3.4, 6.5.1	

A.4.2.1.3 Supplementary Services

Table A.7: Supplementary Services

Item	Supplementary services	Ref.	Comments
1	Call Deflection	22.072; 22.004, 4	
2	Calling Line Identification Presentation	22.081, 1; 22.004, 4	
3	Calling Line Identification Restriction	22.081, 2; 22.004, 4	
4	Connected Line Identification Presentation	22.081, 3; 22.004, 4	
5	Connected Line Identification Restriction	22.081, 4; 22.004, 4	
6	Call Forwarding Unconditional	22.082, 1; 22.004, 4	
7	Call Forwarding on Mobile Subscriber Busy	22.082, 2; 22.004, 4	
8	Call Forwarding on No Reply	22.082, 3; 22.004, 4	
9	Call Forwarding on Mobile Subscriber Not Reachable	22.082, 4; 22.004, 4	
10	Call Waiting	22.083, 1; 22.004, 4	
11	Call Hold	22.083, 2 22.004, 4	
12	Multi Party Service	22.084; 22.004, 4	
13	Closed User Group	22.085; 22.004, 4	
14	User-to-user signalling	22.087; 22.004, 4	
15	Advice of Charge (Information)	22.086, 1; 22.004, 4	
16	Advice of Charge (Charging)	22.086, 2; 22.004, 4	
17	Barring of All Outgoing Calls	22.088, 1; 22.004, 4	
18	Barring of Outgoing International Calls	22.088, 1; 22.004, 4	
19	Barring of Outgoing International Calls except those directed to the Home PLMN Country	22.088, 1; 22.004, 4	
20	Barring of All Incoming Calls	22.088, 2; 22.004, 4	
21	Barring of Incoming Calls when Roaming Outside the Home PLMN Country	22.088, 2; 22.004, 4	
22	Explicit call transfer	22.091; 22.004, 4	
23	Call Completion to Busy Subscriber	22.093; 22.004, 4	
24	Call Completion to Busy Subscriber Request	22.093; 22.004, 4	
25	Follow Me	22.094	
26	Calling name presentation (CNAP)	22.096; 22.004, 4	
27	Multiple Subscriber Profile (MSP)	22.097; 22.004, A	
28	Multicall	22.135; 22.004, 4	
29	enhanced Multi-Level Precedence and Pre-emption	22.067; 22.004, 4	
30	At least one non-call related Supplementary Service supported		
Note: Test cases for these features will not be include in R99 of TS 34.123-1.			

A.4.2.1.4 Service Capabilities

Table A.8: Service Capabilities

Item	Services Capabilities	Ref.	Comments
1	Mobile station Execution Environment (MExE)	22.057	
2	Location Service (LCS)	22.071	
3	USIM Application Toolkit (USAT)	31.111	
Note: Test cases for these features will not be include in R99 of TS 34.123-1.			

A.4.2.1.5 GSM System Features

Table A.9: GSM System Features

Item	GSM System Features	Ref.	Comments
1	Network Identity and Time Zone (NITZ)	22.042	
2	Unstructured Supplementary Service Data (USSD)	22.090	
Note: Test cases for these features will not be include in R99 of TS 34.123-1.			

A.4.2.2 Other UE Service Capabilities

Table A.10: Other UE Service Capabilities

Item	Other UE Service Capabilities	Ref.	Comments
1	Multimedia services (3G-324M)	26.071, 26.110, 26.111, 26.112	
2	Alternate speech/facsimile group 3	22.003, A.1.4	
3	Automatic facsimile group 3	22.003, A.1.5	

A.4.3 Baseline Implementation Capabilities

Table A.11: Supported protocols

Item	Supported protocols	Ref.	Comments
1	Call Control	24.008, 5	
2	Mobility Management	24.008, 4	
3	Session Management	24.008, 6.1	
4	GPRS Mobility Management	24.008, 4	
5	Radio Resource Control	25.331	
6	Packet Data Convergence Protocol	25.323	
7	Broadcast/Multicast Control	25.324	
8	Radio Link Control	25.322	
9	Medium Access Control	25.321	
10	Physical Layer	25.201	

A.4.3.1 Baseline Implementation Capabilities to facilitate Conformance testing

Table A.12: Reference Measurement Channels

Item	Reference Measurement Channels	Ref.	Comments
1	Up-link reference measurement channel 12.2 kbps (FDD)	25.101 A.2.1	
2	Down-link reference measurement channel 12.2 kbps (FDD)	25.101 A.3.1	
3	Up-link reference measurement channel12.2 kbps (TDD)	25.102 A.2.1	
4	Down-link reference measurement channel 12.2 kbps (TDD)	25.102 A.2.2	

Table A.13: Special Conformance Testing Functions

Item	Special Conformance Testing Functions	Ref.	Comments
1	UE test loop	34.109, 5.3	
2	Max UE test loop UL RLC SDU size 65535 bits	34.109, 6.2	

Table A.14: Terminal Logical Test Interface

Item	Terminal Logical Test Interface	Ref.	Comments
1	Electrical Man Machine Interface (EMMI)	34.109, 8	
2	UICC/ME test interface	34.109, 9	

A.4.3.2 RF Baseline Implementation Capabilities

Table A.15: FDD (DS) RF Baseline Implementation Capabilities

Item	FDD (DS) RF Baseline Implementation Capabilities	Ref.	Comments
1	Chip rate 3.84 Mcps	25.101, 5.1	
2	Frequency band: 1920-1980, 2110-2170 MHz	25.101, 5.2	
3	Frequency band: 1850-1910, 1930-1990 MHz	25.101, 5.2	
4	Frequency band: Other spectrum	25.101, 5.2	
5	TX-RX Freq. Sep: 190 MHz	25.101, 5.3	
6	TX-RX Freq. Sep: 80 MHz	25.101, 5.3	
7	TX-RX Freq. Sep: Variable	25.101, 5.3	
8	Carrier raster: 200 kHz	25.101, 5.4	
9	UE Power Class 1 (+33 dBm)	25.101, 6.2.1	
10	UE Power Class 2 (+27 dBm)	25.101, 6.2.1	
11	UE Power Class 3 (+24 dBm)	25.101, 6.2.1	
12	UE Power Class 4 (+21 dBm)	25.101, 6.2.1	
13	Output RF spectrum emissions	25.101, 6.6	

Table A.16: TDD RF Baseline Implementation Capabilities

Item	TDD RF Baseline Implementation Capabilities	Ref.	Comments
1	Chip rate 3.84 Mcps	25.102, 5.1	
2	Frequency band: 1900-1920 MHz	25.102, 5.2	
3	Frequency band: 2010-2025 MHz	25.102, 5.2	
4	Frequency band: 1850-1910 MHz	25.102, 5.2	
5	Frequency band: 1930-1990 MHz	25.102, 5.2	
6	Frequency band: 1910-1930 MHz	25.102, 5.2	
7	Frequency band: Other spectrum	25.102, 5.2	
8	Carrier raster: 200 kHz	25.102, 5.4	
9	UE Power Class 2 (+24 dBm)	25.102, 6.2.1	
10	UE Power Class 3 (+21 dBm)	25.102, 6.2.1	
11	Output RF spectrum emissions	25.102, 6.6	

A.4.3.3 Physical Layer Baseline Implementation Capabilities

Table A.17: UE Radio Access Reference Combinations DL

Item	UE Radio Access Reference Combination DL	Ref.	Comments
1	DL 32 kbit class	25.306, 5	
2	DL 64 kbit class	25.306, 5	
3	DL 128 kbit class	25.306, 5	
4	DL 384 kbit class	25.306, 5	
5	DL 768 kbit class	25.306, 5	
6	DL 2048 kbit class	25.306, 5	

Table A.18: UE Radio Access Reference Combinations UL

Item	UE Radio Access Reference Combination UL	Ref.	Comments
1	UL 32 kbit class	25.306, 5	
2	UL 64 kbit class	25.306, 5	
3	UL 128 kbit class	25.306, 5	
4	UL 384 kbit class	25.306, 5	
5	UL 768 kbit class	25.306, 5	

Table A.18b: FDD Layer 1 UE Radio Access Capabilities

Item	FDD Layer 1 UE Radio Access Capabilities	Ref.	Comments
1	Support of turbo decoding	25.306, 4.5.1	
2	Support of turbo encoding	25.306, 4.5.2	
3	Support for SF 512 (downlink)	25.306, 4.5.3	
4	Support of PDSCH	25.306, 4.5.3	
5	Simultaneous reception of SCCPCH and DPCH	25.306, 4.5.3	
6	Simultaneous reception of SCCPCH, DPCH and PDSCH	25.306, 4.5.3	
7	Support of PCPCH	25.306, 4.5.4	

A.4.3.4 Layer 2/3 Baseline Implementation Capabilities (access stratum)

Table A.19: PDCP Parameters

Item	PDCP Parameters	Ref.	Comments
1	IP header compression algorithm	25.323, 5.1.2	
2	Lossless SRNS relocation	25.323, 5.4	
3	Multiplexing of multiple radio bearers [not R99]		
4	RLC in-sequence delivery	25.323, 5.4	
5	Establishment of more than one PDCP entities	25.323, 5.1	

~~Table A.19b: BMC Parameters~~

~~Item~~	~~BMC Parameters~~	~~Ref.~~	~~Comments~~
~~1~~	~~CBS message support~~	~~25.324, 9.1~~	

A.4.4 Additional information

Table A.20: Additional information

Item	Additional information	Ref.	Comments
1	At least one bearer service	22.002, 3	
2	At least one supplementary service	22.004, 4	
3	Inter-system measurement for GSM	25.331, 8.4	
4	At least one MO circuit switched basic service	24.008, 5.3.4.2.1	
5	At lease one MT circuit switched basic service	24.008, 5.3.4.2.2	
6	Immediate connect supported for all circuit switched basic services.	24.008, 5.2.1.6	
7	Activation of one or more PDP contexts simultaneously	[TBD]	
8	Sending of correct acknowledgement of memory full condition	[TBD]	
9	Status report capability	[TBD]	
10	(Void)		
11	Storing of received Class 1 short messages	[TBD]	
12	Storing of received Class 2 short messages in the SIM	[TBD]	
13	Replacing of short messages	[TBD]	
14	Reply procedures	23.040, Annex 4	
15	Sending of multiple short messages on the same RR connection when there is no call in progress	[TBD]	
16	Sending of concatenated multiple short messages when there is a call in progress	[TBD]	
17	Only circuit switched basic service supported by the mobile is emergency call	22.003, 6, A.1.2	
18	Multi-code transmission	[TBD]	
19	Poll_PU based polling mode of AM RLC	[TBD]	
20	Timer based polling mode of AM RLC	[TBD]	
21	Discard mode of AM RLC	[TBD]	
22	At least one MO circuit switched basic service	[TBD]	
23	At least one MO circuit switched basic service for which immediate connect is not used	[TBD]	
24	Network initiated MO call (CCBS)	24.008, 5.2.3 24.093, 4.1	
25	DTMF protocol control procedure	24.008, 5.5.7	
26	Secondary PDP context activation procedure	24.008, 6.1.3.2	
27	Support of UMTS encryption algorithm UEA1	33.102, 6.6	
28	Support of UMTS integrity algorithm UIA1	33.102, 6.5	
29	Support Automatic calling repeat call attempt	22.001, Annex E	
30	Support auto-calling more B-party numbers than the number of B-party numbers that can be stored in the list of blacklisted numbers	22.001, Annex E	
31	Support of SMS Cell Broadcast, i.e. the UE is capable of receiving and displaying broadcast messages.	23.041, 8 25.324, 11	
32	Support of Follow On Proceed	24.008, 4.4.4.6	
33	Support detach on power down		
34	Support detach on USIM removal		
35	Support switch on/off		
36	Support USIM removal without power down		
37	Indication and user selection of PLMN	23.122, 4.4.3	
38	Support of automatic PS attach procedure at switch on.		

Annex B (informative):
~~Mapping of UE Radio Access Capability combinations to supported RABs~~(void)

Based on: **ISG Typical parameter set v1.3**
TR25.926 v3.1.0 UE Radio Access Capabilities

Mapping of UE Radio Access Capability combinations to supported RABs
UTRA-FDD

			DL						UL				
	UE class		**1**	**2**	**3**	**4**	**5**	**6**	**1**	**2**	**3**	**4**	**5**
	Data rate (kbps)	**CS/PS**	**32**	**64**	**128**	**384**	**768**	**2048**	**32**	**64**	**128**	**384**	**768**
ISG reference	**Chars - DL/UL (kbps)**												
DPCH 5.4.1.X													
1	DCCH 1.7		X	X	X	X	X	X	X	X	X	X	X
2	DCCH 3.4		X	X	X	X	X	X	X	X	X	X	X
3	DCCH 13.6		X	X	X	X	X	X	X	X	X	X	X
4	CV voice 12.2	CS	X	X	X	X	X	X	X	X	X	X	X
5	CV voice 10.2	CS	X	X	X	X	X	X	X	X	X	X	X
6	CV voice 7.95	CS	X	X	X	X	X	X	X	X	X	X	X
7	CV voice 7.4	CS	X	X	X	X	X	X	X	X	X	X	X
8	CV voice 6.7	CS	X	X	X	X	X	X	X	X	X	X	X
9	CV voice 5.9	CS	X	X	X	X	X	X	X	X	X	X	X
10	CV voice 5.15	CS	X	X	X	X	X	X	X	X	X	X	X
11	CV voice 4.75	CS	X	X	X	X	X	X	X	X	X	X	X
12	CV 28.8/28.8	CS		X	X	X	X	X		X	X	X	X
13	CV 64/64	CS		X	X	X	X	X		X	X	X	X
14	CV 32/32	CS		X	X	X	X	X		X	X	X	X
15	ST 14.4/14.4	CS		X	X	X	X	X		X	X	X	X
16	ST 28.8/28.8	CS		X	X	X	X	X		X	X	X	X
17	ST 57.6/57.6	CS		X	X	X	X	X		X	X	X	X
18	ST 64/0	CS/PS		X	X	X	X	X	X	X	X	X	X
19	ST 0/64	CS/PS	X	X	X	X	X	X		X	X	X	X
20	ST 128/0	CS/PS				X	X	X	X	X	X	X	X
21	ST 0/128	CS/PS	X	X	X	X	X	X				X	X
22	ST 384/0	CS/PS						X	X	X	X	X	X
23	IB 8/32 (CC,10msTTI)	PS	X	X	X	X	X	X	X	X	X	X	X
24	IB 8/64	PS	X	X	X	X	X	X		X	X	X	X
25	IB 64/32 (CC,10msTTI)	PS		X	X	X	X	X	X	X	X	X	X
26	IB 64/64	PS		X	X	X	X	X		X	X	X	X
27	IB 128/64	PS			X	X	X	X		X	X	X	X
28	IB 128/128	PS			X	X	X	X			X	X	X
29	IB 144/64	PS			X	X	X	X		X	X	X	X
30	IB 144/144	PS			X	X	X	X			X	X	X
31	IB 256 (10 ms TTI)/64	PS				X	X	X		X	X	X	X
32	IB 384 (10ms TTI)/64	PS				X	X	X		X	X	X	X
33	IB 384 (10ms TTI)/128	PS				X	X	X			X	X	X
34	IB 384/384 (10ms TTI)	PS				X	X	X				X	X
32	IB 384 (20ms TTI)/64	PS					X	X		X	X	X	X
33	IB 384 (20ms TTI)/128	PS					X	X			X	X	X
34	IB 384/384 (20ms TTI)	PS					X	X					X
35	IB 2048/64	PS						X		X	X	X	X
36	IB 2048/128	PS						X			X	X	X
37	IB 2048/384 (10ms TTI)	PS						X				X	X
37	IB 2048/384 (20ms TTI)	PS						X					X
38	CVV + IB 8/32	CS+PS		X	X	X	X	X		X	X	X	X
39	CVV + IB 64/32	CS+PS		X	X	X	X	X		X	X	X	X
40	CVV + IB 64/64	CS+PS		X	X	X	X	X		X	X	X	X
41	CVV + IB 128/64	CS+PS			X	X	X	X		X	X	X	X
42	CVV + IB 256(10ms TTI)/64	CS+PS				X	X	X		X	X	X	X
43	CVV + IB 384(10ms TTI)/64	CS+PS				X	X	X		X	X	X	X
43	CVV + IB 384(20ms TTI)/64	CS+PS					X	X		X	X	X	X
44	CVV + IB 2048/128	CS+PS						X			X	X	X
45	CVV + ST 57.6/57.6	CS+CS		X	X	X	X	X		X	X	X	X
46	CVV + ST 64/0	CS+CS/PS		X	X	X	X	X	X	X	X	X	X
47	CVV + ST 128/0	CS+CS			X	X	X	X	X	X	X	X	X
48	CVV + ST 384/0	CS+CS						X	X	X	X	X	X
49	CVV + CV 64/64	CS+CS		X	X	X	X	X		X	X	X	X
50	CV 64/64 + CV 64/64	CS+CS				X	X	X				X	X
51	CV 64/64 + IB 64/64	CS+PS				X	X	X				X	X
52	CV 64/64 + IB 128/64	CS+PS				X	X	X				X	X
53	CV 64/64 + IB 128/128	CS+PS				X	X	X				X	X
54	IB 128/64 + ST 64/0	PS+CS/PS				X	X	X		X	X	X	X
55	IB 128/64 + ST 128/0	PS+CS/PS					X	X		X	X	X	X
DSCH & DPCH 5.4.2.X													
1	IB 256/64	PS				O	X	X		X	X	X	X
2	IB 384/64	PS				O	X	X		X	X	X	X
3	IB 2048/64	PS						X		X	X	X	X
4	CVV + IB 256/64	CS+PS				O	X	X		X	X	X	X
5	CVV + IB 384/64	CS+PS				O	X	X		X	X	X	X
6	CVV + IB 2048/64	CS+PS						X		X	X	X	X
SCCPCH 5.4.3.X	**DL**												
1	PCCH		X	X	X	X	X	X	NA	NA	NA	NA	NA
2	IB 32 +	PS	X	X	X	X	X	X	NA	NA	NA	NA	NA
3	IB 32 + PCCH	PS	X	X	X	X	X	X	NA	NA	NA	NA	NA
PRACH 5.4.4.X	**UL**												
1	IB 32	PS	NA	NA	NA	NA	NA	NA	X	X	X	X	X

CV =Conversational
IB =Interactive/Background
ST =Streaming
CVV = CV voice 12.2k

CS + CS = Support of Multicall (CS)
CS + PS = Simultaneous CS and PS
CS/PS = CS or PS
CS + CS/PS = Support of Multicall (2xCS) or simultaneous CS and PS

X = Support
O = Optional
NA = Not Applicable

Annex C (informative): Change history

Meeting -1st-Level	Doc-1st-Level	CR	Rev	Subject	Cat	Version-Current	Version -New	Doc-2nd-Level
TP-09				Approval of the specification as v3.1.0 rather than 3.0.0 to be aligned with 34.123-1 version number.		2.0.0	3.1.0	
TP-10	TP-000219	001		Update of Applicability statements for “Idle mode test	F	3.1.0	3.2.0	T1-000280
TP-10	TP-000219	002		Update of applicability clauses for RLC test cases	F	3.1.0	3.2.0	T1-000302
TP-10	TP-000219	003		Update of Applicability Statements for RRC Test Cases	F	3.1.0	3.2.0	T1-000295
TP-10	TP-000219	004		Update of applicability statements for radio bearer test	F	3.1.0	3.2.0	T1-000291
TP-10	TP-000219	005		Update of applicability statements for Session	B	3.1.0	3.2.0	T1-000299
TP-10	TP-000219	006		Update of Applicability statements for PACKET	B	3.1.0	3.2.0	T1-000284
TP-11	TP-010022	007		Update of Applicability statements for “Idle mode test	F	3.2.0	3.3.0	T1-010077
TP-11	TP-010022	008		Updates to clause 4 of TS 34.123-2 version 3.2.0	F	3.2.0	3.3.0	T1-010085
TP-11	TP-010022	009		Update of Applicability statements for GMM	F	3.2.0	3.3.0	T1-010087
TP-12	TP-010122	010		ICS for Idle mode tests	F	3.3.0	3.4.0	T1-010168
TP-12	TP-010122	011		Update to applicability tables for RLC tests	F	3.3.0	3.4.0	T1-010172
TP-12	TP-010122	012		Update to MAC test applicability tables	F	3.3.0	3.4.0	T1-010177
TP-12	TP-010122	013		Update of applicability table	F	3.3.0	3.4.0	T1-010180
TP-12	TP-010122	014		Deletion of applicability statement for intersystem handover tests GERAN to UTRAN	F	3.3.0	3.4.0	T1-010182
TP-12	TP-010122	015		Corrections to applicability for CC test cases	D	3.3.0	3.4.0	T1-010186
TP-12	TP-010122	016		Corrections to applicability for CC test cases	D	3.3.0	3.4.0	T1-010188
TP-12	TP-010122	017		MM test case ICS update	F	3.3.0	3.4.0	T1-010190
TP-12	TP-010122	018		Correction to MM applicability	F	3.3.0	3.4.0	T1-010191
TP-12	TP-010122	019		Correction and Addition of PICS and applicability tables for MM, SMS auto-calling, emergency call and intersystem HO test cases	F	3.3.0	3.4.0	T1-010192
TP-12	TP-010122	020		Update to SMS Applicability tables	F	3.3.0	3.4.0	T1-010195
TP-12	TP-010122	021		SMS applicability	F	3.3.0	3.4.0	T1-010197
TP-12	TP-010122	022		GMM ICS update	F	3.3.0	3.4.0	T1-010201
TP-12	TP-010122	023		Update of applicability of interoperability radio bearer test cases	F	3.3.0	3.4.0	T1-010209

3GPP TSG-T1 meeting #12
Busan, Korea, 6st – 7st September 2001
3GPP TSG-T1 SIG Meeting #18
Munich, Germany, 31st July - 2nd August 2001

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CR-Form-v4

CHANGE REQUEST

⌘ **34.123-2** **CR** **024** ⌘ ev ⌘ Current version: **3.4.0** ⌘

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

Proposed change affects: ⌘ (U)SIM ☐ ME/UE **X** Radio Access Network ☐ Core Network ☐

Title:	⌘	Updated PICS and applicability for L2/BMC and L2/PDCP testing
Source:	⌘	ETSI Task MCC 160
Work item code:	⌘	***Date:*** ⌘ 26.072001
Category:	⌘ **F**	***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)*

Reason for change:	⌘	Update is needed to define the applicability of BMC and PDCP tests
Summary of change:	⌘	PDCP: 1. Editorial corrections of PDCP PICS, clause A.4.3.4, table 19, Item 1,3,4 and 5. 2. Added tests in clause 4, Table 1, Applicability of tests: 12 PDCP TC and procedures added with necessary PICS conditions. BMC: 3. Editorial corrections of BMC PICS, clause A.4.3.4, table 19b, Item 1. BMC PICS items 2 and 3 added. 4. Added tests in clause 4, Table 1, Applicability of tests: 7 BMC TC added with necessary PICS conditions.
Consequences if not approved:	⌘	The PDCP and BMC test applicability is not given.

Clauses affected:	⌘	Clause 4 and A.4.3.4
Other specs affected:	⌘	☐ Other core specifications ⌘ ☐ Test specifications ☐ O&M Specifications
Other comments:	⌘	

A.4.3.4 Layer 2/3 Baseline Implementation Capabilities (access stratum)

Table A.19: PDCP Parameters

Item	PDCP Parameters	Ref.	Comments
1	~~IP header compression algorithm~~Support of RFC 2507	25.323, 5.1.2	IP header compression protocol RFC 2507 is supported
2	Support of Lossless SRNS relocation	25.323, 5.4	Lossless SRNS Relocation is supported
~~3~~	~~Multiplexing of multiple radio bearers [not R99]~~		
4	~~RLC in-sequence delivery~~	~~25.323, 5.4~~	
~~5~~3	~~Establishment of m~~More than one PDCP entiti~~yes~~	25.323, 5.1	Establishment of more than one PDCP entities is supported

Table A.19b: BMC Parameters

Item	BMC Parameters	Ref.	Comments
1	Support of BMC~~CBS message support~~	25.324, 9.1	BMC is supported, i.e. the UE is capable of receiving and forwarding BMC messages
2	Support of BMC Scheduling	25.324, 9.1	BMC DRX Scheduling (Level 2 Scheduling) is supported, i.e. the UE is capable to perform DRX for predicted, scheduled BMC messages
3	Support of ANSI-41 CB data	25.324, 9.1	BMC supports the reception of ANSI-41 CB data

4 Recommended test case applicability

Table 1: Applicability of tests

Clause	Title	Applicability	Comments
LAYER 2			
7.3.2.1.1~~-p1~~	IP Header Compression and PID assignment / UE in RLC AM / Transmission of uncompressed Header ~~(1. test procedure: Transmission of uncompressed IP header packets using PDCP Data PDU)~~	C12	UE supporting PS
~~7.3.2.1.1-p2~~	~~IP Header Compression and PID assignment / UE in RLC AM / Transmission of uncompressed Header (2. test procedure: Transmission of uncompressed IP header packets using No Header PDU)~~	~~C12~~	~~UE supporting PS~~
7.3.2.1.2	IP Header Compression and PID assignment / UE in RLC AM / Transmission of compressed Header	C107	UE supporting PS and IP Header Compression protocol IETF RFC 2507
7.3.2.2.1~~-p1~~	IP Header Compression and PID assignment / UE in RLC UM / Transmission of uncompressed Header ~~(1. test procedure: Transmission of uncompressed IP header packets using PDCP Data PDU)~~	C12	UE supporting PS
~~7.3.2.2.1-p2~~	~~IP Header Compression and PID assignment / UE in RLC UM / Transmission of uncompressed Header (2. test procedure: Transmission of uncompressed IP header packets using No Header PDU)~~	~~C12~~	~~UE supporting PS~~
7.3.2.2.2	IP Header Compression and PID assignment / UE in RLC UM / Transmission of compressed Header	C107	UE supporting PS and IP Header Compression protocol IETF RFC 2507
7.3.2.2.3	IP Header Compression and PID assignment / UE in RLC UM / Extension of used compression methods	C107	UE supporting PS and IP Header Compression protocol IETF RFC 2507
7.3.2.2.4	IP Header Compression and PID assignment / UE in RLC UM / Compression type used for different entities	C108	UE supporting PS, IP Header Compression protocol IETF RFC 2507 and establishment of more than one PDCP entities
7.3.2.2.5	IP Header Compression and PID assignment / UE in RLC UM / Reception of not defined PID values	C107	UE supporting PS and IP Header Compression protocol IETF RFC 2507
7.3.3.1	PDCP sequence numbering when lossless SRNS Relocation / Data transmission if lossless SRNS Relocation is supported	C109	UE supporting PS, IP Header Compression protocol IETF RFC 2507 and lossless SRNS relocation
7.3.3.2	PDCP sequence numbering when lossless SRNS Relocation / Synchronisation of PDCP sequence numbers	C109	UE supporting PS, IP Header Compression protocol IETF RFC 2507 and lossless SRNS relocation
7.4.2~~1~~.1	General BMC message reception / UE in Idle mode	C110	UE supporting PS, BMC and CBS
7.4.2~~1~~.2	General BMC message reception / UE in RRC connected mode, state CELL_PCH	C110	UE supporting PS, BMC and CBS
7.4.2~~1~~.3	General BMC message reception / UE in RRC connected mode, state URA_PCH	C110	UE supporting PS, BMC and CBS
7.4.2~~1~~.4	General BMC message reception / UE in Idle mode (ANSI-41 CB data)	C111	UE supporting PS, BMC and ANSI-41 CB data
7.4.2~~1~~.5	General BMC message reception / UE in RRC connected mode, state CELL_PCH (ANSI-41 CB data)	C111	UE supporting PS, BMC and ANSI-41 CB data
7.4.2~~1~~.6	General BMC message reception / UE in RRC connected mode, state URA_PCH (ANSI-41 CB data)	C111	UE supporting PS, BMC and ANSI-41 CB data
7.4.3~~2~~.1	Reception of certain CBS message types	C112	UE supporting PS, BMC, CBS and BMC DRX Scheduling

C107 IF A.3/2 AND A.19/1 THEN R ELSE N/A
C108 IF A.3/2 AND A.19/1 AND A.19/3 THEN R ELSE N/A
C109 IF A.3/2 AND A.19/1 AND A.19/2 THEN R ELSE N/A
C110 IF A.3/2 AND A.2/7 AND A.19b/1 THEN R ELSE N/A
C111 IF A.3/2 AND A.19b/1 AND A.19b/3 THEN R ELSE N/A
C112 IF A.3/2 AND A.2/7 AND A.19b/1 AND A.19b/2 THEN R ELSE N/A