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Evolved Universal Terrestrial Radio Access (E-UTRA) and Evolved Packet Core (EPC);
User Equipment (UE) conformance specification;
Part 3: Test suites
(3GPP TS 36.523-3 version 12.1.0 Release 12)





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Foreword

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Introduction

The present document is part 3 of a multi-part conformance test specification for the 3GPP evolved User Equipment (UE). The specification contains a TTCN-3 design frame work and the detailed test specifications in TTCN-3 for evolved UE at the UE-E-UTRAN radio interface.

- 3GPP TS 36.523-1 [1]: "User Equipment (UE) conformance specification; Part 1: Protocol conformance specification".
- 3GPP TS 36.523-2 [2]: "User Equipment (UE) conformance specification; Part 2: Implementation Conformance Statement (ICS) proforma specification".
- 3GPP TS 36.523-3: "Test Suites" (the present document).

1 Scope

The present document specifies the protocol and signalling conformance testing in TTCN-3 for the 3GPP UE at the UE-E-UTRAN radio interface.

The following TTCN test specification and design considerations can be found in the present document:

- the test system architecture;
- the overall test suite structure;
- the test models and ASP definitions:
- the test methods and usage of communication ports definitions;
- the test configurations;
- the design principles and assumptions;
- TTCN styles and conventions;
- the partial PIXIT proforma;
- the test suites.

The Abstract Test Suites designed in the document are based on the test cases specified in prose (3GPP TS 36.523-1 [1]). The applicability of the individual test cases is specified in the test ICS proforma specification (3GPP TS 36.523-2 [1]).

The present document is valid for TTCN development for LTE and LTE-A UE conformance test according to 3GPP Releases starting from Release 8 up to the Release indicated on the cover page of the present document.

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] 3GPP TS 36.523-1: "User Equipment (UE) conformance specification; Part 1: Protocol conformance specification".
- [2] 3GPP TS 36.523-2: "User Equipment (UE) conformance specification; Part 2: Implementation Conformance Statement (ICS) proforma specification".
- [3] 3GPP TS 36.508: "Common test environments for User Equipment (UE) conformance testing".
- [4] 3GPP TS 36.509: "Terminal logical test interface; Special conformance testing functions".
- [5] 3GPP TS 34.123-1: "User Equipment (UE) conformance specification; Part 1: Protocol conformance specification".
- [6] 3GPP TS 34.123-2: "User Equipment (UE) conformance specification; Part 2: Implementation Conformance Statement (ICS) proforma specification".
- [7] 3GPP TS 34.123-3: "User Equipment (UE) conformance specification; Part 3: Abstract Test Suite (ATS)".

[8]	3GPP TS 34.108: "Common test environments for User Equipment (UE) conformance testing".
[9]	3GPP TS 34.109: "Terminal logical test interface; Special conformance testing functions".
[10]	3GPP TS 51.010-1: "Mobile Station (MS) conformance specification; Part 1: Conformance Specification".
[11]	3GPP TS 51.010-2: "Mobile Station (MS) conformance specification; Part 2: Protocol Implementation Conformance Statement (PICS) proforma specification".
[12]	3GPP TS 51.010-5: "Mobile Station (MS) conformance specification; Part 5: Inter-RAT (GERAN to UTRAN) Abstract Test Suite (ATS)".
[13]	ETSI ES 201 873-1: "Methods for Testing and Specification (MTS); The Tree and Tabular Combined Notation version 3; Part 1: TTCN-3 Core Language".
[14]	3GPP TS 36.304: "Evolved Universal Terrestrial Radio Access (E-UTRA); "UE Procedures in Idle Mode".
[15]	3GPP TS 36.306 "Evolved Universal Terrestrial Radio Access (E-UTRA); "UE Radio Access Capabilities".
[16]	3GPP TS 36.321: "Evolved Universal Terrestrial Radio Access (E-UTRA); "Medium Access Control (MAC) protocol specification".
[17]	3GPP TS 36.322: "Evolved Universal Terrestrial Radio Access (E-UTRA); "Radio Link Control (RLC) protocol specification".
[18]	3GPP TS 36.323: "Evolved Universal Terrestrial Radio Access (E-UTRA); "Packet Data Convergence Protocol (PDCP) Specification".
[19]	3GPP TS 36.331: "Evolved Universal Terrestrial Radio Access (E-UTRA) Radio Resource Control (RRC); Protocol Specification".
[20]	3GPP TS 24.008: "Mobile Radio Interface Layer 3 specification; Core Network Protocols; Stage 3".
[21]	3GPP TS 24.301: "Non-Access-Stratum (NAS) Protocol for Evolved Packet System (EPS); Stage 3".
[22]	3GPP TS 24.303: "Mobility Management based on DSMIPv6; User Equipment (UE) to network protocols; Stage 3".
[23]	3GPP TS 24.304: "Mobility management based on Mobile IPv4; User Equipment (UE) – foreign agent interface; Stage 3".
[24]	3GPP TS 33.401: "3GPP System Architecture Evolution (SAE); Security architecture".
[25]	3GPP TS 33.402: "3GPP System Architecture Evolution (SAE); Security aspects of non-3GPP accesses".
[26]	3GPP TR 21.905: "Vocabulary for 3GPP Specifications".
[27]	ETSI ES 201 873-4: "Methods for Testing and Specification (MTS); The Testing and Test Control Notation version 3; Part 4: TTCN-3 Operational Semantics".
[28]	ETSI ES 201 873-5: "Methods for Testing and Specification (MTS); The Testing and Test Control Notation version 3; Part 5: TTCN-3 Runtime Interface (TRI)".
[29]	ETSI ES 201 873-6: "Methods for Testing and Specification (MTS); The Testing and Test Control Notation version 3; Part 6: TTCN-3 Control Interface (TCI)".
[30]	3GPP TS 36.213: "Evolved Universal Terrestrial Radio Access (E-UTRA); Physical layer procedures".
[31]	3GPP TS 27.005: "Use of Data Terminal Equipment – Data Circuit terminating Equipment (DTE-DCE) interface for Short Message Service (SMS) and Cell Broadcast Service (CBS)".

[32]	3GPP TS 27.007: "AT command set for 3G User Equipment (UE)".
[33]	3GPP TS 27.060: "Packet domain; Mobile Station (MS) supporting Packet Switched services".
[34]	3GPP TS 36.101: "Evolved Universal Terrestrial Radio Access (E-UTRA); User Equipment (UE) radio transmission and reception".
[35]	3GPP TS 36.211: "Evolved Universal Terrestrial Radio Access (E-UTRA); Physical channels and modulation".
[36]	3GPP TS 25.331: "RRC Protocol Specification".
[37]	3GPP TS 36.133: "Evolved Universal Terrestrial Radio Access (E-UTRA); Requirements for support of radio resource management".
[38]	3GPP2 TSG-C C.S0024_C v2.0: "cdma2000 High Rate Packet Data Air Interface Specification".
[39]	3GPP2 TSG-C C.S0057-E v1.0: "Band Class Specification for cdma2000 Spread Spectrum Systems".
[40]	3GPP TS 34.229-1: "Internet Protocol (IP) multimedia call control protocol based on Session Initiation Protocol (SIP) and Session Description Protocol (SDP); User Equipment (UE) conformance specification; Part 1: Protocol conformance specification".
[41]	3GPP TS 33.203: "3G security; Access security for IP-based services".
[42]	3GPP TS 24.229: "IP Multimedia Call Control Protocol based on Session Initiation Protocol (SIP) and Session Description Protocol (SDP); Stage 3".
[43]	IETF RFC 3320: "Signalling Compression (SigComp)".
[44]	IETF RFC 3485: "The Session Initiation Protocol (SIP) and Session Description Protocol (SDP) Static Dictionary for Signalling Compression (SigComp)".
[45]	IETF RFC 3486: "Compressing the Session Initiation Protocol (SIP)".
[46]	IETF RFC 4896: "Signalling Compression (SigComp) Corrections and Clarifications".
[47]	IETF RFC 5049: "Applying Signalling Compression (SigComp) to the Session Initiation Protocol (SIP)".
[48]	3GPP TS 23.003: "Numbering, addressing and identification".
[49]	3GPP TS 23.060: "General Packet Radio Service (GPRS) Service description; Stage 2".
[50]	3GPP TS 29.061: "Interworking between the Public Land Mobile Network (PLMN) supporting packet based services and Packet Data Networks (PDN)".
[51]	3GPP TS 34.229-3: "Internet Protocol (IP) multimedia call control protocol based on Session Initiation Protocol (SIP) and Session Description Protocol (SDP); User Equipment (UE) conformance specification; Part 3: Abstract Test Suite ".
[52]	3GPP TS 37.571-4: "User Equipment (UE) conformance specification for UE positioning; Part 4: Test Suites"
[53]	3GPP TS 36.214: " Evolved Universal Terrestrial Radio Access (E-UTRA); Physical layer; Measurements".
[54]	IETF RFC 1144: "Compressing TCP/IP headers for low-speed serial links".
[55]	IETF RFC 2507: "IP Header Compression".
[56]	ITU-T Recommendation V.42bis: "Data compression procedures for data circuit-terminating equipment (DCE) using error correction procedures".
[57]	ITU-T Recommendation V.44: "Data compression procedures".

[58] IETF RFC 1035: "DOMAIN NAMES - IMPLEMENTATION AND SPECIFICATION"

[59] IETF RFC 3596: "DNS Extensions to Support IP Version 6"

3 Definitions and abbreviations

3.1 Definitions

For the purposes of the present document, the terms and definitions given in TR 21.905 [26] apply.

3.2 Abbreviations

For the purposes of the present document, the abbreviations given in TR 21.905 [26] apply.

4 E-UTRAN/SAE system architecture and test models

4.1 Test system architecture

4.1.1 General system architecture

The general system architecture is shown in figure 4.1.1-1.

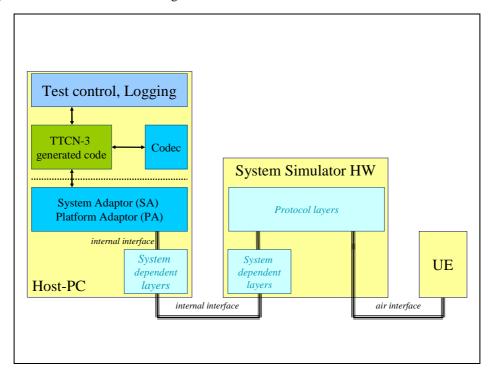


Figure 4.1.1-1: Architecture of system simulator

The scope of the present document is the TTCN-3 implementation of conformance tests. Specifications and definitions of the present document affect the codec and the system adaptor (SA). Test control and logging are out of scope as well as the interface between the TTCN-3 generated code and the system adaptor which can be either standardised TRI or proprietary.

The main assumptions regarding the system architecture are:

- TTCN-3 code runs on the host system only:
 - No TTCN-3 components are downloaded to system simulator HW.

- Layer 2 tests (MAC, RLC) are controlled by appropriate configuration primitives in TTCN-3 but neither layer 2 nor parts of it are implemented in TTCN-3; the system simulator performs low layer procedure autonomously but all system simulator implementations shall result in the same test pattern at the air interface.
- Proprietary interfaces e.g. instead of the TRI are not considered in the test model.
- The timing considerations of the conformance tests shall be supported by appropriate timing information (e.g. system frame number) provided from/to the system simulator rather than by timing measurements in TTCN-3.

4.1.2 Component architecture

For E-UTRAN conformance tests each access technology (RAT) is hosted by a separate TTCN-3 parallel component (PTC):

- E-UTRAN.
- UTRAN.
- GERAN.
- Other technologies like 3GPP2 UTRAN.

The PTCs are controlled by the TTCN-3 master test component (MTC) which:

- is independent from the RAT;
- may host the upper tester for MMI and AT commands;
- creates, synchronises and terminates the PTCs;
- starts and terminates test cases.

Figure 4.1.2-1 shows this component architecture for a E-UTRAN and UTRAN scenario.

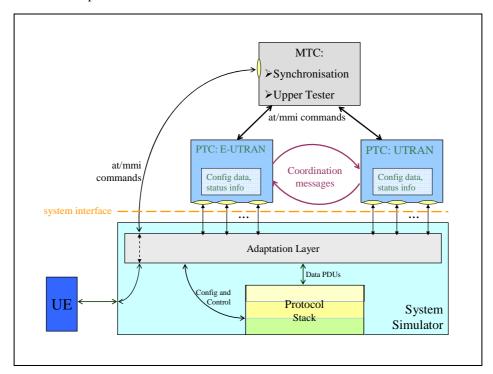


Figure 4.1.2-1:E-UTRAN-UTRAN component model

According to this model there are different interfaces to be considered:

MTC - PTC:

- common synchronisation of PTCs;
- upper tester primitives.

MTC - System Interface:

- upper tester primitives.

PTC - PTC:

- primitives containing information for IRAT handover.

PTC - System Interface:

- primitives containing peer-to-peer message;
- configuration primitives.

4.2 E-UTRAN test models

4.2.1 Layer 2 test models

When test loop mode is used for the Layer 2 tests the DRB ports at the SS side is referred to the raw DRB ones. At the SS side, DRBs are initially configured with default modes and parameters. For the purpose of L2-testing the DRBs may be reconfigured later on as indicated in the subsequent test models (see below).

4.2.1.1 MAC test model

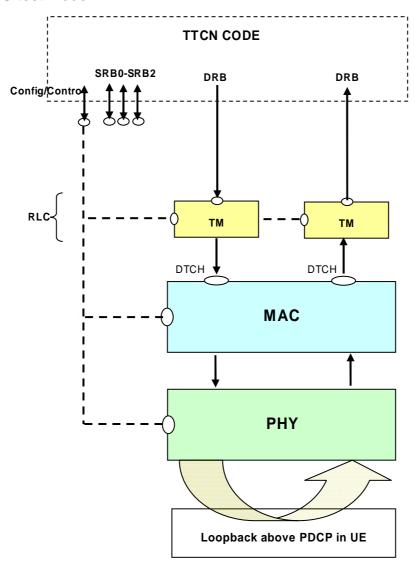


Figure 4.2.1.1-1: Test model for MAC testing

The UE is configured in Test Loop Mode, to loop back the user domain data above PDCP layer. On UE side Ciphering is enabled (since Mandatory) but with dummy ciphering algorithm, which is equivalent to not using ciphering. ROHC is not configured on UE Side.

On the SS Side, Layer 1 is configured in the normal way. MAC is configured in a special mode, where it does not add any MAC headers in DL and /or not remove any MAC headers in UL directions respectively at DRB port. In this case, the TTCN shall provide the final PDU, including padding. Except for this, the MAC layer shall perform all of its other functions.

On DRBs the RLC is configured in transparent mode. Hence with this configuration PDU's out of SS RLC are same as the SDU's in it. There is no PDCP configured on SS Side. The ports are directly above RLC.

There are two different test modes in which MAC header addition/removal can be configured:

DL/UL header-transparent mode: no header addition in DL and no header removal in UL.

DL only header-transparent mode: no header addition in DL; UL MAC is configured in normal mode to remove MAC header and dispatch the MAC SDUs according to the logical channel Ids.

If SS MAC is configured in DL/UL header-transparent mode, the PDU's exchanged at the DRB port between TTCN and SS, shall be the final MAC PDU's consisting of MAC, RLC and PDCP headers. TTCN code shall take care in DL

of building MAC header, RLC headers and PDCP headers and in UL handle MAC, RLC and PDCP headers. TTCN code shall take care of maintaining sequence numbers and state variables for RLC and PDCP layers. During testing of multiple DRBs at the UE side, it shall still be possible to configure only one DRB on SS side with configuration in the figure 4.2.1.1-1. Other DRBs will not be configured, to facilitate routing UL TBSs. Multiplexing/de-multiplexing of PDUs meant/from different DRBs shall be performed in TTCN. Since the MAC layer does not evaluate the MAC headers in UL it cannot distinguish between SRB and DRB data in UL. Therefore there shall be no SRB traffic while MAC is configured in this test mode.

If SS MAC is configured in DL only header-transparent mode, the UL PDUs exchanged at the DRB port between TTCN and SS, shall be final RLC PDUs consisting of RLC and PDCP headers. SS shall route these PDUs based on logical channel IDs. In DL, TTCN sends fully encoded MAC PDUs at the DRB port (consisting of MAC, RLC and PDCP headers). In this case TTCN needs to take care of maintaining sequence numbers and state variables for RLC and PDCP layers. Furthermore in UL and DL the SS MAC layer shall be capable of dealing with SRB data (i.e. it shall handle DL RLC PDUs coming from SRBs RLC layer or dispatch UL RLC PDUs to SRBs) as in normal mode.

NOTE: TTCN shall ensure that no DL MAC SDUs in normal mode and DL MAC PDUs in test mode are mixed for the same TTI.

The UL Scheduling Grant and DL Scheduling assignments are configured from TTCN over system control port. SS reports PUCCH scheduling information reception over system indication port, if configured. In a similar way the reception of RACH preambles is reported by SS over the same port.

4.2.1.2 RLC test model

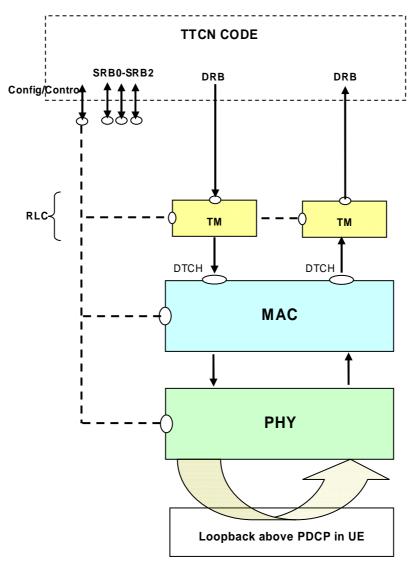


Figure 4.2.1.2.3-1: Test model for RLC AM/UM testing

This model is suitable for testing both UM/AM mode of operation of DRBs on UE side.

The UE is configured in Test Loop Mode, to loop back the user domain data above PDCP layer. On UE side Ciphering is enabled (since mandatory) but with dummy ciphering algorithm, which is equivalent to not using ciphering. ROHC is not configured on UE Side.

On the SS Side, L1 and MAC are configured in the normal way. The RLC is configured in transparent mode. Hence with this configuration PDUs out of SS RLC are same as the SDUs in it. There is no PDCP configured on SS Side. The ports are directly above RLC.

The PDUs exchanged between TTCN and SS, shall be the final RLC PDUs consisting of RLC and PDCP headers. TTCN code shall take care in DL of building RLC headers and PDCP headers and in UL handle RLC and PDCP headers. TTCN code shall take care of maintaining sequence numbers and state variables for RLC and PDCP layers. If RLC on UE side is in AM mode, TTCN shall take care of generating polls in DL and responding with RLC control PDUs on reception of UL Poll.

The UL Scheduling Grant and DL Scheduling assignments are configured from TTCN over system control port.

4.2.1.3 PDCP test model

4.2.1.3.1 PDCP ROHC test model

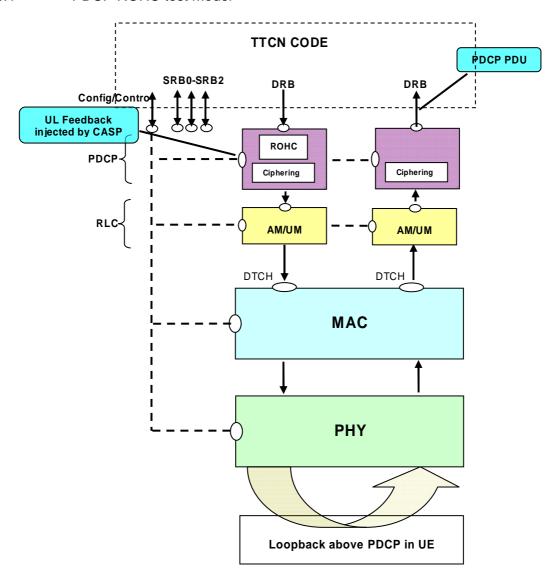


Figure 4.2.1.3.1-1: Test model for PDCP ROHC testing

The UE is configured in Test Loop Mode, to loop back the user domain data above PDCP layer. On UE side Ciphering is enabled and ROHC is configured.

On the SS Side L1, MAC and RLC are configured in normal way. They shall perform all of their functions. The ports are above PDCP.

The PDCP is configured in special mode, with no header manipulation. Ciphering is configured in both directions. ROHC is configured in DL direction only. UL ROHC feedback can be injected by control ASP. It shall be possible to configure 'no header manipulation' mode independently in UL and DL directions. When configured in special mode, SS shall not add PDCP header (DL) and remove PDCP Header (UL). PDCP state variables shall be maintained by SS PDCP layer. It shall be possible for SS PDCP to update state variables based on the PDU's in both directions, even though headers are not added/removed. Also, it shall be possible to read or set the PDCP internal state variables, by control primitives.

The UL Scheduling Grant and DL Scheduling assignments are configured from TTCN over system control port. SS reports PUCCH scheduling information reception over system indication port, if configured.

4.2.1.3.2 PDCP test model (Non ROHC)

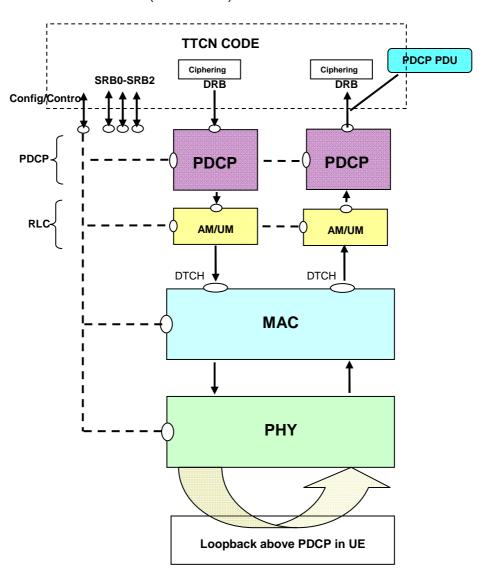


Figure 4.2.1.3.2-1: Test model for PDCP (Non ROHC) testing

The UE is configured in Test Loop Mode, to loop back the user domain data above PDCP layer. On UE side Ciphering is enabled and ROHC is not configured.

On the SS Side L1, MAC and RLC are configured in normal way. They shall perform all of their functions. The ports are above PDCP.

The PDCP is configured in a special mode, named transparent mode. In this mode, SS shall not add PDCP header (DL) and remove PDCP Header (UL). The TTCN maintains sequence numbers and state variables for the PDCP layer. The TTCN makes use of the AS ciphering functionality in both directions, employing the dummy ciphering algorithm. Ciphering/deciphering are performed using TTCN external functions. ROHC is not configured.

The UL Scheduling Grant and DL Scheduling assignments are configured from TTCN over system control port. SS reports PUCCH scheduling information reception over system indication port, if configured.

4.2.2 RRC test model

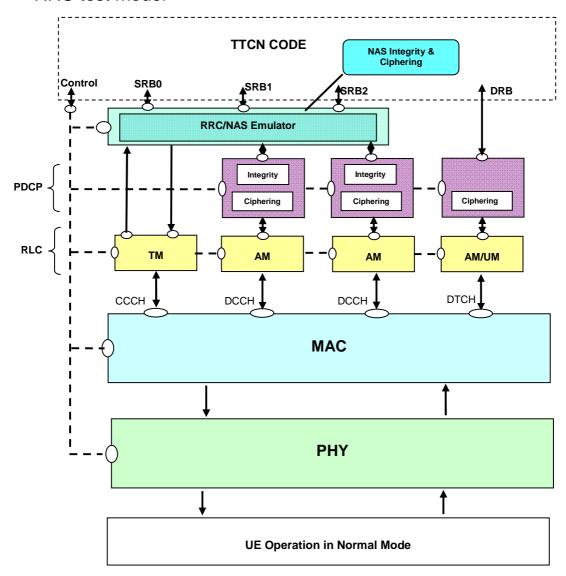


Figure 4.2.2-1: Test model for RRC testing

The UE is configured in normal mode. On UE side Ciphering/Integrity (PDCP and NAS) is enabled and ROHC is not configured.

On the SS Side L1, MAC, RLC and PDCP are configured in normal way. They shall perform all of their functions. For SRB0 the DL and UL port is above RLC. For SRB1 and SRB2 the port is above/below the RRC and NAS emulator,

which may be implemented as a parallel test component. For DRB, the port is above PDCP. PDCP Ciphering/Integrity is enabled. NAS integrity/Ciphering is enabled.

The RRC/NAS emulator for SRB1 and SRB2 shall provide the Ciphering and integrity functionality for the NAS messages. In UL direction, SS shall report RRC messages, still containing (where appropriate) the secure and encoded NAS message, to the RRC port. In DL, RRC and NAS messages with same timing information shall be embedded in one PDU after integrity and ciphering for NAS messages.

The UL Scheduling Grant and DL Scheduling assignments are configured from TTCN over system control port. SS reports PUCCH scheduling information reception over system indication port, if configured.

4.2.3 DRB test model

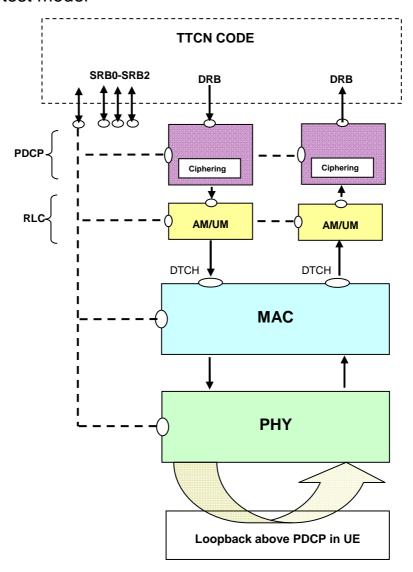


Figure 4.2.3-1: Test model for DRB testing

The UE is configured in Test Loop Mode, to loop back the user domain data above PDCP layer. Ciphering is optionally configured on UE side. In TTCN the DRB data is considered as raw data and there is no IP handling while the UE is in loopback mode.

On the SS Side L1, MAC, RLC and PDCP are configured in normal way. They shall perform all of their functions. The ports are above PDCP. When test loop mode is used for the DRB, the ports at the SS side refer to the raw DRB ones. Ciphering is enabled and ROHC is not configured on SS Side.

SS shall send in DL all PDU's received from different RB's but with same timing control information in one MAC PDU and in one TTI.

The UL Scheduling Grant and DL Scheduling assignments are configured from TTCN over system control port. SS reports PUCCH scheduling information reception over system indication port, if configured.

4.2.4 IP Test Model

Depending on different test scenarios user plane data can be distinguished in:

- Raw user data upon EUTRA PDCP (Raw mode);
- IP user data (IP mode).

The raw user data are applied for L2 or DRB tests, no IP protocols are involved. The UL user data is directly routed to the EUTRA_PTC.

The IP user data are applied when IP packets data are handled in TTCN. A DRB can have one or more Transport and Internet protocols configured.

Whether a DRB is in IP or in raw mode depends on the configuration of the routing table in the DBR-Mux. This is controlled by the IP_CTRL port and independent from the configuration of the IP connections (IP_SOCKET).

4.2.4.1 IP user data

To allow the usage of common protocol implementations at the system adaptor the related interfaces in TTCN-3 are based on the Sockets API.

There can be one or several sockets (server or client) for each DRB: TCP, UDP and ICMP.

Each socket can be clearly identified by the IP address, port number and the protocol (tcp|udp\icmp). It implies that a TCP socket can be either server or client.

It is assumed that:

- Different DRBs are not using the same sockets.
- The UE behaviour of a single IP-based protocol on a specific socket like DHCP can be included in conformance tests.
- Other protocols like ESP are not considered but can easily be introduced later, if necessary, by using the same socket approach.

The routing of IP packets from the IP stack to the DRBs in DL and from the DRBs either to the DRB port (E_DRB in case of EUTRA) or to the IP stack in UL is done by the DRB-Mux. This behaviour is controlled by the DRB-Mux's routing table.

The general architecture of the IP test model is shown in figure 4.2.4.1-1 (with a DHCP server as example for IP handling).

NOTE: In figure 4.2.4.1-1 DHCP is one example for a protocol above the IP stack; other protocols like DNS can also be implemented but this a pure TTCN implementation issue and independent from the system interface.

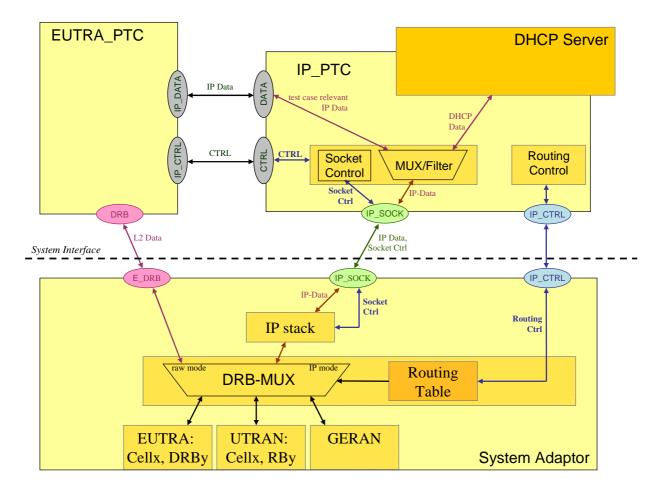


Figure 4.2.4.1-1: Example of EUTRA IP test model with a DHCP server

4.2.4.2 Configuration of Sockets

The following configurations are controlled by the IP_PTC (IP_SOCKET_REQ). The socket configuration and the sending/receiving of data are done with the same ASP on the system port IP_SOCK.

4.2.4.2.1 Socket Establishment

TCP server

TCP socket configured as server: the socket 'listens' to a 'connect' from the UE. The socket can be configured by using the following system calls of the Berkeley Sockets API:

- socket (AF_INET | AF_INET6, SOCK_STREAM, 0);
- setsockopt;
- bind (local IP address Port);
- listen.

NOTE: Currently the only socket option being defined is SO_BROADCAST

When the UE connects to the server the connection is accepted with the 'accept' system call.

TCP client

A TCP connection is established to an existing TCP server at the UE side. This can be done with the following system calls:

- socket (AF_INET|AF_INET6, SOCK_STREAM, 0);
- setsockopt;
- connect (remote Server Addr of the UE = IP-Addr + Port).

UDP socket

A UDP socket can be established with the system calls

- socket (AF_INET|AF_INET6, SOCK_DGRAM, 0);
- setsockopt;
- bind (local IP address, Port);
- connect.
- NOTE 1: 'setsockopt' can be used to set the option SO_BROADCAST to allow broadcast messages (e.g. for DHCP).
- NOTE 2: Usage of 'connect' depends on implementation of the system adaptor.

4.2.4.2.2 Socket Release

A socket is released:

- in case of TCP when the remote entity closes the connection;
- when it is closed explicitly by the IP_PTC (system call 'close').
- NOTE 1: In general the sockets are independent from the configuration of the DRBs. Especially in case of UDP or ICMP the sockets can exist even without any DRB being configured.
- NOTE 2: For IMS, TCP close happens for unprotected ports after initial registration and for protected ports after deregistration or re-registration: Any protected TCP connections are kept as long as the UE is registered independent of whether the RRC connection is released in between. In general TCP close is expected to be done from the client's end.

In detail

- after initial registration TTCN waits ΔT seconds for the UE to close any TCP connection on the unprotected port
- after de-registration TTCN waits ΔT seconds for the UE to close its client TCP connection; after this is done the TTCN closes any remaining TCP connection (independently of the server/client role)
- after re-registration when there is a new security context TTCN waits ΔT seconds for the UE to close its client TCP connection of the old security context.
- as special case after an emergency call the same procedure is applied as for de-registration ΔT is 3s.

4.2.4.3 Handling of IP data

Sending and receiving of IP data is done by the same ASPs as the socket establishment on IP_SOCK. In TTCN the IP data are handled by a separate TTCN component: IP_PTC. This PTC can deal with the data according to the respective protocol, e.g. DHCP. In general, this is out of scope for the (signalling conformance) test case in terms of pass/fail assignment.

The IP_PTC will receive data from sockets being configured for the corresponding IP protocols. Any unrecognised IP packets are discarded by the IP stack in the system adaptor.

When the IP data is relevant for the test purpose, e.g. the test purpose is to test DHCP, the IP data are routed to the EUTRA_PTC. This allows generic protocol implementations for the common case, i.e. IP_PTC and DHCP server are independent from test case specific implementations.

The interface between EUTRA_PTC and IP_PTC is a pure TTCN implementation issue and independent of the system interface. Furthermore it is irrelevant for the system interface whether e.g. the DHCP server is part of the IP_PTC or implemented as a separate PTC.

- For TCP, the primitives to send and receive data correspond to the 'send' and 'recv' system calls.
- For UDP and ICMP, the primitives correspond to the 'sendto' and 'recvfrom' system calls.
- For both UDP and TCP the system adaptor may send ("in-band") error indications in case of system errors. That results in an assignment of incone by the IP_PTC.

4.2.4.4 Routing of IP Data

The routing of IP data is done in the DRB-Mux which gets a routing table configured. This table associates the address and protocol information of IP packets (protocol, local IP address, local port, remote IP address, remote port) with the radio bearer (RAT, cell, DRB id).

In UL a DRB is considered being in raw mode when there is no entry found in the routing table. It is considered being in IP mode when there is any entry regardless of the protocol and address information being stored, i.e. in UL, the SS does not need to evaluate the IP header to route the data (in raw mode this would cause problems in the case of loopback data). In addition for the IP mode specific entries of the routing table can be flagged to discard IP packets matching this entry. This can be used e.g. for rSRVCC to suppress RTP/RTCP data on the default AM DRB during HO. The major purpose is to discard the data silently (i.e. to suppress any error reporting like ICMP error messages).

NOTE: It is up to system implementation how packets are discarded (explicitly or implicitly by the IP stack) as long as it done silently.

In DL the IP packets of the IP stack are routed to the DRBs acc. to the routing information in the routing table (see annex D for details.

NOTE: Only the IP PTC can re-configure the Routing Table; if that needs to be triggered by a RAT specific PTC, this is done by appropriate coordination messages but the RAT specific PTCs don't have a direct access to the routing tables.

4.2.4.5 Multiple PDNs

In case multiple PDNs broadcast, or multicast datagrams sent by the UE, need to assigned to the respective PDN:

IPv4

When the UE does not get a valid IPv4 address assigned via NAS signalling it will request the IP address via DHCP. In this case there are DHCP broadcast messages in UL.

In the case of multiple PDNs, it cannot be distinguished by evaluating the IP address to which PDN the message belongs but additional information is necessary:

The network side needs to know which interface (i.e. network) the broadcast comes from; in case of LTE this is associated with the default bearer of the particular PDN.

NOTE: In principle the 'chaddr' field or the 'client identifier' option of the DHCP messages may be used to distinguish different interfaces (e.g. for Ethernet this would be the MAC address) but it is not specified how these fields are to be used by the UE (or how to configure them at the UE); RFCs (e.g. RFC 2131) only require the client identifier to be unique in a given subnet.

IPv6

The UE gets an interface identifier assigned via NAS signalling (TS 24.301 [21] clause 6.2.2) which is used as link-local address during stateless address auto configuration (TS 23.060 [43] clause 9.2.1.1 and TS 29.061 [44] clause 11.2):

The UE may send a ROUTER SOLICITATION message (multicast) to which the network responds with a ROUTER ADVERTISEMENT.

Since the ROUTER SOLICITATION message contains the interface identifier as assigned via NAS signalling, even in the case of multiple PDNs it can distinguished which PDN is concerned, as long as the interface identifiers are different for different PDNs (for UE side as well as for network side).

NOTE: According to TS 23.060 [43] clause 9.2.1.1 and RFC 3314 a real network (PDN-GW) itself shall send an (unsolicited) ROUTER ADVERTISEMENT after it has assigned the interface identifier.

Conclusions and Requirements:

In the case of broadcast or multicast messages TTCN needs additional information about the PDN being addressed.

When a socket connection is configured to allow broadcasts and there is a broadcast or multicast message in UL the SS shall provide information about on which bearer the datagram has been sent (RAT, cell, DRB id).

NOTE: From the socket programming point of view multiple PDNs for the SS are like a multi-homed host: Servers for different interfaces are bound to different interfaces (e.g. using the 'bind' system call with a specific IP address instead of IPADDR_ANY) or a server may retrieve the interface id for a received datagram from the IP stack with an appropriate system call.

Even though the details are implementation dependent, the SS shall be capable of:

determining RAT, cell, DRB id for any broadcast or multicast datagram in UL

avoiding any duplication of messages in UL even when multiple servers are listening to broadcast/multicast messages (what is a possible SS implementation)

4.2.4.6 IP Addresses Guidelines

4.2.4.6.1 Common Structure of IP Addresses

IPv4:

Network prefix (subnet address) n bits

Host part 32-n bits

with 'n' e.g. depending on the network class

IPv6:

Network prefix

Global routing prefix 64 - n bits

Subnet ID n bits

Interface ID 64 bits

Addresses within one network (PDN) have all the same subnet address (IPv4) or global routing prefix (IPv6)

NOTE: As a consequence at the system simulator, routing can be done based on appropriate network masks, but that is dependent on SS implementation and therefore is out of scope for this document.

4.2.4.6.2 Common Requirements regarding IP Addresses

IP addresses are configured via PIXIT parameters as defined in clause 9.1.

These PIXIT parameters shall fulfil the following requirements:

Network and UE addresses shall be different from each other

Network entities (DHCP server, DNS server, P-CSCF etc.) of a given PDN shall all have the same global routing prefix (IPv6) or subnet address (IPv4).

The IP address assigned to the UE shall have the same global routing prefix (IPv6) or subnet address (IPv4) as the corresponding network.

Requirements for IPv6: according to TS 23.401, cl. 5.3.1.2.2

The 64 bit network prefix of a UE's IPv6 address is unique

The UE may change its interface id during auto configuration

The UE must use the given interface id in the link local address for router solicitation but may use any other interface id in the global address

NOTE: As a consequence, the SS implementation needs to cope with the changing of the UE address and cannot rely on static IP address assignment to the UE.

Global routing prefix (IPv6) and subnet address (IPv4) shall be different for different PDNs

Home agent address:

The home agent is located in the UE's home network (which shall be considered to find an appropriate network prefix for the home agent's IP address)

In order to simplify implementations, the following rules shall be applied:

The IPv6 interface identifier as assigned to the UE via NAS signalling shall be unique, i.e.

It shall be different for different PDNs

It shall differ from the interface ids of the other entities on the link (in general the interface id of the PDN-GW)

Multiple PDNs shall have different IPv6 interface identifier for the PDN-GW

NOTE: Consistency checks for addresses of different PDNs can be done based on an appropriate network mask (IPv4, e.g. 255.255.255.0) and global routing prefix (IPv6, e.g. 2001:db8:1234::/48).

4.2.4.6.3 Network Entities and their IP addresses

In general and in accordance of IMS test cases in TS 36.523-1 [1] and TS 34.229-1 [40] the simulated network architecture can be illustrated as in Figure 4.2.4.6.3-1.

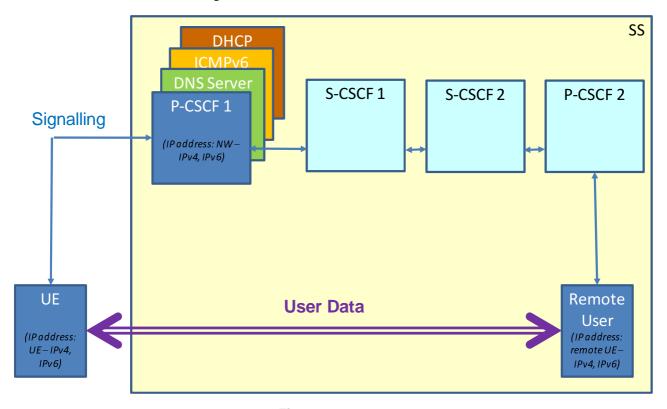


Figure 4.2.4.6.3-1:

For simplification and to keep the number of PIXITs small, several network entities share the same PIXIT:

px_IPv4_AddressXX_NW: P-CSCF 1 (IPv4 address), DNS Server (IPv4 address), DHCP Server

px_IPv6_AddressXX_NW: P-CSCF 1 (IPv6 address), DNS Server (IPv6 address), ICMPv6 Server ("XX" refers to the respective PDN)

In general , in test cases according to TS 36.523-1 [1] and TS 34.229-1 [40] no IP addresses are needed for S-CSCF 1, S-CSCF 2 or P-CSCF 2

4.2.4.7 User Plane Signalling for Address Allocation

For IPv4, the UE gets assigned the IP address via NAS signalling unless it explicitly requests to use DHCP.

For IPv6, the UE gets assigned a unique interface identifier to be used until it has successfully performed the auto-configuration procedure (Ref. to RFC 2462).

NOTE: This clause specifies behaviour of the SS (TTCN) to achieve successful IP signalling; but in general, IP signalling is out of scope for conformance tests as defined in TS 36.523-1 [1].

4.2.4.7.1 DHCP

When the UE supports IPv4 and does not get an IPv4 address via NAS signalling it will request the address via DHCP (Ref. to RFC2131).

The UE may send a **DHCPDISCOVER** with or without Rapid Commit Option (Ref. to RFC 4039):

UE sends **DHCPDISCOVER** according to table 4.2.4.7.1-1 with Rapid Commit Option.

TTCN sends **DHCPACK** according to table 4.2.4.7.1-4

UE sends **DHCPDISCOVER** according to table 4.2.4.7.1-1 without Rapid Commit Option.

TTCN sends **DHCPOFFER** according to table 4.2.4.7.1-2

When the Rapid Commit option is not used the UE sends a DHCPREQUEST as response to the DHCPOFFER:

UE sends **DHCPREQUEST** according to table 4.2.4.7.1-3

TTCN sends **DHCPACK** according to table 4.2.4.7.1-4

Any other DHCP messages shall be ignored by TTCN.

Table 4.2.4.7.1-1: DHCPDISCOVER

UDP		
SRC ADDR	0.0.0.0	any address
SRC Port	68	not checked
DEST ADDR	255.255.255.255	broadcast
DEST Port	67	
	DHCP	
ор	'01'O	BOOTREQUEST
htype	any value	
hlen	any value	
hops	any value	
xid	any value	
secs	any value	
flags	any value	
ciaddr	any value	0 according to RFC 2131 Table 5
yiaddr	any value	0 according to RFC 2131 Table 5
siaddr	any value	0 according to RFC 2131 Table 5
giaddr	any value	0 according to RFC 2131 Table 5
chaddr	any value	client's hardware address
sname	any value	(may be overloaded with further options)
file	any value	(may be overloaded with further options)
options		NOTE
magic cookie	'63825363'O	
message type	'01'O	DHCPDISCOVER
rapid commit	present	shortened address assignment by 2-
		message exchange acc. to RFC 4039
	not present	address assignment by 4-message
		exchange
NOTE: Any further options are not evaluated and ignored by TTCN		

Table 4.2.4.7.1-2: DHCPOFFER

	UDP	
SRC ADDR	valid server address	address as configured by PIXIT
SRC Port	67	
DEST ADDR	255.255.255.255	broadcast
DEST Port	68	
	DHCP	
ор	'02'O	BOOTREPLY
htype	as in corresponding DHCPDISCOVER	NOTE 1
hlen	as in corresponding DHCPDISCOVER	NOTE 1
hops	'00'O	NOTE 2
xid	as in corresponding DHCPDISCOVER	NOTE 2
secs	'0000'O	NOTE 2
flags	as in corresponding DHCPDISCOVER	NOTE 2
ciaddr	'00000000'O	NOTE 2
yiaddr	valid UE address	address to be assigned to the UE (as configured by PIXIT)
siaddr	0	the UE does not need to retrieve any operating system executable image
giaddr	as in corresponding DHCPDISCOVER	NOTE 2
chaddr	as in corresponding DHCPDISCOVER	NOTE 2
sname	'000000000000000O'O	
file	O'000000000000000000000000000000000000	
options		
magic cookie	'63825363'O	
message type	'02'O	DHCPOFFER
lease time	86400	one day; mandatory (NOTE 2)
server identifier	server address	server address as used in the UI header
OTE 1: To get any valid v OTE 2: According to table		

Table 4.2.4.7.1-3: DHCPREQUEST

UDP		
SRC ADDR	0.0.0.0	any address
SRC Port	68	not checked
DEST ADDR	255.255.255.255	broadcast
DEST Port	67	
	DHCP	
ор	'01'O	BOOTREQUEST
htype	any value	
hlen	any value	
hops	any value	
xid	any value	
secs	any value	
flags	any value	
ciaddr	any value	0 according to RFC 2131 Table 5
yiaddr	any value	0 according to RFC 2131 Table 5
siaddr	any value	0 according to RFC 2131 Table 5
giaddr	any value	0 according to RFC 2131 Table 5
chaddr	any value	client's hardware address
sname	any value	(may be overloaded with further options)
file	any value	(may be overloaded with further options)
options		NOTE
magic cookie	'63825363'O	
message type	'02'O	DHCPREQUEST
NOTE: Any further options are not evaluated and ignored by TTCN		

Table 4.2.4.7.1-4: DHCPACK

	UDP	
SRC ADDR	valid server address	address as configured by PIXIT
SRC Port	67	not checked
DEST ADDR	255.255.255.255	broadcast
DEST Port	68	
	DHCP	
ор	'02'O	BOOTREPLY
htype	'01'O	
hlen	as in corresponding DHCPREQUEST or DHCPDISCOVER	NOTE
hops	'00'O	NOTE
xid	as in corresponding DHCPREQUEST or DHCPDISCOVER	NOTE
secs	'0000'O	NOTE
flags	as in corresponding DHCPREQUEST or DHCPDISCOVER	NOTE
ciaddr	'00000000'O	NOTE
yiaddr	valid UE address	address to be assigned to the UE (as configured by PIXIT)
siaddr	0	the UE does not need to retrieve any operating system executable image
giaddr	as in corresponding DHCPREQUEST or DHCPDISCOVER	NOTE
chaddr	as in corresponding DHCPREQUEST or DHCPDISCOVER	NOTE
sname	'00000000000000'O	
file	(00000000000000000000000000000000)O	
options		
magic cookie	'63825363'O	
message type	'05'O	DHCPACK
lease time	86400	one day; mandatory (NOTE)
server identifier	server address	server address as used in the UDP header
NOTE: According to table 3 i	n RFC 2131	

4.2.4.7.2 DHCPv6

DHCPv6 is not needed for E-UTRA conformance tests as defined in 36.523-1[1]

4.2.4.7.3 ICMPv6

When the UE supports IPv6 it will perform IPv6 Stateless Address Auto configuration according to RFC 4862. The UE sends an **ICMPv6 Router Solicitation** message according to table 4.2.4.7.3-1; as response the TTCN sends an **ICMPv6 Router Advertisement** message according to table 4.2.4.7.3-2.

NOTE: The TTCN does not send any (periodic) unsolicited Router Advertisement, i.e. the UE is expected to ask for an immediate advertisement whenever it is needed.

Any other ICMPv6 messages are ignored by the TTCN (especially in accordance to TS 23.060, clause 9.2.1.1, the TTCN silently discards Neighbour Solicitation).

Table 4.2.4.7.3-1: ICMPv6 Router Solicitation

IPv6				
SRC ADDR	link local address	NOTE 1		
DEST ADDR	multicast address	NOTE 2		
ICMPv6 (Ref. to RFC 4861)				
type	133	Router Solicitation		
code	0			
checksum	not checked			
reserved	ignored			
options				
source link-layer address	ignored if present			
other options	ignored			

NOTE 1: The UE shall use the interface identifier as assigned via NAS signalling (but this is not checked in TTCN).

NOTE 2: TTCN detects the multicast address by checking it to start with FF02 but accepts any of these addresses.

Table 4.2.4.7.3-2: ICMPv6 Router Advertisement

	IPv6	
SRC ADDR	link local address (NW)	NOTE 1
DEST ADDR	link local address (UE)	NOTE 2
ICMPv6 (R	ef. to RFC 4861)	
type	134	Router Advertisement
code	0	
checksum	calculated by TTCN	
current hop limit	64	arbitrarily selected
m-flag	'0'B	no "Managed address configuration"; NOTE
o-flag	'0'B	no "Other configuration
reserved	'000000'B	
router lifetime	65535	max. value
reachable time	0	unspecified
retrains timer	0	unspecified
options		
source link-layer address	not present	
mtu	not present	
prefix information		
type	'03'O	
length	4	
prefix length	64	/64 IPv6 prefix acc. to TS 23.401
on-link flag	'0'B	no "On-link detection" NOTE 3
autonomous address configuration flag	'0'B	
reserved1	'000000'B	
valid lifetime	'FFFFFFF'O	infinity; NOTE 3
preferred lifetime	'FFFFFFF'O	infinity; NOTE 3
reserved2	'00000000'B	
prefix	globally unique /64 IPv6 prefix to be assigned to the UE	NOTE 4, 5

NOTE 1: The server's link local address is derived from the server's global IPV6 address (PIXIT parameter)

NOTE 2: As received as SRC address of the corresponding Router Solicitation

NOTE 3: Acc. to TS 29.062 clause 11.2.1.3.2

NOTE 4: The routing prefix of the UE's global IPv6 address is derived from the respective PIXIT parameter NOTE 5: Since the UE may change its interface identifier after successful auto configuration to any value in general the IPv6 address used by the UE differs from the PIXIT

4.2.4.7.4 DNS

In general DNS is not needed for E-UTRA conformance tests as defined in 36.523-1[1].

Nevertheless as the IP test model is also applicable for test suites other than 36.523-1[1] handling of certain DNS queries (according to RFC 1035 [58]) is supported over UDP:

Table 4.2.4.7.4-1: Supported DNS Queries

DNS Header				
id	any value	2 octets; id to be used in response		
qr	'0'B	query		
opcode	'0000'B	standard query		
aa	'?'B	Authoritative Answer: any value in query		
tc	'0'B	no truncation		
rd	'?'B	Recursion Desired: any value		
ra	'?'B	Recursion Available: any value in query		
Z	'000'B	must be '000'B according to RFC 1035 [58]		
rcode	'????'B	Response code: na for query		
qdcount	1	unsigned 16 bit integer: number of questions		
ancount	0	unsigned 16 bit integer: number of answers		
nscount	0	unsigned 16 bit integer: number of authority		
		records		
arcount	0	unsigned 16 bit integer: number of additional		
		records		
Questions				
DNS Question: only one qu	estion per query is supported			
qname	any value	octetstring with encoded domain name according		
		to RFC 1035 clause 4.1.2 [58]		
qtype	'0001'O or	Type A (IPv4 Address according to RFC 1035		
	'001C'O	clause 3.2.2 [58]) or Type AAAA (IPv6 Address		
		according to RFC 3596 clause 2.1 [59])		
qclass	'0001'O	IN (internet)		

Table 4.2.4.7.4-2: Corresponding DNS Responses

DNS Header					
id	same value as in				
	corresponding query				
qr	'1'B	response			
opcode	same value as in				
	corresponding query				
aa	'1'B	Authoritative Answer			
tc	'0'B	no truncation			
rd	'0'B	no recursion			
ra	'0'B	no recursion			
Z	'000'B				
rcode	'0000'B	no error			
qdcount	1	unsigned 16 bit integer: number of questions			
ancount	1	unsigned 16 bit integer: number of answers			
nscount	0	unsigned 16 bit integer: number of authority			
		records			
arcount	0	unsigned 16 bit integer: number of additional			
		records			
	Questions				
DNS Question	same value as in				
	corresponding query				
	Answers				
DNS Answer					
qname	same value as in				
	corresponding query/question				
qtype	same value as in				
	corresponding query/question				
qclass	'0001'O	IN (internet)			
ttl	86400	one day			
rdlength	4 for IPv4				
	16 for IPv6				
rdata	octetstring containing IPv4 or				
	IPv6 address				

4.2.4A LTE-Carrier Aggregation test Models

4.2.4A.1 CA-MAC test model

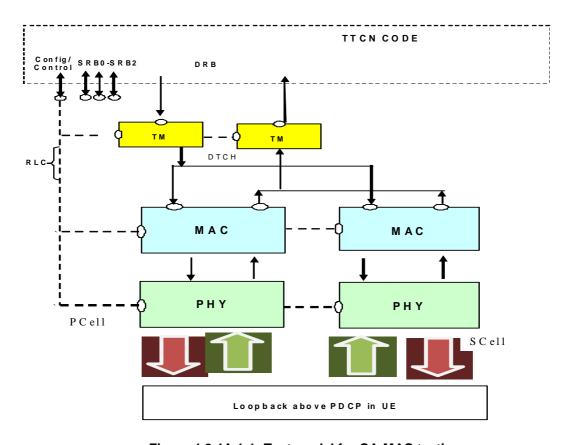


Figure 4.2.4A.1-1: Test model for CA-MAC testing

The UE is configured in Test Loop Mode, to loop back the user domain data above PDCP layer. On UE side Ciphering is enabled (since Mandatory) but with dummy ciphering algorithm, which is equivalent to not using ciphering. ROHC is not configured on UE Side.

On the SS Side,

Pcell only: On DRBs the RLC is configured in transparent mode. Hence with this configuration PDU's out of SS RLC are same as the SDU's in it. There is no PDCP configured on SS Side. The ports are directly above RLC.

Pcell/Scell: Layer 1 is configured in the normal way. MAC is configured in a special mode, where it does not add any MAC headers in DL and /or not remove any MAC headers in UL directions respectively at DRB port. In this case, the TTCN shall provide the final PDU, including padding. Except for this, the MAC layer shall perform all of its other functions. For SRB's/BCCH/PCCH the configuration is same as in CA-RRC test model.

There are two different test modes in which MAC header addition/removal can be configured:

DL/UL header-transparent mode: no header addition in DL and no header removal in UL.

DL only header-transparent mode: no header addition in DL; UL MAC is configured in normal mode to remove MAC header and dispatch the MAC SDUs according to the logical channel Ids.

If SS MAC is configured in DL/UL header-transparent mode, the PDU's exchanged at the DRB port between TTCN and SS, shall be the final MAC PDU's consisting of MAC, RLC and PDCP headers. TTCN code shall take care in DL of building MAC header, RLC headers and PDCP headers and in UL handle MAC, RLC and PDCP headers. TTCN code shall take care of maintaining sequence numbers and state variables for RLC and PDCP layers. During testing of multiple DRBs at the UE side, it shall still be possible to configure only one DRB on SS side with configuration in the figure 4.2.4A.1-1. Other DRBs will not be configured, to facilitate routing UL TBs. Multiplexing/de-multiplexing of

PDUs meant/from different DRBs shall be performed in TTCN. Since the MAC layer does not evaluate the MAC headers in UL it cannot distinguish between SRB and DRB data in UL. Therefore there shall be no SRB traffic while MAC is configured in this test mode.

If SS MAC is configured in DL only header-transparent mode, the UL PDUs exchanged at the DRB port between TTCN and SS, shall be final RLC PDUs consisting of RLC and PDCP headers. SS shall route these PDUs based on logical channel IDs. In DL, TTCN sends fully encoded MAC PDUs at the DRB port (consisting of MAC, RLC and PDCP headers). In this case TTCN needs to take care of maintaining sequence numbers and state variables for RLC and PDCP layers. Furthermore in UL and DL the SS MAC layer shall be capable of dealing with SRB data (i.e. it shall handle DL RLC PDUs coming from SRBs RLC layer or dispatch UL RLC PDUs to SRBs) as in normal mode.

NOTE: TTCN shall ensure that no DL MAC SDUs in normal mode and DL MAC PDUs in test mode are mixed for the same TTI.

The UL Scheduling Grant and DL Scheduling assignments are configured from TTCN over system control port. SS reports PUCCH scheduling information reception in Pcell over system indication port, if configured. In a similar way the reception of RACH preambles in Pcell/Scell is reported by SS over the same port, if configured.

The RACH Procedure configured in active Scell controls the RACH procedure in Scell. The PDCCH order is sent on PDCCH controlling the Scell. PRACH preamble is received in the Scell. RAR is transmitted in the associated Pcell as per RACH procedure in active Scell.

4.2.4A.2 CA-RRC test model

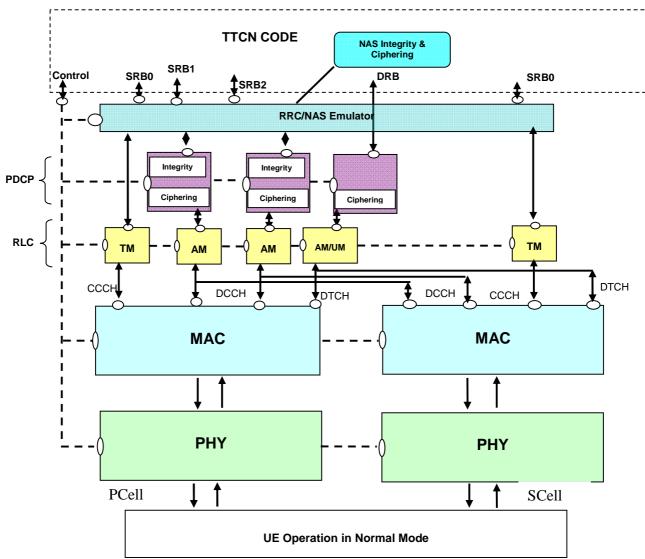


Figure 4.2.4A.2-1: Test model for CA-RRC testing

The UE is configured in normal mode. On UE side Ciphering/Integrity (PDCP and NAS) is enabled and ROHC is not configured.

On the SS Side L1 (Pcell/Scell), MAC (Pcell/Scell), RLC (Pcell) and PDCP (Pcell) are configured in normal way. They shall perform all of their functions. For SRB0 the DL and UL port is above RLC. For SRB1 and SRB2 the port is above/below the RRC and NAS emulator, which may be implemented as a parallel test component. For DRB, the port is above PDCP. PDCP Ciphering/Integrity is enabled. NAS integrity/Ciphering is enabled.

Note: RLC for BCCH/PCCH/CCH are configured per serving cell; RLC and PDCP for DCCH/DTCH are configured only in Pcell and are additionally multiplexed on MAC of associated Scells.

The RRC/NAS emulator for SRB1 and SRB2 shall provide the Ciphering and integrity functionality for the NAS messages. In UL direction, SS shall report RRC messages, still containing (where appropriate) the secure and encoded NAS message, to the RRC port. In DL, RRC and NAS messages with same timing information shall be embedded in one PDU after integrity and ciphering for NAS messages.

The UL Scheduling Grant and DL Scheduling assignments are configured from TTCN over system control port. SS reports PUCCH scheduling information reception in Pcell over system indication port, if configured. In a similar way the reception of RACH preambles in Pcell/Scell is reported by SS over the same port, if configured.

The RACH Procedure configured in active Scell controls the RACH procedure in Scell. The PDCCH order is sent on PDCCH controlling the Scell. PRACH preamble is received in the Scell. RAR is transmitted in the associated Pcell as per RACH procedure in active Scell.

4.2.5 IP model extension for IMS

The IMS test model is based on the IP Test Model with extensions to support IPsec. Support of Signalling Compression (SigComp) may be added in the future if needed.

IMS in general may use TCP, UDP or alternated TCP/UDP as transport layer for signalling messages.

At TTCN-3 system interface level there are no IMS specific ports or ASPs, i.e. IMS specific issues are purely handled in TTCN and therefore out of scope for this document.

NOTE: Even though the main intention to introduce the IMS test model is to support the initial IMS registration procedure, the IMS test model is independent of any specific IMS procedures.

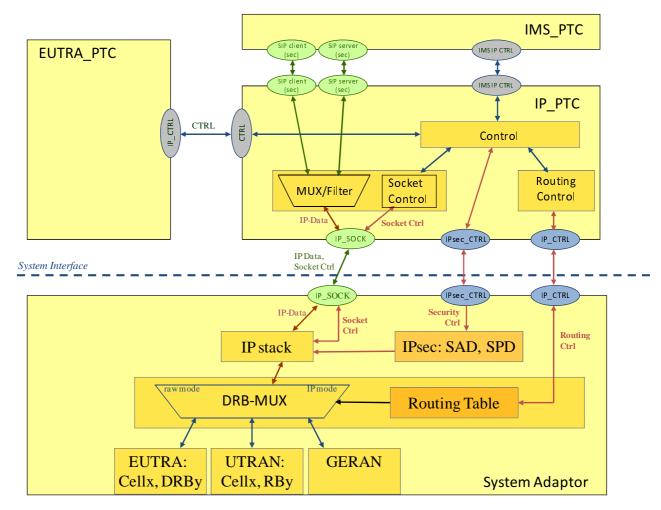


Figure 4.2.5-1: Example for IP model supporting IMS

NOTE 1: At the system interface IPsec is the only difference compared to the IP model of clause 4.2.4

NOTE 2: It is a working assumption to have a separate PTC for IMS as shown in figure 4.2.5-1

NOTE 3: Ports between the IP_PTC and the IMS_PTC are for illustration only

4.2.5.1 IPsec

IPsec involves security policy database (SPD) and security association database (SAD) (Ref. RFC4301). The entries in the databases are configured with security parameters by ASPs at the IPsec_CTRL port.

NOTE: IPsec is not directly associated to a given socket but IPsec is applied to IP packets matching a configured security association. \Rightarrow configuration of IPsec in general is independent of the existence of sockets but typically the IPsec configuration is done just before establishment of a corresponding socket.

The SS shall cleanup all IPsec database entries which has been setup by TTCN during a test case at the end of the test case independent of how the test case terminates (normal termination, run-time error etc.)

4.2.5.1.1 Security Association

NOTE: Within this clause SA is used as abbreviation of 'Security Association' (i.e. not as abbreviation for 'System Adaptor' as usual)

During the IMS signalling handling two pairs of SAs consisting of four unidirectional SAs will be used, one pair of SAs (SA2 and SA4) is between the server port of UE and the client port of the SS, another pair of SAs (SA1 and SA3) is between the client port of UE and the server port of the SS, see figure 4.2.5.2.3.1-1.

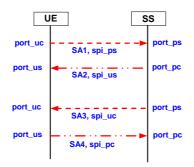


Figure 4.2.5.2.3.1-1 Two pairs of SAs

SA1 used for data flow from port_uc to port_ps is an inbound SA for protected server port of P-CSCF, its Security Parameter Index spi_ps is selected by P-CSCF (IMS Registration/Authentication function in IP_PTC) and presented in 401 Unauthorised; SA2 used for data flow from port_pc to port_us is an inbound SA for protected server port of UE, its Security Parameter Index spi_us is selected by UE and presented in initial REGISTER message; SA3 used for data flow from port_ps to port_uc is an inbound SA for protected client port of UE, its Security Parameter Index spi_uc is selected by UE and presented in initial REGISTER message; SA4 used for data flow from port_us to port_pc via an inbound SA for client port of P-CSCF, its Security Parameter Index spi_pc is selected by P-CSCF (IMS Registration/Authentication function in IP_PTC) and presented in 401 Unauthorised message. The pair of SA1 and SA3 is for bidirectional traffic between port_uc and port_ps. The pair of SA2 and SA4 is for bidirectional traffic between port_pc and port_us. Those four spi_xx and other security parameters are negotiated during security association set up procedure and shall be passed to IPsec protocol layer in the SS. See "SAD and SPD" and clause 7.2 of TS 33.203 [41].

These four unidirectional SA and relevant ports are shared by TCP and UDP. TCP transport will use all four SAs, UDP transport uses only two SAs, because there is no traffic from port_ps to port_uc, nor from port_us to port_pc. Figure 4.2.5.2.3.1-2 shows the usage of ports and SAs under UDP and TCP transport in a generic registration procedure (see clause C.2 of TS 34.229-1 [40]).

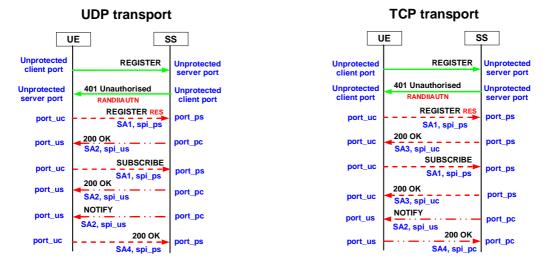


Figure 4.2.5.2.3.1-2: Usage of ports and SAs in UDP and TCP transport

4.2.5.1.2 SAD and SPD

SAD and SPD are used by IPsec to store various security parameters (per Security Association). During IMS AKA, the UE and the IMS Registration/Authentication function in IP_PTC negotiates the negotiable parameters for security association setup, this negotiation is carried out at the SIP level in TTCN-3, and the resulting security association parameters are maintained in TTCN-3. The involved parameters are:

```
spi_uc; spi_us; spi_pc; spi_ps
encryption algorithm
```

integrity algorithm

The IMS AKA will generate key IK_{IM} , the security parameters IK_{ESP} and CK_{ESP} are derived from IK_{IM} and CK_{IM} in TTCN-3 (Ref. Annex I of TS 33.203[41]). ASPs are used to pass these parameters (per security association and with its selectors) from TTCN-3 to SAD and SPD of IPsec layer in the SS.

The same IK_{ESP} and CK_{ESP} will be used for the four unidirectional SAs. All of the four unidirectional SAs will use the same negotiated encryption algorithm and integrity algorithm.

In addition to those negotiable security parameters, other security parameters are fixed in IMS environment (see clause 7.1 of TS 33.203 [41]):

Life type: second

SA duration: $2^{32}-1$

Mode: transport

IPsec protocol: ESP, ESP integrity applied

Key length: 192 bits for DES-EDES_CBC, 128 bits for AES-CBC and HMAC-MD5-96; 160 bits

for HMAC-SHA-1-96

These parameters are hard coded with IPsec implementation in the SS, not passed from TTCN-3.

An SA have to be bound to selectors (specific parameters) of the data flows between UE and P-CSCF (IMS Registration/Authentication function in IP_PTC), the selectors are:

source IP address

destination IP address

source port

destination port

transport protocols that share the SA

IP addresses bound to the two pairs of SAs are:

For inbound SAs at the P-CSCF (the SS side):

- The source and destination IP addresses associated with the SA are identical to those in the header of the IP packet in which the initial SIP REGISTER message was received by the P-CSCF.

For outbound SAs at the P-CSCF (the SS side):

- The source IP address bound to the outbound SA equals the destination IP address bound to the inbound SA; the destination IP address bound to the outbound SA equals the source IP address bound to the inbound SA.

Ports bound to the two pairs of SAs are depictured in figure 4.2.5.2.3.1-1, port_ps and port_pc shall be different from the default SIP ports 5060 and 5061. The number of the ports port_ps and port_pc are communicated to the UE during the security association setup procedure.

The transport protocol selector shall allow UDP and TCP.

The selectors are passed to the SS IPsec layer together with the security parameters related to an SA bound to the selectors.

4.2.5.2 Signalling Compression (SigComp)

Signalling compression is mandatory (see clause 8 of TS 24.229 [42]) and Signalling compression (RFC 3320 [43], RFC 3485 [44], RFC 3486 [45], RFC 4896 [46], RFC 5049 [47]) protocol is used for SIP compression. SigComp entity in the model is used to carry out the compression/decompression functions. In receiving direction of the SS the SigComp entity will detect whether the incoming SIP message is compressed, and decompress the message if it is compressed. In the SS transmitting direction, the TTCN, via ASP, controls when the compression of outgoing SIP message is started. Stateless compression is not used in the SIP environment. For state full operation of SigComp the

ASP passing compartment ID to SigComp is applied. The SS shall clean all states related to a connection in SigComp when an ASP for closing the connection is received. The SS shall also clean all states in the SigComp when abortion of a test case is detected or after the system reboots. If decompression failure occurs while decompressing a message, the message shall be discarded. The SigComp entity in the SS shall automatically find if a secure port or un-secure port is being used for transmission or reception of messages. If an un-secure port is used for transmission, it shall not include state creation instructions. If the state creation command is received in a compressed message on an un-secured port, a decompression failure shall be generated.

4.2.5.3 SIP TTCN-3 Codec

SIP is a text-based protocol, the messages exchanged between the UE and the SS are character strings. In TTCN-3 the messages are structured to take the advantages of TTCN-3 functionalities, and to make the debugging and maintenance easier.

Even though there is no encoding/decoding of SIP messages at the TTCN-3 system interface, the IMS_PTC uses the SIP codec by means of the TTCN-3 build-in functions encoulue and decoulue.

The SIP codec is specified in TS 34.229-3 [45] clause 7.

4.2.6 Support of DSMIPv6

For testing of DSMIPv6 IP packets being relevant for the test cases may be routed by the IP_PTC to the PTCs with specific test case implementation. There are not specific requirements for the system interface.

The functions of HA and ePDG are FFS.

4.2.7 MBMS test model

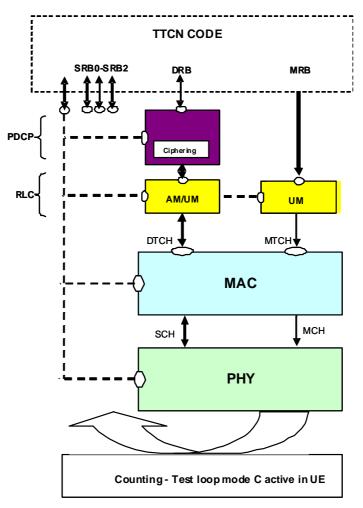


Figure 4.2.7-1: Test model for MBMS testing

The UE is configured in Test Loop Mode C to count the successfully received MBMS Packets. On the UE side, Ciphering/Integrity (PDCP and NAS) are enabled on SRBs/DRB. No security is configured on MCCH/MTCH.

On the SS side, the cell is configured as a normal cell, the MBMS parameters are configured by using an additional call of SYSTEM_CTRL_REQ. L1, MAC and RLC are configured for MCCH/MTCH in normal mode; they shall perform all of their functions. The MRB ports are above RLC. For MTCH data transmission, the SS shall set the MCH Scheduling Information (MSI) in the MAC PDU in the first subframe allocated to the MCH within the MCH scheduling period to indicate the position of each MTCH and unused subframes on the MCH according to TS 36.321[16] clause 6.1.3.7 The SS will be explicitly configured by the TTCN for MSI MAC control element. SS shall repeat the same configured MSI in the first subframe allocated to the MCH within each new MCH scheduling period.

The MRB data is considered as raw data and is scheduled with explicit timing control information from TTCN on MTCH.

4.3 SAE Test Model

4.3.1 NAS Test Model

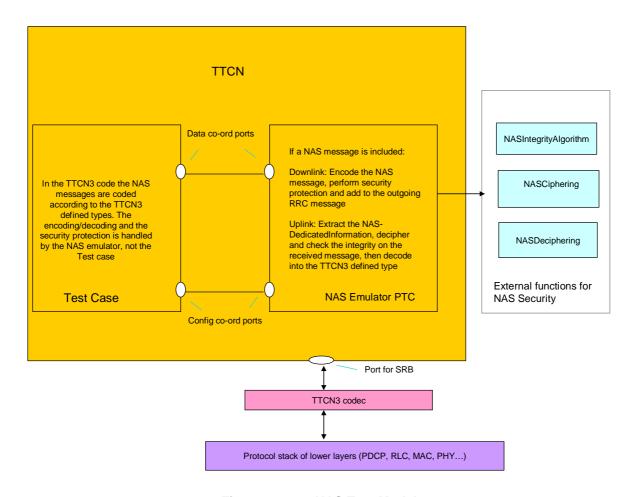


Figure 4.3.1-1: NAS Test Model

The NAS emulator is a parallel test component which handles NAS security, with the help of external functions to perform the integrity and (de)ciphering.

The interface between the emulator and the TTCN (co-ordination messages) handle data as TTCN-3 values. The interface between the emulator and the SS handles the RRC messages as TTCN-3 values, containing (where applicable) secure, encoded NAS messages.

The NAS emulator is not part of the test case in terms of verdict assignment (i.e. it does not check the correctness of any protocol message). Nevertheless, in case of fatal errors such as encode/decode errors, the NAS emulator sets the verdict to inconclusive and terminates immediately - which causes the test case to terminate. I.e. the NAS emulator does not resolve error situations.

4.4 Inter RAT Test Model

4.4.1 E-UTRAN-UTRAN Inter RAT Test Model

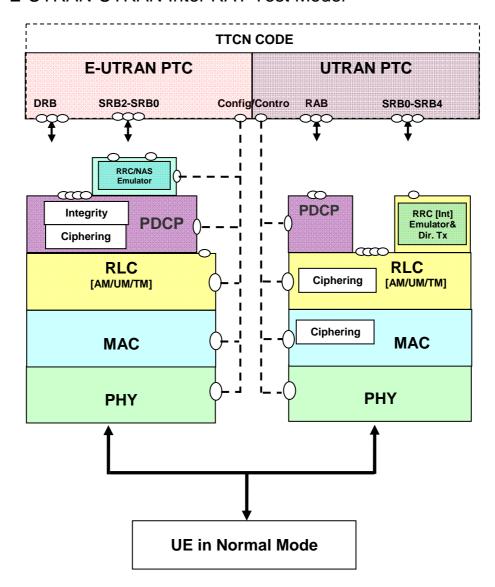


Figure 4.4.1-1: Test model for Inter RAT E-UTRAN-UTRAN testing

The model consists of dual protocol stack one for E-UTRAN and one for UTRAN. The TTCN implementation for E-UTRAN and UTRAN functionalities will be in separate Parallel Test Components. The SS E-UTRAN part is same as the model defined in clause 4.2.2 for RRC testing.

The SS UTRAN part consisting of PHY, MAC, RLC and PDCP (optionally) (IF PS user RB established only), are configured in normal mode. They shall perform all of their functions normally. Ciphering is enabled and shall be performed in RLC (AM/UM) and MAC (TM RLC). Integrity is enabled, and SS shall provide RRC emulator for integrity protection calculation and checking and 'Direct transfer' adaptation. Ports are above RLC (CS RAB and SRB0), PDCP (PS RAB) and RRC Emulator (SRB1 to SRB4).

The UE is configured in normal mode. Ciphering/Integrity (PDCP and NAS) are enabled and ROHC is not configured in E-UTRAN. Ciphering is enabled in UTRAN.

4.4.1.1 User data over UTRAN

User data transferred over UTRAN is distinguished between:

Raw user data (raw mode),

IP data (IP mode).

Depending upon whether the user data is relevant for the purpose of test, several scenarios are listed:

Raw user data relevant for the purpose of test,

IP data relevant for the purpose of test,

IP data, considered as IP signalling, not directly relevant for the purpose of test.

4.4.1.1.1 Raw user data over UTRAN

The raw user data can be as RLC SDUs and PDCP SDUs. The DL and UL user data are routed to UTRAN_PTC (Fig. 4.4.1.1.2-1). The IP stack in SS is not involved for all raw user data applications.

RLC SDUs is applied if the test loop mode 1 with loopback of RLC SDUs in TS 34.109 [9] is activated. PDCP in SS is not configured in this case; the DL and UL user data are routed to UTRAN_PTC via the RLC port.

The raw user data as PDCP SDUs is applied in the following cases:

the test loop mode 4 (TS 34.109 [9]) is activated,

the test loop mode 1 is activated with loopback of PDCP SDUs (TS 34.109 [9]),

the test loop mode B (TS 36.509 [4]) is activated and raw data is looped back on UTRAN,

IP raw data is another type of raw user data. The test loop mode is not activated. This case is applied when sending uplink data is triggered by the upper tester.

PDCP and optional RoHC are configured in SS, the DL and UL user data are routed to UTRAN_PTC via the PDCP port.

Feeding raw user data is largely used in the pure UTRAN test in TS 34.123-3 [7].

4.4.1.1.2 IP data over UTRAN

The IP data over UTRAN is applied to E-UTRA-UTRAN I-RAT and UTRAN test cases. The IP stack in SS is involved. IP data is considered as:

IP packets data (IP mode) relevant for the purpose of test,

IP signalling (IP mode), to be handled in TTCN at IP Layer

One of the IP signalling handling is the stateless address auto configuration for IPv6, illustrated in Fig. 4.4.1.1.2-1.

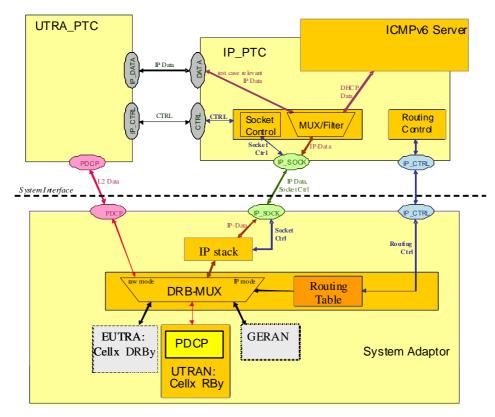


Figure 4.4.1.1.2-1: UTRAN IP test model with an ICMPv6 server

4.4.1.1.3 Routing IP data

The routing of user data is the function of DRB-Mux and controlled by a routing table.

If there is no entry in the routing table for a given RB, it is considered being in raw mode, raw user data is routed to or from the UTRAN PDCP port.

If there is an entry in the routing table for a given RB, it is considered being in IP mode, IP data is routed to or from the IP stack.

For EUTRA-UTRAN or UTRAN test, the routing entry parameters in the DRB-Mux's routing table are specified as (RAT=Utran, cell-id=-1, RB id). SS PDCP entity does not belong to a particular cell; the cellId shall be assigned to the value -1. Consequently, the UTRAN cell id provided in DRB-Mux is set to cell-id=-1.

IP protocol information of IP data (protocol, local IP address, local port, remote IP address, and remote port) is also provided in the routing table. More information can be found in 4.2.4.

4.4.2 E-UTRAN-GERAN Inter RAT Test Model

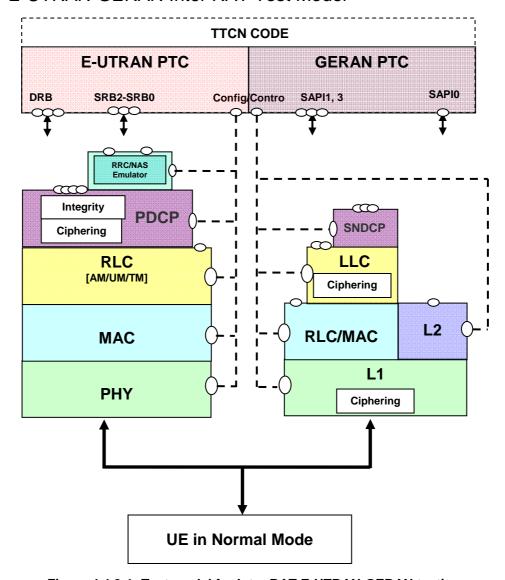


Figure 4.4.2-1: Test model for Inter RAT E-UTRAN-GERAN testing

The model consists of dual protocol stack one for E-UTRAN and one for GERAN. The TTCN implementation for E-UTRAN and GERAN functionalities will be in separate Parallel Test Components. The SS E-UTRAN part is the same as the model defined in clause 4.2.2 for RRC testing.

The SS GERAN model for GPRS consists of L1, MAC/ RLC and LLC, configured in normal mode. SNDCP may also be configured. If SNDCP is configured, this shall reference the LL Entity by the LLMEId. They shall perform all of their functions normally. Ciphering is enabled and shall be performed in LLC. XIDs shall be sent/received by the TTCN and the TTCN will then send the XID information to the SS using the G_CLLC_XID_Config_REQ ASP. Ports are above RLC (GRR messages), LLC (NAS and Data) and SNDCP (User Data).

The SS GERAN model for GSM consists of L1, L2 (MAC/ RLC), configured in normal mode. They shall perform all of their functions normally. Ciphering is enabled and shall be performed in L1. Ports are above L2.

The UE is configured in normal mode. Ciphering/Integrity (PDCP and NAS) are enabled and ROHC is not configured in E-UTRAN. Ciphering is enabled in GERAN.

4.4.2.1 User data over GERAN

User data transferred over GERAN is distinguished between:

Raw user data (raw mode),

IP data (IP mode).

Depending upon whether the user data is relevant for the purpose of test, several scenarios are listed:

Raw user data relevant for the purpose of test,

IP data relevant for the purpose of test,

IP data, considered as IP signalling, not directly relevant for the purpose of test.

4.4.2.1.1 Raw user data over GERAN

The raw user data can be as RLC blocks and SNDCP SDUs. The DL and UL user data are routed to GERAN PTC (Fig. 4.4.2.1.2-1). The IP stack in the SS is not involved for all raw user data applications.

RLC blocks are applied if testloop mode B (TS 36.509 [4]) is activated and raw data is looped back on GERAN.

IP raw data is another type of raw data. The testloop mode is not activated. This case is applied when sending uplink data is triggered by the upper tester.

SNDCP and optionally RoHC are configured in the SS, DL and UL user data are routed to GERAN_PTC via the SNDCP port.

4.4.2.1.2 IP data over GERAN

The IP data over GERAN is applied to EUTRA – GERAN I-RAT test cases. The IP stack in the SS is involved. IP data is considered as:

- IP packets data (IP mode) relevant for the purpose of the test,
- IP signalling (IP mode), to be handled in the TTCN at IP layer.

One of the IP signalling handling is the stateless address auto configuration for IPv6, illustrated in Figure 4.4.2.1.2-1.

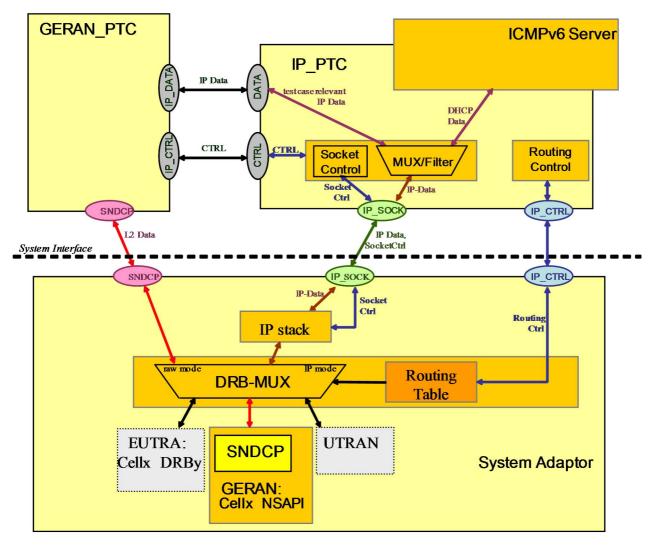


Figure 4.4.2.1.2-1: GERAN IP test model with an ICMPv6 server

4.4.2.1.3 Routing IP data

The routing of user data is the function of the DRB-Mux and is controlled by a routing table.

If there is no entry in the routing table for a given NSAPI, it is considered to be in raw mode, raw user data is routed to or from the GERAN SNDCP port.

If there is an entry in the routing table for a given NSAPI, it is considered to be in IP mode, IP data is routed to or from the IP stack.

For EUTRA-GERAN, the routing entry parameters in the DRB-Mux's routing table are specified as (RAT = GERAN, cell-id, NSAPI). IP protocol information of IP data (protocol, local IP address, local port, remote IP address, and remote port) is also provided in the routing table. More information can be found in clause 4.2.4.

4.4.3 E-UTRAN-CDMA2000 Inter RAT Test Model

4.4.3.1 E-UTRAN-CDMA2000 HRPD Inter RAT Test Model

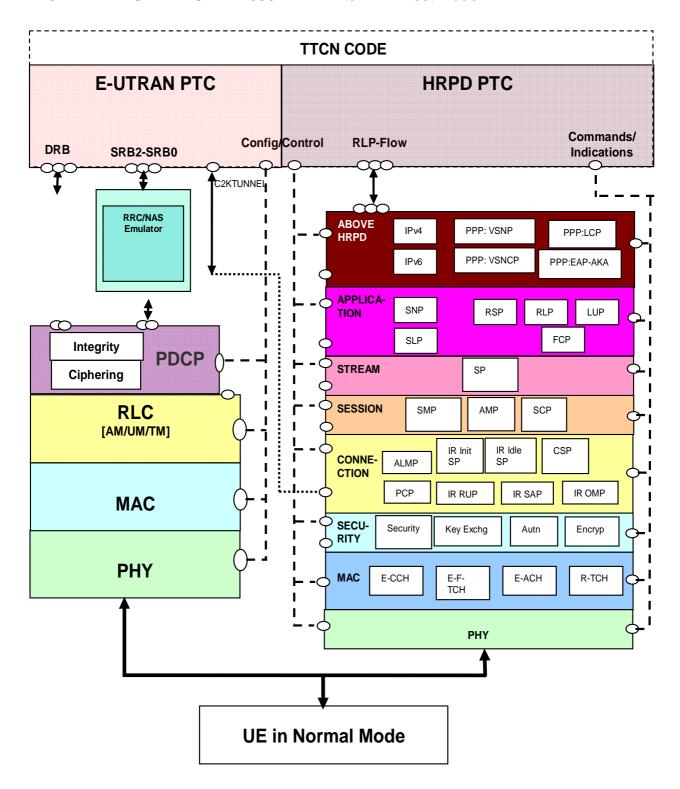


Figure 4.4.3-1: Test model for InterRAT E-UTRAN-CDMA2000 HRPD testing

The model consists of a dual protocol stack, one for E-UTRAN and one for eHRPD. The TTCN implementation for E-UTRAN and eHRPD functionalities will be in separate Parallel Test Components. The SS E-UTRAN part is same as the model defined in clause 4.2.2 for RRC testing.

The eHRPD part emulation in SS is considered as a black box. The commands/Indications port is used for commanding the SS to bring the UE into the desired state and monitoring the progress. The System commands and indications are designed with principle of having minimum command/indication per eHRPD procedure hence avoid racing conditions and timing issues. By default, the execution order of sub procedures (e.g. protocol negotiations) cannot be monitored by TTCN. The SS emulations shall be compliant with respective 3GPP/3GPP2 core specifications and guarantee execution order of respective eHRPD procedures as per relevant 3GPP/3GPP2 test/core specifications.

The C2KTUNNEL port is used for routing encapsulated

- 1. pre-registration messages (i.e. messages encapsulated in *ULInformationTransfer* and *DLInformationTransfer*) in the EUTRAN cell to the eHRPD and
- 2. handover related eHRPD messages (i.e. messages encapsulated in *HandoverFromEUTRAPreparationRequest/ULHandoverPreparationTransfer/MobilityFromEUTRACommand*).

The SS eHRPD part consists of Physical, MAC, Security, Connection, Session, Stream, Application and Layers for PPP and IP configured in normal mode. They shall perform all of their functions normally. Encryption may be enabled and performed in security layer.

The CDMA2000 eHRPD emulation in the SS supports the following layers and protocols:

- Physical layer (Subtype 2).
- MAC layer:
 - Enhanced (Subtype 0, Subtype 1) Control Channel MAC Protocol (ECH).
 - Enhanced (Subtype 1) Forward Traffic Channel MAC Protocol (E-F-TCH).
 - Enhanced (Subtype 1) Access Channel MAC Protocol (E-ACH).
 - Subtype 3 Reverse Traffic Channel MAC Protocol (R-TCH).
- Security Layer:
 - Default Security Protocol (Security).
- Connection Layer:
 - Default Air Link Management Protocol (ALMP).
 - Default Connected State Protocol (CSP).
 - Default Packet Consolidation Protocol (PCP).
 - Inter-RAT Signalling Adaptation Protocol (IR-SAP) (required only for optimized handover).
 - Inter-RAT Initialization State Protocol (IR-Init SP) (required only for optimized handover).
 - Inter-RAT Idle State Protocol (IR-Idle SP) (required only for optimized handover).
 - Inter-RAT Route Update Protocol (IR-RUP) (required only for optimized handover).
 - Inter-RAT Overhead Messages Protocol (IR-OMP) (required only for optimized handover).
- Session Layer:
 - Default Session Management Protocol (SMP).
 - Default Address Management Protocol (AMP).
 - Default Session Configuration Protocol (SCP).
- Stream Layer:
 - Default Stream Protocol (DSP).
- Application Layer:

- Default Signalling Application:
 - Signalling Network Protocol (SNP).
 - Signalling Link Protocol (SLP).
- Enhanced Multi-Flow Packet Application:
 - Route Selection Protocol (RSP).
 - Radio Link Protocol (RLP).
 - Location Update Protocol (LUP).
 - Flow Control Protocol (FCP).
- Alternate Enhanced Multi-Flow Packet Application (to be listed along with EMPA during SCP negotiation)
- Above eHRPD:
 - PPP: Vendor Specific Network Control Protocol (PPP:VSNCP).
 - PPP: Vendor Specific Network Protocol (PPP:VSNP).
 - PPP: Link Control Protocol (PPP:LCP).
 - PPP: Extensible Authentication protocol-Authentication and Key Agreement' (PPP:EAP-AKA').
 - IPv4.
 - IPv6.

During pre-registration phase, one cell per preRegistrationZoneID (ColorCode) to be simulated will be configured by TTCN with power level as 'off', or as specified by the test case. The SS will be issued System commands for pre-registration and expect the appropriate system indications.

The UE is configured in normal mode. Ciphering/Integrity (PDCP and NAS) are enabled and ROHC is not configured in E-UTRAN. Encryption is enabled in HRPD.

4.4.3.2 E-UTRAN-CDMA2000 1xRTT Inter RAT test model

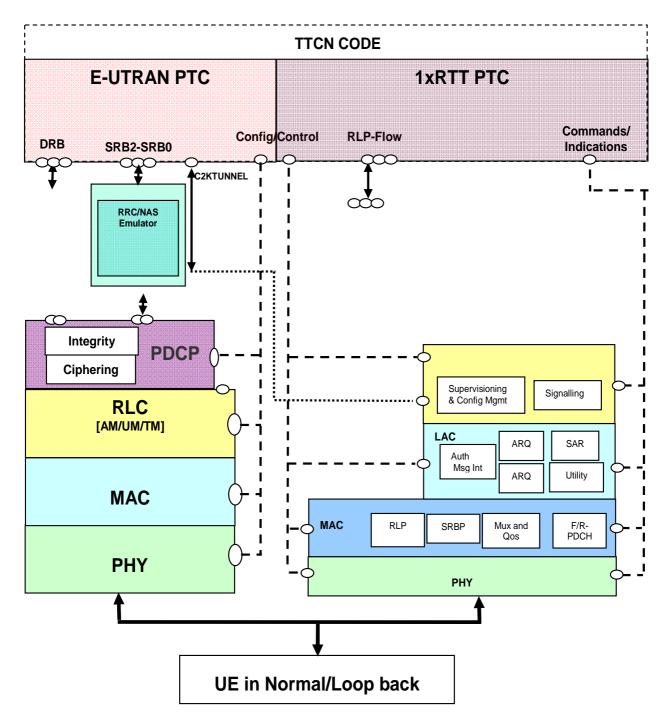


Figure 4.4.3.2-1: Test model for InterRAT E-UTRAN-CDMA2000 1xRTT testing

The 1xRTT test model consists of a dual protocol stack, one for E-UTRAN and one for 1xRTT. The TTCN implementation for E-UTRAN and 1xRTT functionalities are in separate Parallel Test Components. The SS E-UTRAN part is same as the model defined in clause 4.2.2 for RRC testing.

The 1xRTT part emulation in SS is considered as a black box. The commands/Indications port is used for commanding the SS to bring the UE into the desired state and monitoring the progress. The System commands and indications are designed with principle of having minimum command/indication per 1xRTT procedures hence avoid racing conditions and timing issues. By default, the execution order of sub procedures(e.g. protocol negotiations) cannot be monitored by TTCN. The SS emulations shall be compliant with respective 3GPP/3GPP2 core specifications and guarantee execution order of respective 1xRTT procedures as per relevant 3GPP/3GPP2 test/core specifications.

The C2KTUNNEL port is used for routing encapsulated

- 1. pre-registration messages (i.e. messages encapsulated in *CSFBParametersResponseCDMA2000*, *ULInformationTransfer* and *DLInformationTransfer*) in the EUTRAN cell to the 1xRTT and
- 2. handover, e-CSFB related 1xRTT messages (i.e. messages encapsulated in *HandoverFromEUTRAPreparationRequest/ ULHandoverPreparationTransfer/ MobilityFromEUTRACommand*).

The SS 1xRTT part consists of Physical, MAC, LAC, Session, Stream, Application and Layers for PPP and IP configured in normal mode. They shall perform all of their functions normally. Encryption may be enabled and performed in security layer.

The CDMA2000 1xRTT emulation in the SS supports the following layers and protocols:

- Physical layer.
- MAC layer:
 - Signalling Radio Burst protocol.
 - Radio Link Protocol for Data services.
 - Forward and Reverse Packet Data Channel functions.
 - Multiplexing and QoS Delivery.
- Link Access Control:
 - Authentication and Message Integrity sublayer [optional].
 - ARQ sublayer.
 - Addressing.
 - Utility.
 - Segmentation and Reassembly.
- Layer 3:
 - Super visioning and Configuration Management.
 - Signalling Protocol.

During pre-registration phase, one cell per preRegistrationZoneID (ColourCode) to be simulated will be configured by TTCN with power level as 'off', or as specified by the test case. The SS will be issued System commands for pre-registration and expect the appropriate system indications.

The UE is configured in normal mode or loop back mode. Ciphering/Integrity (PDCP and NAS) are enabled and ROHC is not configured in E-UTRAN. Encryption may be enabled in 1xRTT.

4.4.4 E-UTRAN FDD-TDD Inter RAT Test Model

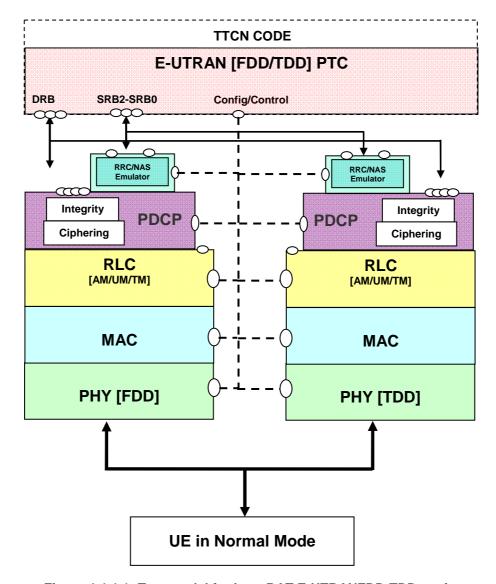


Figure 4.4.4-1: Test model for Inter RAT E-UTRANFDD-TDD testing

The model consists of dual protocol stack one for E-UTRANFDD and one for E-UTRANTDD. The TTCN implementation for E-UTRANFDD and TDD functionalities will be in the same Parallel Test Component. The SS E-UTRAN (both FDD and TDD) part is the same as the model defined in clause 4.2.2 for RRC testing. SS E-UTRANFDD and TDD shall be configured as separate cells.

The UE is configured in normal mode. Ciphering/Integrity (PDCP and NAS) are enabled and ROHC is not configured for both FDD and TDD.

4.4.5 E-UTRAN-UTRAN-GERAN Inter RAT Test Model

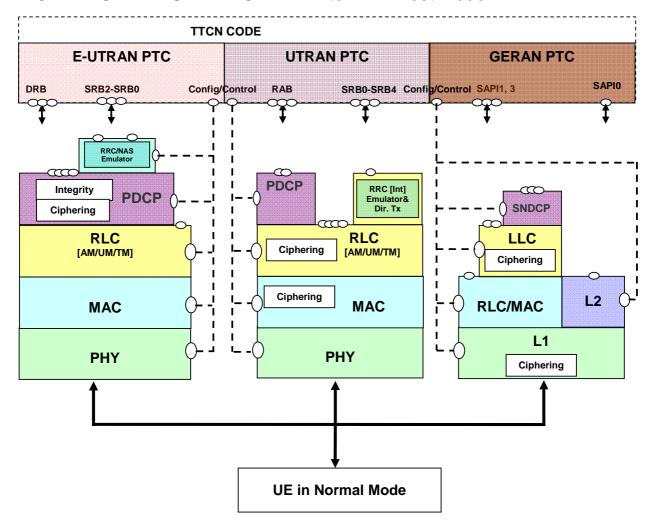


Figure 4.4.5-1: Test model for Inter RAT E-UTRANFDD-TDD testing

The model consists of integrated protocol stack supporting E-UTRAN, UTRAN and GERAN. The TTCN implementation for E-UTRAN, UTRAN and GERAN functionalities will be in separate Parallel Test Components. The SS E-UTRAN part is the same as the model defined in clause 4.2.2 for RRC testing. The SS UTRAN part is the same as the model defined in clause 4.4.1. The SS GERAN part is same as the model defined in clause 4.4.2.

The UE is configured in normal mode. Ciphering/Integrity (PDCP and NAS) are enabled and ROHC is not configured in E-UTRAN. Ciphering/Integrity are enabled in UTRAN. Ciphering is enabled in GERAN.

5 Upper Tester Interface

This clause describes the handling of AT commands and MMI Commands at the system interface. The internal handling of those commands in TTCN is out of scope.

In the TTCN, the Upper Tester is located at the MTC; therefore there is one interface to the system adaptor common for all RATs.

There is one primitive defined carrying either an MMI or an AT command to be sent to the system adaptor and one common confirmation primitive to be sent by the system adaptor.

	TTO	N-3 ASP	Definition	
Type Name	UT_SYSTEM_REQ			
TTCN-3 Type	Record			
Cmd		N-3 Type		union
AT			ing the AT command as de and TS 27.060 [33]	fined in TS 27.007 [32],
MMI		,	charstring) parameters: Name (charstring) Value (charstring)	
CnfRequired	TTC	N-3 Type	,	Ut_CnfReq_Type
	rece NO_ by th LOC confi MMI	ved from the CNF_REQ e UE AL_CNF_I rmation when the control of th	UIRED: SS shall swallow a REQUIRED: SS shall imme uen the command is submiti	ny confirmation generated
	confi eithe supp _MU	rmations. r by AT resorted by U LTIPLE. If nands with E: In the	IF: For one command, SS r SS shall only send a confirr sponse from UE; or in the ca E, then the subsequent MM the AT command is support postfix _MULTIPLE can be e TTCN, a confirmation sha s when there is no signallingered by the MMI/AT command	mation when triggered – ase AT command is not Il command with postfix rted by UE, then any MMI e ignored by SS. Ill only be requested in g from the UE being

	TTCN-3 ASP Definition			
Type Name	UT_COMMON_CN	UT_COMMON_CNF		
TTCN-3 Type	Record			
Result		TTCN-3 Type	boolean	
		true: success		
		false: failure		
ResultString		TTCN-3 Type	charstring	
	•	response by the UE for commands which r	equest the UE to return a	
		result, optional		

All mandatory and optional AT commands are sent as AT command strings as defined above. If an optional AT command is not implemented in the UE, the system adaptor needs to parse the AT command and map it to an appropriate MMI command (which is out of scope for this document). If required, the system adaptor then also needs to provide a response appropriately formatted as an AT string, as expected by the TTCN.

The following MMI commands are defined.

Table 5.1: MMI commands

0	Param	neters
Command	Name	Value
"SWITCH_ON"	(none)	
"SWITCH_OFF"	(no	ne)
"POWER_ON"	(no	ne)
"POWER_OFF"	(no	
"INSERT USIM"	"USIM"	<usim></usim>
"REMOVE_USIM"	(no	
"CHECK_PLMN"	"PLMN"	<plmn id=""></plmn>
"CHECK_ETWS_INDICATION"		<warning1></warning1>
"OUEOU ETWO ALEDT"		<warning2></warning2>
"CHECK_ETWS_ALERT"	(no	
"CHECK_ETWS_NO_ALERT"	(no	
"CHECK_CMAS_INDICATION"	"WARNING1"	<warning1></warning1>
		<warning2></warning2>
"CHECK_CMAS_ALERT"	(no	ne)
"CHECK_CMAS_NO_ALERT"	(no	ne)
"HRPD_PDN_CONNECTION"	(no	
"CHECK_MESSAGE_DISPLAYED"	"Length"	<length></length>
	"Msg"	<msg></msg>
"CHECK_SMS_LENGTH_CONTENT	"Length"	<length></length>
S"	"Msg"	<msg></msg>
"CONFIGURE_SMS_ONLY"	(no	ne)
"DISABLE EPS CAPABILITY"	(no	ne)
"DETACH_NON_EPS"	(no	
"CLEAR_STORED_ASSISTANCE_D	(no	ne)
ATA"	,	,
"CHECK_DTCH_THROUGHCONNEC TED"	(no	ne)
"GERAN_UPLINK_DATA"	(no	ne)
"SELECT_CSG"	"PLMN"	<plmn id=""></plmn>
	"CSG"	< CSG ID >
"TRIGGER_USER_RESELECTION"	(no	
"REQUEST_NON_CALL_RELATED_	(no	ne)
SS"		1
"MBMS_SERVICE_INTEREST"	"PLMN"	<plmn id=""></plmn>
	"Service"	<mbms service<="" td=""></mbms>
	"Interest"	ID> "ON" / "OFF"
	"SAI"	<mbms sai=""></mbms>
"MBMS_SERVICE_ACTIVE"	"Service"	<mbms service<="" td=""></mbms>
INDING_SERVICE_ACTIVE	Service	ID>
	"SAI"	<mbms sai=""></mbms>
	"Active"	"ON" / "OFF"
"MBMS_PRIORITY_OVER_UNICAST	"Priority Over	"FALSE" /
"	Unicast"	"TRUE"
"CHECK_ETWS_NO_INDICATION"	"WARNING1"	<warning1></warning1>
	"WARNING2"	<warning2></warning2>
"CHECK_CMAS_NO_INDICATION"	"WARNING1"	<warning1></warning1>
	"WARNING2"	<warning2></warning2>
"CHECK_CALL_DISPLAY"	"ToDisplay"	<name>/<num< td=""></num<></name>
		BER>
"CHECK_CSG"	"CSG"	< CSG ID >
	"Included"	"FALSE" /
"CHECK_NITZ_DST"	"Doylight Soying	"TRUE" DST
GHEGK_INITZ_DOT	"DaylightSaving Time: "	ופע
"CHECK NITZ FULL NETWORK N	"FullNetworkNa	<full< td=""></full<>
AME"	me: "	NETWORK
		NAME>
"CHECK_NITZ_LTZ"	"LocalTimeZone	<local< td=""></local<>
	:"	TIMEZONE>

"CHECK_NITZ_SHORT_NETWORK_	"ShortNetworkN	<short< th=""></short<>
NAME "	ame: "	NETWORK
		NAME>
"CHECK_NITZ_UT"	"Year:	<year></year>
	"Month: "	<month></month>
	"Day: "	<day></day>
	"Hour: "	<hour></hour>
	"Minutes: "	<minutes></minutes>
	"Seconds: "	<seconds></seconds>
	"TimeZone: "	<timezone></timezone>
"CHECK_RESPONSE_DISPLAY"	"ToDisplay"	<string></string>
"CHECK_SS_USER_IND"	"Supplementary	<supplemen< td=""></supplemen<>
	Service"	TARY
		SERVICE>
	"ToDisplay"	<string></string>
"CONFIGURE_OPERATIONMODE"	"OPERATION	<operation< td=""></operation<>
	MODE"	MODE>
"CMTLR_MULTIPLE" See Note	(noi	ne)
"CCFCU_MULTIPLE" See Note	(noi	ne)
"CNAP_MULTIPLE" See Note	(noi	ne)
"CTZR_MULTIPLE" See Note	(none)	
"CMWI_MULTIPLE" See Note	(noi	ne)

NOTE: These MMI commands are used in conjunction with the CnfRequired type MULTIPLE_CNF. They can be ignored if the UE supports the AT command which makes up the prefix of these commands.

The following AT commands are applied in TTCN.

Table 5.2: AT Commands

Command	Reference
ATD	TS 27.007 [32]
ATA	TS 27.007 [32]
ATH	TS 27.007 [32]
AT+CGEQOS	TS 27.007 [32]
AT+CGTFT	TS 27.007 [32]
AT+CGDSCONT	TS 27.007 [32]
AT+CGACT	TS 27.007 [32]
AT+CGCMOD	TS 27.007 [32]
AT+CGDCONT	TS 27.007 [32]
AT+CMGD	TS 27.005 [31]
AT+CSMS	TS 27.005 [31]
AT+CPMS	TS 27.005 [31]
AT+CMGF	TS 27.005 [31]
AT+CSCS	TS 27.007 [32]
AT+CSCA	TS 27.005 [31]
AT+CMGW	TS 27.005 [31]
AT+CMSS	TS 27.005 [31]
AT+CSMP	TS 27.005 [31]
AT+CGEQREQ	TS 27.007 [32]
AT+CCLK	TS 27.007 [32]
AT+COPS	TS 27.007 [32]
AT+CGATT	TS 27.007 [32]
AT+CEMODE	TS 27.007 [32]
AT+CEN	TS 27.007 [32]
AT+CLIP	TS 27.007 [32]
AT+CLIR	TS 27.007 [32]
AT+COLP	TS 27.007 [32]
AT+CCFCU	TS 27.007 [32]
AT+CHLD	TS 27.007 [32]
AT+CEPPI	TS 27.007 [32]
AT+CDU	TS 27.007 [32]
AT+CHCCS	TS 27.007 [32]
AT+COLR	TS 27.007 [32]
AT+CCWA	TS 27.007 [32]
AT+CNAP	TS 27.007 [32]
AT+CLCK	TS 27.007 [32]
AT+CPWD	TS 27.007 [32]
AT+CTZR	TS 27.007 [32]
AT+CUSD	TS 27.007 [32]
AT+CMWI	TS 27.007 [32]

AT commands are referred to TS 27.005 [31], TS 27.007 [32] and TS 27.060 [33].

The setting in TTCN of the AT command elements listed in Table 5-3 may require adaptation to the UE dependent interpretation of the element. It shall be handled by the system adaptor.

Table 5-3: AT commands elements

Element	Reference	TTCN Setting
<cid></cid>	TS 27.007 [32]	EPS Bearer Identity or PDP Context Identity

6 ASP specifications

6.1 General Requirements and Assumptions

The following common requirements affect ASP definitions:

- The definition of ASPs shall have no impact on the common system architecture or on the performance.

- The codec implementation is out of scope of the present document.
- For peer-to-peer PDUs contained in an ASP encoding rules need to be considered acc. to the respective protocol:
 - ASN.1 BER and PER.
 - Tabular notation for NAS PDUs or layer 2 data PDUs.

There are no encoding rules being defined for top level ASP definitions and information exchanged between the test executable and the System Adaptor (SA) only. Instead encoding depends on implementation of the codec and the SA.

There are no encoding rules being defined for ASPs between TTCN-3 components. This is implementation dependent.

Info elements defined in the protocol specifications (e.g. RRC) shall be re-used in configuration ASPs as far as possible.

For optional fields within the configuration ASPs, the following rules will be applied:

- For ASN.1 fields these will follow the same rules as defined in the RRC specification [19].
- For TTCN-3 fields when the current configuration of an optional field is to be 'kept as it is' then the field will be set to omit.
- For TTCN-3 fields when the current configuration of an optional field is to be released/deleted then a separate option is provided in a union.

6.1.1 IP ASP requirements

6.1.2 Enhancement of IP ASP for handling IMS signalling

The IMS test model handling registration signalling introduces IPsec and SigComp layers into the IP test model in Figure 4.2.5.2-1. The ASP on system port IP_SOCK needs to be enhanced to provide additional configuration/control functions for IPsec and SigComp. The enhanced IP ASP should contain:

- 1. Function to clean all IPsec and SigComp configurations and to put the IPsec and SigComp in the initial state.
- 2. Function to return SigComp layer a Compartment Id instructing SigComp layer to save the state of a received message which was compressed.
- 3. Function to start or stop signalling compression in sending direction (the SS to the UE) of SigComp.
- 4. Function to set security parameters (per security association) in IPsec layer.
- 5. A flag indicating whether SigComp layer shall be included in the data path when establishing a connection.
- 6. A flag indicating whether the received message was compressed by SigComp.
- 7. A parameter to point to a compartment used by SigComp to send a message.

6.2 E-UTRAN ASP Definitions

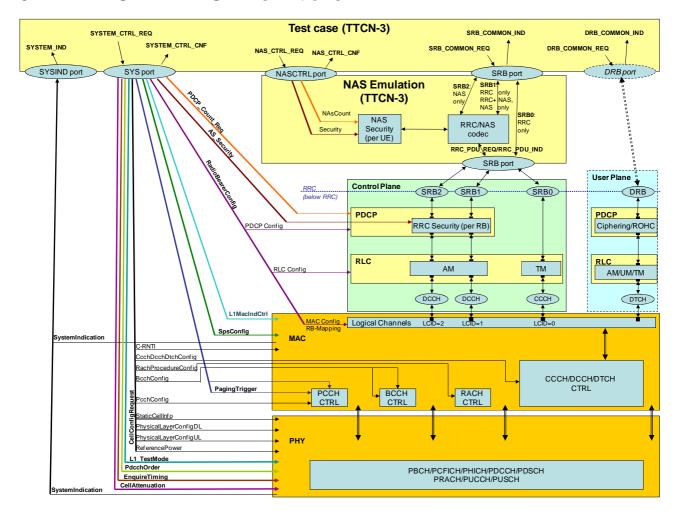


Figure 6.2-1: E-UTRAN ASP Test Model

6.2.1 Configuration Primitives

Annex D contains the ASP definitions for configurations.

6.2.2 Signalling Primitives

Annex D contains the ASP definitions for configurations.

6.2.3 Co-ordination Messages between NAS Emulation PTC and EUTRA PTC

TTCN-3 ASP Definition			
Type Name	SRB_COMMON_I	REQ	
TTCN-3 Type	Record		
Common Part		TTCN-3 Type	record
CellId		cell id	
RoutingInfo		SRB0, SRB1, SRB2	
TimingInfo		system frame number and sub-frame num	nber or "Now"
ControlInfo		CnfFlag: (normally false)	
		FollowOnFlag:	
		true: Indicates that the message(s) to be	sent on the same TTI will
		follow	
		NOTE 1: If the same TimingInfo is not us	
		sent on the same TTI, the SS s	shall produce an error.
0' " 7 '		false: Indicates that no more message(s)	
Signalling Part		TTCN-3 Type	record
Rrc		TTCN-3 Type	union
		omit:	1 111 41
		NAS message shall be present; NAS mes	ssage shall be sent in
		DLInformationTransfer	
		present, NAS message present: (piggybacked) NAS PDU shall be security	, protected (if passessm) and
		inserted in RRC PDU's NAS_DedicatedIr	
		present, NAS message omit:	lioimation
	(RRC message does not contain NAS information)		ormation)
Ccch		DL_CCCH_Message as define in TS 36.3	
Dcch		DL_DCCH_Message as define in TS 36.3	
Nas		TTCN-3 Type	record
1140		omit:	record
		RRC message shall be present; RRC me	ssage does not contain
		(piggybacked) NAS PDU	
		present, RRC message omit:	
		NAS message shall be sent embedded in DLInformationTransfer	
		present, RRC message present:	
		NAS message is piggybacked in RRC me	essage
		NOTE 2: In case of RRC message being	
		have IE NAS_DedicatedInform	ation NAS message shall be
		omitted.	
SecurityProte		security status (if protected with integrity	
NAS messag	је	union of all NAS messages define for DL	except SECURITY
		PROTECTED NAS MESSAGE	

TTCN-3 ASP Definition			
Type Name	SRB_COMMON_	IND	
TTCN-3 Type	Record		
Common Part		TTCN-3 Type	record
CellId		cell id	
RoutingInfo		SRB0, SRB1, SRB2	
TimingInfo		system frame number; sub-frame number wh	nen PDU has been received
Signalling Part		TTCN-3 Type record	
Rrc		TTCN-3 Type	union
		omit: NAS message shall be present; NAS message ULInformationTransfer present, NAS message present: NAS_DedicatedInformation contains unstructured to NAS PDU and the NAS message of message in structured format present, NAS message omit: (RRC message does not contain NAS informat)	tured and security contains the deciphered
Ccch		UL_CCCH_Message as define in TS 36.331	[19], clause 6.2.1
Dcch		UL_DCCH_Message as define in TS 36.331	[19], clause 6.2.1

TTCN-3 ASP Definition			
Nas	TTCN-3 Type	record	
	omit RRC message shall be present; RRC message does not contain (piggybacked) NAS PDU present, RRC message omit NAS message has been received in ULInformationTransfer present, RRC message present NAS message is piggybacked in RRC message		
SecurityProtectionInfo	security status (if protected with integrity and/or ciphering, if at all), nas count		
NAS message	message union of all NAS messages define for UL except SECURITY PROTECTED NAS MESSAGE		

		TTCN-3 ASP Definition			
Type Name	NAS_CTRL	_REQ			
TTCN-3 Type	Record				
Common Part		TTCN-3 Type	record		
CellId		cell id			
RoutingInfo		(not used for configuration)			
TimingInfo		current system frame numbe	r; sub-frame number		
		(always provided by the SS)	(always provided by the SS)		
Result		Success or error			
		(in case of error an SS specif	ic error code shall be provided; this will not		
		be evaluated by TTCN but m	be evaluated by TTCN but may be useful for validation)		
Primitive specifi	ic Part	TTCN-3 Type	union		
Security		Start/Restart			
		Integrity			
		Ciphering			
		NasCountReset			
		Release			
NAS Count		get			
		set			

	TTCN-3 ASP Definition			
Type Name	NAS_CTRL_0	CNF		
TTCN-3 Type	Record			
Common Part		TTCN-3 Type	record	
CellId		cell id		
RoutingInfo		(not used for configuration)		
TimingInfo		current system frame number; sub-frame number	er	
		(always provided by the SS)		
Result				
(in case of error an SS specific error code shall be provided; this will				
		evaluated by TTCN but may be useful for validate	tion)	
Primitive specific I	Part	TTCN-3 Type	union	
Security		(contains no further information)		
NAS Count		get		
		set		

6.3 UTRAN ASP Definitions

The UTRAN ASP definitions are specified according to 3GPP TS 34.123 [7], clause 6A.3.

6.3.1 Void

6.3.2 ASPs for Data Transmission and Reception

TTCN-3 ASP Definition			
Type Name	U_RLC_AM_REQ		
TTCN-3 Type	union		
Port	UTRAN_AM		
RLC_AM_DATA_REQ			TS 34.123-3, clause 7.3.2.2.34
RLC_AM_TestDataReq			TS 34.123-3, clause 7.3.3.1

		TTCN-3 ASP Definition
Type Name	U_RLC_AM_IND	
TTCN-3 Type	union	
Port	UTRAN_AM	
RLC_AM_DATA_CNF		TS 34.123-3, clause 7.3.2.2.34
RLC_AM_DATA_IND		TS 34.123-3, clause 7.3.2.2.34
RLC AM TestDataInd		TS 34.123-3, clause 7.3.3.1

TTCN-3 ASP Definition	Port	Defined in
UTRAN_RLC_AM_REQ	UTRAN_AM	TS 34.123-3, clause 7.3.2.2.34
UTRAN_RLC_AM_IND	UTRAN_AM	TS 34.123-3, clause 7.3.2.2.34
UTRAN_RLC_TR_REQ	UTRAN_TM	TS 34.123-3, clause 7.3.2.2.33
UTRAN_RLC_TR_IND	UTRAN_TM	TS 34.123-3, clause 7.3.2.2.33
UTRAN_RLC_UM_REQ	UTRAN_UM	TS 34.123-3, clause 7.3.2.2.35
UTRAN_RLC_UM_IND	UTRAN_UM	TS 34.123-3, clause 7.3.2.2.35
RRC_DataReq	UTRAN_Dc	TS 34.123-3, clause 7.1.2
RRC_DataReqInd	UTRAN_Dc	TS 34.123-3, clause 7.1.2

The $Invalid_DL_DCCH_Message$ type is replaced with:

Type Name	Invalid_DL_DCCH_Message
TTCN-3 Type	NULL

6.4 GERAN ASP Definitions

6.4.1 ASPs for Control Primitive Transmission

	TTCN-3 AS	SP Definition
Type Name	GCPHY_CONFIG_REQ	
TTCN-3 Type	Union	
Port	GERAN_CL1	
G_CL1_CreateCell_I	REQ	TS 34.123-3, clause 7.3.4.3.2.1
G_CL1_DeleteCell_F	REQ	TS 34.123-3, clause 7.3.4.3.2.1
G_CL1_CreateBasic	PhyCh_REQ	TS 34.123-3, clause 7.3.4.3.2.1
G_CL1_CreateMultiS		TS 34.123-3, clause 7.3.4.3.2.1
G_CL1_DeleteChann	nel_REQ	TS 34.123-3, clause 7.3.4.3.2.1
G_CL1_ChangePow	erLevel_REQ	TS 34.123-3, clause 7.3.4.3.2.1
G_CL1_CipheringCo	ntrol_REQ	TS 34.123-3, clause 7.3.4.3.2.1
G_CL1_CipherMode	Modify_REQ	TS 34.123-3, clause 7.3.4.3.2.1
G_CL1_ChModeMod	dify_REQ	TS 34.123-3, clause 7.3.4.3.2.1
G_CL1_ComingFN_I	REQ	TS 34.123-3, clause 7.3.4.3.2.1
G_CL2_HoldPhyInfo	_REQ	TS 34.123-3, clause 7.3.4.3.2.2
G_CL1_L1Header_R	REQ	TS 34.123-3, clause 7.3.4.3.2.1
G_CL2_MeasRptCor	ntrol_REQ	TS 34.123-3, clause 7.3.4.3.2.2
G_CL2_NoUAforSAE		TS 34.123-3, clause 7.3.4.3.2.2
G_CL2_ResumeUAf	orSABM_REQ	TS 34.123-3, clause 7.3.4.3.2.2
G_CL2_Release_RE	EQ	TS 34.123-3, clause 7.3.4.3.2.2
G_CL1_SetNewKey_	REQ	TS 34.123-3, clause 7.3.4.3.2.1

	TTCN-3 A	SP Definition
Type Name	G_CPHY_CONFIG_CNF	
TTCN-3 Type	Union	
Port	GERAN_CL1	
ComingFN		RFN
L1Header		L1Header
None		This choice used when neither of the other choices are
		selected

	TTCN-3	ASP Definition
Type Name	G_CRLC_CONFIG_REQ	
TTCN-3 Type	Union	
Port	GERAN_CRLC	
G_CRLC_CreateRL0	C_MAC_REQ	TS 34.123-3, clause 7.3.4.3.2.3
G_CRLC_DeleteRLC	C_MAC_REQ	TS 34.123-3, clause 7.3.4.3.2.3
G_CRLC_DL_TBF_0	Config_REQ	TS 34.123-3, clause 7.3.4.3.2.3
G_CRLC_UL_TBF_0	Config_REQ	TS 34.123-3, clause 7.3.4.3.2.3

TTCN-3 ASP Definition		
Type Name	G_CRLC_CONFIG CNF	
TTCN-3 Type	empty record	
Port	GERAN_CRLC	

	TTCN-3	ASP Definition
Type Name	G_CLLC_CONFIG_REQ	
TTCN-3 Type	Union	
Port	GERAN_CLLC	
G_CLLC_Assign_RI	EQ	TS 34.123-3, clause 7.3.4.3.2.4
G_CLLC_Reassign_	REQ	TS 34.123-3, clause 7.3.4.3.2.4
G_CLLC_CreateLLE	_REQ	TS 34.123-3, clause 7.3.4.3.2.4
G_CLLC_DeleteLLE	_REQ	TS 34.123-3, clause 7.3.4.3.2.4

	TTCN-3 ASP Definition
Type Name	G_CLLC_CONFIG_CNF
TTCN-3 Type	empty record
Port	GERAN CLLC

ASP Name G	_CSNDCP_Activate_REQ			
PCO Type G	_CSAP			
Comments Th	e ASP is used to activate the	SP is used to activate the SNDCP entity		
Parameter Nam	e Parameter Type	Comments		
sNDCPId	SNDCPId	The SNDCP entity identifier of the cell		
ILMEId	LLMEId	Logical link management entity Id		
nSAPI	integer	The Network Service Access Point Identifier		
sAPI	SAPI	LLC SAPI		
PCI_Compression	INTEGER	0 - RFC 1144 [54] compress; 1 - RFC 2507 [55] compression; 32 - no compression		
dataCompression	INTEGER	0 - ITU-T Recommendation V.42bis [56] compression; 1 - ITU-T Recommendation V.44 [57] compression; 32 - no compression		
nPDUNumberSync	INTEGER	0 - Asynchronous 1 - Synchronous		
Detailed Commer	nts			

ASP Name	G_CSNDCP_Ad	ctivate_CNF	
PCO Type	G_CSAP		
Comments	The ASP is used	d to get the confirmation of a G_CSN	NDCP_Activate_REQ
Paramet	er Name	Parameter Type	Comments
sNDCPId			
SINDOLIU		SNDCPId	SNDCPentity identifier
nSAPI		SNDCPId NSAPI	SNDCPentity identifier The Network Service Access Point Identifier

ASP Name	G_CSNDC	P_Release_REQ	
PCO Type	G_CSAP		
Comments		s used to inform that the NSA or the requested SAPI is estal	PI is in use and the acknowledge mode peer to peer LLC plished.
Parameter		Parameter Type	Comments
Parameter sNDCPId	Name		
	Name	Parameter Type	Comments

TTCN-3 ASP Definition		
Type Name	G_SNDCP_CONFIG_CNF	
TTCN-3 Type	Record	
Port	GERAN_CSNDCP	

TTCN-3 ASP Definition			
Type Name	G_SNDCP_CONFIG_REQ		
TTCN-3 Type	Union		
Port	GERAN_CSNDCP		
G_CSNDCP_Activate	_REQ		
G_CSNDCP_Release	_REQ		

ASP Name	G_CLLC_XID_C	G_CLLC_XID_Config_REQ			
PCO Type	G_CSAP				
Comments	The ASP is used	I to inform the SS of the XID information	ation responded to the UE by TTCN		
Param	eter Name Parameter Type Comments				
ILMEId	LLMEId				
tLLI	TLLI				
sAPI	SAPI				
xID_Info	XID_Info the XID parameters responded to the UE/MS				
Detailed C	Comments				

6.4.2 ASPs for Data Transmission and Reception

	TTCN-3 ASP Definition			
Type Name	G_L2_DATAMESSAGE_REQ			
TTCN-3 Type	Union			
Port	GERAN_L2			
G_L2_UNITDATA_R	EQ	TS 34.123-3, clause 7.3.4.3.1.1		
G_L2_Release_REQ		TS 34.123-3, clause 7.3.4.3.1.1		
G_L2_SYSINFO_REQ		TS 34.123-3, clause 7.3.4.3.1.1		
G_L2_Paging_REQ		TS 34.123-3, clause 7.3.4.3.1.1		
G_L2_PagingGPRS_REQ		TS 34.123-3, clause 7.3.4.3.1.1		
G_L2_DATA_REQ		TS 34.123-3, clause 7.3.4.3.1.1		
G_L2_GTTP_REQ		TS 34.123-3, clause 7.3.4.3.1.1		

The SysInfoType is replaced with:

Type Name	SysInfoMsg		
TTCN-3 Type	Union		
	SYSTEMINFORMATIONTYPE1		
	SYSTEMINFORMATIONTYPE2		
	SYSTEMINFORMATIONTYPE3		
	SYSTEMINFORMATIONTYPE4		
	SYSTEMINFORMATIONTYPE5		
	SYSTEMINFORMATIONTYPE6		
	SYSTEMINFORMATIONTYPE13		
	SYSTEMINFORMATIONTYPE15		
	SYSTEMINFORMATIONTYPE2bis		
	SYSTEMINFORMATIONTYPE2ter		
	SYSTEMINFORMATIONTYPE2quater		
	SYSTEMINFORMATIONTYPE5bis		

	TTCN-3 ASP Definition			
	GL2_DATAMESSAGE_IND			
TTCN-3 Type	Union			
Port	GERAN_L2			
G_L2_UNITDATA_IN	ND	TS 34.123-3, clause 7.3.4.3.1.1		
G_L2_Release_CNF		TS 34.123-3, clause 7.3.4.3.1.1		
G_L2_Release_IND		TS 34.123-3, clause 7.3.4.3.1.1		
G_L2_Estab_IND		TS 34.123-3, clause 7.3.4.3.1.1		
		TS 34.123-3, clause 7.3.4.3.1.1		
G_L2_DATA_IND		TS 34.123-3, clause 7.3.4.3.1.1		
G_L2_ACCESS_IND		TS 34.123-3, clause 7.3.4.3.1.1		

TTCN-3 ASP Definition			
Type Name	GRLC_DATAMESSAGE_REQ		
TTCN-3 Type	Union		
Port	GERAN_RLC		
GRLC_ControlMs	g_REQ TS	S 34.123-3, clause 7.3.4.3.1.2	

TTCN-3 ASP Definition			
Type Name	GRLC_DATAMESSAGE_IND		
TTCN-3 Type	Union		
Port	GERAN_RLC		
GRLC_ControlMs	g_IND TS 34.	23-3, clause 7.3.4.3.1.2	

TTCN-3 ASP Definition			
Type Name	GLLC_DATAMESSAGE_REQ		
TTCN-3 Type	Union		
Port	GERAN_LLC		
G_LLC_UNITDATA_	REQ	TS 34.123-3, clause 7.3.4.3.1.3	
G_LLC_XID_RES	S TS 34.123-3, clause 7.3.4.3.1.3		

ASP Name	G_LLC_NULL_IND			
PCO Type	G_DSAP			
Comments	The ASP is used to recei	ve the LLC NULL frame, sent by the UE	for Cell Update.	
Pai	Parameter Name Parameter Type Comments			
ILMEId		LLMEId		
tLLI	TLLI			
sAPI	API SAPI			
Detailed	Detailed Comments			

TTCN-3 ASP Definition			
Type Name	GLLC_DATAMESSAGE_IND		
TTCN-3 Type	Union		
Port	GERAN_LLC		
G_LLC_UNITDATA_	IND	TS 34.123-3, clause 7.3.4.3.1.3	
G_LLC_XID_IND		TS 34.123-3, clause 7.3.4.3.1.3	
G_LLC_NULL_IND			

ASP Name	G_SN_UNIDATA_REQ			
PCO Type	G_DSAP	G_DSAP		
Comments	The ASP is used to send a valid IP datagram on the specified NSAPI to the UE/MS by unacknowledged transmission.			
Paran	Parameter Name Parameter Type Comments			Comments
sNDCPId			SNDCPId	
nSAPI			integer	5 to 15
n_PDU			N_PDU Valid IPv4 or IPv6 datagram	
Detailed Co	omments Unacknowledged transmission mode			

ASP Name	G_SN_UNITDATA_IND			
PCO Type	G_DSAP			
	The ASP is used to receive an IP datagram on the specified NASPI from the UE/MS in unacknowledged transmission mode.			
Parameter Name		Parameter Type	Comments	
sNDCPId		SNDCPId		
nSAPI		integer	5 to 15	
n_PDU		N_PDU	IPv4 or IPv6 datagram	
Detailed Comments Unacknowledged transmission mode				

Type Name	SNDCPId
Type Definition	INTEGER
Type Encoding	
Comments	The identifier of the SNDCP entity in SGSN

TTCN-3 ASP Definition			
Type Name	G_SN_DATAMESSAGE_REQ		
TTCN-3 Type	Union		
Port	GERAN_SNDCP		
G_SN_UNITDATA_I	REQ		

TTCN-3 ASP Definition			
Type Name	G_SN_DATAMESSAGE_IND		
TTCN-3 Type	Union		
Port	GERAN_SNDCP		
G_SN_UNITDATA_I	ND		

7 Test Methods and Design Considerations

7.1 Channel Mapping

Figure 7.1 shows the channel type mapping that is used for the configuration of the SS. In layer 2 test cases non default channel mapping can be applied on SS, as explained in clause 4.2.1.

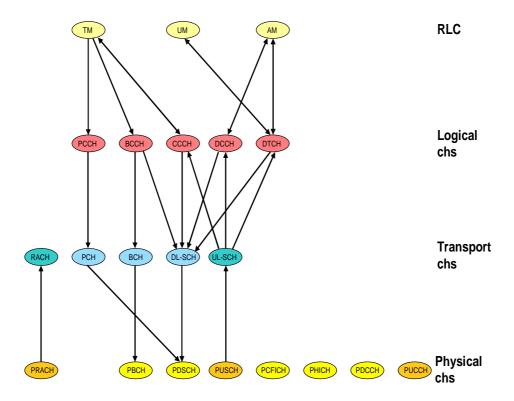


Figure 7.1-1: Channel type mapping for the default configuration of the SS

7.1.1 PDCCH Candidate Selection

In this clause following abbreviations are used:

- Common search Space Aggregation: CS_Agr.
- UE-Specific Search Space Aggregation: UE_Agr.
- Total number of CCEs available in a subframe: Max_CCE.

SS shall apply defined rules below in a DL subframe for PDCCH candidates' selection.

- Scheduled transmissions on SI-RNTI / P-RNTI / RA-RNTI/M-RNTI, use Common Search Space. UL and DL Scheduled transmissions on C-RNTI/ SPS C-RNTI, and DL Scheduled transmissions on Temp. C-RNTI, use UE-Specific Search Space. Transmissions on TPC-PUCCH-RNTI / TPC-PUSCH-RNTI and UL Scheduled transmissions on Temp. C-RNTI is not considered for default CCE management.
- If a transmission on SI-RNTI is scheduled, PDCCH candidate corresponding to CCEs between 0 and (CS_Agr-1) is used. For FDD, this PDCCH candidate is reserved for SI-RNTI, and left vacant if no SI-RNTI transmission is scheduled. For TDD the default UL/DL configuration type 1, this PDCCH candidate is reserved for SI-RNTI in subframes 0 & 5 (i.e. subframes where PDCCH for UL grant for C-RNTI/SPS-RNTI is not scheduled).
- PDCCH candidates corresponding to CCEs between CS_Agr and (2*CS_Agr-1) can be used for the transmission on P-RNTI, RA-RNTI or M-RNTI. In conformance test cases with single UE, there is no requirement for

transmissions scheduled for more than one of P-RNTI, RA-RNTI or M-RNTI in one DL subframe. As per 36.331[19] clause5.8.1.3, the MCCH change notification indicator shall be transmitted on MBSFN subframes only.

For FDD:

- For DL transmission for C-RNTI/SPS-RNTI/Temp C-RNTI the lowest value of m =m' which has a PDCCH available from CCEs between 2*CS_Agr and (Max_CCE-1) shall be used. 'm' is defined in TS 36.213 [30], clause 9.1.1.
- For UL transmission for C-RNTI/SPS-RNTI the lowest value of m = m">m" which has a PDCCH available from CCEs between 2*CS_Agr and (Max_CCE-1) shall be used, irrespective of PDCCH candidate corresponding to m' is used or not.

For TDD:

- For DL transmission, for C-RNTI/SPS-RNTI/Temp C-RNTI the lowest value of m =m' which has a PDCCH available from CCEs between 1*CS_Agr and (Max_CCE-1) shall be used. 'm' is defined in TS 36.213 [30] clause 9.1.1. It is further assumed that in a typical conformance testing environment, there will not be a requirement to schedule DL transmission for C-RNTI/SPS-RNTI/Temp C-RNTI, P=RNTI and RA-RNTI in one DL sub frame.
- For UL transmission, for C-RNTI/SPS-RNTI the lowest value of m =m"and if in the sub frame m' is also used, m"!=m' has a PDCCH available from CCEs between 0 and (Max_CCE-1) shall be used.

NOTE: If m' or m" cannot be allocated in any TTI, it is a TTCN error due to X-RNTI not properly allocated. The error shall be reported to TTCN. The TTCN will exit the test case assigning an inconclusive verdict.

7.1.1.1 FDD candidates selection

Table 7.1.1.1-1 gives the CCE resources utilized for m' and m" for default values of common search space aggregation level =4, UE-specific search space aggregation L=2 resulting in 6 PDCCH candidates m=0..5 and channel Bandwidth of 5 MHz. This give Max_CCE =20 for FDD. The table also gives the corresponding CCE start indices of PDCCH candidates for m' and m".

Table 7.1.1.1-1: CCE Start indices(m' & m" to be used for various C-RNTIs (5 MHz)

C-RNTI	Value		SF0	SF1	SF2	SF3	SF4	SF5	SF6	SF7	SF8	SF9
tsc_C_RNTI_Def	'1001'H	m'	0	1	0	0	0	3	4	0	0	0
	4097	CCE_St_Ind'	12	8	14	8	12	8	8	8	14	10
		m"	1	2	1	1	1	4	5	1	1	1
		CCE_St_Ind"	14	10	16	10	14	10	10	10	16	12
tsc_C_RNTI_Def2	'1034'H	m'	0	0	2	0	0	4	4	1	0	0
	4148	CCE_St_Ind'	12	16	8	14	10	8	8	8	18	16
		m"	1	1	3	1	1	5	5	2	5	1
		CCE_St_Ind"	14	18	10	16	12	10	10	10	8	18
tsc_C_RNTI_Def3	'1111'H	m'	0	0	0	2	3	0	0	0	0	4
	4369	CCE_St_Ind'	16	10	14	8	8	10	14	8	18	8
		m"	1	1	1	3	4	1	1	1	5	5
		CCE_St_Ind"	18	12	16	10	10	12	16	10	8	10
tsc_C_RNTI_Def4	'1FF1'H	m'	0	0	0	0	3	0	0	0	2	4
	8177	CCE_St_Ind'	12	12	18	16	8	18	18	18	8	8
		m"	1	1	5	1	4	5	5	5	3	5
		CCE_St_Ind"	14	14	8	18	10	8	8	8	10	10
tsc_C_RNTI_Def5	'04D2'H	m'	0	2	0	4	0	2	3	0	1	0
	1234	CCE_St_Ind'	10	8	10	8	14	8	8	14	8	10
		m"	1	3	1	5	1	3	4	1	2	1
		CCE_St_Ind"	12	10	12	10	16	10	10	16	10	12
tsc_C_RNTI_Def6	'0929'H	m'	4	0	4	0	0	1	3	3	4	2
	2345	CCE_St_Ind'	8	10	8	12	14	8	8	8	8	8
		m"	5	1	5	1	1	2	4	4	5	3
		CCE_St_Ind"	10	12	10	14	16	10	10	10	10	10
tsc_C_RNTI_Def7	'0D80'H	m'	2	0	2	0	0	0	3	0	0	2
	3456	CCE_St_Ind'	8	16	8	18	14	14	8	16	14	8
		m"	3	1	3	5	1	1	4	1	1	3
		CCE_St_Ind"	10	18	10	8	16	16	10	18	16	10
tsc_C_RNTI_Def8	'11D7'H	m'	0	0	0	2	0	0	3	2	0	2
	4567	CCE_St_Ind'	8	16	8	8	14	16	8	8	8	8
		m"	1	1	1	3	1	1	4	3	1	3
		CCE_St_Ind"	10	18	10	10	16	18	10	10	10	10
tsc_C_RNTI_Def9	'162E'H	m'	0	3	0	0	0	2	0	0	3	2
	5678	CCE_St_Ind'	12	8	12	16	8	8	16	18	8	8
		m"	1	4	1	1	1	3	1	5	4	3
		CCE_St_Ind"	14	10	14	18	10	10	18	8	10	10
tsc_C_RNTI_Def10	'1A85'H	m'	0	0	0	3	0	1	0	1	3	2
	6789	CCE_St_Ind'	16	8	16	8	8	8	16	8	8	8
		m"	1	1	1	4	1	2	1	2	4	3
		CCE_St_Ind"	18	10	18	10	10	10	18	10	10	10

Table 7.1.1.1-1a gives the CCE resources utilized for m' and m" for default values of common search space aggregation level =4, UE-specific search space aggregation L=2 resulting in 6 PDCCH candidates m=0..5 and channel Bandwidth of 5 MHz and CFI=2, suitable for eMBMS test cases. This give Max_CCE =12 for FDD. The table also gives the corresponding CCE start indices of PDCCH candidates for m' and m".

Table 7.1.1.1-1a: CCE Start indices(m' & m" to be used for various C-RNTIs with CFI=2 (5 MHz)

C-RNTI	Value		SF0	SF1	SF2	SF3	SF4	SF5	SF6	SF7	SF8	SF9
tsc_C_RNTI_Def	'1001'H	m'	4	3	3	0	2	1	2	0	3	1
	4097	CCE_St_Ind'	8	8	8	8	8	8	8	8	8	8
		m"	5	4	4	1	3	2	3	1	4	2
		CCE_St_Ind"	10	10	10	10	10	10	10	10	10	10
tsc_C_RNTI_Def2	'1034'H	m'	0	4	0	0	3	4	0	0	1	0
	4148	CCE_St_Ind'	8	8	8	10	8	8	8	10	8	8
		m"	1	5	1	5	4	5	1	5	2	1
		CCE_St_Ind"	10	10	10	8	10	10	10	8	10	10
tsc_C_RNTI_Def3	'1111'H	m'	2	0	0	4	0	0	0	2	0	2
	4369	CCE_St_Ind'	8	10	10	8	10	10	10	8	10	8
		m"	3	5	5	5	5	5	5	3	5	3
		CCE_St_Ind"	10	8	8	10	8	8	8	10	8	10

Tables 7.1.1.1-2, 7.1.1.1-3 and 7.1.1.1-4 give the CCE resources utilized for m' and m" for default values of common search space aggregation level =4, UE-specific search space aggregation L=2 resulting in 6 PDCCH candidates m=0..5 and bandwidths of 10/15/20 MHz respectively. This gives Max_CCE =25(10 MHz)/37(15 MHz)/50(20 MHz) for FDD. The tables also give the corresponding CCE start indices of PDCCH candidates for m' and m". These are in general to be applied in MAC Transport block size test cases defined in clause 7.1.7 of TS 36.523-1 [1].

Table 7.1.1.1-2: CCE Start indices (m' & m") to be used for default C-RNTI (10 MHz)

C-RNTI	Value		SF0	SF1	SF2	SF3	SF4	SF5	SF6	SF7	SF8	SF9
tsc_C_RNTI_Def	'1001'H	m'	0	3	3	0	0	0	0	0	0	0
	4097	CCE_St_Ind'	12	8	8	20	16	18	16	8	14	18
		m"	1	4	4	1	1	1	1	1	1	1
		CCE_St_Ind"	14	10	10	22	18	20	18	10	16	20
tsc_C_RNTI_Def2	'1034'H	m'	0	4	0	0	0	4	0	0	0	0
	4148	CCE_St_Ind'	8	8	20	10	14	8	20	22	18	8
		m"	1	5	1	1	1	5	1	5	1	1
		CCE_St_Ind"	10	10	22	12	16	10	22	8	20	10
tsc_C_RNTI_Def3	'1111'H	m'	0	0	0	4	0	0	0	2	0	0
	4369	CCE_St_Ind'	16	10	10	8	22	22	22	8	10	16
		m"	1	1	1	5	5	5	5	3	1	1
		CCE_St_Ind"	18	12	12	10	8	8	8	10	12	18
tsc_C_RNTI_Def4	'1FF1'H	m'	2	0	0	4	0	0	3	0	2	0
	8177	CCE_St_Ind'	8	20	14	8	10	18	8	22	8	12
		m"	3	1	1	5	1	1	4	5	3	1
		CCE_St_Ind"	10	22	16	10	12	20	10	8	10	14
tsc_C_RNTI_Def5	'04D2'H	m'	3	0	0	0	0	2	3	3	1	0
	1234	CCE_St_Ind'	8	16	22	12	22	8	8	8	8	22
	.20.	m"	4	1	5	1	5	3	4	4	2	5
		CCE_St_Ind"	10	18	8	14	8	10	10	10	10	8
tsc_C_RNTI_Def6	'0929'H	m'	0	0	2	2	0	1	0	0	0	2
	2345	CCE_St_Ind'	20	18	8	8	18	8	18	22	12	8
		m"	1	1	3	3	1	2	1	5	1	3
		CCE_St_Ind"	22	20	10	10	20	10	20	8	14	10
tsc_C_RNTI_Def7	'0D80'H	m'	4	0	0	1	0	0	0	0	0	4
	3456	CCE_St_Ind'	8	20	20	8	14	22	10	8	18	8
		m"	5	1	1	2	1	5	1	1	1	5
		CCE_St_Ind"	10	22	22	10	16	8	12	10	20	10
tsc_C_RNTI_Def8	'11D7'H	m'	2	0	0	0	0	4	3	2	4	0
	4567	CCE_St_Ind'	8	8	12	8	10	8	8	8	8	20
		m"	3	1	1	1	1	5	4	3	5	1
		CCE_St_Ind"	10	10	14	10	12	10	10	10	10	22
tsc_C_RNTI_Def9	'162E'H	m'	0	0	2	4	0	0	2	0	1	0
	5678	CCE_St_Ind'	8	10	8	8	16	16	8	14	8	16
		m"	1	1	3	5	1	1	3	1	2	1
		CCE_St_Ind"	10	12	10	10	18	18	10	16	10	18
tsc_C_RNTI_Def10	'1A85'H	m'	0	0	0	3	0	0	0	0	3	0
	6789	CCE_St_Ind'	12	12	20	8	12	18	20	10	8	12
		m"	1	1	1	4	1	1	1	1	4	1
		CCE_St_Ind"	14	14	22	10	14	20	22	12	10	14

Table 7.1.1.1-3: CCE Start indices (m' & m") to be used for default C-RNTI (15 MHz)

C-RNTI	Value		SF0	SF1	SF2	SF3	SF4	SF5	SF6	SF7	SF8	SF9
tsc_C_RNTI_Def	'1001'H	m'	4	0	0	0	0	0	0	0	0	0
	4097	CCE_St_Ind'	8	14	14	20	16	18	28	20	26	30
		m"	5	1	1	1	1	1	1	1	1	1
		CCE_St_Ind"	10	16	16	22	18	20	30	22	28	32
tsc_C_RNTI_Def2	'1034'H	m'	0	0	0	0	0	4	0	0	0	0
	4148	CCE_St_Ind'	32	12	20	34	14	8	8	10	30	32
		m"	1	1	1	5	1	5	1	1	1	1
		CCE_St_Ind"	34	14	22	8	16	10	10	12	32	34
tsc_C_RNTI_Def3	'1111'H	m'	0	0	0	4	0	0	0	0	0	0
	4369	CCE_St_Ind'	16	22	22	8	10	22	34	28	34	28
		m"	1	1	1	5	1	1	5	1	5	1
		CCE_St_Ind"	18	24	24	10	12	24	8	30	8	30

C-RNTI SF0 SF1 SF2 SF3 SF4 SF5 SF6 SF7 SF8 SF9 Value tsc_C_RNTI_Def '1001'H m' CCE_St_Ind' m" CCE St Ind" tsc_C_RNTI_Def2 '1034'H m' CCE_St_Ind m' CCE_St_Ind" tsc_C_RNTI_Def3 '1111'H lm' CCE_St_Ind' lm'

Table 7.1.1.1-4: CCE Start indices (m' & m") to be used for default C-RNTI (20 MHz)

7.1.1.2 TDD candidates selection

CCE St Ind"

The default TDD subframe configuration 1 is applied to this clause. By default no DL data is scheduled in special subframes 1 and 6.

Considering that each TDD subframe having different PHICH group number, and only two symbols being present for PDCCH in the special subframes 1 and 6 for bandwidth of 5 MHz, two symbols for PDCCH in all subframes for bandwidth of 10/15/20 MHz (TS 36.508 [3]), each subframe has, therefore, different number of MAX_CCE.

Table 7.1.1.2-1 gives the PDCCH candidates of m' and m" for default values of common search space aggregation level =8, UE-specific search space aggregation L=8 resulting in 2 PDCCH candidates m=0,1 and the corresponding CCE start indices for channel bandwidth of 5MHz. SF0 and SF5 cannot be used for UL grant. SF1 and SF6 are not used for DL assignment. SF2, SF3, SF7 and SF8 are not applicable to PDCCH CCE allocation since they are uplink subframes.

Table 7.1.1.2-1: CCE Start indices (m' & m") to be used for various C-RNTIs (5 MHz)

C-RNTI	Value		SF0	SF1	SF2	SF3	SF4	SF5	SF6	SF7	SF8	SF9
		Max_CCE	21	12	-	-	20	21	12	-	-	20
tsc_C_RNTI_Def	'1001'H	m'	1	-	-	-	1	0	-	-	-	0
	4097	CCE_St_Ind'	8	-	-	-	8	8	-	-	-	8
		m"	-	0	-	-	0	-	0	-	-	1
		CCE_St_Ind"	-	0	-	-	0	-	0	-	-	0
tsc_C_RNTI_Def2	'1034'H	m'	1	-	-	-	0	1	-	-	-	1
	4148	CCE_St_Ind'	8	-	-	-	8	8	-	-	-	8
		m"	-	0	-	-	1	-	0	-	-	0
		CCE_St_Ind"	-	0	-	-	0	-	0	-	-	0
tsc_C_RNTI_Def3	'1111'H	m'	1	-	-	-	0	0	-	-	-	1
	4369	CCE_St_Ind'	8	-	-	-	8	8	-	-	-	8
		m"	-	0	-	-	1	-	0	-	-	0
		CCE_St_Ind"	-	0	-	-	0	-	0	-	-	0
tsc_C_RNTI_Def4	'1FF1'H	m'	1	-	-	-	0	0	-	-	-	1
	8177	CCE_St_Ind'	8	-	-	-	8	8	-	-	-	8
		m"	-	0	-	-	1	-	0	-	-	0
		CCE_St_Ind"	-	0	-	-	0	-	0	-	-	0
tsc_C_RNTI_Def5	'04D2'H	m'	0	-	-	-	0	1	-	-	-	0
	1234	CCE_St_Ind'	8	-	-	-	8	8	-	-	-	8
		m"	-	0	-	-	1	-	0	-	-	1
		CCE_St_Ind"	-	0	-	-	0	-	0	-	-	0
tsc_C_RNTI_Def6	'0929'H	m'	1	-	-	-	0	0	-	-	-	1
	2345	CCE_St_Ind'	8	-	-	-	8	8	-	-	-	8
		m"	-	0	-	-	1	-	0	-	-	0
		CCE_St_Ind"	-	0	-	-	0	-	10	-	-	0
tsc_C_RNTI_Def7	'0D80'H	m'	1	-	-	-	0	0	-	-	-	1
	3456	CCE_St_Ind'	8	-	-	-	8	8	-	-	-	8
		m"	-	0	-	-	1	-	0	-	-	0
		CCE_St_Ind"	-	0	-	-	0	-	0	-	-	0
tsc_C_RNTI_Def8	'11D7'H	m'	1	-	-	-	0	0	-	-	-	1
	4567	CCE_St_Ind'	8	-	-	-	8	8	-	-	-	8

C-RNTI	Value		SF0	SF1	SF2	SF3	SF4	SF5	SF6	SF7	SF8	SF9
		m"	-	0	-	-	1	-	0	-	-	0
		CCE_St_Ind"	-	0	-	-	0	-	0	-	-	0
tsc_C_RNTI_Def9	'162E'H	m'	1	-	-	-	0	0	-	-	-	1
	5678	CCE_St_Ind'	8	-	-	-	8	8	-	-	-	8
	0070	m"	-	0	-	-	1	-	0	-	-	0
		CCE_St_Ind"	-	0	-	-	0	-	0	-	-	0
tsc_C_RNTI_Def1	'1A85'H	m'	1	-	-	-	0	0	-	-	-	1
0	6789	CCE_St_Ind'	8	-	-	-	8	8	-	-	-	8
		m"	-	0	-	-	1	-	0	-	-	0
		CCE_St_Ind"	-	0	-	-	0	-	0	-	-	0

Table 7.1.1.2-1a gives the PDCCH candidates of m' and m" for default values of common search space aggregation level =4, UE-specific search space aggregation L=4 resulting in 2 PDCCH candidates m=0,1 and the corresponding CCE start indices for channel bandwidth of 5MHz and CFI=2, suitable for eMBMS test cases. SF0 and SF5 cannot be used for UL grant. SF1 and SF6 are not used for DL assignment. SF2, SF3, SF7 and SF8 are not applicable to PDCCH CCE allocation since they are uplink subframes.

Note: With Max-CCE=13 or 12, aggregation level of 8 results in only 1 PDCCH candidate. Hence aggregation level of 4 is used.

Table 7.1.1.2-1a: CCE Start indices (m' & m") to be used for various C-RNTIs with CFI=2 (5 MHz)

C-RNTI	Value		SF0	SF1	SF2	SF3	SF4	SF5	SF6	SF7	SF8	SF9
		Max_CCE	13	12	-	-	12	13	12	-	-	12
tsc_C_RNTI_Def	'1001'H	m'	1	-	-	-	0	1	-	-	-	1
	4097	CCE_St_Ind'	4	-	-	-	8	4	-	-	-	4
		m"	-	0	-	-	1	-	0	-	-	0
		CCE_St_Ind"	-	4	-	-	0	-	8	-	-	0
tsc_C_RNTI_Def2	'1034'H	m'	0	-	-	-	0	1	-	-	-	0
	4148	CCE_St_Ind'	4	-	-	-	4	4	-	-	-	4
		m"	-	0	-	-	1	-	0	-	-	1
		CCE_St_Ind"	-	0	-	-	8	-	4	-	-	8
tsc_C_RNTI_Def3	'1111'H	m'	0	-	-	-	0	0	-	-	-	0
	4369	CCE_St_Ind'	8	-	-	-	8	8	-	-	-	8
		m"	-	0	-	-	1	-	0	-	-	1
		CCE_St_Ind"	-	8	-	-	0	-	8	-	-	0

Tables 7.1.1.2-2, 7.1.1.2-3 and 7.1.1.2-4 give the PDCCH candidates of m' and m" for default values of common search space aggregation level =8, UE-specific search space aggregation L=8 resulting in 2 PDCCH candidates m=0,1 and the corresponding CCE start indices for bandwidths of 10/15/20 MHz respectively, with the different Max_CCE number for each subframe.

Table 7.1.1.2-2: CCE Start indices (m' & m") to be used for default C-RNTI (10 MHz)

C-RNTI	Value		SF0	SF1	SF2	SF3	SF4	SF5	SF6	SF7	SF8	SF9
		Max_CCE	27	25	-	-	25	27	25	-	-	25
tsc_C_RNTI_Def	'1001'H	m'	1	-	-	-	0	1	-	-	-	1
	4097	CCE_St_Ind'	8	-	-	-	16	8	-	-	-	8
		m"	-	0	-	-	1	-	0	-	-	0
		CCE_St_Ind"	-	8	-	-	0	-	16	-	-	0
tsc_C_RNTI_Def	'1034'H	m'	0	-	-	-	0	1	-	-	-	0
2	4148	CCE_St_Ind'	8	-	-	-	8	8	-	-	-	8
		m"	-	0	-	-	1	-	0	-	-	1
		CCE_St_Ind"	-	0	-	-	16	-	8	-	-	16
tsc_C_RNTI_Def	'1111'H	m'	0	-	-	-	0	0	-	-	-	0
3	4369	CCE_St_Ind'	16	-	-	-	16	16	-	-	-	16
		m"	-	0	-	-	1	-	0	-	-	1
		CCE_St_Ind"	-	16	-	-	0	-	16	-	-	0

Table 7.1.1.2-3: CCE Start indices (m' & m") to be used for default C-RNTI (15 MHz)

C-RNTI	Value		SF0	SF1	SF2	SF3	SF4	SF5	SF6	SF7	SF8	SF9
		Max_CCE	41	37	-	-	37	41	37	-	-	37
tsc_C_RNTI_Def	'1001'H	m'	0	-	-	-	1	0	-	-	-	0
	4097	CCE_St_Ind'	8	-	-	-	8	8	-	-	-	8
		m"	-	0	-	-	0	-	0	-	-	1
		CCE_St_Ind"	-	8	-	-	0	-	0	-	-	16
tsc_C_RNTI_Def	'1034'H	m'	0	-	-	-	0	1	-	-	-	1
2	4148	CCE_St_Ind'	8	-	-	-	24	8	-	-	-	8
		m"	-	0	-	-	1	-	0	-	-	0
		CCE_St_Ind"	-	0	-	-	0	-	16	-	-	0
tsc_C_RNTI_Def	'1111'H	m'	0	-	-	-	0	1	-	-	-	1
3	4369	CCE_St_Ind'	24	-	-	-	24	8	-	-	-	8
		m"	-	0	-	-	1	-	0	-	-	0
		CCE_St_Ind"	-	8	-	-	0	-	24	-	-	0

Table 7.1.1.2-4: CCE Start indices (m' & m") to be used for default C-RNTI (20 MHz)

C-RNTI	Value		SF0	SF1	SF2	SF3	SF4	SF5	SF6	SF7	SF8	SF9
		Max_CCE	55	50	-	-	50	55	50	-	-	50
tsc_C_RNTI_Def	'1001'H	m'	1	-	-	-	0	0		-	-	0
	4097	CCE_St_Ind'	8	-	-	-	16	24		-	-	24
		m"	-	0	-	-	1		0	-	-	1
		CCE_St_Ind"	-	8	-	-	24		16	-	-	32
tsc_C_RNTI_Def	'1034'H	m'	0	-	-	-	0	1	-	-	-	0
2	4148	CCE_St_Ind'	32	-	-	-	8	8	-	-	-	32
		m"	-	0	-	-	1	-	0	-	-	1
		CCE_St_Ind"	-	0	-	-	16	-	32	-	-	40
tsc_C_RNTI_Def	'1111'H	m'	0	-	-	-	0	0	-	-	-	0
3	4369	CCE_St_Ind'	16	-	-	-	40	40	-	-	-	16
		m"	-	0	-	-	1	-	0	-	-	1
		CCE_St_Ind"	-	40	-	-	0	-	40	-	-	24
tsc_C_RNTI_Def	'1FF1'H	m'	0	-	-	-	0	0	-	-	-	1
4	8177	CCE_St_Ind'	16	-	-	-	40	24	-	-	-	8
		m"	-	0	-	-	1	-	0	-	-	0
		CCE_St_Ind"	-	32	-	-	0	-	8	-	-	0
tsc_C_RNTI_Def	'04D2'H	m'	0	-	-	-	0	0	-	-	-	0
5	1234	CCE_St_Ind'	8	-	-	-	40	16	-	-	-	40
		m"	-	0	-	-	1	-	0	-	-	1
		CCE_St_Ind"	-	16	-	-	0	-	8	-	-	0
tsc_C_RNTI_Def	'0929'H	m'	0	-	-	-	0	0	-	-	-	0
6	2345	CCE_St_Ind'	32	-	-	-	24	24	-	-	-	16
		m"	-	0	-	-	1	-	0	-	-	1
		CCE_St_Ind"	-	24	-	-	32	-	24	-	-	24
tsc_C_RNTI_Def	'0D80'H	m'	1	-	-	-	0	0	-	-	-	1
7	3456	CCE_St_Ind'	8	-	-	-	8	40	-	-	-	8
		m"	-	0	-	-	1	-	0	-	-	0
		CCE_St_Ind"	-	32	-	-	16	-	40	-	-	0
tsc_C_RNTI_Def	'11D7'H	m'	0	-	-	-	0	1	-	-	-	0
8	4567	CCE_St_Ind'	16	-	-	-	40	8	-	-	-	32
		m"	-	0	-	-	1	-	0	-	-	1
		CCE_St_Ind"	-	32	-	-	0	-	8	-	-	40
tsc_C_RNTI_Def	'162E'H	m'	0	-	-	-	0	0	-	-	-	0
9	5678	CCE_St_Ind'	32	-	-	-	16	16	-	-	-	16
		m"	-	0	-	-	1	-	0	-	-	1
		CCE_St_Ind"	-	40	-	-	24	-	16	-	-	24
tsc_C_RNTI_Def	'1A85'H	m'	1	-	-	-	1	0	-	-	-	1
10	6789	CCE_St_Ind'	8	-	-	-	8	24	-	-	-	8
		m"	-	0	-	-	0	-	0	-	-	0
		CCE_St_Ind"	-	0	-	-	0	-	32	-	-	0

7.1.1.2.1 TDD candidates selection in special subframes

In test cases (7.1.3.12/13) testing DL data transmission in special subframes following CCE tables will be used

Table 7.1.1.2.1-1: CCE Start indices (m' & m") to be used for various default C-RNTI (5 MHz)

C-RNTI	Value		SF0	SF1	SF2	SF3	SF4	SF5	SF6	SF7	SF8	SF9
		Max_CCE	21	12	-	-	20	21	12	-	-	20
tsc_C_RNTI_Def	'1001'H	m'	1	1	-	-	1	0	1	-	-	0
	4097	CCE_St_Ind'	8	0	-	-	8	8	0	-	-	8
		m"	-	0	-	-	0	-	0	-	-	1
		CCE_St_Ind"	-	0	-	-	0	-	0	-	-	0
tsc_C_RNTI_Def2	'1034'H 4148	m'	1	1	-	-	0	1	1	-	-	1
		CCE_St_Ind'	8	0	-	-	8	8	0	-	-	8
		m"	-	0	-	-	1	-	0	-	-	0
		CCE_St_Ind"	-	0	-	-	0	-	0	-	-	0

NOTE: Special subframes with Max CCE =12 and aggregation of 8 result in only 1 PDCCH. Hence either only UL grant or DL allocation is possible.

Table 7.1.1.2.1-2: CCE Start indices (m' & m") to be used for default C-RNTI (20 MHz)

C-RNTI	Value		SF0	SF1	SF2	SF3	SF4	SF5	SF6	SF7	SF8	SF9
		Max_CCE	55	50	-	-	50	55	50	-	-	50
tsc_C_RNTI_Def	'1001'H	m'	1	0	-	-	0	0	0	-	-	0
	4097	CCE_St_Ind'	8	8	-	-	16	24	16	-	-	24
		m"	-	1	-	-	1	-	1	-	-	1
		CCE_St_Ind"	-	16	-	-	24	-	24	-	-	32
tsc_C_RNTI_Def	'1034'H	m'	0	1	-	-	0	1	0	-	-	0
2	4148	CCE_St_Ind'	32	8	-	-	8	8	32	-	-	32
		m"	-	0	-	-	1	-	1	-	-	1
		CCE_St_Ind"	-	0	-	-	16	-	40	-	-	40

7.1.2 ePDCCH Candidate Selection

Total number of eREGs available in a subframe: Max_eREG.

Total number of eCCEs available in a subframe: Max_eCCE.

The value of numberPRB-Pairs=8 to be used in ePDCCH signalling test cases result in MAX_eREG=128 as per 36.211[35] clause 6.2.4A. As per 36.211[35] clause 6.8A.1 results in MAX_eCCE=32.

7.1.2.1 FDD candidates selection

The UE specific search space aggregation L=2 same as in clause 7.1.1.1 is used. For DL transmission for C-RNTI/SPS-RNTI/Temp C-RNTI value of m=0 (m') in set config ID 0 shall be used. 'm' is defined in TS 36.213 [30], clause 9.1.4. For UL transmission for C-RNTI/SPS-RNTI/Temp C-RNTI the lowest value of m=1 (m") shall be used.

C-RNTI SF0 SF2 SF3 SF4 SF6 Value SF1 SF5 SF7 SF8 SF9 tsc_C_RNTI_Def '1001'H n Λ m' CCE_St_Ind m" CCE St Ind" tsc C RNTI Def2 '1034'H m' CCE_St_Ind' m' CCE_St_Ind"

Table 7.1.2.1-1: eCCE Start indices (m' & m") to be used for various C-RNTIs

NOTE: eCCE start indices are independent of bandwidth.

7.1.2.2 TDD candidates selection

The search space aggregation L=8 same as in clause 7.1.1.2 is used. For DL transmission for C-RNTI/SPS-RNTI/Temp C-RNTI value of m=0 (m') in set config ID 0 shall be used. 'm' is defined in TS 36.213 [30], clause 9.1.4. For UL transmission for C-RNTI/SPS-RNTI/Temp C-RNTI the lowest value of m=1(m'') shall be used.

Table 7.1.2.2-1: CCE Start indices (m' & m") to be used for various C-RNTIs

C-RNTI	Value		SF0	SF1	SF2	SF3	SF4	SF5	SF6	SF7	SF8	SF9
		Max_CCE	21	12	-	-	20	21	12	-	-	20
tsc_C_RNTI_Def	'1001'H	m'	0	-	-	-	0	0	-	-	-	0
	4097	CCE_St_Ind'	16	-	-	-	0	8	-	-	-	8
		m"	-	0	-	-	1	-	0	-	-	1
		CCE_St_Ind"	-	8	-	-	16	-	0	-	-	24
tsc_C_RNTI_Def2	'1034'H	m'	0	-	-	-	0	0	-	-	-	0
	4148	CCE_St_Ind'	0	-	-	-	24	0	-	-	-	0
		m"	-	0	-	-	1	-	0	-	-	1
		CCE_St_Ind"	-	0	-	-	8	-	0	-	-	16

7.2 Uplink Grant

The Network/SS informs the UE if it is allowed to make Uplink Data transmission by transmitting 'DCI format 0' on PDCCH. The UE shall transmit (4 TTI later for FDD or variable for TDD) a Transport block of exactly the same size as specified in DCI format 0. The UE has no control of its own on TB size, and has to merely follow the network, even if that means lots of MAC padding or resource starving.

The UE has the following means to communicate if it has UL data ready for transmission and subsequently the estimate of quantity of data to be transmitted.

RACH procedure: UE in idle mode, handed over to a new cell or connected mode but PUCCH is unsynchronized (sometimes referred to as PUCCH is not configured) will trigger RACH procedure on data ready for transmission in UL.

Scheduling Request: UE in connected mode, no grant configured, PUCCH is synchronized and has data ready for transmission in UL, will transmit a scheduling request on PUCCH.

Buffer Status Reports: UE in connected mode, PUCCH synchronized, has a configured grant for current TTI, but grant is not sufficient to transmit all the data will include MAC control element BSR in the UL MAC PDU.

RACH and SR indicate on data availability and BSR provides an estimate of data available for transmission.

CQI/PMI/RI feedback from the UE which indicates the channel conditions and recommended number of layers.

Hence to determine the exact need of the grant requirement of the UE a network/SS needs to act on all four of the above. This eventually complicates the SS implementation and hence the grant allocation procedure is simplified such that SS needs only to react on reception of SR and grant allocation configured from the TTCN.

The SS disables aperiodic CQI/PMI/RI feedback from the UE by setting the 'CQI request field' to 0 in DCI format 0/RAR grant.

When request for periodic CQI/PMI/RI feedback is requested due to TTCN configuration, the SS does not react on periodic CQI/PMI/RI feedback received and still allocates grants as configured from TTCN.

The SS, if configured for maintaining PUCCH synchronization at UE, shall periodically transmit automatically MAC PDUs containing the MAC control element 'Timing Advance'. The period as configured by the TTCN is set to 80 % of the 'Time Alignment Timer' default value (750 ms) configured at UE.

Additionally the SS can be configured to automatically transmit a 'configured' UL grant at every reception of a Scheduling Request. This grant should be selected under the following restrictions:

- All UE categories can handle this i.e. (TBS <= 5160).
- It is sufficiently large that most of uplink signalling messages can be transmitted. In case the grant is not sufficient to fit the whole UL data, the UE will have to wait for the expiry of RETX_BSR_TIMER and retransmit a SR. And hence the procedure is repeated.

The following 4 types of grant allocation configurations are possible. Grant allocation Types 1 to 3 are applicable, when the UE is in connected state. Grant allocation Type 4 is applicable when UE is establishing /re-establishing the RRC Connection, or during handover or in connected state but PUCCH is not synchronised.

Grant Allocation Type 1:

- SS is configured to maintain PUCCH Synch.
- SS is configured to send an automatically 'configured Grant' (in terms of I_{MCS} and N_{PRB}) to the UE on every reception of a Scheduling Request, within 10 subframes. The default configured grant is I_{MCS} = 9 and N_{PRB} = 25 for test cases without IMS signalling within the test body and I_{MCS} = 20 and N_{PRB} = 25 for test cases with IMS signalling within the test body, unless explicitly specified in test cases.
- By default this type of grant allocation is applied. The majority of Idle mode, RRC and NAS test cases, the preambles of all tests and the postambles of those tests for which UE is still PUCCH synchronised at the end of test body. A few Layer 2 tests also use this type of grant.

Grant Allocation Type 2:

- Configure SS to maintain PUCCH Synch.
- Configure SS to periodically transmit a grant (I_{MCS} and N_{PRB}). Number of grants (1 or more) and period (in ms) configured by TTCN.
- The first grant transmitted is as specified in the explicit timing information. If timing information is "now" the SS selects the first suitable subframe for UL transmission.
- The grant allocation period for TDD shall be assigned without conflict with the allowed UL subframes in the TDD subframe configurations. As example of allocation period, the TDD UL Grant allocation can be assigned as in multiples of 5 ms.
- This type of grant allocation is applicable to the majority of RLC, PDCP and a few MAC test cases.
- No additional grant is allocated on reception of any SRs.

Grant Allocation Type 3:

- SS may or may not be configured to maintain PUCCH Synch.
- Configure SS to transmit a one time grant (I_{MCS} and N_{PRB}) in the time requested by TTCN. The one time transmission is achieved by setting Number of grants=1 and period =Only once
- This type of grant allocation is suitable for MAC and DRB tests when UE is in UL Synchronised state

Grant Allocation Type 4 (RACH configuration):

- In addition to the 3 types of UL grant allocations, a fourth type of grant allocation during the RACH procedure is also possible, where the SS behaves as per the RACH procedure configured and allocates the configured grant during the RACH procedure. This UL Grant type is used in the configuration for the preamble in many situations, basically in MAC test cases. This type of grant is further used when UE is establishing/re-establishing the RRC connection or during handover, or when the UE is not PUCCH synchronised;

All the UL grant allocation methods define grant allocation in terms of I_{MCS} and N_{PRB} to be used. The SS shall allocate RBs corresponding to PRB indices $0..(N_{PRB}-1)$.

7.2.1 Exception TC list

This clause contains the exception test case list where the explicit uplink grant types other than UL grant type 1 are specified.

Table 7.2.1-1: Exception test case list with explicit uplink grant types other than UL grant type 1

Group	Test Case	Uplink Grant Type 2	Uplink Grant Type 3
RLC	7.2.2.6	X	
	7.2.2.7	X	
	7.2.3.1		X
	7.2.3.2	X	
	7.2.3.4		X
	7.2.3.5		X
	7.2.3.6	X	
	7.2.3.7	X	
	7.2.3.9	X X	
	7.2.3.10	X	X
	7.2.3.13	X	X
	7.2.3.15	X	
	7.2.3.17	X	
	7.2.3.18		X
	7.2.3.21		X
MAC	7.1.4.1	X	
	7.1.4.2		X
	7.1.4.3	X	
	7.1.4.4		Х
	7.1.4.7		X
	7.1.4.8	X	X X X
	7.1.4.10		Х
	7.1.4.11		X
	7.1.4.14		X
	7.1.4.15	X	
	7.1.4.16	X X	
	7.1.5.1	X	
	7.1.5.2	X	
	7.1.5.3	X X	
	7.1.5.4	X	
	7.1.5.5	X	
	7.1.6.1		X
PDCP	7.3.5.4		Х
RRC	8.2.1.5	X	
NAS	9.2.1.1.24		Х
DRB	12.1.1		X X
	12.1.2		X

7.3 Downlink Resource Allocation

The DL resource allocation is an SS emulation function. In order to ensure similar DL behaviours (within defined tolerances) on the different SS platforms in the timing stringent requirements, all downlink resource allocation schemes specified in the present clause shall be supported by the SS.

When the DL data is to be sent with a specific scheduling requirement, for instance, in a TTI in advance rather than "now", the TTCN shall ensure that the data is scheduled at least 100 ms in advance. The 100 ms time in general covers all time delays, from the time DL data is sent by the TTCN at the EUTRA PTC to the completion of the transmission at the SS (TTCN delays, codec delays, adaptor delays and SS processing delays at various protocol Layers). In the case of more than one NAS PDU is piggy-backed in a scheduled RRC PDU, 20ms shall be added per additional NAS PDU: 100ms + ((NoOfNASPDUs - 1) * 20ms; this calculation is based on the assumption that there are not more than 7 piggy-backed NAS messages; this is valid for LTE.

NOTE: The DL data means DL signalling and/or data in the present clause.

7.3.1 PDCCH DCI default formats

Two types of DCI combinations are identified as default formats for the signalling and protocol test.

DCI combination 1 uses:

- DCI format 1A, resource allocation type 2 localised, for all DL scheduling types.

DCI combination 2 uses:

- DCI format 1C, resource allocation type 2 distributed, for scheduling of PCCH/BCCH/RAR; and
- DCI format 1 resource allocation type 0, for UE dedicated scheduling.

7.3.1.1 Default DCI Format to be used in test cases configuring MIMO

Transmission mode 3 will be used in MIMO test cases configuring 2 Transmit antenna SS environment. As per 36.213 Table 7.1-5, in Transmission mode 3, UE is expected to decode only DCI formats 2A and 1A. Similarly for Transmission mode 4, UE is expected to decode only DCI formats 2 and 1A. Hence for all test cases configuring 2TX (2 antenna ports) at SS, DCI combination 1 is the default DCI combination to be applied. This allows DCI format 1A to be used as default DL scheduling scheme for test sequences not explicitly specified to use DCI formats 2A or 2(i.e. preamble, postamble etc.)

7.3.2 Radio parameters configured

The SS shall support DL QPSK, 16QAM and 64QAM modulation schemes. The configured radio parameters, including DCI format, resource allocation types, maximum allowed modulation scheme, first virtual / physical resource block to be used, maximum available resource blocks and redundancy version, are provided to the SS.

In the normal signalling test condition, DL RLC and HARQ retransmissions are rare. The redundancy version is provided to allow the occasional HARQ retransmissions. For those MAC, RLC tests contained in table 7.3.2-1 where timing requirements are involved the DL or UL HARQ retransmissions are not tolerable. Table 7.3.2-2 lists the RLC tests where timing requirements are involved, only one DL or UL HARQ retransmission per transport block is tolerable. Unless otherwise specified, if HARQ retransmissions occur in the test cases contained in table 7.3.2-1 or more than one HARQ retransmission occurs in the test cases of table 7.3.2-2, the test cases will be terminated with verdict inconclusive.

NOTE: If the test is expecting the reporting of UL ACK/NACK for the DL MAC PDUs, or is configuring the PHICH in a certain mode, HARQ retransmissions other than those that are already specified in the prose will have an impact on the test sequence. If test cases perform scheduling of data transmissions and/or receptions, or the testing timers in the test cases are less than 900 ms (i.e. the tolerance for 90 ms), HARQ retransmissions will make it difficult to continue testing.

Table 7.3.2-1: TC list intolerable of HARQ retransmissions

Test case	Comment
	MAC
7.1.3.1, 7.1.3.2, 7.1.3.4, 7.1.3.5, 7.1.3.6, 7.1.3.9, 7.1.6.1, 7.1.6.2	HARQ feedback reporting enabled or DL CRC errors introduced; DL HARQ un specified (re)transmissions will result in 'Fail' in test body, UL HARQ retransmissions are allowed;
7.1.4.8	Strict relationship between grant and UL data
7.1.4.3	Up to 104 PDUs to be sent in DL every TTI;
7.1.4.2, 7.1.4.11, 7.1.4.12, 7.1.4.14, 7.1.5.4	HARQ feedback transmission specified or PHICH errors introduced
7.1.4.15, 7.1.4.16	Periodic UL grants
	RLC
7.2.2.6, 7.2.2.7, 7.2.2.8, 7.2.2.10, 7.2.3.1, 7.2.3.2, 7.2.3.4, 7.2.3.5, 7.2.3.10, 7.2.3.13, 7.2.3.14, 7.2.3.15, 7.2.3.18	Tolerating HARQ retransmissions is not feasible due to rigid timing and scheduling conditions. Testing timer < 900 ms

Table 7.3.2-2: TC list intolerable of more than one HARQ retransmission per transport block

Test case	Comment
RL	C
7.2.3.6, 7.2.3.7, 7.2.3.8, 7.2.3.9, 7.2.3.17	Tolerating more than one HARQ retransmission is not feasible due to rigid timing and scheduling conditions. Testing timer < 900 ms

7.3.2.1 HARQ Retransmission when MIMO is configured

For test cases configuring MIMO, if in a TTI more than one transport blocks are scheduled (DCI format 2/2A/2B), the HARQ retransmission is handled independently for each transport block by SS. In case UE ACKs one Transport block and NACKs the other and there is no fresh data scheduled for transmission, SS only schedules the NACKed transport block for retransmission, using same I_{mcs} as used in initial transmission, mapped to codeword 0. Acked Transport block (and hence codeword 1) is disabled by setting corresponding $I_{MCS} = 0$ and $rv_{idx} = 1$. Resource allocation (Nprb) used in retransmission is same as in initial transmission.

It is assumed that retransmission and fresh data scheduled in one TTI will not happen.

7.3.3 General DL scheduling scheme

The rules in the present clause, unless particularly specified, are applied to both default DCI combinations.

The bandwidth of 5/10/15/20 MHz makes 25/50/75/100 available physical resource blocks respectively. The 25/50/75/100 resource blocks are divided into three distinct sets. Exact set sizes and the elements contained in the individual sets depend upon the DCI combination to be applied.

- The first set is reserved for BCCH mapped to DL-SCH (SI-RNTI).
- The second set is reserved for PCCH mapped to DL-SCH (P-RNTI).
- The third set is used for one of mutually exclusive transmissions of:
 - 'Random Access Response' mapped to DL-SCH (RA-RNTI); or
 - UE-dedicated scheduling mapped to DL-SCH (C-RNTI/ SPS C-RNTI/ Temp C-RNTI).

For each subframe for which data of one or more types is scheduled, the SS shall select a Transport Block Size (TBS), independently for each type of data scheduled, such that:

- All the scheduled data is transmitted respecting the timing information. More details on the timing information can be found in clause 7.8.
- Not more than MaxRbCnt resource blocks are used, for DCI format 1C, N_{PRB} = MaxRbCnt.

- Minimum MAC Padding is performed.
- If all scheduled Data cannot be transmitted in the indicated subframe, for example due to TDD and half duplex configuration, it shall be transmitted in the next available subframe.

7.3.3.1 Additional rules for BCCH scheduling scheme

This scheme is applicable for Data transmission on logical channel BCCH mapped to DL-SCH, PDCCH scrambled by SI-RNTI. For both DCI combinations 4 physical resource blocks are reserved for BCCH transmission. The maximum modulation scheme is restricted to QPSK.

Following additional rules are applied for TBS selection:

- The Max TBS, the maximum TBS allowed for the scheduling scheme, is restricted to 600. (nearest value achievable for $I_{TBS} = 9$ and $N_{PRB} = 4$, as per table 7.1.7.2.1-1 of TS 36.213 [30]).
- If the scheduled Data cannot fit into a TBS smaller or equal to Max TBS, SS generates an error (it's a TTCN error). TTCN should gracefully exit the test case as a fatal error, assigning inconclusive verdict.
- Rules in clause 7.3.3.1.1 for DCI combination 1 and in clause 7.3.3.1.2 for DCI combination 2 shall be applied.

7.3.3.1.1 BCCH with DCI combination 1

TS 36.213 [30], table 7.1.7.2.1-1, rows with I_{TBS} =0..26 and columns with N_{PRB} =2 (corresponding to TPC LSB =0) and N_{PRB} =3 (corresponding to TPC LSB =1), TBS <=Max TBS are applicable.

Distinct TBSs and all (TPC LSB, I_{TBS}) combinations for each distinct TBS are listed in the sheet.

If a TBS can have two (TPC LSB, I_{TBS}) combinations, the combination with TPC LSB =0 is selected.

RIV indicates 4 PRBs with index 0..3 allocated.

7.3.3.1.2 BCCH with DCI combination 2

TS 36.213 [30], table 7.1.7.2.3-1, $I_{TBS} = 0..17$ with TBS \leq Max TBS are applicable.

RIV indicates 4 virtual RBs with index 0..3 allocated. These virtual RBs correspond to the physical RBs

- with index 0, 6, 12, 18 in even slots and 12, 18, 0, 6 in odd slots for 5 MHz bandwidth;
- with index 0, 12, 27, 39 in even slots and 27, 39, 0, 12 in odd slots for 10 MHz bandwidth;
- with index 0, 16, 48, 64 in even slots and 48, 64, 0, 16 in odd slots for 15 MHz bandwidth;
- with index 0, 24, 48, 72 in even slots and 48, 72, 0, 24 in odd slots for 20 MHz bandwidth.

7.3.3.2 Additional rules for PCCH specific scheduling scheme

This scheme is applicable for Data transmission on logical channel PCCH mapped to DL-SCH, PDCCH scrambled by P-RNTI. For DCI combination 1, one physical resource block is reserved. For DCI combination 2, two physical resource blocks are reserved for 5 MHz bandwidth, and four physical resource blocks are reserved for 10 MHz, 15 MHz or 20 MHz bandwidth. The maximum modulation scheme is restricted to QPSK.

Following additional rules are applied for TBS selection:

- If the scheduled Data cannot fit into Max TBS, SS generates an error (it's a TTCN error). TTCN should gracefully exit the test case as a fatal error, assigning inconclusive verdict.
- Rules in clause 7.3.3.2.1 for DCI combination 1 and clause 7.3.3.2.2 for DCI combination 2 shall be applied.

7.3.3.2.1 PCCH with DCI combination 1

TS 36.213 [30], table 7.1.7.2.1-1, rows with I_{TBS} =0..26 and columns with N_{PRB} =2 (corresponding to TPC LSB =0) and N_{PRB} =3 (corresponding to TPC LSB =1) TBS <=Max TBS are applicable.

The Max TBS is restricted to 120 (nearest value achievable for $I_{TBS} = 9$ and $N_{PRB} = 1$, as per table 7.1.7.2.1-1 of TS 36.213 [30]).

Distinct TBSs and all (TPC LSB, I_{TBS}) combinations for each distinct TBS are listed in the sheet.

If a TBS can have two (TPC LSB, I_{TBS}) combinations, the combination with TPC LSB =0 is selected.

RIV indicates 1 PRBs with index 4 allocated.

7.3.3.2.2 PCCH with DCI combination 2

TS 36.213 [30], table 7.1.7.2.3-1, I_{TBS} =0..11 for 5 MHz/ I_{TBS} =0..17 for 10, 15 or 20 MHz with TBS \leq Max TBS are applicable.

The Max TBS is restricted to

296 bits (nearest value achievable for $I_{TBS} = 9$ and $N_{PRB} = 2$) for 5 MHz bandwidth,

600 bits (nearest value achievable for $I_{TBS} = 9$ and $N_{PRB} = 4$) for 10, 15 or 20 MHz bandwidth.

RIV indicates either two virtual RBs with index 4 and 5 allocated, or four virtual RBs with index 4 to 7 allocated. These virtual RBs correspond to physical RBs:

with index 1 and 7 in even slots and 13 and 19 in odd slots for 5 MHz bandwidth;

with index 1, 13, 28, 40 in even slots and 28, 40, 1, 13in odd slots for 10 MHz bandwidth;

with index 1, 17, 49, 65 in even slots and 49, 65, 1, 17 in odd slots for 15 MHz bandwidth;

with index 1, 25, 49, 73 in even slots and 49, 73, 1, 25 in odd slots for 20 MHz bandwidth.

7.3.3.3 Additional rules for RAR specific scheduling scheme

This scheme is applicable for transmission of Random Access Response mapped to DL-SCH, PDCCH scrambled by RA-RNTI. For both DCI combinations four physical resource blocks are reserved. The maximum modulation scheme is restricted to QPSK.

Following additional rules are applied for TBS selection:

- The Max TBS is restricted to 600 bits (nearest value achievable for $I_{TBS} = 9$ and $N_{PRB} = 4$, as per table 7.1.7.2.1-1 of TS 36.213 [30]).
- If the scheduled Data cannot fit into Max TBS, SS generates an error (it's a TTCN error). TTCN should gracefully exit the test case as a fatal error, assigning inconclusive verdict.
- Rules in clause 7.3.3.3.1 for DCI combination 1 and clause 7.3.3.3.2 for DCI combination 2 shall be applied.

7.3.3.3.1 RAR with DCI combination 1

TS 36.213 [30], table 7.1.7.2.1-1, rows with $I_{TBS} = 0..26$ and columns with $N_{PRB} = 2$ (corresponding to TPC LSB = 0) and 3 (corresponding to TPC LSB = 1) TBS \leq Max TBS are applicable

Distinct TBSs and all (TPC LSB, I_{TBS}) combinations for each distinct TBS are listed in the sheet.

If a TBS can have two (TPC LSB, I_{TBS}) combinations, the combination with TPC LSB = 0 is selected.

RIV indicates 4 PRBs with index 5..8 allocated.

7.3.3.3.2 RAR with DCI combination 2

TS 36.213 [30], table 7.1.7.2.3-1, $I_{TBS} = 0..17$ with TBS <= Max TBS are applicable.

RIV indicates 4 virtual RBs are allocated. These corresponds to physical RB

with index 13, 19, 2, 8 in even slots and 1, 7, 14, 20 in odd slots for 5 MHz bandwidth;

with index 2, 14, 29, 41 in even slots and 29, 41, 2, 14 in odd slots for 10 MHz bandwidth;

with index 2, 18, 50, 66 in even slots and 50, 66, 2, 18 in odd slots for 15 MHz bandwidth;

with index 2, 26, 50, 74 in even slots and 50, 74, 2, 26 in odd slots for 20 MHz bandwidth.

7.3.3.4 Additional rules for UE-dedicated scheduling scheme in normal mode

The UE-dedicated DL scheduling can work in the normal mode or in the explicit mode. The two resource allocation schemes shall be reconfigurable from each other when the UE and SS are not sending and receiving data, for instance, at end of the test preamble and before the beginning of the test body.

The present clause is specified for the use of the normal mode. The explicit mode is referred to clause 7.3.3.6.

The scheme specified in the present clause is applicable for transmission of data dedicated to a UE in a DL subframe, mapped to DL-SCH, PDCCH scrambled by C-RNTI/ SPS C-RNTI/ Temp C-RNTI when spatial multiplexing MIMO mode is not configured. The maximum modulation scheme is restricted to 64QAM. For the DCI combination 1, 20 physical resource blocks (5 to 24), and for the DCI combination 2, 17 physical resource blocks are reserved. In the case when three intra frequency cells are applied to the test in the DCI combination 1, for the purpose of interference reduction, only 9 PRBs (16 to 24) are reserved.

In TDD normal TBS selection mode, no data is transmitted in DwPTS of the special subframe. For FDD, data can be transmitted in any subframe.

The following additional rules are applied for TBS selection:

- Multiple ASPs can also carry same explicit timing information; indicating different ASP payloads, eventually needs to be transmitted in 1 TTI.
- The Max TBS is restricted to 10296 bits (Max supported by UE category type 1).

For 5 MHz bandwidth and the DCI combination 1 with 20 PRBs or DCI combination 2, the TBS 8248, 8760, and 9528 are blocked as they result in coding rates higher than 0.93.

For 5 MHz bandwidth and special DCI combination 1 with 9 PRBs, the TBS 2216, 5992 and 6712 are blocked as they result in coding rates higher than 0.93.

For 10 MHz, 15 MHz and 20 MHz bandwidths none of TBSs are blocked due to coding rates higher than 0.93.

TBS 280 is blocked for all bandwidths as it can be achieved by only Nprb =1 and Itbs=15, requiring 64 QAM modulation scheme. This TBS would normally be used for "RACH procedure MSG4+RRCconnectionSetup".

The blocked TBS are considered to be not available for selection.

- Data pending for transmission in a given sub-frame consists of (listed in transmission priority order):
 - MAC Control Elements that the SS needs to send.
 - AMD STATUS PDU(s) that the SS needs to send.
 - Data not sent in previous subframe(s).
 - Fresh Data scheduled for transmission in this subframe for all logical channels.
- Distinct TBSs and all (N_{PRB} , I_{TBS}) combinations for each distinct TBS are listed in the sheet.
- If a TBS size can be achieved with more than one combination of $I_{MCS}(I_{TBS})$ and N_{PRB} :
 - Select combination with lowest delta between N_{PRB} and I_{MCS} .

- If still more than one combination remain, select combination with highest N_{PRB} .
- Not more than one RLC Data PDU shall be placed in a MAC PDU per logical channel (i.e. minimize RLC segmentation).
- In a subframe, in case there is data pending for transmission from more than one logical channel, for each type of data pending for transmission as defined above, priority shall be given to the logical channel with the lowest logical channel priority value. In case of more than one logical channel with the same logical channel priority value, these logical channels should be served equally. Data pending for transmission from more than one logical channel will rarely happen for the signalling and protocol test.
- Data not transmitted within a subframe is scheduled as pending for transmission in the next available subframe
 according to the priorities given above. Pending data for transmission will rarely happen for the signalling and
 protocol test.
- TBS selected in a context by various platforms shall be within an allowed deterministic tolerance of:
 - 2 bytes for potential Timing Advance Command MAC Control Element (1 byte data + 1 byte MAC sub header).
 - 4 bytes each for AMD STATUS PDU (2 bytes data + 2 bytes MAC subheader).
 - Therefore in the worst case the SS may add up to (2 + 4 x N_{AMRB}) bytes to the data scheduled for transmission in a certain subframe, where N_{AMRB} is the number of AM radio bearers (SRB or DRB) actively sending DL data in the test, in any subframe.
- For DCI combination 1 RIV is calculated based on physical resource blocks corresponding to N_{PRB} of the selected TBS and (N_{PRB} , I_{TBS}) combination. The physical resource blocks that can be allocated are the first N_{PRB} resources of index range
 - 5..24 for 5 MHz bandwidth,
 - 28..49 for 10 MHz bandwidth,
 - 9..30 for 15 & 20 MHz bandwidth.
- For DCI combination 2, RBG assignment is calculated based on physical resource blocks corresponding to N_{PRB} of the selected TBS and (N_{PRB}, I_{TBS}) combination. The size of RBG is 2 for 5 MHz, 3 for 10 MHz and 4 for 15 & 20 MHz. The available physical resource blocks for allocation are:
 - For 5 MHz bandwidth, RBG1(2,3), RBG2(4,5), RBG4(8,9), RBG5(10,11), RBG7(14,15), RBG8(16,17), RBG10(20,21), RBG11(22,23) and RBG12(24). If N_{PRB} is even, the first N_{PRB} /2 available RBGs are allocated. If N_{PRB} is odd, then first (N_{PRB} -1)/2 RBGs and RBG 12 are allocated.
 - For 10 MHz bandwidth, RBG1(3,4,5), RBG2(6,7,8), RBG3(9,10,11), RBG5(15,16,17), RBG6(18,19,20), RBG10(30,31,32), RBG11(33,34,35), RBG12(36,37,38) and RBG16(48,49). If N_{PRB} mod 3 is 0, the first N_{PRB} /3 RBGs are allocated. If N_{PRB} mod 3 is 2, then first (N_{PRB} -2)/3 available RBGs and RBG 16 are allocated.
 - For 15 MHz bandwidth, RBG1(4,5,6,7), RBG2(8,9,10,11), RBG3(12,13,14,15), RBG5(20,21,22,23), RBG6(24,25,26,27), RBG7(28,29,30,31), RBG11(44,45,46,47), RBG13(52,53,54,55), RBG14(56,57,58,59), RBG15(60,61,62,63), RBG17(68,69,70,71), RBG18(72.73.74). If $N_{\rm PRB}$ mod 4 is 0, the first $N_{\rm PRB}$ /4 RBGs are allocated. If $N_{\rm PRB}$ mod 4 is 3, then first ($N_{\rm PRB}$ -3)/4 available RBGs and RBG 18 are allocated.
 - For 20 MHz bandwidth, RBG1(4,5,6,7), RBG2(8,9,10,11), RBG3(12,13,14,15), RBG4(16,17,18,19),
 RBG5(20,21,22,23), RBG7(28,29,30,31), RBG8(32,33,34,35), RBG9(36,37,38,39), RBG10(40,41,42,43),
 RBG14(56,57,58,59), RBG15(60,61,62,63), RBG16(64,65,66,67), RBG17(68,69,70,71),
 RBG19(76.77.78.79) and RBG20(80,81,82,83). The first N_{PRB} /4 RBGs are allocated.

7.3.3.5 DL Resource allocation bitmaps

7.3.3.5.1 DCI combination 1

Table 7.3.3.5.1-1: Physical resource allocation bitmap for DCI combination 1 (5 MHz) with 20 PRBs

N_{PRB}	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
BCCH																									
PCCH																									
RAR																									
UE-Dedicated																									

Table 7.3.3.5.1-2: Physical resource allocation bitmap for DCI combination 1 (5 MHz) with 9 PRBs

N_{PRB}	0	1	2	3	4	5	6	7	8	တ	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
BCCH																									
PCCH																									
RAR																									
UE-Dedicated																									

Table 7.3.3.5.1-3 (columns 0–34): Physical resource allocation bitmap for DCI combination 1 (10 MHz)

N_{PRB}	0	1	2	3	4	5	6	7	8	922	2327	28	29	30	31	32	33	34
BCCH																		
PCCH										Not	Used for PBCH and other common							
RAR										Used	signals							
UE-Specific																		

Table 7.3.3.5.1-3 (columns 35–49): Physical resource allocation bitmap for DCI combination 1 (10 MHz)

N_{PRB}	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49
BCCH															
PCCH															
RAR															
UE-Specific															

Table 7.3.3.5.1-3A (columns 0–20): Physical resource allocation bitmap for DCI combination 1 (15 MHz)

N_{PRB}	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
BCCH																					
PCCH RAR																					
RAR																					
UE-Specific																					

Table 7.3.3.5.1-3B (columns 21-74): Physical resource allocation bitmap for DCI combination 1 (15 MHz)

N_{PRB}	21	22	23	24	25	26	27	28	29	30	3133	3441	4274
BCCH												MALLE ENGROUS	
PCCH												Used for PBCH and	Not Used
RAR											Not Used	other common signals	Not Osea
UE-Specific												Signals	

Table 7.3.3.5.1-4 (columns 0–20): Physical resource allocation bitmap for DCI combination 1 (20 MHz)

N_{PRB}	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
BCCH																					
PCCH																					
RAR																					
UE-Specific																					

Table 7.3.3.5.1-5 (columns 21-99): Physical resource allocation bitmap for DCI combination 1 (20 MHz)

N_{PRB}	21	22	23	24	25	26	27	28	29	30	3146	4752	5399
BCCH												Used for PBCH and	
PCCH											Not Hood		
RAR											Not Used	other common	Not Used
UE-Specific												ellengia	

7.3.3.5.2 DCI combination 2

Table 7.3.3.5.2-1: Physical resource allocation bitmap for DCI combination 2 (5 MHz)

N_{PRB}	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
BCCH-Even	0						1						2						3						ı
BCCH-Odd	2						3						0						1						
PCCH-Even		4						5																	
PCCH-Odd														4						5					
RAR-Even			8						9					6						7					
RAR-Odd		6						7							8						9				
UE-Dedicated																									

Table 7.3.3.5.2-2 (columns 0-20): Physical resource allocation bitmap for DCI combination 2 (10 MHz)

N_{PRB}	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
BCCH-Even	0												1								
BCCH-Odd	2												3								
PCCH-Even		4												5							
PCCH-Odd		6												7							
RAR-Even			8												9						
RAR-Odd			10												11						
UE-Specific	Х	Х											Х	Х							
RBGs		0			1			2			3			4			5			6	

Table 7.3.3.5.2-2 (columns 21-41): Physical resource allocation bitmap for DCI combination 2 (10 MHz)

N_{PRB}	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41
BCCH-Even							2												3		
BCCH-Odd							0												1		
PCCH-Even								6												7	
PCCH-Odd								4												5	
RAR-Even									10												11
RAR-Odd									8												9
UE-Specific		X	×	×	×	X	×	х											Х	Х	
RBGs		7			8			9			10			11			12			13	

Table 7.3.3.5.2-2 (columns 42-49): Physical resource allocation bitmap for DCI combination 2 (10 MHz)

N_{PRB}	42	43	44	45	46	47	48	49
BCCH-Even								
BCCH-Odd								
PCCH-Even						lot I	Jsed	ı
PCCH-Odd					1	NOI C	JS60	
RAR-Even								
RAR-Odd								
UE-Specific								
RBG's		14			15		1	6

Table 7.3.3.5.2-2a (columns 0-19): Physical resource allocation bitmap for DCI combination 2 (15 MHz)

nprb	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
BCCH-																				
Even	0																1			
BCCH-Odd	2																3			
PCCH-																				
Even		4																5		
PCCH-Odd		6																7		
RAR-Even			8																9	
RAR-Odd			10																11	
UE-Specific	Х	Х															Х	Х		
RBG's				0				1				2				3				4

Table 7.3.3.5.2-2a (columns 20-39): Physical resource allocation bitmap for DCI combination 2 (15 MHz)

nprb	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39
BCCH-																				
Even																				
BCCH-Odd																				
PCCH-																				
Even																				
PCCH-Odd																				
RAR-Even																				
RAR-Odd																				
UE-Specific																				
RBG's			•	5				6				7				8				9

Table 7.3.3.5.2-2a (columns 40-59): Physical resource allocation bitmap for DCI combination 2 (15 MHz)

nprb	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59
BCCH-																				
Even									2											
BCCH-Odd									0											
PCCH-																				
Even										6										
PCCH-Odd										4										
RAR-Even											10									
RAR-Odd											8									
UE-Specific									Х	Х										

RBG's	10	11	12	13	14
INDO 3	10	1.1	14	13	17

Table 7.3.3.5.2-2a (columns 60-74): Physical resource allocation bitmap for DCI combination 2 (15 MHz)

nprb	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74
BCCH-															
Even					3										
BCCH-Odd					1										
PCCH-															
Even						7									
PCCH-Odd						5									
RAR-Even							11								
RAR-Odd							9								
UE-Specific					Х	Х									
RBG's				15				16				17			18

Table 7.3.3.5.2-3 (columns 0-19): Physical resource allocation bitmap for DCI combination 2 (20 MHz)

N_{PRB}	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
BCCH-Even	0																			
BCCH-Odd	2																			
PCCH-Even		4																		
PCCH-Odd		6																		
RAR-Even			8																	
RAR-Odd			10																	
UE-Specific	Х	Х																		
RBGs		C				1				2				3	}			4		Ī

Table 7.3.3.5.2-3 (columns 20-39): Physical resource allocation bitmap for DCI combination 2 (20 MHz)

N_{PRB}	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39
BCCH-Even					1															
BCCH-Odd					3															
PCCH-Even						5														
PCCH-Odd						7														
RAR-Even							9													
RAR-Odd							11													
UE-Specific					Х	X														
RBGs		5	5			6)			7	,			8				Ĝ)	•

Table 7.3.3.5.2-3 (columns 40-59): Physical resource allocation bitmap for DCI combination 2 (20 MHz)

N_{PRB}	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59
BCCH-Even									2											
BCCH-Odd									0											
PCCH-Even										6										
PCCH-Odd										4										
RAR-Even											10									
RAR-Odd											8									
UE-Specific									X	×	X									
RBG's		1	0			1	1			1:	2			1:	3			1	4	

Table 7.3.3.5.2-3 (columns 60-79): Physical resource allocation bitmap for DCI combination 2 (20 MHz)

N_{PRB}	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79
BCCH-Even													3							
BCCH-Odd													1							
PCCH-Even														7						
PCCH-Odd														5						
RAR-Even															11					
RAR-Odd															9					
UE-Specific													Х	Х						
RBGs		1:	5			10	6			1	7			18	8			19	9	

Table 7.3.3.5.2-3 (columns 80-99): Physical resource allocation bitmap for DCI combination 2 (20 MHz)

N_{PRB}	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99
BCCH-Even																				
BCCH-Odd																				
PCCH-Even																	1	Not l	Jsed	
PCCH-Odd																				
RAR-Even																				
RAR-Odd																				
UE-Specific																				
RBGs		2	0			2	1			2	2			2	3			2	4	

NOTE: Odd and even refer to slots.

7.3.3.6 UE-dedicated scheduling scheme in explicit mode

This scheme applies to:

- 1. spatial multiplexing MIMO configurations or
- 2. *transmit diversity MIMO configurations* and non-MIMO configuration where the normal mode scheduling scheme is inappropriate.

SS is configured with an exact TBS (modulation and coding scheme, I_{mcs} , and number of resource blocks, N_{prb}) to use. Other parameters, such as the HARQ process number and redundancy version to use for each transmission, are also configured by the TTCN. SS shall use TBS sheets with matching DCI format and Resource allocation Type. If the parameter 'FirstRbIndex' is configured different than specified in respective TBS sheet, the resource block bit maps in TBS sheet s are shifted by 'FirstRbIndex' and applied, with an exception for Resource allocation type 0 where only the full size 'Resource block groups' are shifted by 'FirstRbIndex'; if the last Resource block group is not full size, and is part of resource block bitmap, it is applied without any shift.

All data scheduled for a certain subframe shall be transmitted in the single indicated subframe, using configured parameters. The TTCN shall ensure that the configured parameters are consistent, in particular that the scheduled data size and the configured TBS match each other. Data scheduled by the prose, and hence also by the TTCN, provides possible space for the Timing Advance MAC control element and the RLC Status PDU. The SS shall include one of these if so triggered, else the bits reserved for these are filled by MAC padding.

Additionally, in the case of MIMO data scheduled for transmission in a given sub-frame, this consists of (listed in transmission priority order):

- MAC Control Elements that the SS needs to send (if triggered).
- AMD STATUS PDU(s) that the SS needs to send (if triggered).
- Fresh data scheduled for transmission in this subframe for one or more logical channels, as per logical channel priority [lower value = higher priority]; if data is available for more than one logical channel with the same priority, then the logical channel corresponding to the DRB-ID with the lower value has the higher priority.
- MAC padding.

The following additional rules need to be applied on data scheduled for transmission to be mapped on two transport blocks corresponding to two code words:

- Higher priority data (as stated above) maps on to Transport Block 1 and lower priority data maps on Transport Block 2 (if Transport Block 1 gets full); and
- Minimum MAC padding is performed in Transport Block 1; and
- If data from one logical channel needs to be mapped on to two transport blocks, the PDCP PDUs with lower PDCP sequence numbers get mapped on to Transport Block 1.

By default no data is scheduled in TDD special subframes (i.e. subframes 1 and 6 for default TDD subframe configuration). For testing DL data reception in TDD special subframe, explicit mode TBS selection shall be used. The TTCN shall ensure that the configured parameters are consistent, in particular that the scheduled data size and the configured TBS match each other. As per TS36.213 [30] clause 7.1.7, for special subframe configuration 9 with normal cyclic prefix or special subframe configuration 7 with extended cyclic prefix, the actual Nprb used for TB size calculation will be a max(floor{ Nprb in DCI command *0.375},1). Tables 7.3.3.6-1/2 give the mapping for Nprb in DCI command and Nprb used for TB size determination.

Table 7.3.3.6-1: Nprb DCI to Nprb TBS mapping for 20 Mhz

Nprb in DCI command (configured by TTCN)	4	8	12	16	20	24	28	32	36	40	44	48	54	60
Nprb used for TBS determination	1	3	4	6	7	9	10	12	13	15	16	18	20	22

Table 7.3.3.6-2: Nprb DCI to Nprb TBS mapping for 5 Mhz

Nprb in DCI command (configured by TTCN)	4	6	8	12	14	16
Nprb used for TBS determination	1	2	3	4	5	6

7.3.3.6.1 DL Scheduling in Transport Block Size Selection Test Cases

The MAC transport block size selection test cases defined in clause 7.1.7 of TS 36.523-1 [1], use bandwidths of 5/10/15/20MHz. For the preamble and post amble in these tests, the default scheduling rules defined in clauses 7.3.3.1 to 7.3.3.4 for 5/10/15/20 MHz and DCI combination 1A are applied respectively. During the test body, when the actual TB sizes with appropriate DCI and resource allocation formats needed are to be tested, the SS is configured in explicit mode for UE-dedicated scheduling.

7.3.3.7 Resource allocation sheets

Attached with this Technical Specification, the DL resource allocation tables can be found, providing physical resource allocations for various transport block sizes, developed as per rules specified in clause 7.3.3, in Microsoft Excel format. Each individual sheet in the workbook represents various scheduling schemes as per table 7.3.3.7-1.

Table 7.3.3.7-1: DL resource allocation sheets

S. No	Sheet Name	Description
1	DCI-1A-PCCH	DL Resource scheduling for DCI format 1A and PDCCH is
		scrambled by P-RNTI (5 MHz, 10 MHz, 15 MHz and 20 MHz)
2	DCI-1A-BCCH	DL Resource scheduling for DCI format 1A and PDCCH is
		scrambled by SI-RNTI (5 MHz, 10 MHz, 15 MHz and 20 MHz)
3	DCI-1A-RAR	DL Resource scheduling for DCI format 1A and PDCCH is
		scrambled by RA-RNTI (5 MHz, 10 MHz, 15 MHz and 20 MHz)
4	DCI-1A-UE-Specific	DL Resource scheduling for DCI format 1A and PDCCH is
		scrambled by C-RNTI/ SPS C-RNTI/ Temp C-RNTI (5 MHz)
5	DCI-1A-3-IntraFreq-	DL Resource scheduling for DCI format 1A and PDCCH is
	UE-Specific	scrambled by C-RNTI/ SPS C-RNTI/ Temp C-RNTI and three Intra
		Freq cells are configured (5 MHz)

S. No	Sheet Name	Description
6	DCI-1A-UE-Specific-10MHz	DL Resource scheduling for DCI format 1A and PDCCH is scrambled by C-RNTI/ SPS C-RNTI/ Temp C-RNTI (10 MHz)
6A	DCI-1A-UE-Specific-15MHz	DL Resource scheduling for DCI format 1A and PDCCH is scrambled by C-RNTI/ SPS C-RNTI/ Temp C-RNTI (15 MHz)
7	DCI-1A-UE-Specific-20MHz	DL Resource scheduling for DCI format 1A and PDCCH is scrambled by C-RNTI/ SPS C-RNTI/ Temp C-RNTI (20 MHz) Also in preamble/postamble phase of MAC TBS test cases with 15
8	DCI-1C-PCCH	MHz bandwidth configured DL Resource scheduling for DCI format 1C and PDCCH is scrambled by P-RNTI (5 MHz)
9	DCI-1C-BCCH	DL Resource scheduling for DCI format 1C and PDCCH is scrambled by SI-RNTI (5 MHz)
10	DCI-1C-RAR	DL Resource scheduling for DCI format 1C and PDCCH is scrambled by RA-RNTI (5 MHz)
11	DCI-1-UE-Specific	DL Resource scheduling for DCI format 1, Resource allocation 0 and PDCCH is scrambled by C-RNTI/ SPS C-RNTI/ Temp C-RNTI (5 MHz)
12	DCI-1C-PCCH-10MHz-Gap1	DL Resource scheduling for DCI format 1C and PDCCH is scrambled by P-RNTI (10 MHz)
13	DCI-1C-BCCH-10MHz-Gap1	DL Resource scheduling for DCI format 1C and PDCCH is scrambled by SI-RNTI (10 MHz)
14	DCI-1C-RAR-10MHz-Gap1	DL Resource scheduling for DCI format 1C and PDCCH is scrambled by RA-RNTI (10 MHz)
15	DCI-1-UE-Specific- 10MHz-Gap1	DL Resource scheduling for DCI format 1, Resource allocation 0 and PDCCH is scrambled by C-RNTI/ SPS C-RNTI/ Temp C-RNTI (10 MHz)
15A	DCI-1C-PCCH-15MHz-Gap1	DL Resource scheduling for DCI format 1C and PDCCH is scrambled by P-RNTI (15 MHz)
15B	DCI-1C-BCCH-15MHz-Gap1	DL Resource scheduling for DCI format 1C and PDCCH is scrambled by SI-RNTI (15 MHz)
15C	DCI-1C-RAR-15MHz-Gap1	DL Resource scheduling for DCI format 1C and PDCCH is scrambled by RA-RNTI (15 MHz)
15D	DCI-1-UE-Specific- 15MHz-Gap1	DL Resource scheduling for DCI format 1, Resource allocation 0 and PDCCH is scrambled by C-RNTI/ SPS C-RNTI/ Temp C-RNTI (15 MHz)
16	DCI-1C-PCCH-20MHz-Gap1	DL Resource scheduling for DCI format 1C and PDCCH is scrambled by P-RNTI (20 MHz)
17	DCI-1C-BCCH-20MHz-Gap1	DL Resource scheduling for DCI format 1C and PDCCH is scrambled by SI-RNTI (20 MHz)
18	DCI-1C-RAR-20MHz-Gap1	DL Resource scheduling for DCI format 1C and PDCCH is scrambled by RA-RNTI (20 MHz)
19	DCI-1-UE-Specific-20MHz- Gap1	DL Resource scheduling for DCI format 1, Resource allocation 0 and PDCCH is scrambled by C-RNTI/ SPS C-RNTI/ Temp C-RNTI (20 MHz)
20	DCI-1-RA0-ExplicitConfig	DL Resource scheduling for DCI format 1, Resource allocation 0 and PDCCH is scrambled by C-RNTI
21	DCI-1-RA1-ExplicitConfig	DL Resource scheduling for DCI format 1, Resource allocation 1 and PDCCH is scrambled by C-RNTI
22	DCI1A-ExplicitConfig	DL Resource scheduling for DCI format 1A, Resource allocation 2(localised & distributed) and PDCCH is scrambled by C-RNTI
23	DCI-2A-RA0-ExplicitConfig	DL Resource scheduling for DCI format 2A, Resource allocation 0 and PDCCH is scrambled by C-RNTI
24	DCI-2A-RA1-ExplicitConfig	DL Resource scheduling for DCI format 2A, Resource allocation 1 and PDCCH is scrambled by C-RNTI

7.4 Cell Configurations

7.4.1 Cell Configuration Types

Three cell configurations are defined in TS 36.508 [3] clause 6.3.3: Full Cell, Minimum Uplink Cell and Broadcast Only Cell; however the TTCN always considers all cells as Full Cells, and thus always provides the complete cell configuration parameters.

The SS may:

- always configure a cell as a 'Full Cell' based on the complete information; or
- configure the cell based on the 'CellConfig_Type' flag taking only the required configuration parameters and ignoring the others.

For a given value of the 'CellConfig_Type' flag, the TTCN shall:

- For Full Cell Configuration:
 - expect normal SS behaviour.
- For Minimum Uplink Cell Configuration:
 - Configure the SS to report Preamble detection.
 - Assign verdicts based on the PRACH Preamble Indications.
 - Consume any uplink SRB0 messages (if the SS is configured as a Full Cell).
- For Broadcast Only Cell Configuration:
 - Not configure the SS to report Preamble detection.
 - Consume any uplink SRB0 messages (if the SS is configured as a Full Cell).

7.4.2 Cell Power Change

To set and adjust the cell power at the two test ports, Reference Power and Attenuation, are provided in the record Reference Power.

The field Reference Power is only set when the cell is created and is not updated during the test case execution. The SS applies the Reference Power when the cell is fully configured.

To adjust the power level in the test case, the field Attenuation is used. After initial configuration of a cell the attenuation corresponds to the value "off". When the power is changed for more than one cell, the power changes must happen at the same time for all the cells according to the time instances for power level changes specified in TS 36.523-1 [1]. The time it takes to complete the power change for all the cells shall be done:

- within a maximum of 700 ms when changing the power of a cell from "off" to a certain value; or
- within a maximum of 100 ms (10 frames) otherwise.

The SS shall ensure the power level at the test ports conform to the required downlink signal levels specified in clause 6.2.2.1 of TS 36.508 [3].

7.4.3 E-UTRAN cell identity

7.4.3.1 Timing parameters of cells

For RRC and Idle mode test, the timing parameters in table 7.4.3.1-1 are applied. The specification of Cell 1 - Cell 30 can be found in TS 36.508 [3].

Table 7.4.3.1-1: Timing parameters of simulated cells

cell ID	SFN offset	FDD Tcell	TDD	Tcell (<i>Ts</i>)
		(Ts)	Synchronous	Non synchronous
Cell 1	0	0	0	0
Cell 2	124	30720	154	30720
Cell 3	257	150897	77	150897
Cell 4	1000	61440	307	61440
Cell 6	657	524	77	524
Cell 10	129	43658	77	43658
Cell 11	957	92160	154	92160
Cell 12	1015	181617	154	181617
Cell 13	890	31244	154	31244
Cell 14	680	300501	77	300501
Cell 23	383	212337	154	212337
Cell 28	890	31244	154	31244
Cell 29	680	300501	77	300501
Cell 30	1015	181617	154	181617
NOTE:	For TDD, syr test cases.	nchronous Tcell	values are applied unle	ss specified otherwise in the

Table 7.4.3.1-2 is applied to the NAS test when more than one PLMN exists in a test case. Further cell parameters can be found in TS 36.508 [3], table 6.3.2.2-3.

Table 7.4.3.1-2: Timing parameters of simulated cells for NAS TCs in different PLMNs

cell ID	SFN	FDD Tcell	TDD	Tcell (Ts)				
	offset	(Ts)	Synchronous	Non synchronous				
Cell A	0	0	0	0				
Cell B	124	30720	154	30720				
Cell C	257	61440	307	61440				
Cell D	1000	92160	154	92160				
Cell E	752	32047	77	32047				
Cell F	NA	NA	NA	NA				
Cell G	957	631	77	631				
Cell H	1015	31351	154	31351				
Cell I	890	127200	77	127200				
Cell J	680	1327	77	1327				
Cell K	383	157920	154	157920				
Cell L	562	188640	307	188640				
Cell M	471	122880	307	122880				
NOTE: For TDD, synchronous Tcell values are applied unless specified otherwise in the test cases.								

Figure 7.4.3.1-3 illustrates shifting DL transmission timing offset by Tcell = 1 subframe, between multiple NAS FDD cells on the same frequency (table 7.4.3.1-4) in the same PLMN.

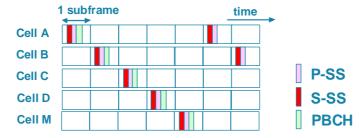


Figure 7.4.3.1-3: Timing offset between FDD cells on the same frequency

Table 7.4.3.1-4 is applied to the NAS test when all NAS cells in a test case belong to the same PLMN. Further cell parameters can be found in TS 36.508 [3], table 6.3.2.2-2.

Table 7.4.3.1-4: Timing parameters of simulated cells for NAS TCs in same PLMN

cell ID	SFN	offset	FDD Tcell (Ts)	TDD Tc	ell (Ts)
			, ,	Synchronous	Non synchronous
Cell A		0	0	0	0
Cell B		124	30720	154	30720
Cell C		257	150897	77	150897
Cell D	1	000	61440	307	61440
Cell E		NA	NA	NA	NA
Cell F		NA	NA	NA	NA
Cell G		NA	NA	NA	NA
Cell H		NA	NA	NA	NA
Cell I		NA	NA	NA	NA
Cell J		NA	NA	NA	NA
Cell K		NA	NA	NA	NA
Cell L		NA	NA	NA	NA
Cell M		471	31244	154	31244
NOTE: For case		onous Tcel	values are applied	unless specified oth	nerwise in the test

Shifting radio frame transmission timing can eliminate the following interference between intra frequency cells:

- P-SS/S-SS to P-SS/S-SS, RS, PBCH, PCFICH, PDCCH and PHICH.
- PBCH to PBCH.
- PBCH to PCFICH, PDCCH and PHICH.
- PDSCH to PCFICH, PDCCH, PHICH.

As TDD UL and DL are on same frequency, to avoid interference between DL and UL, the Random Access Response Timing Advance (RAR TA) is related to the Tcell:

For TDD cells

RAR TA = FLOOR ((Tcell) mod 30720 / 16)

For FDD, the Random Access Response Timing Advance is set to 0.

In MBMS test cases, cells belonging to the same MBSFN Area have a synchronized radio frame timing: the SFN offset and Tcell values are set to the values of the cell having the lower cellId value.

In Carrier Aggregation signalling test cases, the SFN offset and Tcell of configured cells has to be same.

Editors note: More clarification in terms of tables representing configured cells may be needed. Cell 1, Cell 2, Cell3, Cell12 & Cell 6 are configured in CA test cases.

7.4.4 Cell configurations for NAS test cases

The default cell identifiers for NAS cells are defined in 36.508[3] clause 6.3.2.2.

The allocation of Physical layer cell identifiers to the individual cells is according to (*PCI mode 6*) being differential for the cells working on the same radio frequency. The way of PCI allocation can reduce the interference between the intrafrequency cells for reference signal to reference signal, PCFICH to PCFICH and PHICH to PHICH. The definition of Cell A - Cell M can be found in TS 36.508 [3].

7.4.5 Configuration of Multi-Cell Environment

When there is more than one EUTRA cell in a test case the following rules are applied in TTCN:

- At the beginning of the preamble, before initial attachment of the UE, all EUTRA cells are configured but switched off.
- In the preamble only the serving cell is switched on; all other cells remain switched off.
- At the end of the preamble the cells are configured according to the initial power level settings (T0) of the test case.

The mapping of cells to physical resources and management of the physical resources are out of TTCN scope. The following principles can be applied to the system simulator:

- Cells being switched off need not to be mapped to physical resources.
- When a cell is switched off mapping to a physical resource may be kept and reused when the cell is switched on again.
- When a cell is switched on it can either already been mapped to a physical resource or it needs to be mapped to a free resource.
- When there are less physical resources than cells it is up to SS implementation to find strategies to dynamically map the cells to the resources.

Independent from the strategies being used the system simulator shall obey timing restrictions for changing power-levels of one or several cells as stated in clause 7.4.2.

7.5 TDD Considerations

LTE options of FDD and TDD will be contained in the same common FDD and TDD test cases, similar to the prose in TS 36.523-1 [1].

The TDD Uplink-downlink configuration 1 in 3GPP TS 36.211 [35], table 4.2-2 is applied.

7.5.1 FDD vs. TDD implementation

FDD/TDD differences are introduced in the common FDD and TDD test cases using branches at a low level in the test case. The branches are used either:

- to assign a variable;
- to implement a different behaviour;
- to change an FDD or TDD parameter in a template sent to the UE or SS.

The mode under test (FDD or TDD) is based on the value of the bands under test.

7.5.2 Guideline for FDD vs. TDD verification

With respect to EUTRA FDD vs. TDD technologies, it is recommended that separate verifications for FDD and TDD are required for the TCs in TS 36.523-1 [1]:

- clause 6, 7, 8, 12, 13;
- with MultiRAT involved.

7.6 Special RLC Modes

7.6.1 Suppression of RLC Acknowledgements

Two different modes, both applicable per radio bearer, are defined as:

- General suppression:

- If this mode is activated, no RLC acknowledgements will be generated by the SS. This mode can be switched on and will persist until it is switched off. Afterwards the SS will continue handling the RLC acknowledgements as normal.
- One time suppression:
 - If this mode is activated, no RLC acknowledgement will be generated by SS for the next RLC message data PDU received. Once this has been done, the SS continues handling RLC acknowledgements as normal.

In case of a handover the modes continue to be active.

7.6.2 Modification of VT(S)

This mode allows to manipulate the RLC state variable VT(S) so that the SS can generate an RLC sequence number as needed during a test. The input to the special test mode is an integer (0..1023) as value of ModifyVTS, The SS shall set variable VT(S) as follows:

$$VT(S) := ModifyVTS.$$

The purpose of this special test mode is to force an incorrect RLC sequence number to be used by the SS. Once VT(S) has been modified in the RLC entity at the SS side, this RLC entity will be inconsistent. One possibility to bring the RLC entity back to normal is to re-establish the RLC peer connection. This is done in the only use case of this special RLC test mode by performing an RRC Connection reconfiguration immediately after the test mode has been applied.

Users of this test mode should ensure that the RLC AM PDU carrying the incorrect sequence number will reach the peer RLC entity. It is therefore recommended to activate the RRC Connection reconfiguration only after some delay. This delay shall be short enough to ensure that the UE will not yet request the retransmission of the RLC PDU corresponding to the skipped sequence numbers.

7.7 System information

7.7.1 System information broadcasting

The rules for the transmission of BCCH messages are specified in TS 36.331 [19], clause 5.2. The current clause provides the implementation guidelines.

The ASPs SYSTEM_CTRL_REQ and SYSTEM_CTRL_CNF are used as interface to SS; the following rules apply:

- The complete system information is provided to SS by using a single ASP.
- SS starts scheduling all system information from the same SFN.
- The scheduling information sent to SS is the same as the scheduling information sent to the UE. For each SI message, the subframeOffset in SYSTEM_CTRL_REQ indicates the exact point in time in the SI window at which SS shall start the transmission of the related SI.
- SS shall set the systemFrameNumber in the MIB to the 8 most significant bits of the SFN. A dummy value is provided by TTCN.
- The system information is sent to SS using the asn.1 types, SS shall encode in unaligned PER and add the necessary padding bits as specified in TS 36.331 [19], clause 9.1.1.1.
- In the E-UTRAN-CDMA2000 Inter RAT configuration, SS shall set the CDMA2000 synchronousSystemTime in SystemInformationBlockType8 to the SFN boundary at or after the ending boundary of the SI-window in which SystemInformationBlockType8 is transmitted (see TS 36.331 [19], clause 6.3.4). The changes of synchronousSystemTime will not result in system information change notification, nor in a modification of systemInfoValueTag in SIB1 in TTCN as specified in TS 36.331 [19], clause 6.3.1. If 1xRTT is being tested, then SS shall overwrite the longCodeState1XRTT in SystemInformationBlockType8 to the state of long code generation registers in CDMA2000 1xRTT system as defined in C.S0002-A [12, Section 1.3] at

 [t/10]×10+320 ms, where t equals to the cdma-SystemTime. The changes of longCodeState1XRTT will not result in system information change notification, nor in a modification of systemInfoValueTag in SIB1 in TTCN as specified in TS 36.331 [19], clause 6.3.1.

7.7.2 Scheduling information

The maximum number of resource blocks as defined in table 7.7.2-1 are used to broadcast the system information.

Table 7.7.2-1: Maximum number of resource blocks

	Maximum number of resource blocks assigned
SIB1	4
for all SIs	4

The subframe offset values used for SI messages are according to table 7.7.2-2.

Table 7.7.2-2: SubframeOffset values

Scheduling Information No. Acc to TS 36.508 [3], clause 4.4.3.1.2	subframeOffset (FDD)	subframeOffset (TDD)
SI1	1	0
SI2	1	0
SI3	3	15
SI4	7	15
SI5	7	15

All System Information messages are sent only once within the SI-window.

Table 7.7.2-3 (FDD) and 7.7.2-4(TDD) give the SFN's and subframe numbers in which the MIB, SI1, SI2, SI3, SI4 & SI5 are actually scheduled as per default parameters for si-WindowLength(20sf), periodicity for SI1(16), SI2(32), SI3(64), SI4(64) and SI5(64) for bandwidths 5/10/15/20 MHz defined in TS 36.508 [3]:

Table 7.7.2-3: System Information Scheduling (FDD)

SFN\SUBFrame	0	1	2	3	4	5	6	7	8	9
0	MIB	SI1				SIB1				
1	MIB									
2	MIB	SI2				SIB1				
3	MIB									
4	MIB			SI3		SIB1				
5	MIB									
6	MIB					SIB1		SI4		
7	MIB									
8	MIB					SIB1		SI5		
9	MIB									
10	MIB					SIB1				
11	MIB									
12	MIB					SIB1				
13	MIB									
14	MIB					SIB1				
15	MIB									
16	MIB	SI1				SIB1				
17	MIB									
18	MIB					SIB1				
19	MIB									
20	MIB					SIB1				
21	MIB									
22	MIB					SIB1				
23	MIB									
24	MIB					SIB1				
25	MIB									
26	MIB					SIB1				
27	MIB									
28	MIB					SIB1				
29	MIB									
30	MIB					SIB1				
31	MIB									

SFN\SUBFrame	0	1	2	3	4	5	6	7	8	9
32	MIB	SI1				SIB1				
33	MIB									
34	MIB	SI2				SIB1				
35	MIB									
36	MIB					SIB1				
37	MIB									
38	MIB					SIB1				
39	MIB									
40	MIB					SIB1				
41	MIB									
42	MIB					SIB1				
43	MIB									
44	MIB					SIB1				
45	MIB									
46	MIB					SIB1				
47	MIB									
48	MIB	SI1				SIB1				
49	MIB									
50	MIB					SIB1				
51	MIB									
52	MIB					SIB1				
53	MIB									
54	MIB					SIB1				
55	MIB									
56	MIB					SIB1				
57	MIB									
58	MIB					SIB1				
59	MIB									
60	MIB					SIB1				
61	MIB									
62	MIB					SIB1				
63	MIB									
64	MIB	SI1				SIB1				
65	MIB									
66	MIB	SI2				SIB1				
67	MIB									
68	MIB			SI3		SIB1				
69	MIB									
70	MIB					SIB1		SI4		
71	MIB									
72	MIB					SIB1		SI5		

Table 7.7.2-4: System Information Scheduling (TDD)

SFN\SUBFrame	0	1	2	3	4	5	6	7	8	9
0	MIB, SI1					SIB1				
1	MIB									
2	MIB, SI2					SIB1				
3	MIB									
4	MIB					SIB1				
5	MIB					SI3				
6	MIB					SIB1				
7	MIB					SI4				
8	MIB					SIB1				
9	MIB					SI5				
10	MIB					SIB1				
11	MIB									
12	MIB					SIB1				
13	MIB									
14	MIB					SIB1				
15	MIB									
16	MIB, SI1					SIB1				
17	MIB									

SFN\SUBFrame	0	1	2	3	4	5	6	7	8	9
18	MIB	•		3	7	SIB1	U	,	0	9
19	MIB					SIDT				
20	MIB					SIB1				
21	MIB					OID I				
22	MIB					SIB1				
23	MIB					OID I				
24	MIB					SIB1				
25	MIB					OID I				
26	MIB					SIB1				
27	MIB					OID I				
28	MIB					SIB1				
29	MIB					SIDT				
30	MIB					SIB1				
31	MIB					SIDT				
32	MIB, SI1					SIB1				
33	MIB					SIDT				
	MIB, SI2					CID4				
34 35	MIB					SIB1		-		1
36	MIB			-		SIB1				-
37	MIB					SIDI				
						CID4				
38	MIB					SIB1				
39	MIB					CID4				
40	MIB					SIB1				
41	MIB					OID4				
42	MIB					SIB1				
43	MIB					OID 4				
44	MIB					SIB1				
45	MIB					OID 4				
46	MIB					SIB1				
47	MIB					OID 4				
48	MIB, SI1					SIB1				
49	MIB					OID 4				
50	MIB					SIB1				
51	MIB					OID 4				
52	MIB					SIB1				
53	MIB					OID 4				
54	MIB			_		SIB1			<u> </u>	-
55	MIB			_		015.4			<u> </u>	-
56	MIB			-		SIB1				1
57	MIB					015.4		1		-
58	MIB			_		SIB1			<u> </u>	-
59	MIB			ļ		015.4		1		-
60	MIB			ļ		SIB1		1		-
61	MIB			ļ		010 :		1		-
62	MIB			ļ		SIB1			ļ	
63	MIB			ļ		015 /		1		
64	MIB, SI1			ļ		SIB1		1		
65	MIB			ļ		6:5:		1		
66	MIB, SI2			ļ		SIB1			ļ	
67	MIB			ļ		1			<u> </u>	
68	MIB					SIB1				
69	MIB					SI3				
70	MIB					SIB1				
71	MIB					SI4				
72	MIB					SIB1				
73	MIB					SI5				

NOTE: Subframes 4 and 9 are avoided so as to facilitate availability of PDCCHs in the UE specific search space for transmission of PDCCH for both UL C-RNTI/SPS-RNTI and DL C-RNTI/SPS-RNTI/Temp C-RNTI.

7.7.3 System information modification

For system information modification, the same rules as defined in clause 7.7.1 are applied.

The SFN for the start of modification period is calculated by TTCN. The modified system information and the calculated SFN are provided in the ASP SYSTEM_CTRL_REQ.

7.7.3.1 Non-PWS System Information modification

The modification of system information is notified by paging messages containing the systemInfoModification. The paging messages are sent during one modification period before broadcasting the modified system information. The paging messages are sent on paging occasions (PO) within the paging frames (PF). With the default paging and sysinfo parameters provided in 36.508[3] PO is set to 9 for FDD and 0 for TDD.

7.7.3.1.1 UE in Idle_mode

When the UE is in idle mode, the paging frames calculation is based on the UE identity (see to TS 36.304 [14], clause 7). With:

defaultPagingCycle = 128

nB=oneT

modificationPeriodCoeff=n4

it results in 4 paging messages to be sent on the paging occasions during the modification period in the frames of:

SFN mod $128 = (UE_ID) \mod 128$.

7.7.3.1.2 UE in connected mode

When the UE is in connected mode, paging messages are sent on the paging occasions of each frame within the paging cycle throughout a modification period. This results in 128*4 consecutive paging messages to be sent during the modification period.

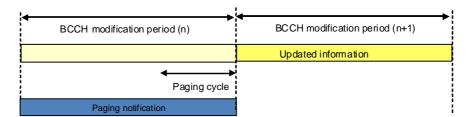


Figure 7.7.3.1.2-1: Paging notification UE in connected mode

For ETWS and/or CMAS capable UEs in connected mode, paging messages are sent on the paging occasions of each frame within the last paging cycle of the modification period. This results in 128 consecutive paging messages to be sent during the modification period.

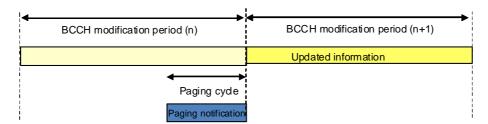


Figure 7.7.3.1.2-2: Paging notification for ETWS and/or CMAS capable UE in connected mode

7.7.3.2 PWS System Information modification

The modification of system information for ETWS and CMAS notification is notified by paging messages. The transmission of system information notification is not necessarily at the beginning of a modification period.

When the UE is in idle mode, the paging frames calculation is the same as defined in clause 7.7.3.1.1.

When the UE is in connected mode, paging messages are sent on the paging occasions of each frame during a paging cycle. This results in 128 consecutive paging messages to be sent. The transmission of the first paging message and the first system information notification are simultaneous and are sent at the beginning of a paging cycle.

7.8 Timers and Timing Restrictions

A timer is set at the beginning of each test case to guard against system failure. Behaviour on expiry of this guard timer shall be consistent for all test cases.

A watchdog timer can be specified for receive statements in order to reduce blocking time when a test case has already failed. Watchdog timers are a kind of TTCN auxiliary timer. When a watchdog timer is used to control a receive event, its expiry does not need to be handled explicitly in the test case, but will lead to a fail or inconclusive verdict due to handling in the default behaviour.

In idle mode operations, an idle mode generic timer is specified for receive statements if the test case specification does not explicitly specify a wait time for the specific test step or test purpose. The expiry of this idle mode generic timer is at least 6 minutes to safely cover most test scenarios.

The watchdog timer and the idle mode generic timer are only to be used inside the test case test body; if the timer expires a fail verdict is applied.

It is the TTCN responsibility to ensure that appropriate timer values are being used.

Tolerances (as described in TS 36.508 [3]) are not applicable to guard timers, idle mode generic timers and watchdog timers.

In general timers of less than 500 ms shall not be implemented by TTCN timers but controlled by usage of the timing information provided by the SS (This is based on an estimate of the system delay). To achieve this, there will be cases when a DL message is scheduled at a specific point in time. This shall be done by adding at least 100 ms to the current time.

If Timing is 'now' the SS shall schedule the data transmission or the (re)configuration in the next available sub-frame, but will ensure that this period is less than 80 ms.

7.8.1 Auxiliary timers

For practical reasons, the TTCN can include timers that are not specified as part of the expected sequence. These timers are documented below.

RLC and PDCP watchdog timer.

7.8.2 RRC timers reconfiguration

Considering the allowed UE accuracy for the RRC timer T3xx being between 100 ms and 2.5 % of T3xx (see TS 36.133 [37]), the TTCN applies the RRC net timers tolerance as MAX (10% of T3xx, (100 ms + 5 RTT)), whereby:

FDD: 10 % of T3xx or 140 ms whichever is higher.

TDD: 10 % of T3xx or 155 ms whichever is higher.

7.8.3 MAC TA timer reconfiguration

Considering that the UE applies new values for MAC timers not before restart of the timer (see TS 36.321 [16], clause 5.8), when the TA timer is changed at the UE, a delay in TTCN will be added so as to allow SS to transmit

Timing advance MCE (based on current periodic Timing advance configuration) and hence resulting in restart of TA timer at UE with new value.

7.8.4 Non-protocol timers

Time durations or periods in the test specification without corresponding references in the core specifications are considered as non-protocol timers for which no timer tolerances are applied in the TTCN.

7.9 Error Indication

There are several situations on lower layer in which SS shall raise an error rather than trying to resolve the problem. This is done by sending a SystemIndicationError to the test case. SS shall raise an error in the following cases:

- HARQ retransmissions (applicable when SS is configured to indicate HARQ retransmissions as errors):
 - HARQ CRC error for UL data;
 - HARQ NACK from the UE unless SS is configured to report HARQ ACK/NACK.
- Paging, System information exceeds max. number of resource blocks.
- Configuration: max. number of resource blocks specified for a channel exceeds system bandwidth.
- When in User-Plane a DL PDCP PDU or SDU not fitting into one TTI is sent with Harq Process being explicitly specified.
- SS gets invalid TimingInfo for TDD from the test case.
- SS detects contradiction of UL grant(s) and TDD configuration.
- Data scheduled for the same TTI does not fit into an available transport block.

Further error conditions are specified in annex D.

7.10 Race Conditions

When two uplink messages are sent from the UE within a very small amount of time, they may be received in either order in the TTCN if they are received on different ports. This may cause a race condition which is due to the snapshot mechanism in TTCN. In these cases, the TTCN will accept the messages in either order and then compare the timestamps of both messages to ensure they were sent in the correct order.

For UL messages received at a single port, there are normally no race conditions, with the exception of the SRB port where the following rules shall be fulfilled, in order to achieve an ordered UL message queue:

- UL messages are queued according to the timing information.
- UL messages with the same timing information are queued according to the logical channel priority with the "higher-first-in" principle.

7.11 Radio Link Failure

A radio link failure shall be triggered by switching the downlink power level of the source cell to the value for non-suitable "Off" for the time period of least T310 + time it takes to receive N310 consecutive out-of-sync indications from lower layers (non-suitable "Off" is defined in TS 36.508 [3], whereas T310 and N310 are defined in TS 36.331 [19]).

If the RRC re-establishment procedure is used in a radio link failure context, it shall be realised by using two cells.

7.12 Test method for RRC signalling latency

Test cases testing RRC signalling latency will need special test method. The PUCCH synchronisation state of UE influences the test method. Following 2 different ways in which the UE's completeness of procedure can be probed are considered:

- 1. UE is still PUCCH synchronized and can respond to uplink grants.
- 2. UE needs a RACH procedure and hence RACH procedural delays add upon the actual procedure delay.

7.12.1 Procedure delays in PUCCH synchronized state

For latency tests there may be up to 4 HARQ retransmissions in DL (corresponding to the default configuration of the SS) but HARQ retransmissions in UL cannot be compensated, i.e. any HARQ error in UL shall result in an inconclusive verdict for the test case (otherwise a UE may get fail due to a HARQ error).

Figure 7.12.1-1 demonstrates the latency check procedure that will be applied when UE is in PUCCH synchronized state and can respond to uplink grants.

SS is configured to report ACK/NACK received from UE, to TTCN.

NOTE: Due to L2 signalling (e.g. RLC STATUS PDUs) it is necessary to limit the reporting of UL HARQ ACK/NACK to the time between sending of the RRC message and receiving the ACK.

By default SS is configured to retransmit any DL MAC PDU max 4 times.

To avoid unexpected side effects the Time Alignment timer needs to be set to infinity and the SS shall be configured to not send any Timing Advance MAC control elements during the latency tests (since this may result in additional ACK/NACK)

The SS shall be configured to report HARQ errors and in the case of an UL HARQ error, an inconclusive verdict is assigned.

In the case of HARQ retransmissions in DL the HARQ RTT Timer according to TS 36.321 clause 7.7 [16] is

- 8 for FDD
- 10 for TDD configuration 1 in case the DL PDU is sent in subframe 4 (as per default; see Table 7.12.1-1).

The SS shall schedule DL retransmission at 4th TTI for FDD and TDD since reception of the NACK.

Let N be the max allowed delay for procedure.

TTCN schedules at time T1 a DL message to the UE.

TTCN schedules UL grants at

```
\begin{split} &T_2(k) = T_1 + N + 1 + \Delta_1 + k * RTT; \\ &with \\ &k = 0..4; \ number \ of \ HARQ \ retransmission \ in \ DL \\ &RTT = 8 \ (FDD) \\ &RTT = 10 \ (TDD) \\ &\Delta_1 = 0 \ (FDD) \\ &\Delta_1 = 0..3 \ (TDD; \ possible \ UL \ subframe \ uncertainty \ since \ not \ all \ subframes \ can \ be \ used \ for \ UL) \end{split} Example: &\text{given TDD; DL PDU \ sent \ at \ subframe \ 4; \ N=10} \\ &\Rightarrow \Delta_1 = 1 \ \text{since \ UL \ grant \ cannot \ be \ scheduled \ for \ subframe \ 5 \ but \ needs \ subframe \ 6 \ (36.213 \ [30] \ cl.8.0) \end{split}
```

The UL data is sent by the UE at

```
T_3(K) = T_2(K) + 4 + \Delta_2 with \Delta_2 = 0 for FDD and \Delta_2 = 0..3 for TDD and K is the value of k corresponding to which a HARQ Ack is received
```

The latency requirements are fulfilled when

$$T_3(K) - T_1 = N + 5 + \Delta_1 + \Delta_2 + K * RTT$$

Looking at TDD configuration 1 in detail it can be shown that $\Delta = \Delta_1 + \Delta_2 = 0$.. 3

$$\Rightarrow$$
 T₃(K) - T₁ = N + 5 + Δ + k * RTT; with Δ = 0 .. 3

NOTE:

as long as N is a multiple of 5ms, given T1 is at 4th TTI for TDD configuration 1 we get $\Delta = 3$ ($\Delta_1 = 1$ and $\Delta_2 = 2$, 36.213 [30] cl.8.0)

Delay Requirement Y-X<= N+?

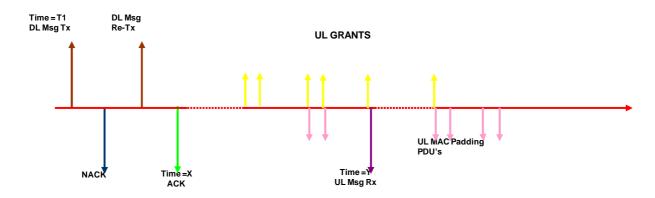


Figure 7.12.1-1: Delays in PUCCH synchronized state

Subframe 0 3 4 5 6 8 9 **Configuration 1** D D S U U D S U U D Delay from DL to Ack/Nack [TTIs] 6,7 4 6,7 4 Delay from NCK to re tx [TTIs] 6 6 4 4 RTT 11 10 10 11 10 10

Table 7.12.1-1: TDD configuration 1

7.12.2 Procedure delays when RACH procedure required

Figure 7.12.2-1 demonstrates the latency check procedure that will be applied when UE is not PUCCH synchronized state needs RACH procedure.

PRACH configuration index is set as 14 for FDD, 12 for TDD which allows UE to send Preamble in any frame at any subframe.

SS is configured to report ACK/NACK, PRACH preambles received from UE.

By default SS is configured to retransmit any DL MAC PDU max 4 times [1 Transmission and 4 Retransmission].

Let N be the max allowed delay for procedure.

TTCN schedules at time T1, DL message to the UE. This is achieved using Time stamps in send ASP's.

The time difference between the ACK and the reception of PRACH preamble will be checked against N plus any Interruption time (TS 36.133 [37]) and verdict is assigned, when $(Y-X) \le N + T$ interrupt $+ \Delta$:

 $\Delta = 0$ for FDD;

 $\Delta = 3TTI$ for TDD, where 3TTI is UL subframe uncertainty.

If cell change occurs, cell timing differences, Frame number offsets need to be included for procedural delay evaluations.

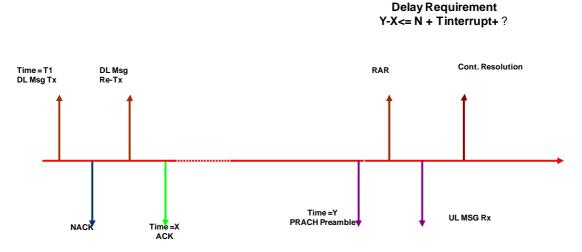


Figure 7.12.2-1: Delays when RACH procedure needed

7.13 RLC test method for scheduled data

The test loop mode is applied to the RLC tests. The allowed SS delay for sending data (< 80 ms) is comparable to the default values of the RLC timers. In order to ensure a unique TTCN implementation of the RLC test cases and the deterministic test result, independent from the SS platforms and UEs, scheduled data method can be applied to the test.

The scheduled data method is suitable to the RLC test if:

Receiving multiple UL RLC SDUs is expected in the test; the UE may send a STATUS PDU in addition.

Time measurement is required for the looped back RLC SDUs.

DL RLC PDUs are sent on consecutive TTIs; the subframe numbers to be applied are relevant in TDD.

Table 7.13-1 illustrates the data scheduling in the RLC test.

Table 7.13-1: Scheduled RLC test events

Scheduled timing		t0 (see note 1)	t1 (see note 1)	t2		
Test event	Multiple SDUs	Obtain the	Send DL data	Provide UL grant (see note 2)		
descriptions	Time measurement	reference time	Send DL data	Receive UL data		
DL data in TDD			Send 1 st DL data	Send subsequent data		
				(see note 3)		
NOTE 1: (t1-t0)	≥ 100 ms which is great	ater than the allow	ed SS max. delay time,	80 ms.		
NOTE 2: (t2-t1)	NOTE 2: (t2-t1) = 60 ms, this duration will allow the UE transmitting max. 3 scheduling requests (every 20 ms					
once) after the UL data to be looped back being available at the UE without going onto PRACH.						
NOTE 3: The ap	NOTE 3: The applied TDD subframe numbers 4, 5, 9, 10, 14, 15, 19, 20, 24, 25,					

If the test case prose does not indicate timely restrictions for the scheduling, sequential sending events are scheduled in consecutive TTIs.

NOTE 1: For TDD configuration 1, the subframes 0, 4, 5 and 9 are considered as consecutive.

NOTE 2: Scheduling may imply to execute the test steps in the TTCN in an order different from the order given in the test case prose. However, the sequence of the events over the air follows the prose description.

7.14 IP packets for Loopback Mode

7.14.1 IP packets used for Loopback Mode A

It is irrelevant which kind of data is used in loopback mode A. Some PDCP test cases however specify to use IP packets. In these cases, an ICMPv4 ECHO REPLY shall be used with a valid IP header checksum and valid ICMP checksum.

7.14.2 IP packets used for Loopback Mode B

According to TS 36.509 [4], the UE performs loopback mode B above the UL TFT entity. Therefore IP packets need to match the packet filters signalled to the UE according to TS 36.508 [3], clause 6.6.2:

When the UE gets configured via NAS signalling with packet filter #1 and #2 according to TS 36.508 clause 6.6.2 the IP packets shall fulfil the following requirements:

Protocol:

UDP referred to packet filter #1 and #2

IP addresses:

Referred to TS 36.508 [3], table 6.6.2-3, note 1 source and destination IP address are the same.

Ports:

packet filter #1 specifies DL filter ⇒ IP packet's source port shall match remote port of packet filter #1.

packet filter #2 specifies UL filter \Rightarrow IP packet's destination port shall match remote port of packet filter #2.

To summarize, on dedicated bearers for loopback mode B, UDP packets used shall match the packet filters configured at the UE side. The UDP packets, having no specific content, shall have the correct header checksum and UDP checksum. On the default bearer, any other packets can be used, as an example, ICMPv4 ECHO REPLY similar as for loopback mode A.

7.15 Connected Mode DRX

The SS shall support connected mode DRX according to TS 36.321 [16], i.e. the SS shall not send any data to the UE while the UE is not monitoring the PDCCH. To achieve this, the SS needs to estimate the UE's Active Time by considering the on-duration as well as the drx-inactivity timer:

on-duration:

The on-duration can be derived from the SS' DRX configuration.

drx-inactivity timer:

According to TS 36.321 [16], clause 5.7 at the UE the drx-inactivity timer is started or restarted during the Active Time whenever PDCCH indicates a new transmission (DL or UL).

There is no activation time for the configuration of DRX at the UE and it is not acceptable just to consider the on-duration after re-configuration of the UE (for DRX_L according to TS 36.508 [3] the DRX cycle is 1.28 s); instead the drx-inactivity timer needs to be taken in account after DRX reconfiguration as well.

The following rules shall be applied to achieve synchronisation of SS and UE:

SS shall consider drx-inactivity timer as restarted at the UE whenever the UE is addressed on the PDCCH (DL data or UL grant).

- 2. When there is a scheduling request sent by the UE, SS assigns a grant independent of DRX; when sending out that grant on PDCCH SS considers drx-inactivity timer as (re-)started (as per 1. above).
- 3. For all DL messages scheduled with specific timing information SS shall send the data at the given time irrespective of current DRX configuration.
- 4. DRX (re-)configuration:
 - a) when DRX has not been configured at the UE yet:
 - a1) TTCN will configure the SS just before the sending out the RRCConnectionReconfiguration message configuring DRX at the UE; no other send-events between the reconfiguration of the SS and sending the RRC message shall be scheduled in TTCN.
 - a2) TTCN will schedule sending of the RRCConnectionReconfiguration message configuring DRX with specific timing information.
 - b) Reconfiguration of DRX at the UE: Same as a) but:
 - b1)TTCN shall schedule sending of the RRCConnectionReconfiguration according to the old DRX configuration (i.e. the SS does not need to cache the new configuration).
 - c) RRC connection release:
 - c1) TTCN will release DRX at the SS just after the RRC connection release procedure.
- 5. There shall be no parallel data on any DRBs during DRX reconfiguration.

NOTE: Timing requirements in the DRX test cases:

a) The drx-Inactivity Timer shall be long compared to the duration between sending RRCConnectionReconfiguration and receiving RRCConnectionReconfigurationComplete (> 50 ms). It ensures the SS in-time sending of the RLC STATUS PDU.

or

b) The drx-cycle shall be short compared to the RLC timers applied for SRB1.

Figure 7.15-1 illustrates DRX (re)configuration at the SS and the UE.

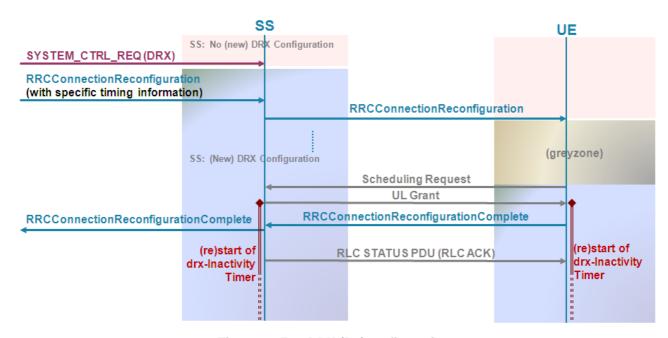


Figure 7.15-1: DRX (Re)configuration

- NOTE 1: Between RRCConnectionReconfiguration and RRCConnectionReconfigurationComplete the UE may send a separate RLC STATUS PDU to acknowledge the RRCConnectionReconfiguration, but that does not affect the principle as long as SS applies rule 2.
- NOTE 2: During the "greyzone" SS does not know about DRX configuration at the UE; during that period according to rule 4a1 and rule 5 there is no data to be sent by SS.

The TTCN (re)configures the connected mode DRX in SS for the test cases if DRX_S is applied (Ref. TS 36.508 [3]. The (re)configuration of DRX_L in SS is FFS.

For test case 7.1.6.1 and 7.1.6.2, DRX will not be activated at the SS. Periodic UL grants every 5ms (suitable for both FDD and TDD and less than drx-InactivityTimer 6ms) will be allocated to the UE during the steps configuring test case specific DRX parameters of the test case to prevent UE from activating DRX; These grants may result in padding MAC PDU's transmitted by UE, which will be received by SS MAC and discarded.

7.16 Handover Sequences

7.16.1 Sequence of inter-cell handover

In general, the Inter-Cell handover is done without activation time, i.e. the timing information for configuration of the SS and sending of the RRCConnectionReconfiguration is 'Now'.

- 1. Transfer of the PDCP Count for AM DRBs from source to target cell:
 - a) Source Cell: Get PDCP COUNT.
 - b) Target Cell: Set PDCP COUNT.

NOTE 1: There shall be no further sending/receiving of AM DRB data before the HO has been done.

- 2. Target Cell: Inform the SS about the HO and about the source cell id.
- 3. Target Cell: Configure RACH procedure either dedicated or C-RNTI based.
- 4. Target Cell: Activate security.
- NOTE 2: For AM DRBs the PDCP count is maintained (for SRBs and UM DRBs the PDCP count is reset).
- 5. Target Cell: configure DRX and measurement gap configuration (if necessary).
- NOTE 3: As long as the DRX configuration is not modified by the RRCConnectionReconfiguration the target cell gets the same DRX configuration as the source cell.
- NOTE 3A: According to TS 36.331 clause 5.5.6.1 the measurement gap configuration is released at the UE due to the handover, therefore nothing needs to be configured at the target cell regarding measurement gaps unless a new measurement gap configuration is explicitly given in the RRCConnnectionReconfiguration.
- 6. Source Cell: Stop periodic TA.

NOTE 4: Unless explicitly specified UL grant configuration keeps configured as per default at the source cell.

- 7. Target Cell: Configure UL grant configuration ("OnSR", periodic TA is not started).
- 8. Source Cell: Send RRCConnectionReconfiguration.
- 9. Target Cell: Receive RRCConnectionReconfigurationComplete.
- 10. Target Cell: Start periodic TA.
- 11. Target Cell: Inform the SS about completion of the HO (e.g. to trigger PDCP STATUS PDU).
- 12. Target Cell: Re-configure RACH procedure as for initial access.
- 13. Source Cell: Reset SRBs and DRBs.

14. Source Cell: Release DRX and MeasGapConfig configuration.

7.16.1a Sequence of inter-cell CA handover (more than one CC before and after handover)

The Inter-Cell handover is done with activation time, i.e. the timing information for configuration of the SS and sending of the RRCConnectionReconfiguration is explicit. Time 'T' is set to 700 ms in advance of the handover and time T1 = T + 40 ms.

At Time T, steps 1-3:

- 1. Source Pcell: Configure source primary cell for stop of automatic Time alignment MCE transmission by SS
- 2. Target Pcell: Configure target pcell for no RACH response transmission
- 3. Source Pcell: Schedule the transmission of RRC Connection Reconfiguration message to UE requesting Handover to target Pcell and Scell

At time T1, steps 4-12:

- 4. Target Pcell: If target Pcell is same as source Scell, configure SS for target Pcell to be converted from a Scell to Pcell
- 5. Transfer of the PDCP Count for AM DRBs from source to target Pcell:
 - a) Source PCell: Get PDCP COUNT.
 - b) Target PCell: Set PDCP COUNT.

NOTE 1: There shall be no further sending/receiving of AM DRB data before the HO has been done.

- 6. Target PCell: Inform the SS about the HO and about the source Pcell id.
- 7. Target PCell: Configure RACH procedure either dedicated or C-RNTI based.
- 8. Target PCell: Activate security.

NOTE 2: For AM DRBs the PDCP count is maintained (for SRBs and UM DRBs the PDCP count is reset).

- 9. Target PCell & Target Scell: configure DRX and measurement gap configuration (if necessary).
- NOTE 3: As long as the DRX configuration is not modified by the RRCConnectionReconfiguration the target cell gets the same DRX configuration as the source cell.
- NOTE 4: According to TS 36.331 clause 5.5.6.1 the measurement gap configuration is released at the UE due to the handover, therefore nothing needs to be configured at the target cell regarding measurement gaps unless a new measurement gap configuration is explicitly given in the RRCConnnectionReconfiguration.
- 10. Target PCell: Configure UL grant configuration ("OnSR", periodic TA is not started).
- 11. Target PCell: Configure Target Pcell as Pcell.
- 12. Target SCell: Configure Target Scell for
 - 12.1 Configure RACH procedure C-RNTI based.
 - 12.2 Configure UL grant configuration ("OnSR", periodic TA is not started).
 - 12.3 Configure target SCell as Scell with new Pcell association
- 13. Target PCell: Receive RRCConnectionReconfigurationComplete
- 14. Target PCell: Start periodic TA.
- 15. Target PCell: Inform the SS about completion of the HO (e.g. to trigger PDCP STATUS PDU).
- 16. Target PCell: Re-configure RACH procedure as for initial access.

- 17. Source PCell: If source Pcell is not target Scell, reset SRBs and DRBs.
- 18. Source Pcell: If source Pcell is not target Scell, configure from Pcell to normal cell
- 19. Source SCell: If source Scell is neither target Pcell or Scell, Release DRX and MeasGapConfig configuration.
- 20. Source Scell: If source Scell is neither target Pcell or Scell, configure from Scell to normal cell
- 21. Source Scell: If source Scell is neither target Pcell or Scell, Configure UL grant configuration ("OnSR", periodic TA is not started).

7.16.2 Sequence of intra-cell handover

For Intra-Cell handover dedicated timing information is used: the sequence starts at time T with sending of the RRCConnectionReconfiguration. T is set to 300 ms in advance of the handover.

- 0. Before T: Get PDCP count for AM DRBs.
- 1. At T: Send RRCConnectionReconfiguration.
- 2. At T + 5ms: Release SRBs and DRBs.
- 3. At T + 5ms: Configure RACH procedure either dedicated or C-RNTI based.
- NOTE 1: Since the RACH procedure may require a new C-RNTI to be used it cannot be configured before sending out the RRCConnectionReconfiguration.
- 3A At T + 5ms: Release MeasGapConfig configuration.
- NOTE 2: According to TS 36.331, clause 5.5.6.1 the measurement gap configuration is released at the UE due to the handover, therefore MeasGapConfig is released unless a new measurement gap configuration is explicitly given in the RRCConnectionReconfiguration.
- 4. At T + 10ms: (Re-) configure SRBs and DRBs.
- 5. At T + 10ms: Reestablish security, disable TA transmission.
- NOTE 3: For AM DRBs the PDCP count is maintained while for SRBs and UM DRBs the PDCP count is reset.
- 6. (after step 5) Receive RRCConnectionReconfigurationComplete.
- 7. (after step 6) Re-configure RACH procedure as for initial access, enable TA transmissions.
- 8. (after step 7) Restore the PDCP count for AM DRBs.

7.16.3 UL Grants used in RA procedure during handover

In the Random Access Procedure a grant is assigned to the UE by the Random Access Response and another grant, as initial grant, is assigned for contention resolution.

When UL data is pending, the UE will try to put as much data into given grants as possible, i.e. it will segment the user data and send it e.g. with the initial grant if possible. To avoid this segmentation of user data, the grants assigned during handover will be set in TTCN to:

Grant assigned by Random Access Response: 56 bits.

Initial grant: 104 bits.

NOTE 1: According to TS 36.321 [16], clause 5.1.4, 56 bits are the minimum grant which can be assigned by the Random Access Response. That is sufficient to convey C-RNTI (3 bytes) and short BSR (2 bytes) or long BSR (4 bytes) but even with short BSR the remaining 2 bytes are not sufficient to convey any segment of the RRCConnectionReconfigurationComplete (at least 4 bytes).

NOTE 2: The RRCConnectionReconfigurationComplete (9 bits) shall completely be conveyed in the initial grant of RA procedure. This requires a minimum of 10 bytes (1 byte MAC header + 2 bytes RLC header + 5 bytes PDCP header + 2 bytes payload). Additionally an optional PHR MAC element (2 bytes) needs to be considered since the PHR has higher priority than the MAC SDU. Any further user data would require a minimum of 5 additional bytes (2 bytes MAC header + 2 bytes RLC header + 1 byte payload).

7.17 Simulation of PDCP MAC-I Failure in UE

PDCP integrity protection test cases 7.3.4.x have the requirement to trigger MAC-I failures in UE for downlink messages; to achieve the MAC-I failure in UE two methods are specified in the subsequent sub clauses.

7.17.1 Integrity and ciphering not yet activated

UE has not yet started Integrity protection and it is required to trigger MAC-I failure for the PDCP PDU carrying RRC SecurityModeCommand starting integrity with one of integrity protection algorithms. Further a conformant UE will respond with SecurityModeFailure without any integrity protection.

This is achieved by:

Not configuring SS PDCP to start integrity and ciphering with selected algorithm.

RRC SecurityModeCommand is sent indicating Integrity protection through the desired algorithm.

Normal behaviour of PDCP layer in SS will include all zeros in MAC-I.

This results in MAC-I failure as UE will calculate the XMAC-I with indicated algorithm.

7.17.2 Integrity and/or ciphering already activated

UE has started Integrity protection (ciphering configured with possibly non null algorithm) and it is required to trigger MAC-I failure for the PDCP PDU carrying an RRC UECapabilityEnquiry message. A conformant UE will trigger an RRCConnectionReestablishment procedure.

This is achieved by:

Configuring SS PDCP to use a different Integrity algorithm other than used by UE (i.e. if UE is configured to use AES, SS is configured to use SNOW3G and vice versa).

Ciphering is configured at SS side same as in UE side.

The MAC-I included by SS PDCP will be as per new algorithm.

UE will calculate XMAC-I based on its own algorithm which is different from the algorithm SS has used and will result in MAC-I failure.

7.18 RRC Connection Release Sequence

According to TS 36.331 [19], clause 5.3.8.3, after reception of the RRCConnectionRelease the UE may either wait 60 ms or for indication of acknowledgement from lower layer. After the RRC connection release there are cases where the UE may immediately come up with an RRC connection request. This requires scheduled release of resources at the SS:

1. At T: Send RRCConnectionRelease, stop UL grants.

2. At T + 5ms: Release security.

3. At T + 10ms: Release DRX configuration at the SS.

3A At T + 15ms: Release measurement gap configuration at the SS.

4. At T + 50ms: no action.

5. At T + 55ms: Release SRBs and DRBs.

6. At T + 60ms: (Re-) configure SRBs and DRBs.

7. Delay of 840ms (NOTE)

T is set to 300ms in advance of RRC connection release.

NOTE: The delay ensures that the UE is camping on the serving cell again to avoid side effects e.g. due to subsequent power level changes. It does not affect any sending of messages by the UE. The delay 840ms is chosen to ensure the UE is re-camping on the cell and has read relevant system information, MIB, SIB1, SIB2 and all other SIs.

7.19 DL CCCH Message and Contention Resolution MAC Control Element transmission in one MAC PDU or in separate MAC PDUs

When the contention based RACH procedure is being executed (RRC Connection Establishment or RRC Connection Reconfiguration), in general the contention resolution MAC control element and the DL RRC PDU (RRC Connection Setup/RRC Connection Reject/RRC Connection Re-establishment/RRC Connection Re-establishment Reject) are sent in one MAC PDU. This is achieved by pre-configuring the SS (before the start of the RRC procedure) to send the encoded DL message and contention resolution MCE in one MAC PDU.

Nevertheless, due to specific test purposes there are still many cases where it is necessary to send the DL CCCH message separately:

RRC connection establishment

When RRC connection establishment is part of the test purpose

Special cases: , e.g. when no contention resolution shall be sent according to the test purpose

RRC Connection Reestablishment is part of the test purpose

RRC Connection Reject is part of the test purpose

RRC Connection Reestablishment Reject is part of the test purpose

NOTE: The way contention resolution is applied has impact on the DCI format being used in a test case: when the DL CCCH message is sent separately DCI combination 1 according to clause 7.3.1 shall be used.

7.20 RRC Connection Reconfiguration Sequence (Measurement Control)

When an RRC Connection Reconfiguration message contains information to configure measurement gaps at the UE according to TS 36.331 [19] clause 5.5.2.9, the SS needs to be configured accordingly:

IF MeasConfig contains measGapConfig:

1. At T: Send RRC Connection Reconfiguration.

2. At T + 5ms: Configure measurement gaps at the SS.

3. (after step 2) Receive RRC Connection Reconfiguration Complete

ELSE

- 1. Send RRC Connection Reconfiguration (without scheduling)
- 2. Receive RRC Connection Reconfiguration Complete.

T in general is set to 100ms in advance of the RRC connection reconfiguration.

7.21 GERAN special issues

7.21.1 Timeslot assigned for GERAN CS traffic

Timeslot 3 shall be used as the timeslot assigned for GERAN CS traffic, in order to avoid conflicts with timeslots reserved for other purposes (e.g. the GPRS channel which is assigned to timeslot 4).

7.21.2 Subchannel used in GERAN L2 access message

The subchannel is valid only for the following logical channel types: FACCH/H, SDCCH/8, SDCCH/4. For other logical channel types this field is not applicable and shall be coded as 15 for compatibility with TTCN2 test cases. The SS shall ignore it if this field is coded as 15.

7.22 EUTRAN RSRQ Calculations

7.22.1 Assumptions

- As per 36.214[53] clause 5.1.1 and 5.12, the RSRP and RSSI shall be averaged over the same set of resource blocks. It is assumed that the power calculations made over one symbol are good enough for RSRQ calculations. This is based on the assumption that the power levels remain the same across the symbols on which the UE is calculating the average. The contribution of Nprb and the OFDM symbols carrying cell specific reference symbols per PRB contribute equally in numerator and denominator, hence RSRQ calculations in dB with aggregation over cell DL bandwidth and without aggregation result in the same output.
- As per table 7.4.3.1.1-1, for FDD the timing offset between the intra frequency cells is always a multiple of sub frame duration i.e. 3072 Ts, hence in the symbols carrying cell-specific reference signals in one cell, the other cell (interference) is also carrying a cell-specific reference signal, even though in a different subframe. Hence from an interference calculation perspective, we can safely assume that the cells contributing an interference shall also transmit the same cell specific reference signal in the symbol/
- The noise source is treated as a dummy cell transmitting on all resource elements with equal EPRE. Hence to switch off the noise source, a value of non-suitable "Off" cell, as per 36.508[3] table 6.2.2.1-1 shall be used (<-145), and the signal level uncertainties similar to configured cells in 36.508[3] clause 6.2.2.1 will also be applied to the noise source.
- When the Noc value remains 'off' during the test case execution, the Virtual Noise Generator is not configured in the SS.

7.22.2 The Ideal Calculation

The test case specifies the RS-EPRE (dBm/15kHz) which is the cell absolute power-cell attenuation in dBm per carrier of 15 kHz; the linear average over few measurements will give the RRP value.

It is assumed that the power levels of all contributors is fluctuating hence in the typical test environment RS-EPRE will be the RSRP over a single carrier frequency.

The RS-EPREmW(mW/15kHz) = 10 power (RSRP/10).

The energy in noise source [Noc] for the frequency is also specified in the same units of dBm/15kHz.

The RSSImW calculation(mW over a resource block frequency of 180 kHz) = 2 (the sum over all intra frequency configured cells RS-EPREmW) + 10 power ((Noc/10)*12.

The cell inference is multiplied by 2 as in a RB, cell specific reference is transmitted in only 2 carriers. But the AWGN transmits on all 12 carriers in the resource block.

The RSRQ in dB will be the 10*log (RS-EPREmW/RSSImW).

7.22.3 Additional RSRQ Calculations For Fixing Boundary Values

In addition to the ideal calculation, various RSRQ calculations take into consideration the combinations of the SS signal uncertainties and possibly all 12 carriers being used for DL transmission.

The 12 carriers being used can happen when the UE makes the measurement in a subframe when a DL PDSCH is scheduled or measurement is in subframe zero and the UE measures in OFDM symbol carrying PBCH i.e. slot 1, symbol 0.

The Min and Max RSRQ values are identified from 6 different RSRQ calculations:

RSRQ Ideal: RSRQ calculated in ideal conditions as given above

RSRQ Min: RSRQ calculation applying -ve signal uncertainty to all configured cells and noise source

RSRQ Max: RSRQ calculation applying +ve signal uncertainty to all configured cells and noise source

RSRQ Max Worst Case: RSRQ calculation applying +ve signal uncertainty for measured cell and -ve signal uncertainty to all remaining configured cells and noise source. This shall be the Max RSRQ possible

RSRQ Max And 12 Carriers: RSRQ calculation applying +ve signal uncertainty to all configured cells and noise source and cell interference considered over all 12 carriers

RSRQ Min Worst Case And 12 Carriers: RSRQ calculation applying -ve signal uncertainty for measured cell and +ve signal uncertainty to all others; and cell interference considered over all 12 carriers. This shall be the Min RSRQ possible

Applying UE measurement accuracy 36.133[37], Table 9.1.6.2-1, +/-4dB normal conditions and side conditions of RSRQ when RSRP \hat{E} s/Iot \geq -6 dB & RSRP \geq -124 dBm the final boundary value for RSRQ is

Min RSRQ With UE Meas Acc := Min RSRQ -4 dB

Max RSRQ With UE Meas Acc := Max RSRQ + 4 dB

For conditions to fulfil desired cell selection or reselection, the respective conditions shall be satisfied for both the boundary values Min RSRQ RSRQ With UE Measurement Accuracy and Max RSRQ With UE Measurement Accuracy.

As the Boundary conditions also consider the worst scenario of all 12 carriers being transmitted, the requirement for OCNG is removed. There is no need to restrict measurement bandwidth and will be applicable for both DCI formats.

7.23 Test method for elCIC and felCIC

When periodic CQI feedback is requested due to TTCN configuration, the SS reports the periodic CQI to the TTCN. SS does not react on periodic CQI received and still allocates grants as configured from TTCN.

In the selected ABS no DL/UL user data (SRB/DRB) is scheduled, nor paging is transmitted; this is controlled by TTCN.

For feICIC testing, the SS may be configured to temporarily stop the transmission of SIB1 and its associated DCI.

7.24 Carrier Aggregation Signalling Sequences

7.24.1 Initial configuration of Pcell

Cell is configured as a normal cell by using function f_EUTRA_CellConfig_Def. The missing CA default parameters (e.g. UL power control Common) are configured by using additional ASP call(s).

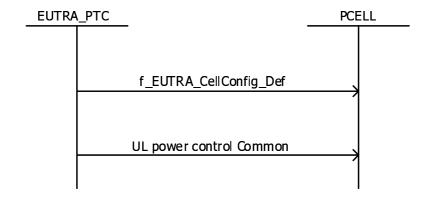


Figure 7.24.1-1: CA sequence of an initial cell configuration for a cell to be used as Pcell

7.24.2 Initial configuration of SCell

Cell is configured as a normal cell except for SRB/DRB configuration by function f_EUTRA_SS_ConfigureActiveCell.

SRB0 not yet configured in step 1 is then configured.

The missing CA default parameters (e.g. UL power control (Common + Dedicated), PUSCH config Dedicated, SRS UL Dedicated) are configured by using additional ASP call(s).

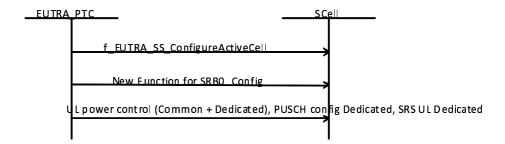


Figure 7.24.2-1: CA sequence of an initial cell configuration for a cell to be used as Scell

7.24.3 Scell Addition and/or release

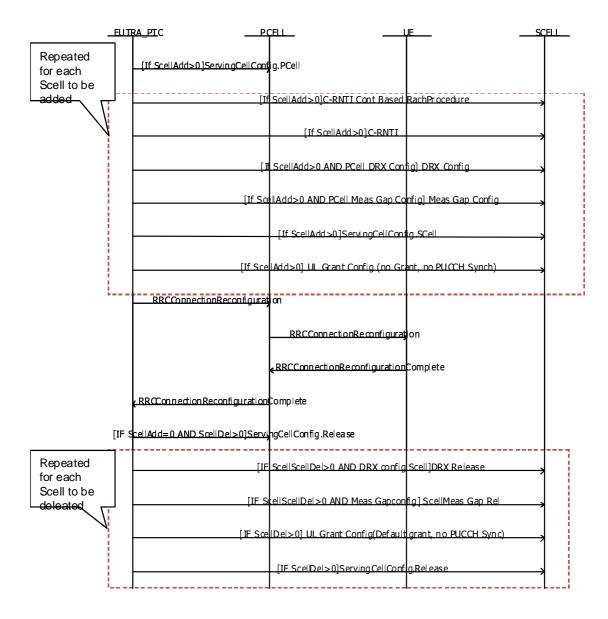


Figure 7.24.3-1: CA sequence of Scell Addition and/or release

7.25 Test method for MBMS

7.25.1 Schedule transmission of MCCH messages

The rules for the transmission of MCCH messages are specified in TS 36.331 [19], clause 5.8.1.2. The ASPs SYSTEM_CTRL_REQ and SYSTEM_CTRL_CNF are used as interface to SS; the following rules apply:

The complete MCCH information is provided to SS by using a single ASP. The MCCH carries the *MBSFNAreaConfiguration* and may also carry the *MBMSCountingRequest* message.

The scheduling information sent to SS is the same as the scheduling information sent to the UE.

The MCCH information is sent to SS using the asn.1 types, SS shall encode in unaligned PER and add the necessary padding bits as specified in TS 36.331 [19], clause 9.1.1.1.

Segmentation occurs when the MCCH message size is larger than the TBS of the MCH. SS starts scheduling all MCCH information blocks from the same SFN.

NOTE: With the default values NPRB=NRBDL=25 for 5 MHz and default signalling Imcs =2; then Itbs=2 and the TB size will be 1096 bits, hence segmentation may never happen.

7.25.2 MCCH change notification

A change notification is used to indicate the modification of MCCH information. The notification is transmitted on PDCCH, it includes the notification indicator provided in the ASP and is transmitted using the M-RNTI (defined in 3GPP TS 36.321 [16] Table 7.1-1).

The notification messages are sent during one modification period before transmitting the modified MCCH information. The SFN for the start of modification period is calculated by TTCN. The modified MCCH information and the calculated SFN are provided in the ASP SYSTEM_CTRL_REQ. The notification messages are sent on SFN/subframes calculated by TTCN according to 36.331 [19] clause 6.3.7.

7.25.3 MTCH data scheduling

The SS is configured with configuration parameters for CSA, PMCH, MRBs, MSI and scheduling information for MTCH data transmission.

The TTCN shall ensure that:

- For each configured MCH, the routing & timing information of the scheduled MRB data is consistent with the configured MSI.
- The size of all MRB data scheduled in the same subframe shall fit within the resource allocation of that subframe.

The SS shall ensure that:

- In subframes belonging to the CSA and for which no MCCH/MTCH/MSI data is scheduled by the TTCN, no MCH data shall be sent in MBMS subframes not used as per MSI.

If an MTCH packet is scheduled from TTCN in a subframe in which MCCH will be automatically transmitted by SS and/or MSI is configured and needs to be included, the MTCH packet and MCCH data along with possible MSI are included in one MAC PDU and *signallingMCS* is used.

When data is sent on MTCH the SS shall set the MSI in the MAC header according to TS 36.321 [16] clause 6.1.3.7. The periodicity of the MSI is defined by the MCH scheduling period i.e. the MSI is not necessarily included in the subframe where the RLC SDU is transmitted.

8 External Function Definitions

The following external functions are required to be implemented by the SS.

TTCN-3 External Function					
Name	fx_KeyDerivationFunction	on			
Description	Hashing function for Hashing algorithms as defined in TS 33.401 [24]				
	SHA-256 encoding algorith	nm is used as KEY Description Function			
Parameters	KDF KDF_HMAC_SHA_256 (no other KDF defined yet)				
	Key 256 bit key				
	String	string being constructed acc. to TS 33.401 [24], annex A			
Return Value	256 bit derived key				

	TTCN-3 External Function				
Name	fx_NasIntegrityAlgorithm				
Description	Apply integrity protection a	algorithm on a given octetstring			
Parameters	NAS PDU	octetstring according to TS 24.301 [21], clause 4.4.3.3 this shall include octet 6 to n of the security protected NAS message, i.e. the sequence number IE and the NAS message IE			
	Integrity Algorithm KNAS _{int}	egrity Algorithm 3 bits as defined in TS 24.301 [21], clause 9.9.3.23			
	NAS COUNT	Integrity key as documented in TS 24.301			
	BEARER Id	fix value ('00000'B) acc. TS 33.401 [24], clause 8.1			
	Direction	UL: 0			
		DL: 1			
		(acc. to TS 33.401 [24], clause B.1)			
Return Value	Message Authentication C	Code (4 octets)			

TTCN-3 External Function				
Name	fx_NasCiphering			
Description	Apply ciphering on a give	n octetstring		
Parameters	NAS PDU octetstring			
	Ciphering Algorithm 3 bits as defined in TS 24.301 [21], clause 9.9.3.23			
	KNAS _{enc} Ciphering Key			
	NAS COUNT	5.10		
	BEARER Id	fixed value ('00000'B) acc. TS 33.401 [24], clause 8.1		
Return Value	ciphered octet string			

TTCN-3 External Function					
Name	fx_NasDeciphering				
Description	Apply deciphering on a	given octetstring			
Parameters	ciphered NAS PDU				
	Ciphering Algorithm	Ciphering Algorithm 3 bits as defined in TS 24.301 [21], clause 9.9.3.23			
	KNAS _{enc} Ciphering Key				
	NAS COUNT	NAS COUNT as documented in TS 24.301 [21]			
	BEARER Id	fixed value ('00000'B) acc. TS 33.401 [24], clause 8.1			
Return Value	deciphered octet string				

TTCN-3 External Function				
Name	fx_AsIntegrityAlgorithm	fx_AsIntegrityAlgorithm		
Description	Apply integrity protection a	Apply integrity protection algorithm on a given octetstring		
Parameters	PDCP PDU	octetstring		
	Integrity Algorithm	3 bits as defined in TS 33.401 [24]		
	KRRC _{int} Integrity key			
	PDCP COUNT octetstring, length 4			
	BEARER Id the value of the DRB identity minus one			
	Direction UL: 0			
	DL: 1			
	(acc. to TS 33.401 [24], clause B.2)			
Return Value	Message Authentication Code (4 octets)			

TTCN-3 External Function				
Name	fx_AsCiphering			
Description	Apply ciphering on a give	en octetstring		
Parameters	SDU octetstring			
	Ciphering Algorithm 3 bits as defined in TS 33.401 [24]			
	KRRC _{enc} Ciphering Key			
	PDCP COUNT octetstring, length 4			
	BEARER Id	the value of the DRB identity minus one		
Return Value	ciphered octet string			

TTCN-3 External Function				
Name	fx_AsDeciphering			
Description	Apply deciphering on a	given octetstring		
Parameters	ciphered SDU octetstring			
	Ciphering Algorithm 3 bits as defined in TS 33.401 [24]			
	KRRC _{enc} Ciphering Key			
	PDCP COUNT octetstring, length 4			
	BEARER Id	the value of the DRB identity minus one		
Return Value	deciphered octet string			

	TTCN-3 External Function			
Name	fx_GetSystemTime	fx_GetSystemTime		
Description	Function to get the syste	Function to get the system time: Implementation is based on C standard library (time.h)		
Parameters	p_Struct_tm (out)	p_Struct_tm returns local system time equivalent to "struct tm" as defined for C standard library (time.h or ctime): type record Struct_tm_Type { integer tm_sec, // seconds after the minute		
		<pre>integer tm_year, // years since 1900 integer tm_wday, // days since Sunday (06) integer tm_yday, // days since January 1 (0365) integer tm_isdst // Daylight Saving Time flag }; NOTE: tm_sec is generally 0-59. Extra range to accommodate for leap seconds in certain systems C implementation: time t v Now = time(NULL);</pre>		
		struct tm *v_Tm = localtime(&v_Now);		
	p_TimezoneInfo (out)	p_TimezoneInfo returns the difference (in seconds) between the UTC time (GMT) and the local time (integer value);		
		C implementation:		
		<pre>int timezone = (int)difftime(mktime(gmtime(&v_Now)), v_Now);</pre>		
		NOTE:		
		p_TimezoneInfo does not consider daylight saving e.g. it is always 3600 for CET independent of summer/winter		
Return Value	None			

TTCN-3 External Function			
Name	fx_MD5_Hex		
Description	external function to calcula	ate the MD5 Message-Digest Algorithm according to RFC 1321	
Parameters	Data	octetstring	
Return Value	octetstring		

9 IXIT Proforma

This partial IXIT proforma contained in the present document is provided for completion, when the related Abstract Test Suite is to be used against the Implementation Under Test (IUT).

Text in *italics* is a comment for guidance for the production of an IXIT, and is not to be included in the actual IXIT.

The completed partial IXIT will normally be used in conjunction with the completed ICS, as it adds precision to the information provided by the ICS.

9.1 E-UTRAN PIXIT

Table 9.1-1: CommonPIXIT

Parameter Name	Parameter Type	Default Value	Supported Values	Description
px_AccessPointName	octetstring			Access Point Name, as defined in TS 23.003 [48] and used in TS 24.008 [20], clause 10.5.6.1
px_AttachTypeTested	EUTRA_ATTAC H_TESTED_Typ e	EPS_ATTACH_ON LY	EPS_ATTA CH_ONLY, COMBINED _ATTACH	Attach Type to be tested, if UE supports both pc_Attach and pc_Combined_Attach
px_eAuthRAND	B128_Type	oct2bit('A3DE0C6 D363E30C364A40 78F1BF8D577'O)		Random Challenge
px_EllipsoidPointWithAltitude	O8_Type			Ellipsoid Point With Altitude value to be provided in Update UE location information (see 36.509 cl. 6.12)
px_HorizontalVelocity	O3_Type			Horizontal Velocity value to be provided in Update UE location information (see 36.509 cl. 6.12)
px_eJapanMCC_Band6	NAS_Mcc	'442'H		Japan MCC code to be used for Band 6. The same value will be used for E-UTRA and Inter-RAT cells. Type is different to that defined in TS 34.123-3 [7]
px_PWS_CB_DataPage1	charstring			ETWS or CMAS Page 1 warning data message
px_PWS_CB_DataPage2	charstring			ETWS or CMAS Page 2 warning data message
px_PWS_CB_DataPage3	charstring			ETWS or CMAS Page 3 warning data message
px_PWS_CB_DataPage4	charstring			ETWS or CMAS Page 4 warning data message
px_PWS_CB_DataCodingSche me	bitstring			ETWS or CMAS data coding scheme of the alphabet/coding and the applied language [see TS 23.041]
px_ETWS_DigitalSignature	O43_Type			ETWS Digital Signature
px_IPv4_Address1_UE	charstring			IPv4 Address connected to PDN1
px_IPv4_Address2_UE	charstring			IPv4 Address connected to PDN2
px_IPv4_Address1_NW	charstring			IPv4 Gateway Address in PDN1
px_lpv4_Address2_NW	charstring			Ipv4 Gateway Address in PDN2
px_IPv4_Address1_RemoteUE	charstring			IPv4 Address of remote UE
	o. idioti ing			connected to PDN1 IPv4 Address of remote UE
px_IPv4_Address2_RemoteUE	charstring			connected to PDN2
px_lpv4_Address_HomeAgent	charstring			Ipv4 Home Agent Address
px_IPv6_Address1_UE	charstring			IPv6 Address connected to PDN1
px_IPv6_Address2_UE	charstring			IPv6 Address connected to PDN2
px_IPv6_Address1_NW	charstring			IPv6 Gateway Address in PDN1
px_lpv6_Address2_NW	charstring			Ipv6 Gateway Address in PDN2

Parameter Name	Parameter Type	Default Value	Supported Values	Description
px_IPv6_Address1_RemoteUE	charstring			IPv6 Address of remote UE connected to PDN1
px_IPv6_Address2_RemoteUE	charstring			IPv6 Address of remote UE connected to PDN2
px_lpv6_Address_HomeAgent	charstring			Ipv6 Home Agent Address
px_SMS_ChkMsgReceived	boolean	true		Whether the operator can check an MT Short Message received
px_SMS_MsgFrmt	charstring	"1"		SMS message format <mode> (see TS 27.005 [31] cl. 3.2.3). NOTE: Default value is for text mode. Change value to "0" to execute tests with PDU mode.</mode>
px_RATComb_Tested	RATComb_Test ed_Type	EUTRA_UTRA	EUTRA_UT RA, EUTRA_GE RAN, EUTRA_Onl	This parameter represents the network RAT capability / preference and indicates which, if any is supported, RAT combination is to be tested.
px_SinglePLMN_Tested	SinglePLMN_Te sted_Type	MultiPLMN	SinglePLM N, MultiPLMN	This parameter represents the network capability/preference to support multi PLMNs on the same test Band and indicates the preference of multi PLMNs or single PLMN test environment.
px_UE_CS_PS_UsageSetting_ Tested	CS_PS_MODE	VOICE_CENTRIC	VOICE_CE NTRIC, DATA_CEN TRIC	Specifies which CS/PS mode is under test
px_UE_PS_UsageSetting_Test ed	PS_MODE	VOICE_CENTRIC	VOICE_CE NTRIC, DATA_CEN TRIC	Specifies which PS mode is under test
px_UTRAN_ModeUnderTest	UTRAN_FDD_T DD	UTRAN_FDD	UTRAN_FD D, UTRAN_TD D	Specifies which radio access technology is being tested in UTRAN
px_TestLoopModeB_Delay	O1_Type	'5A'		This parameter represents the IP_PDU_delay to be used for UE test loop mode B in test cases, where long delay may be needed e.g. because of user interaction.
px_IP_MTU_Size	integer	65535		MTU Size. This value is specific to the SS.

Table 9.1-2: E-UTRAN PIXIT

Parameter Name	Parameter Type	Default Value	Supported Values	Description
px_eTDDsubframeConfig	TDD_SubframeA ssignment_Type	1		TDD uplink-downlink subframe configuration
px_ePrimaryBandChannelBand width	DI_Bandwidth_T ype	n25		Channel bandwidth used on px_ePrimaryFrequencyBand
px_ePrimaryFrequencyBand	FrequencyBand_ Type	1		E-UTRA primary frequency band
px_eSecondaryFrequencyBand	FrequencyBand_ Type	2		E-UTRA secondary frequency band
px_eSecondaryBandChannelBa ndwidth	DI_Bandwidth_T ype	n25		Channel bandwidth used on px_eSecondaryFrequencyBand
px_NAS_CipheringAlgorithm	B3_Type	001'B		NAS Ciphering Algorithm (eea1)
px_NAS_IntegrityProtAlgorithm	B3_Type	001'B		NAS Integrity Algorithm (eia1)
px_RRC_CipheringAlgorithm	CipheringAlgorit hm	eea1		Ciphering Algorithm
px_RRC_IntegrityProtAlgorithm	IntegrityProtAlgo rithm	eia1		Integrity Algorithm
px_eMaxNumberROHC_Contex tSessions	MaxNumberRO HC_ContextSes sions_Type	Cs16		Maximum number of ROHC context sessions
px_MFBI_FrequencyBand	FrequencyBand_ Type	26		A supported E-UTRA MFBI frequency band
px_MFBI_BandChannelBandwidth	DI_Bandwidth_T ype	n25		MFBI E-UTRAN channel bandwidth
px_OverlappingNotSupportedFr equencyBandMFBI	FrequencyBand_ Type	27		A not supported E-UTRA frequency band that is overlapping with a supported MFBI band (px_MFBI_FrequencyBand)

9.2 MultiRAT PIXIT

Table 9.2-1: GERAN PIXIT

Parameter Name	Parameter Type	Default Value	Supported Values	Description
px_GERAN_BandUnderTest	GERAN_BandU nderTestType	GSM_P900		Indicates which band is under test

Table 9.2-2: UTRAN PIXIT

Parameter Name	Parameter Type	Default Value	Supported Values	Description
px_UTRAN_CipheringAlgorithm	CipheringAlgorit hm_r7	uea2	uea0, uea1, uea2	UTRAN Ciphering algorithm
px_UTRAN_OverlappingNotSup portedFrequencyBandMFBI	integer			A not supported UTRAN frequency band that is overlapping with a supported MFBI band (px_MFBI_UTRAN_FrequencyBa nd). This pixit shall be set also in accordance with the values of the 3 Pixits: px_UARFCN_D_High, px_UARFCN_D_Mid,px_UARFC N_L_Mid.
px_UARFCN_TDD_D_Low	integer			Low Range downlink UARFCN value for LCR TDD
px_UARFCN_TDD_D_Mid	integer			Mid Range downlink UARFCN value for LCR TDD

px_UARFCN_TDD_D_High	integer			High Range downlink UARFCN value for LCR TDD
px_TDD_OperationBandCha rstring	charstring	a	ignali take the Vallies	Applicable for TDD The operation band under test as defined in 34.108 clause 5.1.2.

Table 9.2-3: CDMA2000 HRPD PIXIT

Parameter Name	Parameter Type	Default Value	Supported Values	Description
px_HRPD_BandClass	BandclassCDMA 2000_Type	1		Band Class; Table 1.5-1 of C.S0057-E v1.0 Default value corresponds to 1.8 to 2.0 GHz PCS band
px_HRPD_SectorID_Cell15	SectorID_HRPD _Type	oct2bit('FEA00000 0000000000000000 000000001'O)		Sector ID of Cell 15; Clause 13.9 of C.S0024-C v2.0
px_HRPD_SectorID_Cell16	SectorID_HRPD _Type	oct2bit('FEA00000 0000000000000000 000000002'O)		Sector ID of Cell 16; Clause 13.9 of C.S0024-C v2.0
px_HRPD_SectorID_Cell17	SectorID_HRPD _Type	oct2bit('FEA00000 0000000000000000 00000003'O)		Sector ID of Cell 17; Clause 13.9 of C.S0024-C v2.0
px_HRPD_SectorID_Cell18	SectorID_HRPD _Type	oct2bit('FEA00000 0000000000000000 00000004'O)		Sector ID of Cell 18; Clause 13.9 of C.S0024-C v2.0
px_ColorCode	ColorCode_Type	64		Colour code of the subnet to which the sectors belong; Same for all HRPD cells
px_ColorCodeDiff	B32_Type	128		Colour code of the subnet to which the sectors belong; Adifferent colour code than default
px_OpenLoopAdjust	OpenLoopAdjust _Type	10		The value of open loop adjust to be used by access terminals in the open loop power estimate, expressed as an unsigned value in units of 1 dB. The value used by the access terminal is -1 times the value of this field
px_UATI24	O3_Type	'123456'O		UATI to be allocated to the UE, clause 6.3.7.2.2 of C.S0024-C v2.0
px_MACIndex	integer	15		ReverseLinkMACIndex to be used. Allowed values 0383 C.S0024-C v2.0 clause 12.4.1.3.2.2

Table 9.2-4: CDMA2000 1xRTT PIXIT

Parameter Name	Parameter Type	Default Value	Supported Values	Description
px_1XRTT_BaseId_Cell19	B16_Type	int2bit (39,16)		Base ID of Cell 19
px_1XRTT_BaseId_Cell20	B16_Type	int2bit (40,16)		Base ID of Cell 20
px_1XRTT_BaseId_Cell21	B16_Type	int2bit (41,16)		Base ID of Cell 21
px_1XRTT_BaseId_Cell22	B16_Type	int2bit (42,16)		Base ID of Cell 22
px_1XRTT_NID	B16_Type	int2bit (100,16)		default Network ID of 1xRTT Cells
px_1XRTT_SID	B15_Type	int2bit (200,15)		default SystemID of 1xRTT Cells
px_1XRTT_TMSI_Def	O4_Type	'1234ABCD'O		TMSI to be used in 1XRTT
px_1XRTT_MinProtRev	ProtRev_Type	0		Minimum Protocol revision supported by Base Station
px_1XRTT_UserInfo_EncMode	EncryptionMode _Type	2		Encryption Mode Rijndael algorithm
px_1XRTT_Sig_EncMode	EncryptionMode _Type	2		Encryption Mode Rijndael algorithm
px_1XRTT_BandClass	BandclassCDMA 2000_Type	1		Band Class; Table 1.5-1 of C.S0057 E v1.0. Default value corresponds to 1.8 GHz to 2.0 GHz PCS band
px_PowerDownRegEnabled	boolean	true		Parameter for power down reg in 1xRTT
px_1XRTT_Zone_Timer	B3_Type	'000'B		Zone timer sent in 'System Parameters Message' overhead message
px_RAND	B32_Type	'000011110000111 100001111000011 11'B		Random Challenge Data to be included along with mobility parameters in CSFBParametersResponseCDM A2000 or HandoverFromEUTRAPreparationRequest
px_RAND2	B32_Type	'000011110000111 100001111000011 11'B		Random Challenge Data to be included along with mobility parameters in CSFBParametersResponseCDM A2000 or HandoverFromEUTRAPreparationRequest

10 Postambles

The purpose of this clause is to specify postambles to bring the UE to a well defined state regardless of the UE state at the termination of main test body or of the SS conditions and values of the system information inherited from the test.

10.1 Postambles for E-UTRA to UTRA tests

This clause describes UE postamble procedures which are used at the end of inter-RAT test cases specified in TS 36.508 [3] so as to switch off the UE.

UE LTE and UTRAN postamble conditions are specified in table 10.1-1.

Table 10.1-1: UE postamble conditions

LTE UE attach type	UE UTRA CS/PS domain	Postamble condition
attach	pc_CS AND pc_PS	C1
	pc_PS AND NOT (pc_CS)	C2
combined_attach	pc_CS AND pc_PS	C3
	pc_CS AND NOT (pc_PS)	C4

10.1.1 UE postamble states and procedures for E-UTRA to UTRA

In order to bring the UE to the switched/powered off state, a number of procedures need to be executed in a hierarchical sequence, according to the reference end state specified in each test procedure sequence. The sequences and the identified procedures are shown in figure 10.1.1-1.

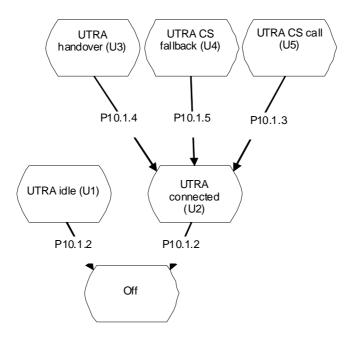


Figure 10.1.1-1: UE postamble procedures for E-UTRA / UTRA test cases

NOTE 1: Depending on the test case specifications the termination of a test case can be in any state of figure 10.1.1-1.

UE in UTRA state U2, U3, U4 and U5 may send data on the established radio bearer and shall be accepted and handled.

NOTE 2: NAS and AS security procedures during routing area update and handover are performed according to TS 33.401 [24], clauses 9.1.1 and 9.2.1 and TS 25.331 [36], clause 8.3.6.3.

10.1.2 Switch/Power off procedure

10.1.2.1 Procedure

Table 10.1.2.1-1: Switch/Power off procedure

Step	Procedure	Message Sequence		
Step	Procedure	U-S	Message	
1	The UE is powered off or switched off, (see ICS)	-	-	
_	EXCEPTION: Steps 2 to 7 specify the	-	-	
	behaviour if UE supports pc_SwitchOnOff.			
-	EXCEPTION: Steps 2 to 4 are used only			
	when the UE is in UTRA idle end state (U1).			
2	The UE transmits RRC CONNECTION REQUEST	>	RRC CONNECTION REQUEST	
3	The SS transmit a RRC CONNECTION SETUP	<	RRC CONNECTION SETUP	
4	The UE transmits an RRC CONNECTION SETUP COMPLETE message	>	RRC CONNECTION SETUP COMPLETE	
-	EXCEPTION: Step 4Aa1 to 4Aa6 specifies			
	optional behaviour if the UE is registered to			
	IMS services. UE may perform IMS-			
	deregistration procedure.			
4Aa1	The UE transmits UPLINK DIRECT	>	GMM SERVICE REQUEST	
	TRANSFER message or INITIAL DIRECT			
	TRANSFER message when the UE is in			
	UTRA idle end state (U1).			
	This message includes a GMM SERVICE			
4Aa2	REQUEST message with service type=Data. The SS transmits a SECURITY MODE		SECURITY MODE COMMAND	
4Aaz	COMMAND message for the ps domain.		SECORITI MODE COMMAND	
4Aa3	The UE transmits a SECURITY MODE		SECURITY MODE COMPLETE	
17100	COMPLETE message.		CEGOTATT MODE COMM EETE	
4Aa4	The SS transmits a RADIO BEARER SETUP		RADIO BEARER SETUP	
	message using the UTRA reference radio			
	bearer parameters and combination "UTRA			
	PS RB" according to TS 36.508 subclause			
	4.8.3 and Table 4.8.3-1.			
4Aa5	The UE transmits a RADIO BEARER SETUP COMPLETE		RADIO BEARER SETUP COMPLETE	
4Aa6	IMS de-registration is performed using the			
	generic procedure defined in 34.229-1 [40]			
	Annex C.30.			
-	EXCEPTION: Step 5a1 specifies behaviour when the current UTRA cell is in NMO I and	-	-	
	the UE is in condition:			
	- C1 or			
	- C3			
5a1	The UE transmits an UPLINK DIRECT	>	DETACH REQUEST	
	TRANSFER message or INITIAL DIRECT			
1	TRANSFER message when the UE is in			
	UTRA idle end state (U1).			
	This message includes a DETACH			
	REQUEST message with the detach			
	type='power switched off, GPRS/IMSI			
	combined detach'	1		
-	EXCEPTION: Step 5b1 specifies behaviour	-	-	
	when the current UTRA cell is in (NMO I or			
Eh1	NMO II) and the UE is in condition C4 The UE transmits an UPLINK DIRECT	-	IMOLDETACH INDICATION	
5b1	TRANSFER message or INITIAL DIRECT	>	IMSI DETACH INDICATION	
	TRANSFER message when the UE is in			
1	UTRA idle end state (U1).			
1	This message includes an IMSI DETACH			
1	INDICATION message			

Cton	Procedure		Message Sequence
Step	Procedure	U-S	Message
-	EXCEPTION: Step 5c1 specifies behaviour	-	-
	when the current UTRA cell is in (NMO I or		
	NMO II) and the UE is in condition C2		
5c1	The UE transmits an UPLINK DIRECT	>	DETACH REQUEST
	TRANSFER message or INITIAL DIRECT		
	TRANSFER message when the UE is in		
	UTRA idle end state (U1).		
	This message includes a DETACH		
	REQUEST message with detach type='power		
	switched off, PS detach"		
-	EXCEPTION: Steps 5d1 and 5d2 specify	-	-
	behaviour when the current UTRA cell is in		
	NMO II and the UE is in condition:		
	- C1 or		
	- C3.		
	Both detach messages (in steps 5d1 and 5d2)		
5d1	can be sent by UE in any order. The UE transmits an UPLINK DIRECT		DETACH REQUEST
501	TRANSFER message or INITIAL DIRECT	>	DETACH REQUEST
	TRANSFER message when the UE is in		
	UTRA idle end state (U1) and this is the first		
	message received.		
	This message includes a DETACH		
	REQUEST message with the detach		
	type='power switched off, PS detach"		
5d2	The UE transmits an UPLINK DIRECT	>	IMSI DETACH INDICATION
	TRANSFER message or INITIAL DIRECT		
	TRANSFER message when the UE is in		
	UTRA idle end state (U1) and this is the first		
	message received.		
	This message includes an IMSI DETACH		
	INDICATION message		
6	The SS transmits an RRC CONNECTION	<	RRC CONNECTION RELEASE
	RELEASE message		
7	The UE transmits a RRC CONNECTION	>	RRC CONNECTION RELEASE
	RELEASE COMPLETE message		COMPLETE

10.1.3 CC disconnect procedure

10.1.3.1 Procedure

Table 10.1.3.1-1: CC disconnect procedure

Ctom	Dreadure		Message Sequence
Step	Procedure	U - S	Message
1	The SS transmits a DOWNLINK DIRECT TRANSFER message.	<	DISCONNECT
	This message includes a DISCONNECT message.		
2	The UE transmits an UPLINK DIRECT TRANSFER message. This message includes a RELEASE	>	RELEASE
	message.		
3	The SS transmits a DOWNLINK DIRECT TRANSFER message. This message includes a RELEASE COMPLETE message.	<	RELEASE COMPLETE
4	Void		
5a	The SS transmits an RRC CONNECTION RELEASE message	<	RRC CONNECTION RELEASE
5b	The UE transmits a RRC CONNECTION RELEASE COMPLETE message	>	RRC CONNECTION RELEASE COMPLETE
5c	The UE transmits RRC CONNECTION REQUEST	>	RRC CONNECTION REQUEST
5d	The SS transmit a RRC CONNECTION SETUP	<	RRC CONNECTION SETUP
5e	The UE transmits an RRC CONNECTION SETUP COMPLETE message	>	RRC CONNECTION SETUP COMPLETE
6	The UE transmits an UPLINK DIRECT TRANSFER message. This message includes a ROUTING AREA UPDATE REQUEST message with Update type ='Combined RA/LA Updated'	>	ROUTING AREA UPDATE REQUEST
7	The SS transmits a DOWNLINK DIRECT TRANSFER message. This message includes a ROUTING AREA UPDATE ACCEPT message.	<	ROUTING AREA UPDATE ACCEPT
8	The UE transmits an UPLINK DIRECT TRANSFER message. This message includes a ROUTING AREA UPDATE COMPLETE message.	>	ROUTING AREA UPDATE COMPLETE

10.1.4 PS Routing Area Update procedure

10.1.4.1 Procedure

Table 10.1.4.1-1: PS Routing Area Update procedure

Cton	Dresedure	Message Sequence		
Step	Procedure	U-S	Message	
-	EXCEPTION: steps 1a1 to 1a5 specify the UE behaviour when the current UTRA cell is in NMO I and the UE is in condition: - C1 or - C3 and the UE is not registered to the LAC	-	-	
1a1	of the current UTRA cell The UE transmits an UPLINK DIRECT TRANSFER message. This message includes a ROUTING AREA UPDATE REQUEST message with Update type ='Combined RA/LA Updated'	>	ROUTING AREA UPDATE REQUEST	
1a2	Void	-	-	
1a3	Void	-	-	
1a4	The SS transmits a DOWNLINK DIRECT TRANSFER message. This message includes a ROUTING AREA UPDATE ACCEPT message.	<	ROUTING AREA UPDATE ACCEPT	
1a5	The UE transmits an UPLINK DIRECT TRANSFER message. This message includes a ROUTING AREA UPDATE COMPLETE message.	>	ROUTING AREA UPDATE COMPLETE	
-	EXCEPTION: steps 1b1 to 1b5 specify the UE behaviour when the current UTRA cell is in (NMO I or NMO II) and the UE is in condition: - C2 or - C3 and the UE is registered to the LAC of the current UTRA cell	-	-	
1b1	The UE transmits an UPLINK DIRECT TRANSFER message. This message includes a ROUTING AREA UPDATE REQUEST message with Update type ='RA Update'	>	ROUTING AREA UPDATE REQUEST	
1b2	Void	-	-	
1b3	Void	-	-	
1b4	The SS transmits a DOWNLINK DIRECT TRANSFER message. This message includes a ROUTING AREA UPDATE ACCEPT message.	<	ROUTING AREA UPDATE ACCEPT	
1b5	The UE transmits an UPLINK DIRECT TRANSFER message. This message includes a ROUTING AREA UPDATE COMPLETE message.	>	ROUTING AREA UPDATE COMPLETE	
-	EXCEPTION: steps 1c1 to 1c9 specify the UE behaviour when the current UTRA cell is in NMO II and the UE is in condition: - C1 or - C3 and the UE is not registered to the LAC of the current UTRA cell. The LOCATION UPDATE REQUEST message (step 1c6) can be received during the routing area updating procedure (steps	-	-	
1c1	1c1 to 1c4). The UE transmits an UPLINK DIRECT TRANSFER message. This message includes a ROUTING AREA UPDATE REQUEST message with Update type ='RA Update'.	>	ROUTING AREA UPDATE REQUEST	

Ston	Procedure		Message Sequence		
Step	Procedure	U-S	Message		
1c2	Void	-	-		
1c3	Void	-	-		
1c4	The SS transmits a DOWNLINK DIRECT TRANSFER message. This message includes a ROUTING AREA UPDATE ACCEPT message.	<	ROUTING AREA UPDATE ACCEPT		
1c5	The UE transmits an UPLINK DIRECT TRANSFER message. This message includes a ROUTING AREA UPDATE COMPLETE message.	>	ROUTING AREA UPDATE COMPLETE		
1c6	The UE transmits an UPLINK DIRECT TRANSFER message. This message includes a LOCATION UPDATING REQUEST message.	>	LOCATION UPDATING REQUEST		
1c7	The SS transmits a SECURITY MODE COMMAND message.	<	SECURITY MODE COMMAND		
1c8	The UE transmits a SECURITY MODE COMPLETE message.	>	SECURITY MODE COMPLETE		
1c9	The SS transmits a DOWNLINK DIRECT TRANSFER message. This message includes a LOCATION UPDATING ACCEPT	<	LOCATION UPDATING ACCEPT		
1c10	The EU transmits a UPLINK DIRECT TRANSFER message. This message includes a TMSI REALLOCATION COMPLETE	>	TMSI REALLOCATION COMPLETE		

10.1.5 CS fallback procedure

10.1.5.1 Procedure

Table 10.1.5.1-1: CS fallback procedure

Cton	Procedure	Message Sequence		
Step		U-S	Message	
-	EXCEPTION: In parallel to the events	-	-	
	described in step 1a1 to 2a5 the steps			
	specified in table 10.1.5.1-2 takes place.			
-	EXCEPTION: Steps 1a1 and 1a2 specify the	-	-	
	MO call procedure and step 1b1 specifies the			
	MT call procedure.			
1a1	The UE transmits an INITIAL DIRECT	>	CM SERVICE REQUEST	
	TRANSFER message including a CM			
	SERVICE REQUEST message.			
1a2	The SS transmits an UPLINK DIRECT	<	CM SERVICE REJECT	
	TRNASFER message including a CM			
	SERVICE REJECT with the reject cause #32			
	(Service option not supported)			
-	EXCEPTION: Step 1b1 specifies the MT call	-	-	
	procedure.		2.0000	
1b1	The UE transmits an INITIAL DIRECT	>	PAGING RESPONSE	
	TRANSFER message including a PAGING			
	RESPONSE message.			
-	EXCEPTION: Steps 2a1 and 2a5 specify the	-	-	
	location area update procedure when the			
	current UTRA cell is in NMO II and the UE is			
	in condition C3 and the UE is not registered to			
- 1	the LAC of the current UTRA cell.		LOCATION LIBRATING REQUIEST	
2a1	The UE transmits an UPLINK DIRECT	>	LOCATION UPDATING REQUEST	
	TRANSFER message.			
	This message includes a LOCATION			
	UPDATING REQUEST message.	1		

The SS transmits a SECURITY MODE	Ston	Procedure		Message Sequence
COMMAND message. COMPLETE message. This message includes a LOCATION COMPLETE	Step	Procedure	U-S	Message
The UE transmits a SECURITY MODE COMPLETE message This SS transmits a DOWNLINK DIRECT TRANSFER message includes a LOCATION UPDATING ACCEPT TRANSFER message includes a TMSI REALLOCATION COMPLETE TRANSFER message This message includes a TMSI REALLOCATION COMPLETE TRANSFER message TRANSFER MESSA	2a2	COMMAND message.	<	SECURITY MODE COMMAND
The SS transmits a DOWNLINK DIRECT TRANSFER message, This message includes a LOCATION UPDATING ACCEPT The EU transmits a UPLINK DIRECT TRANSFER message, This message includes a TMSI REALLOCATION COMPLETE The SS transmits a SECURITY MODE COMMAND message, The UE transmits a SECURITY MODE COMMAND message, This message includes a TOWNLINK DIRECT TRANSFER message, This message includes a ROUTING AREA UPDATE ACCEPT message, This message includes a ROUTING AREA UPDATE COMPLETE message, This message includes a ROUTING AREA UPDATE COMPLETE message, This message includes a ROUTING AREA UPDATE COMPLETE message, This message includes a ROUTING AREA UPDATE COMPLETE message, This message includes a ROUTING AREA UPDATE COMPLETE message, The UE transmits a SECURITY MODE COMMAND message, The UE transmits a SECURITY MODE COMMAND message, The UE transmits a SECURITY MODE COMPLETE message. This message includes a ROUTING AREA UPDATE ACCEPT message. This message includes a ROUTING AREA UPDATE ACCEPT message. This message includes a ROUTING AREA UPDATE ACCEPT message. This message includes a ROUTING AREA UPDATE ACCEPT message. This message includes a ROUTING AREA UPDATE ACCEPT message. This message includes a ROUTING AREA UPDATE ACCEPT message. The UE transmits a UPLINK DIRECT TRANSFER message. This message includes a ROUTING AREA UPDATE COMPLETE message. EXCEPTION: Steps 7th and 7th 4 specify the location updating procedure when the current UTRA cell is in network mode (NMO 1 or NMO II) and the UE is in condition of and the UE is not registered to the LAC of the current UTRA cell. The UE transmits a SECURITY MODE COMMAND message. This message includes a LOCATION UPDATING REQUEST message. This message includes a COCATION UPDATING REQUEST message. The UE transmits a SECURITY MODE COMMAND message. This message includes a COCATION	2a3	The UE transmits a SECURITY MODE COMPLETE message.	>	SECURITY MODE COMPLETE
UPDATING ACCEPT 2a5 The EU transmits a UPLINK DIRECT TRANSFER message. This message includes a TMSI REALLOCATION COMPLETE 3 The SS transmits a SECURITY MODE COMMAND message. The UE transmits a SECURITY MODE COMMAND message. The UE transmits a DOWNLINK DIRECT TRANSFER message includes a ROUTING AREA UPDATE ACCEPT MODE TRANSFER message. This message includes a ROUTING AREA UPDATE COMPLETE message. This message includes a ROUTING AREA UPDATE COMPLETE message. This message includes a ROUTING AREA UPDATE COMPLETE message. This message includes a ROUTING AREA UPDATE COMPLETE message. This message includes a ROUTING AREA UPDATE COMPLETE message. This message includes a ROUTING AREA UPDATE REQUEST message. This message includes a ROUTING AREA UPDATE REQUEST message. This message includes a ROUTING AREA UPDATE REQUEST message. This message includes a ROUTING AREA UPDATE REQUEST message. This message includes a ROUTING AREA UPDATE REQUEST message. This message includes a ROUTING AREA UPDATE REQUEST message. This message includes a ROUTING AREA UPDATE ACCEPT message. This message includes a ROUTING AREA UPDATE ACCEPT message. This message includes a ROUTING AREA UPDATE ACCEPT message. This message includes a ROUTING AREA UPDATE ACCEPT message. This message includes a ROUTING AREA UPDATE ACCEPT message. This message includes a ROUTING AREA UPDATE ACCEPT message. This message includes a ROUTING AREA UPDATE ACCEPT message. This message includes a ROUTING AREA UPDATE ACCEPT message. This message includes a ROUTING AREA UPDATE COMPLETE message. This message includes a ROUTING AREA UPDATE COMPLETE message. This message includes a LOCATION UPDATING REQUEST message. This message includes a LOCATION UPDATING REQUEST message. This message includes a LOCATION UPDATING REQUEST message. This message includes a LOCATION UPDATING ACCEPT THE ROUTING	2a4	The SS transmits a DOWNLINK DIRECT TRANSFER message.	<	LOCATION UPDATING ACCEPT
TRANSFER message includes a TMSI REALLOCATION COMPLETE 3 The SS transmits a SECURITY MODE COMMAND message. 4 The UE transmits a SECURITY MODE COMMAND message. 5 The SS transmits a DOWNLINK DIRECT TRANSFER message includes a ROUTING AREA UPDATE ACCEPT message. 6 The UE transmits an UPLINK DIRECT TRANSFER message. This message includes a ROUTING AREA UPDATE ACCEPT message. 6 The UE transmits an UPLINK DIRECT TRANSFER message. 7 TRANSFER message. 7 EXCEPTION: Steps 7a1 and 7a5 specify the combined routing updating procedure when the initial RAU procedure was for RA Only. This may occur either before, or after, steps 8 and 9 7 The UE transmits a ROUTING AREA UPDATE REQUEST message. 7 The UE transmits a SECURITY MODE COMMAND message. 7 The SS transmits a SECURITY MODE COMPLETE message. 7 The UE transmits a DOWNLINK DIRECT TRANSFER message. 7 TRANSFER		UPDATING ACCEPT		
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The UE transmits a SECURITY MODE COMPLETE message. 5 The SS transmits a DOWNLINK DIRECT TRANSFER message includes a ROUTING AREA UPDATE ACCEPT message. - EXCEPTION: Steps 7a1 and 7a5 specify the combined routing updating procedure when the initial RAU procedure was for RA Only. This may occur either before, or after, steps 8 and 9 7a1 The UE transmits a SECURITY MODE COMMAND message. 7a2 The SS transmits a SECURITY MODE COMMAND message. 7a3 The UE transmits a SECURITY MODE COMPLETE message. 7a4 The ST transmits a SECURITY MODE COMPLETE message. 7a5 The UE transmits a DOWNLINK DIRECT TRANSFER message. 7a6 The UE transmits a DOWNLINK DIRECT TRANSFER message. 7a7 The UE transmits a DOWNLINK DIRECT TRANSFER message. 7a8 The UE transmits a SECURITY MODE COMPLETE message. 7a9 The UE transmits a SECURITY MODE COMPLETE message. 7a0 The UE transmits a DOWNLINK DIRECT TRANSFER message. 7a1 The UE transmits a DOWNLINK DIRECT TRANSFER message. 7a2 The UE transmits an UPLINK DIRECT TRANSFER message. 7a3 The UE transmits an UPLINK DIRECT TRANSFER message. 7a4 The UE transmits an UPLINK DIRECT TRANSFER message. 7a5 The UE transmits an UPLINK DIRECT TRANSFER message. 7a6 The UE transmits an UPLINK DIRECT TRANSFER message. 7a7 The UE transmits an UPLINK DIRECT TRANSFER message. 7a8 The UE transmits an UPLINK DIRECT TRANSFER message. 7a9 The UE transmits an UPLINK DIRECT TRANSFER message. 7a9 The UE transmits an UPLINK DIRECT TRANSFER message. 7a9 The UE transmits an UPLINK DIRECT TRANSFER message. 7a9 The UE transmits an UPLINK DIRECT TRANSFER message. 7a9 The UE transmits an UPLINK DIRECT TRANSFER message. 7a9 The UE transmits an UPLINK DIRECT TRANSFER message. 7a9 The UE transmits an UPLINK DIRECT TRANSFER message. 7a9 The UE transmits an UPLINK DIRECT TRANSFER message. 7a9 The UE transmits an UPLINK DIRECT TRANSFER message. 7a9 The UE transmits an UPLINK DIRECT TRANSFER message. 7a0 The UE transmits an UPLINK DIRECT TRANSFER message. 7a0 The UE transmits an UPLINK DIRECT TRANSFER message. 7a0		REALLOCATION COMPLETE		
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This message includes a ROUTING AREA UPDATE ACCEPT message. 6 The UE transmits an UPLINK DIRECT TRANSFER message. This message includes a ROUTING AREA UPDATE COMPLETE message. - EXCEPTION: Steps 7a1 and 7a5 specify the combined routing updating procedure when the initial RAU procedure was for RA Only. This may occur either before, or after, steps 8 and 9 7a1 The UE transmits a ROUTING AREA UPDATE REQUEST UPDATE REQUEST message. 7a2 The SS transmits a SECURITY MODE COMMAND message. 7a3 The UE transmits a SECURITY MODE COMPLETE message. 7a4 The SS transmits a SECURITY MODE COMPLETE message. 7a5 The UE transmits an UPLINK DIRECT TRANSFER message includes a ROUTING AREA UPDATE ACCEPT message. 7a6 The UE transmits an UPLINK DIRECT TRANSFER message includes a ROUTING AREA UPDATE COMPLETE message. - EXCEPTION: Steps 7b1 and 7b4 specify the location updating procedure when the current UTRA cell is in network mode (NMO I or NMO II) and the UE is in condition C4 and the UE is not registered to the LAC of the current UTRA cell. 7b1 The UE transmits an UPLINK DIRECT TRANSFER message. This message includes a ROUTING AREA UPDATE COMPLETE message. 7b2 The SS transmits a SECURITY MODE COMMAND COMPLETI MESSEGUE TRANSFER message. 7b2 The SS transmits a SECURITY MODE COMMAND COMPLETE message. 7b3 The UE transmits a SECURITY MODE COMMAND message. 7b4 The SS transmits a SECURITY MODE COMPLETE COMPLE	5	The SS transmits a DOWNLINK DIRECT	<	ROUTING AREA UPDATE ACCEPT
6 The UE transmits an UPLINK DIRECT TRANSFER message; This message includes a ROUTING AREA UPDATE COMPLETE message. - EXCEPTION: Steps 7a1 and 7a5 specify the combined routing updating procedure when the initial RAU procedure was for RA Only. This may occur either before, or after, steps 8 and 9 7a1 The UE transmits a ROUTING AREA UPDATE REQUEST message. 7a2 The SS transmits a SECURITY MODE COMMAND message. 7a3 The UE transmits a SECURITY MODE COMPLETE message. 7a4 The SS transmits a DOWNLINK DIRECT TRANSFER message. 7a5 The UE transmits an OUTING AREA UPDATE ACCEPT message. 7a6 The UE transmits an UPLINK DIRECT TRANSFER message. 7a7 TRANSFER message. 7a8 The UE transmits an OUTING AREA UPDATE ACCEPT message. 7a9 The UE transmits an UPLINK DIRECT TRANSFER message. 7a0 The UE transmits an UPLINK DIRECT TRANSFER message. 7a1 The UE transmits an UPLINK DIRECT TRANSFER message. 7a2 The UE transmits an UPLINK DIRECT TRANSFER message. 7a3 The UE transmits an UPLINK DIRECT TRANSFER message. 7b4 The SS transmits an UPLINK DIRECT TRANSFER message. 7b5 The UE transmits an UPLINK DIRECT TRANSFER message. 7b6 The UE transmits an UPLINK DIRECT TRANSFER message. 7b7 TRANSFER message. 7b8 ST TRANSFER message. 7b9 The SS transmits an SECURITY MODE COMMAND message. 7b9 The SS transmits a SECURITY MODE COMMAND message. 7b1 The UE transmits a SECURITY MODE COMMAND message. 7b2 The SS transmits a DOWNLINK DIRECT TRANSTER message. 7b3 The UE transmits a DOWNLINK DIRECT TRANSFER message. 7b4 The SS transmits a DOWNLINK DIRECT TRANSTER message. 7b6 The SS transmits a DOWNLINK DIRECT TRANSTER message. 7b7 The SS transmits a DOWNLINK DIRECT TRANSTER message. 7b8 The UE transmits a SECURITY MODE COMMAND message. 7b9 The SS transmits a DOWNLINK DIRECT TRANSTER message.		This message includes a ROUTING AREA		
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TRANSFER message. This message includes a ROUTING AREA UPDATE COMPLETE message. - EXCEPTION: Steps 7b1 and 7b4 specify the location updating procedure when the current UTRA cell is in network mode (NMO I or NMO II) and the UE is in condition C4 and the UE is not registered to the LAC of the current UTRA cell. 7b1 The UE transmits an UPLINK DIRECT TRANSFER message. This message includes a LOCATION UPDATING REQUEST message. 7b2 The SS transmits a SECURITY MODE COMMAND message. 7b3 The UE transmits a SECURITY MODE COMPLETE message. 7b4 The SS transmits a DOWNLINK DIRECT COATION UPDATING ACCEPT		UPDATE AČCEPT message.		
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Cell. The UE transmits an UPLINK DIRECT TRANSFER message. This message includes a LOCATION UPDATING REQUEST message. The SS transmits a SECURITY MODE COMMAND message. The UE transmits a SECURITY MODE COMPLETE message. The SS transmits a DOWNLINK DIRECT COCATION UPDATING ACCEPT COCATION UPDATING ACCEPT COCATION UPDATING ACCEPT Complete transmits a DOWNLINK DIRECT COCATION UPDATING ACCEPT Coca				
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This message includes a LOCATION UPDATING REQUEST message. 7b2 The SS transmits a SECURITY MODE COMMAND message. 7b3 The UE transmits a SECURITY MODE COMPLETE message. 7b4 The SS transmits a DOWNLINK DIRECT This message includes a LOCATION UPDATING ACCEPT SECURITY MODE COMPLETE > LOCATION UPDATING ACCEPT	ľØ1	TRANSFER message.	>	LOCATION UPDATING REQUEST
The SS transmits a SECURITY MODE COMMAND message. SECURITY MODE COMMAND		This message includes a LOCATION		
7b3 The UE transmits a SECURITY MODE COMPLETE message. 7b4 The SS transmits a DOWNLINK DIRECT COMPLETE	7b2	The SS transmits a SECURITY MODE	<	SECURITY MODE COMMAND
7b4 The SS transmits a DOWNLINK DIRECT < LOCATION UPDATING ACCEPT	7b3	The UE transmits a SECURITY MODE	>	SECURITY MODE COMPLETE
I ITDANSEED mossage	7b4	The SS transmits a DOWNLINK DIRECT	<	LOCATION UPDATING ACCEPT
This message includes a LOCATION				
UPDATING ACCEPT 7b5 The EU transmits a UPLINK DIRECT> TMSI REALLOCATION COMPLETE	7h5		>	TMSLREALLOCATION COMPLETE
TRANSFER message.	. 50	TRANSFER message.		The state of the s
This message includes a TMSI REALLOCATION COMPLETE		REALLOCATION COMPLETE		

Step	Procedure	Message Sequence		
Step	p Procedure		Message	
8	The SS transmits an RRC CONNECTION RELEASE message.	<	RRC CONNECTION RELEASE	
9	The UE transmits an RRC CONNECTION	>	RRC CONNECTION RELEASE	
	RELEASE COMPLETE message.		COMPLETE	

Table 10.1.5.1-2: Parallel behaviour

St	Procedure		Message Sequence	TP	Verdict
		U-S	Message		
1	The UE transmits a ROUTING AREA UPDATE	>	ROUTING AREA UPDATE	-	-
	REQUEST message.		REQUEST		

10.2 Postambles for E-UTRAN to GERAN tests

This clause describes UE postamble procedures which are used at the end of inter-RAT test cases defined in TS 36.508 [3] so as to switch off the UE. UE LTE and GERAN postamble transitions are specified in table 10.2-1.

Table 10.2-1: UE postamble conditions

LTE UE attach type	UE GERAN CS/PS domain	Postamble condition
attach	pc_GPRS	C1
combined attach	pc_GPRS	C2
	NOT pc_GPRS	C3

10.2.1 UE postamble states and procedures for E-UTRA to GERAN test cases

In order to bring the UE to the switched/powered off state there are a number of procedures that need to be executed in a hierarchical sequence, according to the reference end state specified in each test procedure sequence. The sequences and the identified procedures are shown in figure 10.2.1-1.

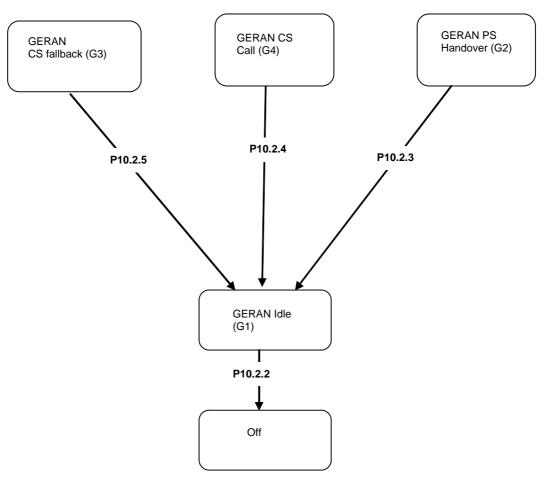


Figure 10.2.1-1: UE postamble procedures for E-UTRA / GERAN test cases

NOTE 1: Depending on the test case specifications the termination of a test case can be in any state of figure 10.2.1-1.

NOTE 2: The security procedures for interworking to GERAN are according to TS 33.401 [24] clauses 10.2.1 and 10.3.1.

10.2.2 Switch/Power off procedure

10.2.2.1 Procedure

Table 10.2.2.1-1: Switch/Power off procedure

Cton	Procedure	Message Sequence		
Step		U-S	Message	
1	The UE is powered off or switched off, (see ICS)	-	-	
-	EXCEPTION: Steps 2a1 to 2c2 specify the behaviour if UE supports pc_SwitchOnOff.	-	-	
-	EXCEPTION: Step 2a1 specifies behaviour when the GERAN cell is in (NMO I or NMO II) and UE is in condition C1	-	-	
2a1	The UE transmits a DETACH REQUEST message	>	DETACH REQUEST	
-	EXCEPTION: Step 2b1 specifies behaviour when the GERAN cell is in (NMO I or NMO II) and UE is in condition C3	-	-	
2b1	The UE transmits an IMSI DETACH INDICATION message	>	IMSI DETACH INDICATION	
-	EXCEPTION: Steps 2c1 and 2c2 specify behaviour when the GERAN cell is in NMO II and UE is in condition C2. The messages can be sent in any order	-	-	
2c1	The UE transmits an IMSI DETACH INDICATION message	>	IMSI DETACH INDICATION	
2c2	The UE transmits a DETACH REQUEST message	>	DETACH REQUEST	

10.2.3 PS Handover procedure

10.2.3.1 Procedure

Table 10.2.3.1-1: PS handover procedure

Cton	Ducasdana	Message Sequence		
Step	Procedure	U-S	Message	
-	EXCEPTION: Steps 1a1 and 1a3 specify the UE behaviour when GERAN cell is in NMO I and the UE is in condition C2 and the UE is not registered to the LAC of this cell.	-	-	
1a1	The UE transmits a ROUTING AREA UPDATE REQUEST message with update type='Combined RA/LA Update'.	>	ROUTING AREA UPDATE REQUEST	
1a2	The SS transmits a ROUTING AREA UPDATE ACCEPT message.	<	ROUTING AREA UPDATE ACCEPT	
1a3	The UE transmits a ROUTING AREA UPDATE COMPLETE message.	>	ROUTING AREA UPDATE COMPLETE	
-	EXCEPTION: Steps 1b1 and 1b3 specify the location updating procedure when GERAN cell is in (NMO I or NMO II) and the UE is in condition C2 and the UE is registered to the LAC of this cell.	-	-	
1b1	The UE transmits a ROUTING AREA UPDATE REQUEST message with update type='RA Update'.	>	ROUTING AREA UPDATE REQUEST	
1b2	The SS transmits a ROUTING AREA UPDATE ACCEPT message.	<	ROUTING AREA UPDATE ACCEPT	
1b3	The UE transmits a ROUTING AREA UPDATE COMPLETE message.	>	ROUTING AREA UPDATE COMPLETE	
-	EXCEPTION: Steps 1c1 and 1c6 specify the location updating procedure when GERAN cell is in NMO II and the UE is in condition C2 and the UE is not registered to the LAC of this cell.	-	-	
1c1	The UE transmits a ROUTING AREA UPDATE REQUEST message with update type='RA Update'.	>	ROUTING AREA UPDATE REQUEST	
1c2	The SS transmits a ROUTING AREA UPDATE ACCEPT message.	<	ROUTING AREA UPDATE ACCEPT	
1c3	The UE transmits a ROUTING AREA UPDATE COMPLETE message.	>	ROUTING AREA UPDATE COMPLETE	
1c4	The UE transmits a LOCATION UPDATING REQUEST message.	>	LOCATION UPDATING REQUEST	
1c4A1	The UE transmits a Classmark Change message	>	CLASSMARK CHANGE	
-	EXCEPTION: The next step describes behaviour that depends on UE capability.	-	-	
1c4A2	IF pc_UTRA THEN the UE transmits a <i>Utran</i> Classmark Change message.	>	UTRAN CLASSMARK CHANGE.	
1c5	The SS transmits a LOCATION UPDATING ACCEPT	<	LOCATION UPDATING ACCEPT	
1c6	The UE transmits a TMSI REALLOCATION COMPLETE		TMSI REALLOCATION COMPLETE	

10.2.4 CC disconnect procedure

10.2.4.1 Procedure

Table 10.2.4.1-1: CC disconnect procedure

Step	Procedure	Message Sequence		
Step		U - S	Message	
1	The SS transmits a DISCONNECT message.	<	DISCONNECT	
2	The UE transmits a RELEASE message.	>	RELEASE	
3	The SS transmits a RELEASE COMPLETE message.	<	RELEASE COMPLETE	
4	The SS transmits a CHANNEL RELEASE message.	<	CHANNEL RELEASE	

10.2.5 CS fallback procedure

10.2.5.1 Procedure

Table 10.2.5.1-1: CS fallback procedure MO call

01	Procedure	Message Sequence		
Step		U-S	Message	
-	EXCEPTION: Steps 1a1 and 1a2 specify the	-	-	
	MO call procedure.			
1a1	The UE transmits a CM SERVICE REQUEST	>	CM SERVICE REQUEST	
	message.			
1a2	The SS transmits a CM SERVICE REJECT	<	CM SERVICE REJECT	
	with the reject cause #32 (Service option not			
	supported)			
-	EXCEPTION: Step 1b1 specifies the MT call	-	-	
	procedure.			
1b1	The UE transmits a PAGING RESPONSE	>	PAGING RESPONSE	
	message.			
-	EXCEPTION: Steps 2a1 to 2a6 specify the	-	-	
	procedure when GERAN cell is in NMO II and			
	if the UE is in condition C2 and the UE is			
	registered to the LAC of the current GERAN			
2-1	cell. The UE transmits a LOCATION UPDATING		LOCATION LIDDATING DEGLICOT	
2a1		>	LOCATION UPDATING REQUEST	
2a1A1	REQUEST message. The UE transmits a Classmark Change		CLASSMARK CHANGE	
ZaiAi	message	>	CLASSIVIARY CHANGE	
_	EXCEPTION: The next step describes	-	_	
_	behaviour that depends on UE capability.	_		
2a1A2	IF pc_UTRA THEN the UE transmits a <i>Utran</i>	>	UTRAN CLASSMARK CHANGE.	
Zainz	Classmark Change message.		OTTAIN CLASSIMATIC CHANGE.	
2a2	The SS transmits a LOCATION UPDATING	<	LOCATION UPDATING ACCEPT	
Zuz	ACCEPT	`	Legariner of Branco Recel 1	
2a3	The UE transmits a TMSI REALLOCATION		TMSI REALLOCATION COMPLETE	
	COMPLETE			
2a4	The UE transmits a ROUTING AREA	>	ROUTING AREA UPDATE REQUEST	
	UPDATE REQUEST message.			
2a5	The SS transmits a ROUTING AREA	<	ROUTING AREA UPDATE ACCEPT	
	UPDATE ACCEPT message.			
2a6	The UE transmits a ROUTING AREA	>	ROUTING AREA UPDATE COMPLETE	
	UPDATE COMPLETE message.	>		
-	EXCEPTION: Steps 2b1 to 2b3 specify the	-	-	
	location updating procedure when GERAN			
	cell is in (NMO I or NMO II) and if the UE is in			
	condition C3 and the UE is not registered to			
	the LAC of the current GERAN cell			
2b1	The UE transmits a LOCATION UPDATING	>	LOCATION UPDATING REQUEST	

Step	Procedure	Message Sequence		
Step	Frocedure	U-S	Message	
	REQUEST message.			
2b1A1	The UE transmits a Classmark Change	>	CLASSMARK CHANGE	
	message			
-	EXCEPTION: The next step describes	-	-	
	behaviour that depends on UE capability.			
2b1A2	IF pc_UTRA THEN the UE transmits a <i>Utran</i>	>	UTRAN CLASSMARK CHANGE.	
	Classmark Change message.			
2b2	The SS transmits a LOCATION UPDATING	<	LOCATION UPDATING ACCEPT	
	ACCEPT			
2b3	The UE transmits a TMSI REALLOCATION		TMSI REALLOCATION COMPLETE	
	COMPLETE			
-	EXCEPTION: Steps 2c1 to 2c3 specify the	-	-	
	routing area updating procedure when the			
	GERAN cell is in NMO I and the UE is in			
	condition C2and the UE is not registered to			
	the LAC of the current GERAN cell			
2c1	The UE transmits a ROUTING AREA	>	ROUTING AREA UPDATE REQUEST	
	UPDATE REQUEST message with update			
	type = 'Combined RA/LA update'.			
2c2	The SS transmits a ROUTING AREA	<	ROUTING AREA UPDATE ACCEPT	
	UPDATE ACCEPT message.			
2c3	The UE transmits a ROUTING AREA	>	ROUTING AREA UPDATE COMPLETE	
	UPDATE COMPLETE message.			

10.3 Postambles for E-UTRA test cases

This clause describes UE postamble states which can be used in the post condition of E-UTRA test cases defined in TS 36.523-1 [1]. The clause also specifies a set of procedures to bring the UE into these states.

10.3.1 UE postamble states and procedures for E-UTRA test cases

In order to bring the UE to switched/powered off state there are some procedures that need to be executed. The identified procedures are shown in figure 10.3.1-1.

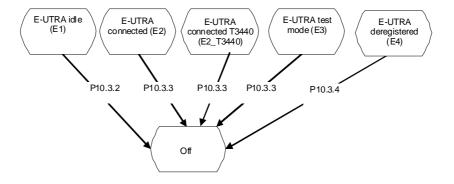


Figure 10.3.1-1: UE postamble states and procedures for E-UTRA

10.3.2 Switch/Power off procedure in State E1

10.3.2.1 Procedure

Table 10.3.2.1-1: Switch/Power off procedure

04	Don and done	Message Sequence		
Step	Procedure	U-S	Message	
1	The UE is powered off or switched off, (see ICS)	-	-	
-	EXCEPTION: Steps 2a1 to 2a4 specify behaviour if the UE supports pc_SwitchOnOff	-	-	
2a1	UE transmits an RRCConnectionRequest message.	>	RRC: RRCConnectionRequest	
2a2	SS transmit an RRCConnectionSetup message.	<	RRC: RRCConnectionSetup	
-	EXCEPTION: Steps 2a3Aa1 to 2a3Aa6 specify optional behaviour if the UE has previously performed IMS registration	-	-	
2a3Aa 1	The UE transmits an RRCConnectionSetupComplete message to confirm the successful completion of the connection establishment and to initiate the IMS signalling procedure by including the SERVICE REQUEST message.	>	RRC: RRCConnectionSetupComplete NAS: SERVICE REQUEST	
2a3Aa 2	The SS transmits a SecurityModeCommand message to activate AS security.	<	RRC: SecurityModeCommand	
2a3Aa 3	The UE transmits a SecurityModeComplete message and establishes the initial security configuration.	>	RRC: SecurityModeComplete	
2a3Aa 4	The SS configures a new data radio bearer, associated with the default EPS bearer context. The RRCConnectionReconfiguration message is using condition SRB2-DRB(1, 0). The DRB associated with default EPS bearer context obtained during the attach procedure is established	<	RRC: RRCConnectionReconfiguration	
	EXCEPTION: In parallel to the event described in step 2a3Aa5 below, the behaviour in TS 34.229-1[40] Annex C.30 may occur. (IMS de-registration)	-	-	
2a3Aa 5	The UE transmits an RRCConnectionReconfigurationComplete message to confirm the establishment of the new data radio bearer, associated with the default EPS bearer context.	>	RRC: RRCConnectionReconfigurationComplet e	
2a3Aa 6	The UE initiates the Detach procedure by sending DETACH REQUEST	>	NAS: DETACH REQUEST	
	EXCEPTION: Step 2a3Ba1 below specifies the behaviour if the UE has not previously performed IMS registration			
2a3 Ba1	The UE transmits an RRCConnectionSetupComplete message to confirm the successful completion of the connection establishment and to initiate the Detach procedure by including the DETACH REQUEST message.	>	RRC: RRCConnectionSetupComplete NAS: DETACH REQUEST	
2a4	The SS transmits an RRC CONNECTION RELEASE message	<	RRC CONNECTION RELEASE	

10.3.3 Switch/Power off procedure in State E2 and E3

10.3.3.1 Procedure for E2 and E3

Table 10.3.3.1-1: Switch/Power off procedure

Ston	Procedure	Message Sequence		
Step	Procedure	U-S	Message	
1	The UE is powered off or switched off (see ICS)	-	-	
-	EXCEPTION: Steps 2a1 to 2a2 specify behaviour if the UE supports pc_SwitchOnOff	-	-	
-	EXCEPTION: Step 2a1Aa1 to 2a1Aa2 below specifies optional behaviour if the UE has previously performed IMS registration	-	-	
2a1Aa 1 – 2a1Aa 2	The UE may perform the procedure described in TS 34.229-1[40] Annex C.30 (IMS deregistration)	-	-	
2a1	The UE transmits DETACH REQUEST	>	DETACH REQUEST	
2a2	The SS transmits an RRC CONNECTION RELEASE message	<	RRC CONNECTION RELEASE	

10.3.3.2 Procedure for E2_T3440

Table 10.3.3.2-1: RRC release and switch/power off procedure

24	Message Seguenc		Message Sequence
Step	Procedure	U - S	Message
1	The SS transmits an RRC CONNECTION RELEASE message	<	RRC CONNECTION RELEASE
2	The SS waits for 5s to ensure that the UE goes to RRC_IDLE state.	-	
3	The UE is powered off or switched off (see ICS)	-	-
-	EXCEPTION: Steps 4a1 to 4a4 specify behaviour if the UE supports pc_SwitchOnOff	-	-
4a1	UE transmits an RRCConnectionRequest message.	>	RRC: RRCConnectionRequest
4a2	SS transmit an <i>RRCConnectionSetup</i> message.	<	RRC: RRCConnectionSetup
-	EXCEPTION: Steps 4a3Aa1 to 4a3Aa6 specify optional behaviour is the UE has previously performed IMS registration	-	-
4a3Aa 1	The UE transmits an RRCConnectionSetupComplete message to confirm the successful completion of the connection establishment and to initiate the IMS signalling procedure by including the SERVICE REQUEST message.	>	RRC: RRCConnectionSetupComplete NAS: SERVICE REQUEST
4a3Aa	The SS transmits a SecurityModeCommand	<	RRC: SecurityModeCommand
2 4a3Aa 3	message to activate AS security. The UE transmits a SecurityModeComplete message and establishes the initial security configuration.	>	RRC: SecurityModeComplete
4a3Aa 4	The SS configures a new data radio bearer, associated with the default EPS bearer context. The RRCConnectionReconfiguration message is using condition SRB2-DRB(1, 0). The DRB associated with default EPS bearer context obtained during the attach procedure is established	<	RRC: RRCConnectionReconfiguration
-	EXCEPTION: In parallel to the event described in step 4a3Aa5 below, the behaviour in TS 34.229-1[40] Annex C.30 may occur. (IMS de-registration)	-	-
4a3Aa 5	The UE transmits an RRCConnectionReconfigurationComplete message to confirm the establishment of the new data radio bearer, associated with the default EPS bearer context.	>	RRC: RRCConnectionReconfigurationComplet e
4a3Aa 6	The UE initiates the Detach procedure by sending DETACH REQUEST	>	NAS: DETACH REQUEST
-	EXCEPTION: Step 4a3Ba1 below specifies the behaviour if the UE has not previously performed IMS registration	-	
4a3 Ba1	The UE transmits an RRCConnectionSetupComplete message to confirm the successful completion of the connection establishment and to initiate the Detach procedure by including the DETACH REQUEST message.	>	RRC: RRCConnectionSetupComplete NAS: DETACH REQUEST
4a4	The SS transmits an RRC CONNECTION RELEASE message	<	RRC CONNECTION RELEASE

10.3.4 Switch/Power off procedure in State E4

10.3.4.1 Procedure

Table 10.3.4.1-1: Switch/Power off procedure

Step	Procedure		Message Sequence
Step	riocedule	U-S	Message
1	The UE is powered off or switched off (see ICS)	-	-

10.4 Postambles for E-UTRA to HRPD test cases

This clause describes UE postamble states which can be used in the post condition of E-UTRA test cases defined in TS 36.523-1 [1]. The clause also specifies a set of procedures to bring the UE into these states.

10.4.1 UE postamble procedures for E-UTRA to HRPD (No Pre-Registration)

10.4.1.1 Registration on HRPD Cell

Table 10.4.1.1: Registration on HRPD Cell procedure

Cton	Dragadura	Message Sequence	
Step	Procedure	U-S	Message
1	The UE transmits a UATIRequest message.	>	UATIRequest
2	The SS transmits UATIAssignment message	<	UATIAssignment
3	The UE transmits UATIComplete message	>	UATIComplete
4	The UE transmits ConnectionRequest	>	ConnectionRequest
	message.		
5	The SS transmits a <i>TrafficChannelAssignment</i>	<	TrafficChannelAssignment
	message.		
6	The UE transmits <i>TrafficChannelcomplete</i> .	>	TrafficChannelcomplete
7	The UE transmits ConfigurationRequest	>	SCP:ConfigurationRequest
	message for SCP configuration.		
8	The SS transmits a ConfigurationResponse	<	SCP:ConfigurationResponse
	message for SCP configuration.		
9	The UE transmits ConfigurationRequest	>	Stream:ConfigurationRequest
	message for Stream protocol.		0 " " "
10	The SS transmits a ConfigurationResponse	<	Stream: ConfigurationResponse
	message for Stream protocol accepting EMPA		
11	bound to service network. The UE transmits EMPA ConfigurationRequest		EMPA:ConfigurationRequest
11	message.	>	EMPA.ComigurationRequest
12	The SS transmits an <i>EMPA</i>	<	EMPA: ConfigurationResponse
12	ConfigurationResponse message.		Livii A. Coringulation (esponse
13	The UE transmits ConfigurationComplete	>	ConfigurationComplete
10	message.		ComigurationComplete
14	Optionally session negotiation initiated by the	<>	-
	SS might take place		
15	Optionally device level authentication may take	<>	-
	place.		
16	Optionally Location Update procedure may	<>	-
	take place if the SS is configured to support it.		
17	PPP LCP negotiation is performed between	<>	-
	the UE and the SS. EAP-AKA is selected as		
	the authentication protocol.		
18	Tunnelled EAP-AKA is performed between the	<>	-
	UE and the SS.		
19	The UE transmits VSNCP Configure-Request	>	VSNCP: Configure-Request
	message, including a PDN-ID, PDN Type,		

Cton	Procedure		Message Sequence
Step	Procedure	U - S	Message
	APN, PDN Address with empty content, Protocol Configuration Options, and Attach Type = "handover". The Address Allocation Preference option contained in the Protocol Configuration Options indicates whether the UE wants to perform the IP address allocation during the attach procedure or deferred IPv4 address allocation. PDN Type indicates the UE's IP		
20	capability (IPv4, IPv6 or IPv4/v6) The SS transmits a VSNCP Configure-Ack message.	<	VSNCP: Configure-Ack
21	The SS transmits a VSNCP Configure-Request message including the PDN-ID configuration option.	<	VSNCP: Configure-Request
22	The UE transmits VSNCP Configure-Ack message.	>	VSNCP :Configure-Ack
23	Optionally IPv4 address allocation by DHCPv4 may occur (depending on the Address Allocation Preference indicated by the UE at Step 19).	<>	-
24	Optionally Link global IPv6 address configuration by ICMPv6 may occur (depending on the Address Allocation Preference indicated by the UE at Step 19).solicitation message.	<>	-

10.4.1.2 Detach on HRPD Cell

Table 10.4.1.2: Detach on HRPD Cell procedure

Step	Procedure	Message Sequence	
Step	Procedure	U-S	Message
1	The UE transmits PPP:LCP Terminate- Request	>	LCP:Terminate-Request
2	The SS transmits PPP: LCP Terminate-Ack	<	LCP:Terminate-Ack
3	the UE and SS perform Session update to release the reservations	<>	-

11 Guidelines on test execution

This clause provides the guidelines on test executions.

The restriction on test case execution as listed in this clause is due to the restriction of bandwidth to accommodate the necessary number of radio frequencies for the specific operating Band as used by the test cases.

11.1 EUTRA single technology

This clause provides the guidelines for the test cases to be executed on the pure EUTRA test configuration.

A test case using more than one radio frequency, i.e. using the radio frequencies f2 or f3 or f4 specified in TS 36.508 [3], shall avoid to be executed on operating:

Band 12 with 10MHz bandwidth,

Band 13,

Band 17 with 10MHz bandwidth,

Band 18,

Band 31.

The list containing such test cases is given below:

```
6.1.1.1, 6.1.1.2, 6.1.1.3, 6.1.1.6, 6.1.1.7, 6.1.1.8, 6.1.2.7, 6.1.2.8, 6.1.2.9, 6.1.2.11, 6.1.2.13, 6.1.2.15, 6.1.2.17, 6.1.2.18, 6.1.2.20, 6.3.1, 6.3.5, 6.3.6, 6.3.9,
```

8.1.3.4, 8.1.3.5, 8.2.2.6.2, 8.2.4.6, 8.3.1.3, 8.3.1.3a, 8.3.1.4, 8.3.1.6, 8.3.1.9, 8.3.1.10, 8.3.1.11, 8.3.1.26, 8.3.1.27, 8.3.1.28, 8.3.4.2, 8.3.4.3, 8.3.4.5, 8.6.2.2, 8.6.2.3a, 8.6.2.8, 8.6.2.10, 8.6.2.11, 8.6.2.12, 8.6.4.2, 8.6.4.3, 8.6.4.4, 8.6.4.8, 8.6.4.9, 8.6.4.10, 8.6.6.2, 8.6.6.5, 8.6.6.6, 8.6.6.7, 8.6.8.2, 8.6.8.6,

9.2.1.1.1a, 9.2.1.1.7, 9.2.1.1.13, 9.2.1.1.15, 9.2.1.1.16, 9.2.1.2.1, 9.2.1.2.10, 9.2.1.2.12, 9.2.1.2.14, 9.2.3.2.1, 9.2.3.2.12, 9.2.3.2.15, 9.2.3.2.16,

11.2.6, 11.2.7,

13.4.1.2,

17.4.1, 17.4.2, 17.4.3.

A test case using more than two radio frequencies, i.e. using the radio frequencies f3 or f4 specified in TS 36.508 [3], shall avoid to be executed on operating:

Band 6,

Band 11.

Band 14,

Band 17 with 5MHz bandwidth,

Band 23 with 10MHz bandwidth,

Band 30,

Band 38,

Band 39

The list containing such test cases is given below:

```
6.1.1.1, 6.1.1.2, 6.1.1.3, 6.1.1.6, 6.1.1.7, 6.1.1.8, 6.1.2.7, 6.1.2.8, 6.1.2.9, 6.1.2.15, 6.3.1
```

8.1.3.5, 8.3.1.4, 8.6.2.13, 8.6.4.3,

9.2.1.1.1a, 9.2.1.1.7, 9.2.1.1.15.

A test case using more than three radio frequencies, i.e. using the radio frequency f4 specified in TS 36.508 [3], shall avoid to be executed on operating:

Band 12 with 5MHz bandwidth,

Band 19,

Band 20,

Band 21,

Band 27.

Band 34.

The list containing such test cases is given below:

```
6.1.1.1, 6.1.1.2, 6.1.1.6, 6.1.1.8,
```

9.2.1.1.7.

11.1.1 Replacement of test case execution

In case of bandwidth limitation for accommodation of more frequencies, a number of test cases can be replaced with the corresponding mirror test cases without affecting the test coverage. The table 11.1.1-1 shows the possible replacements. Only one of the paired test cases is required for execution.

Original test case Replacing test case 6.1.1.1 6.1.1.1b 6.1.1.2 6.1.1.2a 6.1.1.3b 6.1.1.3 6.1.1.6a 6.1.1.6 6.1.2.7 6.1.2.7a 6.1.2.8 6.1.2.8a 6.1.2.9 6.1.2.9a 8.3.1.9 8.3.1.9a 8.3.1.11 8.3.1.11a 9.2.1.1.1a 9.2.1.1.1b 9.2.1.1.7 9.2.1.1.7a 9.2.1.1.13 9.2.1.1.13a 9.2.1.1.15 9.2.1.1.15a 9.2.1.1.16 9.2.1.1.16a

Table 11.1.1-1: Replacement of test cases

11.2 EUTRA – UTRA - GERAN

This clause contains the guidelines for the EUTRA interRAT test cases to be executed on the different test configurations: with only UTRA configured, with only GERAN configured or with UTRA-GERAN both configured. Whether or not an EUTRA frequency band overlaps the UTRA band, the dependency will affect the restrictions of the test execution on this band.

Editor's note: an EUTRA band overlaps the GSM band is FFS.

11.2.1 UTRA configured – GERAN not configured

This clause provides the guidelines for the EUTRA interRAT test cases where UTRA is configured, while GERAN is either not needed or not configured.

11.2.1.1 EUTRA band overlapping UTRA band

The restriction on test case execution as listed in this clause is due to the bandwidth of an EUTRA Band accommodating the necessary number of EUTRA or EUTRA, UTRA radio frequencies if an E-UTRA band overlaps the UTRA Band. A test case using more than one radio frequency, on the same EUTRA and UTRA band, shall avoid to be executed on operating

Band 12 with 10MHz bandwidth,

Band 13,

Band 17 with 10MHz bandwidth,

Band 18.

Band 31.

The list containing such test cases is given below:

```
6.2.1.2, 6.2.1.3, 6.2.2.1, 6.2.2.5, 6.2.2.8, 6.2.3.3, 6.2.3.3a, 6.2.3.4, 6.2.3.4a, 6.2.3.5, 6.2.3.5a, 6.2.3.6, 6.2.3.13, 6.2.3.31, 6.2.3.32, 6.2.3.33, 6.2.4.1, 6.2.4.2, 6.2.4.3, 6.2.4.4, 6.2.4.5, 6.2.4.6, 6.2.4.7, 6.3.3, 6.3.4, 6.3.7, 6.3.11, 6.3.12,
```

- 8.1.3.6, 8.1.3.6a, 8.1.3.7, 8.3.2.3, 8.3.2.3a, 8.3.2.4, 8.3.3.2, 8.3.4.4, 8.4.1.2, 8.4.1.4, 8.4.1.5, 8.4.2.2, 8.4.2.4, 8.5.2.1, 8.6.3.1, 8.6.3.4, 8.6.5.1, 8.6.5.1a, 8.6.5.4, 8.6.7.1, 8.6.7.4, 8.6.9.1, 8.6.9.2, 8.6.10.1, 8.7.1,
- 9.2.1.1.11, 9.2.1.1.12, 9.2.1.2.1b, 9.2.1.2.1c, 9.2.1.2.1d, 9.2.1.2.5, 9.2.1.2.8, 9.2.1.2.9, 9.2.1.2.11, 9.2.1.2.13, 9.2.1.2.15, 9.2.2.1.3, 9.2.2.1.10, 9.2.3.1.6, 9.2.3.1.10, 9.2.3.1.11, 9.2.3.1.12, 9.2.3.1.15, 9.2.3.1.15a, 9.2.3.1.17, 9.2.3.1.18a, 9.2.3.2.1a, 9.2.3.2.1b, 9.2.3.2.1c, 9.2.3.2.3, 9.2.3.2.5, 9.2.3.2.6, 9.2.3.2.7, 9.2.3.2.8, 9.2.3.2.9, 9.2.3.2.11, 9.2.3.2.13, 9.2.3.2.14, 9.2.3.3.1, 9.2.3.3.2, 9.2.3.3.3, 9.2.3.3.4, 9.2.3.3.5, 9.2.3.3.5a, 9.3.1.4, 9.3.1.5, 9.3.1.6,

11.2.10, 11.2.11,

13.1.2, 13.1.2a, 13.1.3, 13.1.4, 13.1.5, 13.1.15, 13.1.16, 13.3.2.1, 13.4.2.1, 13.4.2.4, 13.4.3.1, 13.4.3.2, 13.4.3.4, 13.4.3.6, 13.4.3.7, 13.4.3.8, 13.4.3.9, 13.4.3.10, 13.4.3.11, 13.4.3.12, 13.4.3.13, 13.4.3.14, 13.4.3.15, 13.4.3.16, 13.4.3.18, 13.4.3.19, 13.4.3.20.

A test case using more than two radio frequencies on the same EUTRA and UTRA band shall avoid to be executed on operating:

Band 6.

Band 11,

Band 14,

Band 17 with 5MHz bandwidth,

Band 23 with 10MHz bandwidth,

Band 38,

Band 39.

The list containing such test cases is given below:

6.2.1.2, 6.2.1.3,

8.6.3.4, 8.6.5.1a, 8.6.74,

9.2.1.2.9, 9.2.1.2.11, 9.2.1.2.13, 9.2.3.1.15, 9.2.3.1.18, 9.2.3.2.5, 9.2.3.2.6, 9.2.3.2.7, 9.2.3.2.8, 9.2.3.2.11, 9.2.3.2.13, 9.2.3.2.14.

A test case using more than three radio frequencies, on the same EUTRA and UTRA band shall avoid to be executed on operating

Band 12 with 5MHz bandwidth,

Band 19,

Band 20,

Band 21,

Band 27.

Band 34.

The list containing such test cases is given below:

9.2.1.2.13, 9.2.3.2.13.

11.2.1.2 EUTRA band not overlapping UTRA band

The restriction on test case execution as listed in this clause is due to the bandwidth of an EUTRA Band accommodating the necessary number of EUTRA radio frequencies. A test case using more than one radio frequency shall avoid to be executed on E-UTRA operating

Band 12 with 10MHz bandwidth,
Band 13,
Band 17 with 10MHz bandwidth,
Band 18,
Band 31.

The list containing such test cases is given below:

6.2.1.2, 6.2.1.3, 8.6.3.4, 8.6.5.1a, 8.6.7.4, 9.2.1.2.9, 9.2.1.2.11, 9.2.1.2.13, 9.2.3.1.15, 9.2.3.1.18, 9.2.3.2.5, 9.2.3.2.6, 9.2.3.2.7, 9.2.3.2.8, 9.2.3.2.11, 9.2.3.2.13, 9.2.3.2.14,

A test case using more than two radio frequencies shall avoid to be executed on E-UTRA operating

Band 6,
Band 11,
Band 14,
Band 17 with 5MHz bandwidth,
Band 23 with 10MHz bandwidth,
Band 30,

The list containing such test cases is given below:

9.2.1.2.13, 9.2.3.2.13.

Band 38.

Band 39.

11.2.2 GERAN configured - UTRA not configured

This clause provides the guidelines for the EUTRA/GERAN test cases where UTRA is either not needed or not configured. The restriction on test case execution as listed in this clause is due to the restriction of bandwidth of an EUTRA Band accommodating the necessary number of EUTRA radio frequencies.

A test case using more than one radio frequency shall avoid to be executed on E-UTRA operating

Band 12 with 10MHz bandwidth,
Band 13,
Band 17 with 10MHz bandwidth,
Band 18,
Band 31

The list containing such test cases is given below:

```
6.2.1.4, 6.2.3.17, 6.2.3.18,
8.3.2.2,
9.2.1.2.9, 9.2.1.2.11, 9.2.1.2.13, 9.2.3.1.15, 9.2.3.1.18, 9.2.3.2.5, 9.2.3.2.6, 9.2.3.2.7, 9.2.3.2.8, 9.2.3.2.11, 9.2.3.2.13, 9.2.3.2.14.
```

A test case using more than two radio frequencies, i.e. using the radio frequencies f3 or f4 specified in TS 36.508 [3], shall avoid to be executed on operating:

Band 6,
Band 11,
Band 14,
Band 17 with 5MHz bandwidth,
Band 23 with 10MHz bandwidth,
Band 30,
Band 38,
Band 39

The list containing such test cases is given below:

9.2.1.2.13, 9.2.3.2.13.

11.2.3 Neither UTRA nor GERAN configured

Certain EMM test cases can be executed as EUTRA_Only configuration despite of UTRA or GERAN test branches included in the test cases. The restriction on test case execution as listed in this clause is due to the bandwidth of an EUTRA Band accommodating the necessary number of EUTRA radio frequencies.

A test case using more than one radio frequency shall avoid to be executed on E-UTRA operating

Band 12 with 10MHz bandwidth,
Band 13,
Band 17 with 10MHz bandwidth,
Band 18,
Band 31.

The list containing such test cases is given below:

9.2.3.1.15, 9.2.3.1.18.

11.2.4 Both UTRA and GERAN configured

This clause provides the guidelines for the EUTRA - UTRA - GERAN test cases where three RAT technologies are simultaneously configured.

11.2.4.1 EUTRA band overlapping UTRA band

The restriction on test case execution as listed in this clause is due to the bandwidth of an EUTRA Band accommodating the necessary number of EUTRA or EUTRA, UTRA radio frequencies if an E-UTRA band overlaps the UTRA Band.

A test case using more than one radio frequency shall avoid to be executed on E-UTRA operating

```
Band 12 with 10MHz bandwidth,
Band 13,
Band 17 with 10MHz bandwidth,
Band 18,
Band 31.
```

The list containing such test cases is given below:

```
6.2.1.1, 8.3.2.5, 8.3.2.6,
9.2.1.2.6, 9.2.1.2.7,
11.2.8
```

A test case using more than two radio frequencies, i.e. using the radio frequencies f3 or f4 specified in TS 36.508 [3], shall avoid to be executed on operating:

Band 6,
Band 11,
Band 14,
Band 17 with 5MHz bandwidth,
Band 23 with 10MHz bandwidth,
Band 38
Band 39

The list containing such test cases is given below:

6.2.1.1.

11.2.4.2 EUTRA band not overlapping UTRA band

The restriction on test case execution as listed in this clause is due to the restriction of bandwidth of an EUTRA Band accommodating the necessary number of EUTRA radio frequencies.

A test case using more than one radio frequency shall avoid to be executed on E-UTRA operating

```
Band 12 with 10MHz bandwidth,
Band 13,
Band 17 with 10MHz bandwidth,
Band 18,
Band 31.
```

The list containing such test cases is given below:

6.2.1.1

11.2.5 Replacement of test case execution

In case of bandwidth limitation for accommodation of more frequencies, a number of test cases can be replaced with the corresponding mirror test cases without affecting the test coverage. The table 11.2.1.5-1 shows the possible replacements. Only one of the paired test cases is required for execution.

Table 11.2.5-1: Replacement of interRAT test cases

Original test case	Replacing test case
9.2.3.1.15	9.2.3.1.15a
9.2.3.1.18	9.2.3.1.18a

11.3 Guidelines for EUTRA inter-band

The restriction on test case execution as listed in this clause is due to the restriction of bandwidth of an EUTRA band accommodating the necessary number of EUTRA radio frequencies. The inter-band test includes also EUTRA FDD-TDD and inter-band carrier aggregation tests.

11.3.1 Primary operating band

A test case using more than one radio frequency on the first operating band, shall avoid to be executed on operating

Band 12 with 10MHz bandwidth,

Band 13.

Band 17 with 10MHz bandwidth,

Band 18,

Band 31.

The list containing such test cases is given below:

6.1.2.15a, 8.1.3.12.

11.3.2 Secondary operating band for inter-band cells

Test case using more than one radio frequency, on the second operating band, shall avoid to be executed on operating

Band 12 with 10MHz bandwidth,

Band 13,

Band 17 with 10MHz bandwidth,

Band 18,

Band 31.

The list containing such test cases is given below:

6.1.1.1a, 6.1.1.3a, 6.1.1.4a, 6.1.2.16, 8.1.3.11a, 8.1.3.12b, 8.2.4.13a, 8.2.4.14a, 8.3.1.12a, 8.3.1.14a, 8.6.4.4.

11.3.3 Replacement of test case execution

In case of bandwidth limitation for accommodation of more frequencies, a number of test cases can be replaced with the corresponding mirror test cases without affecting the test coverage. The table 11.3.3-1 shows the possible replacements. Only one of the paired test cases is required for execution.

Table 11.3.3-1: Replacement of test cases

Original test case	Replacing test case
8.1.3.12	8.1.3.12b

11.4 Guidelines for EUTRA CA

The restriction on CA test case execution as listed in this clause is due to the restriction of bandwidth of an EUTRA CA band accommodating the necessary number of EUTRA radio frequencies.

11.4.1 CA contiguous Intra-band operation

Test case using more than two radio frequencies, i.e. using the radio frequencies f3 or f4 specified in TS 36.508 [3], shall avoid to be executed on E-UTRA CA Configuration:

CA_38C,

CA_39C.

The list containing such test cases is given below:

7.1.2.10.3, 7.1.2.11.3,

8.2.2.7.3, 8.2.4.19.1, 8.2.4.21.1

11.4.2 CA Inter-band operation

Test case using more than one radio frequency on the primary band, i.e. using the radio frequency f2 specified in TS 36.508 [3], shall avoid to be executed on E-UTRA CA Configuration:

CA 8A-11A,

CA_11A-18A,

CA_18A-28A,

and on E-UTRA CA switched configuration

CA_1A-18A,

CA_1A-19A,

CA 1A-21A,

CA_3A-19A,

CA_8A-11A,

CA_4A-12A,

CA_4A-13A,

CA_2A-17A,

CA_4A-17A,

CA_5A-12A,

CA_5A-17A,

CA_11A-18A,

CA_18A-28A,

CA_19A-21A.

The list containing such test cases is given below:

8.2.4.19.2

These test cases can be run with switched allocation of PCell and SCell as specified in TS 36.508 [3] clause 6.2.3.2 (NOTE 3 and 4)..

The following test cases are not applicable to be run when executed in the band combinations CA_2A_29A and CA_4A_29A:

7.1.2.10.2, 7.1.2.11.2, 7.1.4.20.2 8.2.2.7.2, 8.2.4.17.2 8.2.4.20.2 8.2.4.21.2 (if Cell 28 is to be used) 8.2.4.23.2 8.3.1.17.2 8.3.1.18.2

11.4.3 CA non-contiguous Intra-band operation

Test case using more than two radio frequencies, i.e. using the radio frequencies f3 specified in TS 36.508 [3], shall avoid to be executed on E-UTRA CA Configuration:

CA_23A-23A

The list containing such test cases is given below:

8.2.4.19.3

8.2.4.21.3

11.5 Guidelines for EUTRA MFBI test cases

The following EUTRA MFBI test cases shall be executed using the combinations specified in Table 11.5-1 for px_OverlappingNotSupportedFrequencyBandMFBIand px_MFBI_FrequencyBand:

6.1.2.19, 6.1.2.20, 6.1.2.21, 6.2.3.34, 6.2.3.35, 8.2.4.22

Table 11.5-1: Operating and MFBI bands combinations

px_OverlappingNotS upportedFrequencyB and_MFBI	px_MFBI_FrequencyBand (Note)
2	25
3	9
4	10
5	18, 19, 26
9	3
10	4
12	17
17	12
18	5, 26, 27
19	5, 26
25	2
26	5, 18, 19, 27
27	18, 26
33	39
38	41
39	33
41	38
Note: The UE supports of	one or more of the listed MFBI bands

Test case 6.1.2.20 is not applicable to be run when executed in the band combination 5 & 18.

Annex A (normative): Test Suites

This annex contains the approved TTCN Test Suites. The test suites have been produced using the Testing and Test Control Notation version 3 (TTCN3) according to ES 201 873-1 [13].

A.1 Baseline of specifications

Table A.1 shows the baseline of the relevant cores specifications and the test specifications which the delivered TTCN test suites are referred to.

Table A.1: References of the test and Core specifications

Core specifications	TS 36.331 [19]
baseline	TS 24.301 [21]
Test specifications	TS 36.508 [3]
	TS 36.509 [4]
	TS 36.523-1 [1]
	TS 36.523-2 [2]

A.2 E-UTRA Test Suites

Table A.2 lists all approved test cases.

For a given test case, the following variants are distinguished (if applicable):

- FDD: E-UTRA FDD mode; and UTRA FDD mode in case the test case is Inter-RAT with UTRA cell(s).
- TDD: E-UTRA TDD mode; and UTRA TDD mode in case the test case is Inter-RAT with UTRA cell(s).
- T/F: E-UTRA TDD mode and UTRA FDD mode; only applicable to Inter-RAT test cases with UTRA cell(s).

An "X" in columns FDD, TDD or T/F indicates the test case is approved for the respective variant.

An "-" in columns FDD, TDD or T/F indicates the test case is not applicable to the respective variant.

Table A.2: E-UTRA/EPS TTCN test cases

Test case	Description	FDD	TDD	T/F
6.1.1.1	PLMN selection of RPLMN, HPLMN/EHPLMN, UPLMN and OPLMN/Automatic mode	Χ	Χ	-
6.1.1.1a	PLMN selection / Automatic mode / between FDD and TDD	Χ	Χ	-
6.1.1.1b	PLMN selection of RPLMN, HPLMN/EHPLMN, UPLMN and OPLMN / Automatic mode / Single Frequency operation	Х	Χ	-
6.1.1.2	PLMN selection of "Other PLMN/access technology combinations" / Automatic mode	Х	Χ	-
6.1.1.2a	PLMN selection of "Other PLMN/access technology combinations" / Automatic mode / Single Frequency operation	Х	Х	-
6.1.1.3	Cell reselection of ePLMN in manual mode	Χ	Χ	-
6.1.1.3a	Cell reselection of ePLMN in manual mode / between FDD and TDD	Х	Χ	-
6.1.1.3b	Cell reselection of ePLMN in manual mode / Single Frequency operation	Χ	Χ	-
6.1.1.4	PLMN selection in shared network environment / Automatic mode	Χ	Χ	-
6.1.1.4a	PLMN selection in shared network environment / Automatic mode / between FDD and TDD	Χ	Χ	-
6.1.1.6	PLMN selection of RPLMN, HPLMN/EHPLMN, UPLMN and OPLMN / Automatic mode / User reselection	Х	Χ	-
6.1.1.6a	PLMN selection of RPLMN, HPLMN/EHPLMN, UPLMN and OPLMN / Automatic mode /	Х	Χ	-
	User reselection / Single Frequency operation			
6.1.1.7	PLMN selection / Periodic reselection / MinimumPeriodicSearchTimer	Χ		-
6.1.1.7a	PLMN selection / Periodic reselection / MinimumPeriodicSearchTimer / Single Frequency	Χ		

Test case	Description	FDD	TDD	T/F
	operation			
6.1.2.2	Cell selection, Qrxlevmin	Х	Χ	-
6.1.2.2a	Cell selection / Qqualmin	X	X	-
6.1.2.3	Cell selection/Intra E-UTRAN/Serving cell becomes non-suitable (S<0 or barred)	X	X	-
6.1.2.3a	Cell selection / Intra E-UTRAN / Serving cell becomes non-suitable (Srxlev > 0 and Squal <0)	Х	Х	-
6.1.2.4	Cell reselection	Χ	Χ	ı
6.1.2.5	Cell reselection for inter-band operation	Х	Χ	-
6.1.2.6	Cell reselection using Qhyst, Qoffset and Treselection	Х	Х	-
6.1.2.7	Cell reselection/Equivalent PLMN	Χ	Χ	-
6.1.2.7a	Cell reselection / Equivalent PLMN / Single Frequency operation	X	Χ	-
6.1.2.8	Cell reselection using cell status and cell reservations/Access control class 0 to 9	Х	Χ	-
6.1.2.8a	Cell reselection using cell status and cell reservations / Access control class 0 to 9 / Single Frequency operation	Х	Χ	-
6.1.2.9	Cell reselection using cell status and cell reservations/Access control class 11 to15	Х	Х	-
6.1.2.9a	Cell reselection using cell status and cell reservations / Access control class 11 to 15 / Single Frequency operation	Х	Х	-
6.1.2.10	Cell reselection in shared network environment	Х	Χ	_
6.1.2.11	Inter-frequency cell reselection	X	X	_
6.1.2.12	Cell reselection / Cell-specific reselection parameters provided by the network in a	X	X	-
	neighbouring cell list			
6.1.2.13	Cell re-selection, Sintrasearch, Snonintrasearch	X	Χ	-
6.1.2.14	Speed-dependent cell reselection	X	Χ	-
6.1.2.15	Inter-frequency cell reselection according to cell reselection priority provided by SIBs	X	X	-
6.1.2.15a	Inter-frequency cell reselection according to cell reselection priority provided by SIBs / Between FDD and TDD	Х	Х	-
6.1.2.15b	Inter-band cell reselection according to cell reselection priority provided by SIBs	Х	Χ	-
6.1.2.16	Cell reselection / interband operation / Between FDD and TDD	Х	Χ	-
6.1.2.17	Cell reselection for Squal to check against SIntraSearchQ and SnonIntraSearchQ	Х	Χ	-
6.1.2.18	Inter-frequency cell reselection based on common priority information with parameters ThreshX, HighQ, ThreshX, LowQ and ThreshServing, LowQ	Х	Х	-
6.1.2.19	Intra-frequency cell reselection / MFBI	Х	Χ	-
6.1.2.20	Inter-frequency cell reselection / MFBI	Х	Χ	-
6.1.2.21	Inter-band cell reselection / MFBI	Х	Х	-
6.2.1.1	Inter-RAT PLMN selection / Selection of correct RAT for OPLMN / Automatic mode	Х	Х	Χ
6.2.1.2	Inter-RAT PLMN selection / Selection of correct RAT for UPLMN / Automatic mode	Х	Χ	Χ
6.2.1.3	Inter-RAT PLMN selection / Selection of correct PLMN and RAT in shared network environment / Automatic mode	Х	Х	Χ
6.2.1.4	Inter-RAT PLMN selection / Selection of correct RAT from the OPLMN list / Manual mode	Х	Х	-
6.2.1.6	Inter-RAT background HPLMN search / Search for correct RAT for HPLMN / Automatic	Х	Х	-
6.2.2.1	mode Inter-RAT cell selection/From E-UTRA RRC_IDLE to UTRA_Idle/Serving cell becomes non-	Х	Х	Х
6.2.2.2	suitable Inter-RAT cell selection / From E-UTRA RRC_IDLE to GSM_Idle/GPRS Packet_idle /	X	Х	-
0000	Serving cell becomes non-suitable	.,		
6.2.2.3	Inter-RAT cell selection / From E-UTRA RRC_IDLE to HRPD Idle / Serving cell becomes non-suitable	Х	ı	1
6.2.2.4	Inter-RAT cell selection / From E-UTRA RRC_IDLE to 1xRTT Dormant / Serving cell becomes non-suitable	Х	1	1
6.2.2.5	Cell selection / No USIM	Х	Χ	Χ
6.2.2.6	Inter-RAT Cell selection / From GSM_Idle/GPRS Packet_idle to E-UTRA RRC_IDLE /	X	X	-
6.2.2.7	Serving cell becomes non-suitable Inter-RAT Cell selection / From GSM_Idle/GPRS Packet_idle to E-UTRA RRC_IDLE /	Х	Х	-
6.2.2.8	Serving cell is barred Inter-RAT cell selection / From UTRA_Idle to E-UTRA RRC_IDLE / Serving cell becomes	X	Х	Х
	non-suitable	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	V	
6.2.3.1	Inter-RAT cell reselection / From E-UTRA RRC_IDLE to GSM_Idle/GPRS Packet_Idle	X	X	-
6.2.3.1a	Inter-RAT cell reselection / From E-UTRA RRC_IDLE to GSM_Idle/GPRS Packet_Idle (Squal < ThreshServing, LowQ, Srxlev > ThreshX, LowP and Srxlev > ThreshX, HighP)	X	Х	-
6.2.3.3	Inter-RAT cell reselection/From UTRA_Idle to E-UTRA RRC_IDLE	Х	Χ	Χ
6.2.3.3a	Inter-RAT cell reselection / From UTRA_Idle to E-UTRA RRC_IDLE (QqualminEUTRA, SqualServingCell < Threshserving,low2, SqualnonServingCell,x > Threshx, low2 and	Х		-
	SqualnonServingCell,x > Threshx, high2)			
6.2.3.4	Inter-RAT cell reselection / From UTRA CELL_PCH state to E-UTRA RRC_IDLE	X	X	Χ

RS	ter-RAT cell reselection / From UTRA_CELL_PCH state to E-UTRA RRC_IDLE based on SRQ+RSRP evaluation ter-RAT cell reselection/From E-UTRA RRC_IDLE to UTRA_Idle ter-RAT cell reselection / From E-UTRA RRC_IDLE to UTRA_Idle (Squal > ThreshX, ghQ, Squal < ThreshServing, LowQ, Squal > ThreshX, LowQ and SnonIntraSearchQ) ter-RAT cell reselection / From E-UTRA RRC_IDLE to UTRA_Idle according to RAT iority provided by dedicated signalling ter-RAT cell reselection / From E-UTRA RRC_IDLE to HRPD Idle / HRPD cell is higher selection priority than E-UTRA ter-RAT cell reselection / From E-UTRA RRC_IDLE to HRPD Idle / HRPD cell is higher selection priority than E-UTRA (Srxlev > ThreshX, HighP) ter-RAT cell reselection / From E-UTRA RRC_IDLE to HRPD Idle / HRPD cell is lower selection priority than E-UTRA ter-RAT cell reselection / From E-UTRA RRC_IDLE to HRPD Idle / HRPD cell is lower selection priority than E-UTRA ter-RAT cell reselection / From E-UTRA RRC_IDLE to 1xRTT Dormant / 1xRTT cell is gher reselection priority than E-UTRA ter-RAT cell reselection / From E-UTRA RRC_IDLE to 1xRTT Dormant / 1xRTT cell is gher reselection priority than E-UTRA (Srxlev > ThreshX, HighP) ter-RAT cell reselection / From E-UTRA RRC_IDLE to 1xRTT Dormant / 1xRTT cell is gher reselection priority than E-UTRA (Srxlev > ThreshX, HighP) ter-RAT cell reselection / From E-UTRA RRC_IDLE to 1xRTT Dormant / 1xRTT cell is gher reselection priority than E-UTRA (Srxlev > ThreshX, HighP) ter-RAT cell reselection / From E-UTRA RRC_IDLE to 1xRTT Dormant / 1xRTT cell is gher reselection priority than E-UTRA RRC_IDLE to 1xRTT Dormant / 1xRTT cell is gher reselection priority than E-UTRA RRC_IDLE to 1xRTT Dormant / 1xRTT cell is gher reselection priority than E-UTRA	x x x x x x x x x x x x x x x x x x x	X	X
6.2.3.5a Interprice 6.2.3.6 Interprice 6.2.3.7 Interprice 6.2.3.7a Interprice 6.2.3.8 Interprice 6.2.3.8 Interprice 6.2.3.8 Interprice 6.2.3.9 Interprice 6.2.3.9 Interprice 6.2.3.10 Interprice 6.2.3.11 Interprice 6.2.3.13 Interprice 6.2.3.14 Interprice 6.2.3.15 Interprice 6.2.3.1	ter-RAT cell reselection / From E-UTRA RRC_IDLE to UTRA_Idle (Squal > ThreshX, ghQ, Squal < ThreshServing, LowQ, Squal > ThreshX, LowQ and SnonIntraSearchQ) ter-RAT cell reselection / From E-UTRA RRC_IDLE to UTRA_Idle according to RAT iority provided by dedicated signalling ter-RAT cell reselection / From E-UTRA RRC_IDLE to HRPD Idle / HRPD cell is higher selection priority than E-UTRA ter-RAT cell reselection / From E-UTRA RRC_IDLE to HRPD Idle / HRPD cell is higher selection priority than E-UTRA (Srxlev > ThreshX, HighP) ter-RAT cell reselection / From E-UTRA RRC_IDLE to HRPD Idle / HRPD cell is lower selection priority than E-UTRA ter-RAT cell reselection / From E-UTRA RRC_IDLE to HRPD Idle / HRPD cell is lower selection priority than E-UTRA (Squal < ThreshServing, LowQ and Srxlev > ThreshX, iowP) ter-RAT cell reselection / From E-UTRA RRC_IDLE to 1xRTT Dormant / 1xRTT cell is gher reselection priority than E-UTRA ter-RAT cell reselection / From E-UTRA RRC_IDLE to 1xRTT Dormant / 1xRTT cell is gher reselection priority than E-UTRA (Srxlev > ThreshX, HighP) ter-RAT cell reselection / From E-UTRA RRC_IDLE to 1xRTT Dormant / 1xRTT cell is gher reselection priority than E-UTRA (Srxlev > ThreshX, HighP) ter-RAT cell reselection / From E-UTRA RRC_IDLE to 1xRTT Dormant / 1xRTT cell is gher reselection priority than E-UTRA RRC_IDLE to 1xRTT Dormant / 1xRTT cell is	X X X X	- X -	- X -
High	ghQ, Squal < ThreshServing, LowQ, Squal > ThreshX, LowQ and SnonIntraSearchQ) ter-RAT cell reselection / From E-UTRA RRC_IDLE to UTRA_Idle according to RAT iority provided by dedicated signalling ter-RAT cell reselection / From E-UTRA RRC_IDLE to HRPD Idle / HRPD cell is higher selection priority than E-UTRA ter-RAT cell reselection / From E-UTRA RRC_IDLE to HRPD Idle / HRPD cell is higher selection priority than E-UTRA (Srxlev > ThreshX, HighP) ter-RAT cell reselection / From E-UTRA RRC_IDLE to HRPD Idle / HRPD cell is lower selection priority than E-UTRA ter-RAT cell reselection / From E-UTRA RRC_IDLE to HRPD Idle / HRPD cell is lower selection priority than E-UTRA (Squal < ThreshServing, LowQ and Srxlev > ThreshX, iwP) ter-RAT cell reselection / From E-UTRA RRC_IDLE to 1xRTT Dormant / 1xRTT cell is gher reselection priority than E-UTRA ter-RAT cell reselection / From E-UTRA RRC_IDLE to 1xRTT Dormant / 1xRTT cell is gher reselection priority than E-UTRA (Srxlev > ThreshX, HighP) ter-RAT cell reselection / From E-UTRA RRC_IDLE to 1xRTT Dormant / 1xRTT cell is gher reselection priority than E-UTRA RRC_IDLE to 1xRTT Dormant / 1xRTT cell is gher reselection priority than E-UTRA RRC_IDLE to 1xRTT Dormant / 1xRTT cell is giver reselection priority than E-UTRA RRC_IDLE to 1xRTT Dormant / 1xRTT cell is	X X X X	-	-
6.2.3.6 Interprice for interprice fo	ter-RAT cell reselection / From E-UTRA RRC_IDLE to UTRA_Idle according to RAT iority provided by dedicated signalling ter-RAT cell reselection / From E-UTRA RRC_IDLE to HRPD Idle / HRPD cell is higher selection priority than E-UTRA ter-RAT cell reselection / From E-UTRA RRC_IDLE to HRPD Idle / HRPD cell is higher selection priority than E-UTRA (Srxlev > ThreshX, HighP) ter-RAT cell reselection / From E-UTRA RRC_IDLE to HRPD Idle / HRPD cell is lower selection priority than E-UTRA ter-RAT cell reselection / From E-UTRA RRC_IDLE to HRPD Idle / HRPD cell is lower selection priority than E-UTRA (Squal < ThreshServing, LowQ and Srxlev > ThreshX, ter-RAT cell reselection / From E-UTRA RRC_IDLE to 1xRTT Dormant / 1xRTT cell is gher reselection priority than E-UTRA ter-RAT cell reselection / From E-UTRA RRC_IDLE to 1xRTT Dormant / 1xRTT cell is gher reselection priority than E-UTRA (Srxlev > ThreshX, HighP) ter-RAT cell reselection / From E-UTRA RRC_IDLE to 1xRTT Dormant / 1xRTT cell is gher reselection priority than E-UTRA RRC_IDLE to 1xRTT Dormant / 1xRTT cell is gher reselection priority than E-UTRA RRC_IDLE to 1xRTT Dormant / 1xRTT cell is lower reselection priority than E-UTRA RRC_IDLE to 1xRTT Dormant / 1xRTT cell is lower reselection priority than E-UTRA RRC_IDLE to 1xRTT Dormant / 1xRTT cell is lower reselection priority than E-UTRA RRC_IDLE to 1xRTT Dormant / 1xRTT cell is	X X X X	-	-
6.2.3.7 Interess 6.2.3.7a Interess 6.2.3.8 Interess 6.2.3.8a Interess 6.2.3.9 Interess 6.2.3.9 Interess 6.2.3.10 Interess 6.2.3.10 Interess Interes	ter-RAT cell reselection / From E-UTRA RRC_IDLE to HRPD Idle / HRPD cell is higher selection priority than E-UTRA ter-RAT cell reselection / From E-UTRA RRC_IDLE to HRPD Idle / HRPD cell is higher selection priority than E-UTRA (Srxlev > ThreshX, HighP) ter-RAT cell reselection / From E-UTRA RRC_IDLE to HRPD Idle / HRPD cell is lower selection priority than E-UTRA ter-RAT cell reselection / From E-UTRA RRC_IDLE to HRPD Idle / HRPD cell is lower selection priority than E-UTRA (Squal < ThreshServing, LowQ and Srxlev > ThreshX, towP) ter-RAT cell reselection / From E-UTRA RRC_IDLE to 1xRTT Dormant / 1xRTT cell is gher reselection priority than E-UTRA ter-RAT cell reselection / From E-UTRA RRC_IDLE to 1xRTT Dormant / 1xRTT cell is gher reselection priority than E-UTRA (Srxlev > ThreshX, HighP) ter-RAT cell reselection / From E-UTRA RRC_IDLE to 1xRTT Dormant / 1xRTT cell is gher reselection priority than E-UTRA RRC_IDLE to 1xRTT Dormant / 1xRTT cell is wer reselection priority than E-UTRA RRC_IDLE to 1xRTT Dormant / 1xRTT cell is	X X X		
6.2.3.7a Interess 6.2.3.8 Interess 6.2.3.8a Interess 6.2.3.9 Interess 6.2.3.9a Interess 6.2.3.10 Interess 6.2.3.10 Interess Inter	ter-RAT cell reselection / From E-UTRA RRC_IDLE to HRPD Idle / HRPD cell is higher selection priority than E-UTRA (Srxlev > ThreshX, HighP) ter-RAT cell reselection / From E-UTRA RRC_IDLE to HRPD Idle / HRPD cell is lower selection priority than E-UTRA ter-RAT cell reselection / From E-UTRA RRC_IDLE to HRPD Idle / HRPD cell is lower selection priority than E-UTRA (Squal < ThreshServing, LowQ and Srxlev > ThreshX, wP) ter-RAT cell reselection / From E-UTRA RRC_IDLE to 1xRTT Dormant / 1xRTT cell is gher reselection priority than E-UTRA ter-RAT cell reselection / From E-UTRA RRC_IDLE to 1xRTT Dormant / 1xRTT cell is gher reselection priority than E-UTRA (Srxlev > ThreshX, HighP) ter-RAT cell reselection / From E-UTRA RRC_IDLE to 1xRTT Dormant / 1xRTT cell is gher reselection priority than E-UTRA RRC_IDLE to 1xRTT Dormant / 1xRTT cell is wer reselection priority than E-UTRA RRC_IDLE to 1xRTT Dormant / 1xRTT cell is	X		
6.2.3.8 Interess 6.2.3.8a Interess 6.2.3.9 Interess 6.2.3.9a Interess 6.2.3.10 Interess 6.2.3.10 Interess 6.2.3.10 Interess Inter	ter-RAT cell reselection / From E-UTRA RRC_IDLE to HRPD Idle / HRPD cell is lower selection priority than E-UTRA ter-RAT cell reselection / From E-UTRA RRC_IDLE to HRPD Idle / HRPD cell is lower selection priority than E-UTRA (Squal < ThreshServing, LowQ and Srxlev > ThreshX, bwP) ter-RAT cell reselection / From E-UTRA RRC_IDLE to 1xRTT Dormant / 1xRTT cell is gher reselection priority than E-UTRA ter-RAT cell reselection / From E-UTRA RRC_IDLE to 1xRTT Dormant / 1xRTT cell is gher reselection priority than E-UTRA (Srxlev > ThreshX, HighP) ter-RAT cell reselection / From E-UTRA RRC_IDLE to 1xRTT Dormant / 1xRTT cell is wer reselection priority than E-UTRA	X	-	-
6.2.3.8a Interess Lov 6.2.3.9 Interess high 6.2.3.9a Interess high 6.2.3.10 Interess low 6.2.3.10 Interess low Thr 6.2.3.13 Interess low Control of the cont	ter-RAT cell reselection / From E-UTRA RRC_IDLE to HRPD Idle / HRPD cell is lower selection priority than E-UTRA (Squal < ThreshServing, LowQ and Srxlev > ThreshX, bwP) ter-RAT cell reselection / From E-UTRA RRC_IDLE to 1xRTT Dormant / 1xRTT cell is gher reselection priority than E-UTRA ter-RAT cell reselection / From E-UTRA RRC_IDLE to 1xRTT Dormant / 1xRTT cell is gher reselection priority than E-UTRA (Srxlev > ThreshX, HighP) ter-RAT cell reselection / From E-UTRA RRC_IDLE to 1xRTT Dormant / 1xRTT cell is wer reselection priority than E-UTRA	X	-	-
high 6.2.3.9a Inte high 6.2.3.10 Inte low 6.2.3.10a Inte low Thr 6.2.3.13 Inte pric 6.2.3.14 Inte UTI 6.2.3.15 Inte UTI	gher reselection priority than E-UTRA ter-RAT cell reselection / From E-UTRA RRC_IDLE to 1xRTT Dormant / 1xRTT cell is gher reselection priority than E-UTRA (Srxlev > ThreshX, HighP) ter-RAT cell reselection / From E-UTRA RRC_IDLE to 1xRTT Dormant / 1xRTT cell is wer reselection priority than E-UTRA			
6.2.3.9a Interprise In	ter-RAT cell reselection / From E-UTRA RRC_IDLE to 1xRTT Dormant / 1xRTT cell is gher reselection priority than E-UTRA (Srxlev > ThreshX, HighP) ter-RAT cell reselection / From E-UTRA RRC_IDLE to 1xRTT Dormant / 1xRTT cell is wer reselection priority than E-UTRA	X	-	-
6.2.3.10a Inte low Thr 6.2.3.13 Inte pric 6.2.3.14 Inte UTI 6.2.3.15 Inte UTI	wer reselection priority than E-UTRA		-	-
low Thr		Х	-	-
6.2.3.14 Inte UTI 6.2.3.15 Inte	ter-RAT cell reselection / From E-UTRA RRC_IDLE to 1xRTT Dormant / 1xRTT cell is wer reselection priority than E-UTRA (Squal < ThreshServing, LowQ and Srxlev > nreshX, LowP)	Х	-	-
6.2.3.14 Inte UTI 6.2.3.15 Inte UTI	ter-RAT cell reselection / From UTRA_Idle to E-UTRA RRC_IDLE according to RAT iority provided by dedicated signalling	Х	Х	Х
6.2.3.15 Inte	ter-RAT cell reselection / From GSM_Idle/GPRS Packet_Idle to E-UTRA / Priority of E- FRA cells are higher than the serving cell	Х	Х	-
	ter-RAT cell reselection / From GSM_Idle/GPRS Packet_Idle to E-UTRA / Priority of E- FRA cells are lower than the serving cell	Х	Х	-
5. <u>2</u> .0.10 1110	ter-RAT cell reselection / From GSM_Idle to E-UTRAN /based on H_PRIO criteria	Х	Х	-
6.2.3.17 Inte	ter-RAT cell reselection / From GSM_Idle/GPRS Packet_Idle to E-UTRA / Priority E- FRA cells	Х	Х	-
	ter-RAT cell reselection / From GSM_Idle/GPRS Packet_Idle to E-UTRA / Blacklisted E- TRA cells	Х	Х	-
	ter-RAT cell redirection to E-UTRA cell from GSM TCH mode	Х	Χ	-
6.2.3.21 Inte	ter-RAT autonomous cell reselection GPRS Packet_transfer NC0 mode to E-UTRA	Χ	Χ	-
CE	ter-RAT cell reselection from GPRS Packet_transfer to E-UTRA in CCN mode / PACKET ELL CHANGE CONTINUE	Х	Х	-
	ter-RAT cell reselection from GPRS Packet_transfer to E-UTRA in CCN mode / PACKET ELL CHANGE ORDER	Х	Х	-
	ter-RAT autonomous cell reselection GPRS Packet_transfer NC1 mode to E-UTRA Cell	X		-
	er-RAT cell reselection from GPRS Packet_transfer to E-UTRA	X		-
mod	er-RAT Cell Reselection from GPRS Packet_transfer NC1 mode to E-UTRA in CCN ode (PACKET MEASUREMENT ORDER)	X		-
pric	ter-RAT cell reselection / From UTRA_Idle (low priority) to E-UTRA RRC_IDLE (high iority) according to RAT priority provided by dedicated signalling	Х	Х	Х
	ter-RAT cell re-selection / From E-UTRA RRC_IDLE to UTRA_Idle, Snonintrasearch	X	X	Χ
res cell	ter-RAT cell reselection / From E-UTRA RRC_IDLE to UTRA_Idle / Squal based cell selection parameters are broadcasted in E-UTRAN / UE does not support Squal based ll reselection in UTRAN		Х	Х
	ter-RAT cell reselection from UTRA to E-UTRA / MFBI	X		
RR	ter-frequency cell reselection / From E-UTRA RRC_IDLE non-CSG cell to E-UTRA RC_IDLE CSG cell	Х	Х	
	ter-RAT cell reselection / From UTRA_Idle to E-UTRA RRC_IDLE CSG cell	X	Χ	Χ
	ter-RAT cell reselection / From UTRA CELL_PCH state to E-UTRA RRC_IDLE CSG cell	X		
6.3.6 Ign	anual support for CSG ID selection noring CSG cells in cell selection/reselection when allowed CSG list is empty or not	X	X	-
	pported			
		\/	~	
	ter-RAT Cell reselection from E-UTRA idle non-CSG cell to a UTRA CSG cell	X	X	Χ
000 000 000 000 000 000		XXX	X X X	X -

Test case	Description	FDD	TDD	T/F
0.4.0	RRC_IDLE member hybrid cell		\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	
6.4.3	Inter-RAT cell reselection / From E-UTRA RRC_IDLE non-CSG cell to UTRA_Idle member	Х	Х	X
6.4.4	hybrid cell Inter-RAT cell reselection / From E-UTRA RRC_IDLE non-member hybrid cell to UTRA_Idle	Χ		Х
0.4.4	member hybrid cell	^		^
6.4.5	Inter-RAT cell reselection / From UTRA_Idle to E-UTRA RRC_IDLE member hybrid cell	Х	Х	Х
6.4.6	Inter-RAT cell reselection / From UTRA CELL_PCH to E-UTRA RRC_IDLE member hybrid	X		_^_
0.4.0	cell			ł
7.1.1.1	CCCH mapped to UL SCH/ DL-SCH/Reserved LCID (Logical Channel ID)	Χ	Х	_
7.1.1.2	DTCH or DCCH mapped to UL SCH/ DL-SCH/Reserved Logical Channel ID	X	X	-
7.1.2.1	Correct selection of RACH parameters/Random access preamble and PRACH resource	X	X	-
	explicitly signalled to the UE by RRC/Non-contention based random access procedure			ł
7.1.2.2	Correct selection of RACH parameters/Random access preamble and PRACH resource	Х	Х	-
	explicitly signalled to the UE in PDCCH Order/Non-contention based random access			
	procedure			
7.1.2.3	Correct selection of RACH parameters/Preamble selected by MAC itself/Contention based	Χ	X	-
	random access procedure			
7.1.2.4	Random access procedure/Successful	Х	Х	
7.1.2.5	Random access procedure/MAC PDU containing multiple RARs	Χ	Χ	
7.1.2.6	Maintenance of uplink time alignment	Χ	Χ	
7.1.2.7	MAC contention resolution/Temporary C-RNTI	Х	Х	
7.1.2.8	MAC contention resolution/C-RNTI	Х	Х	-
7.1.2.9	MAC backoff indicator	Х	X	-
7.1.3.1	Correct handling of DL assignment/Dynamic case	Х	Х	-
7.1.3.2	Correct handling of DL assignment / Semi-persistent case	Х	X	-
7.1.3.3	MAC PDU header handling	Х	Х	-
7.1.3.4	Correct HARQ process handling/DCCH and DTCH	Х	Х	-
7.1.3.5	Correct HARQ process handling/CCCH	Х	X	-
7.1.3.6	Correct HARQ process handling/BCCH	Х	Х	-
7.1.3.7	MAC padding	Х	Х	-
7.1.3.9	MAC reset DL	X	X	-
7.1.3.11.1	CA / Correct HARQ process handling / DCCH and DTCH / P cell and Scell / Intra-band	Χ	Х	-
7 4 9 4 4 9	Contiguous CA			-
7.1.3.11.2	CA / Correct HARQ process handling / DCCH and DTCH / P cell and Scell / Inter-band CA	X		-
7.1.3.11.3	CA / Correct HARQ process handling / DCCH and DTCH / P cell and Scell / Intra-band non-Contiguous CA	Χ		-
7.1.3.12	TDD additional special subframe configuration / Special subframe pattern 9 with Normal	_	Х	_
	Cyclic Prefix / CRS based transmission scheme			ĺ
7.1.3.13	TDD additional special subframe configuration / Special subframe pattern 9 with Normal	-	Х	-
	Cyclic Prefix / UE-specific reference signals based transmission scheme			
7.1.4.1	Correct handling of UL assignment/Dynamic case	Х	Х	-
7.1.4.2	Correct handling of UL assignment / Semi-persistent case	Х	Х	-
7.1.4.3	Logical channel prioritization handling	Χ	Х	-
7.1.4.4	Correct handling of MAC control information/Scheduling requests and PUCCH	Χ	Х	-
7.1.4.5	Correct handling of MAC control information/Scheduling requests and random access	Χ	X	-
	procedure			
7.1.4.6	Correct handling of MAC control information/Buffer status/UL data arrive in the UE Tx buffer	Х	X	-
	and retransmission of BSR/Regular BSR			
7.1.4.7	Correct handling of MAC control information/Buffer Status/UL resources are	X	Х	-
	allocated/Padding BSR			
7.1.4.7a	Correct handling of MAC control information / Buffer Status / UL resources are allocated /	Х	Х	-
	Cancellation of Padding BSR			-
7.1.4.8	Correct handling of MAC control information/Buffer status/Periodic BSR timer expires	X	X	
7.1.4.10	MAC padding	X	X	-
7.1.4.11	Correct HARQ process handling	X	X	-
7.1.4.12	MAC reset UL	X	X	-
7.1.4.13	MAC PDU header handling	X	X	-
7.1.4.14	Correct HARQ process handling / TTI bundling	X	X	-
7.1.4.15	UE power headroom reporting/Periodic reporting	X	X	-
7.1.4.16	UE power headroom Reporting/DL pathloss change reporting	X	X	-
7.1.4.18	CA / Correct handling of MAC control information / Buffer Status / UL data arrive in the UE	Χ	Х	-
74.404	Tx buffer / Extended buffer size	V	V	-
7.1.4.21	CA / UE power headroom reporting / Extended PHR	X	X	-
7.1.5.1	Inter-TTI PUSCH hopping by uplink grant	Χ	Χ	

Test case	Description	FDD	TDD	T/F
7.1.5.2	Predefined intra-TTI PUSCH hopping (N_sb=1)	X	X	-
7.1.5.3	Predefined intra-TTI PUSCH hopping (N_sb=2/3/4)	Х	Х	-
7.1.5.4	Predefined inter-TTI PUSCH hopping (N_sb=1)	Х	Χ	-
7.1.5.5	Predefined inter-TTI PUSCH hopping (N_sb=2/3/4)	Х	Х	-
7.1.6.1	DRX operation/Short cycle not configured/Parameters configured by RRC	Χ	Χ	ı
7.1.6.2	DRX operation/Short cycle not configured/DRX command MAC control element reception	Х	Х	-
7.1.6.3	DRX operation / Short cycle configured / Parameters configured by RRC	Х	X	-
7.1.7.1.1	DL-SCH transport block size selection/DCI format 1/RA type 0	Х	Х	-
7.1.7.1.2	DL-SCH transport block size selection/DCI format 1/RA type 1	Χ	Χ	-
7.1.7.1.3	DL-SCH transport block size selection/DCI format 1A/RA type 2/Localised VRB	Χ	Χ	-
7.1.7.1.4	DL-SCH transport block size selection/DCI format 1A/RA type 2/Distributed VRB	Х	Х	-
7.1.7.1.5	DL-SCH transport block size selection / DCI format 2A / RA type 0 / Two transport blocks enabled / Transport block to codeword swap flag value set to 0	Х	Х	-
7.1.7.1.6	DL-SCH transport block size selection / DCI format 2A / RA type 1/ Two transport blocks	Х	Х	-
	enabled / Transport block to codeword swap flag value set to 1			1
7.1.7.2.1	UL-SCH transport block size selection/DCI format 0	Х	X	-
7.1.8.1	Periodic RI reporting using PUCCH / Category 1 UE / Transmission mode 3/4	Х	X	-
7.1.9.1.1	CA / Activation/Deactivation of SCells / Activation/Deactivation MAC control element reception / sCellDeactivationTimer/ Intra-band Contiguous CA	Х	Х	-
7.1.9.1.2	CA / Activation/Deactivation of SCells / Activation/Deactivation MAC control element	Х	Х	-
74040	reception / sCellDeactivationTimer/ Inter-band CA	.,	.,	
7.1.9.1.3	CA / Activation/Deactivation of SCells / Activation/Deactivation MAC control element	Х	Х	-
7.0.0.4	reception / sCellDeactivationTimer / Intra-band non-Contiguous CA	V	V	
7.2.2.1 7.2.2.2	UM RLC/Segmentation and reassembly/5-bit SN/Framing info field	X	X	-
	UM RLC/Segmentation and reassembly/10-bit SN/Framing info field	X	X	-
7.2.2.3 7.2.2.4	UM RLC/Reassembly/5-bit SN/LI value > PDU size	X	X	-
7.2.2.4	UM RLC/Reassembly/10-bit SN/LI value > PDU size UM RLC/5-bit SN/Correct use of sequence numbering	X	X	
7.2.2.5.1	UM RLC/5-bit SN/Correct use of sequence numbering	X	X	-
7.2.2.6	UM RLC/Concatenation, segmentation and reassembly	X	X	
7.2.2.7	UM RLC/In sequence delivery of upper layer PDUs without residual loss of RLC	X	X	-
	PDUs/Maximum re-ordering delay below t-Reordering			
7.2.2.8	UM RLC/In sequence delivery of upper layer PDUs without residual loss of RLC PDUs/Maximum re-ordering delay exceeds t-Reordering	Х	Х	-
7.2.2.9	UM RLC/In sequence delivery of upper layer PDUs with residual loss of RLC PDUs/Maximum re-ordering delay exceeds t-Reordering	Х	Х	-
7.2.2.10	UM RLC/Duplicate detection of RLC PDUs	Х	Χ	-
7.2.2.11	UM RLC/RLC re-establishment procedure	X	X	-
7.2.3.1	AM RLC/Concatenation and reassembly	X	X	_
7.2.3.2	AM RLC/Segmentation and reassembly/No PDU segmentation	X	X	-
7.2.3.3	AM RLC/Segmentation and reassembly/Framing info field	X	X	-
7.2.3.4	AM RLC/Segmentation and reassembly/Different numbers of length indicators	Х	Х	-
7.2.3.5	AM RLC/Reassembly/LI value > PDU size	Х	Χ	-
7.2.3.6	AM RLC/Correct use of sequence numbering	Х	Х	-
7.2.3.7	AM RLC/Control of transmit window	Х	Х	-
7.2.3.8	AM RLC/Control of receive window	Х	Χ	-
7.2.3.9	AM RLC/Polling for status	Х	Χ	-
7.2.3.10	AM RLC/Receiver status triggers	Χ	Х	
7.2.3.13	AM RLC/Reconfiguration of RLC parameters by upper layers	Х	Х	•
7.2.3.14	AM RLC/In sequence delivery of upper layers PDUs	Х	Χ	•
7.2.3.15	AM RLC/Re-ordering of RLC PDU segments	Х	Χ	-
7.2.3.16	AM RLC/Re-transmission of RLC PDU without re-segmentation	Х	Χ	-
7.2.3.17	AM RLC/Re-segmentation RLC PDU/SO, FI, LSF	Х	Χ	
7.2.3.18	AM RLC/Reassembly/AMD PDU reassembly from AMD PDU segments, Segmentation Offset and Last Segment Flag fields	Х	Х	-
7.2.3.20	AM RLC/Duplicate detection of RLC PDUs	Χ	Χ	-
7.2.3.21	AM RLC/RLC re-establishment at RRC connection reconfiguration including	X	X	-
7244	mobilityControllnfo IE		~	
7.3.1.1	Maintenance of PDCP sequence numbers/User plane/RLC AM Maintenance of PDCP sequence numbers/User plane/RLC LIM/Short PDCP SN /7 hits)	X	X	-
7.3.1.2	Maintenance of PDCP sequence numbers/User plane/RLC UM/Short PDCP SN (7 bits)		X	-
7.3.1.3	Maintenance of PDCP sequence numbers/User plane/RLC UM/Long PDCP SN (12 bits)	X	X	-
7.3.3.1	Ciphering and deciphering/Correct functionality of EPS AS encryption algorithms/SNOW 3G	X	X	-
7.3.3.2	Ciphering and deciphering/Correct functionality of EPS UP encryption algorithms/SNOW 3G	X	X	-
7.3.3.3	Ciphering and deciphering/Correct functionality of EPS AS encryption algorithms/AES	٨	٨	-

Test case	Description	FDD	TDD	T/F
7.3.3.4	Ciphering and deciphering/Correct functionality of EPS UP encryption algorithms/AES	Χ	Χ	-
7.3.3.5	Ciphering and deciphering / Correct functionality of EPS AS encryption algorithms / ZUC	Χ	Χ	-
7.3.3.6	Ciphering and deciphering / Correct functionality of EPS AS encryption algorithms / ZUC	Χ	Χ	-
7.3.4.1	Integrity protection/Correct functionality of EPS AS integrity algorithms/SNOW 3G	Χ	Χ	-
7.3.4.2	Integrity protection/Correct functionality of EPS AS integrity algorithms/AES	Χ	Χ	-
7.3.4.3	Integrity protection / Correct functionality of EPS AS integrity algorithms / ZUC	Х	Х	-
7.3.5.2	PDCP handover/Lossless handover/PDCP sequence number maintenance	Х	Х	-
7.3.5.3	PDCP handover/Non-lossless handover/PDCP sequence number maintenance	X	X	-
7.3.5.4	PDCP handover/Lossless handover/PDCP status report to convey the information on	X	X	_
1.0.0.1	missing or acknowledged PDCP SDUs at handover	^		
7.3.5.5	PDCP handover/In-order delivery and duplicate elimination in the downlink	Х	Х	-
7.3.6.1	PDCP discard	Х	Х	-
8.1.1.1	RRC/Paging for connection in idle mode	Х	Х	-
8.1.1.2	RRC/Paging for notification of BCCH modification in idle mode	Х	Χ	-
8.1.1.3	RRC / Paging for connection in idle mode / Multiple paging records	X	X	
8.1.1.4	RRC / Paging for connection in idle mode / Shared network environment	X	X	
8.1.1.6	RRC/BCCH modification in connected mode	X	X	
8.1.2.1	RRC connection establishment/Success	X	X	
8.1.2.2	RRC connection establishment/Reject with wait time	X	X	-
8.1.2.3	RRC connection establishment/Return to idle state after T300 timeout	X	X	
	RRC connection establishment/0% access probability for MO calls, no restriction for MO	X	X	
8.1.2.5	signalling			-
8.1.2.6	RRC connection establishment / Non-zero percent access probability for MO calls, no restriction for MO signalling	Х	Х	-
8.1.2.7	RRC connection establishment/0% access probability for AC 0 to 9, AC 10 is barred, AC 11 to 15 are not barred, access for UE with access class in the range 11 to 15 is allowed	Х	Х	-
8.1.2.8	RRC connection establishment / Range of access baring time	Χ	X	_
8.1.2.9	RRC Connection Establishment / 0% access probability for MO calls, non-zero percent	Х	X	
0.1.2.0	access probability for MO signalling	^	^	
8.1.2.11	RRC connection establishment of emergency call	Χ		-
8.1.2.12	RRC connection establishment of emergency call / Limited Service	Х		-
8.1.2.13	RRC connection establishment / 0% access probability for MO calls, 0% access probability	Х	Х	-
01112110	for MO signalling	, ,	, ,	
8.1.2.14	RRC connection establishment / High speed flag	Х	Х	-
8.1.3.1	RRC connection release/Success	Х	Х	-
8.1.3.4	RRC connection release/Redirection to another E-UTRAN frequency	X	X	-
8.1.3.5	RRC connection release/Success/With priority information	Χ	Χ	-
8.1.3.6	RRC connection release/Redirection from E-UTRAN to UTRAN	X	X	Х
8.1.3.6a	RRC connection release / Redirection from E-UTRAN to UTRAN / Pre-redirection info	X	X	X
8.1.3.7	RRC connection release / Redirection from UTRAN to E-UTRAN	X	X	X
8.1.3.8	RRC connection release / Redirection from E-UTRAN to GERAN	X	X	
8.1.3.9	RRC connection release / Redirection from E-UTRAN to HRPD	X	-	
	RRC connection release / Redirection from E-UTRAN to 1xRTT			
8.1.3.10		X	- V	-
8.1.3.11	RRC connection release / Redirection to another E-UTRAN band	X	X	-
8.1.3.11a	RRC connection release / Redirection to another E-UTRAN band / Between FDD and TDD	X	X	-
8.1.3.12	RRC connection release / Success / With priority information / Inter-band	X	Х	-
8.1.3.12a	RRC connection release / Success / With priority information / Inter-band / Between FDD and TDD	Х	Х	-
8.1.3.12b	RRC connection release / Success / With priority information / Inter-band(Single frequency operation in source band)	Х	Х	-
8.2.1.1	RRC connection reconfiguration/Radio bearer establishment for transition from RRC_IDLE to RRC_CONNECTED/Success/Default bearer/Early bearer establishment	Х	Х	-
8.2.1.3	RRC connection reconfiguration/Radio bearer establishment/Success/Dedicated bearer	Χ	Χ	-
8.2.1.5	RRC connection reconfiguration / Radio bearer establishment for transition from RRC_IDLE	X	X	-
	to RRC CONNECTED / Success / Latency check			
8.2.1.6	RRC connection reconfiguration / Radio bearer establishment for transition from RRC_IDLE to RRC CONNECTED / Success / Latency check / SecurityModeCommand and	Χ	Х	-
0.0.1.7	RRCConnectionReconfiguration transmitted in the same TTI			
8.2.1.7	RRC connection reconfiguration/Radio bearer establishment/Success/SRB2	X	X	-
8.2.1.8	RRC connection reconfiguration / Radio bearer establishment / Success / Dedicated bearer / ROHC configured	Х	Х	-
8.2.2.1	RRC connection reconfiguration/Radio resource reconfiguration/Success	Χ	Х	-
8.2.2.2	RRC connection reconfiguration/SRB/DRB reconfiguration/Success	Χ	Χ	-
0.2.2.2	Trive definedation recoming a autority of the recoming a ration, each cool	Х	Х	

Test case	•	FDD	TDD	T/F
	band contiguous CA			
8.2.2.3.2	CA / RRC connection reconfiguration / SCell addition/ modification/release / Success / Interband CA	Х	Х	-
8.2.2.3.3	CA / RRC connection reconfiguration / SCell addition/ modification/release / Success / Intra- band non-contiguous CA	Х		-
8.2.2.4.1	CA / RRC connection reconfiguration / SCell SI change / Success / Intra-band Contiguous	Х	Х	-
8.2.2.4.2	CA CA / RRC connection reconfiguration / SCell SI change / Success / Inter-band CA	Χ	Х	_
8.2.2.4.3	CA / RRC connection reconfiguration / SCell SI change / Success / Intra-band non-	X	X	
	contiguous CA			
8.2.2.5.1	CA / RRC connection reconfiguration / SCell addition without UL / Success / Intra-band contiguous CA	Χ	Х	-
8.2.2.5.2	CA / RRC connection reconfiguration / SCell addition without UL / Success / Inter-band CA	Χ	Χ	-
8.2.2.5.3	CA / RRC connection reconfiguration / SCell addition without UL / Success / Intra-band non-contiguous CA	Χ	Χ	-
8.2.2.8	RRC connection reconfiguration / SIB1 information / Success	Χ	Χ	-
8.2.3.1	RRC connection reconfiguration/Radio bearer release/Success	Х	Х	-
8.2.4.1	RRC connection reconfiguration/Handover/Success/Dedicated preamble	Х	Х	-
8.2.4.2	RRC connection reconfiguration/Handover/Success/Common preamble	Χ	Х	-
8.2.4.3	RRC connection reconfiguration/Handover/Success/Intra-cell/Security reconfiguration	Χ	Χ	-
8.2.4.4	RRC connection reconfiguration/Handover/Failure/Intra-cell/Security reconfiguration	Χ	Х	-
8.2.4.5	RRC connection reconfiguration/Handover/All parameters included	Х	Х	-
8.2.4.6	RRC connection reconfiguration/Handover/Success/Inter-frequency	Х	Х	-
8.2.4.7	RRC connection reconfiguration/Handover/Failure/Re-establishment successful	Χ	Х	-
8.2.4.8	RRC connection reconfiguration / Handover / Failure / Re-establishment failure	Х	Х	-
8.2.4.9	RRC connection reconfiguration/Handover/Inter-band blind handover/Success	X	X	-
8.2.4.10	RRC connection reconfiguration / Handover / Between FDD and TDD	X	X	-
8.2.4.12	RRC connection reconfiguration / Handover / Setup and release of MIMO	X	X	-
8.2.4.13	RRC connection reconfiguration / Handover / Success (with measurement) / Inter-band	X	X	_
8.2.4.13a	RRC connection reconfiguration / Handover / Success (with measurement) / Inter-band / between FDD and TDD	X	X	-
8.2.4.14	RRC connection reconfiguration / Handover / Failure / Re-establishment successful / Interband	Х	Х	-
8.2.4.14a	RRC connection reconfiguration / Handover / Failure / Re-establishment successful / Interband / between FDD and TDD	Х	Х	-
8.2.4.15	RRC connection reconfiguration / Handover / Failure / Re-establishment failure / Inter-band	Y	Y	
8.2.4.15a	RRC connection reconfiguration / Handover / Failure / Re-establishment failure / Inter-band	X	X	
	/ Between FDD and TDD		^	
8.2.4.16.1	CA / RRC connection reconfiguration / Setup and Change of MIMO / Intra-band Contiguous CA	Χ		-
8.2.4.16.2	CA / RRC connection reconfiguration / Setup and Change of MIMO / Inter-band CA	X		-
8.2.4.16.3	CA / RRC connection reconfiguration / Setup and Change of MIMO / Intra-band non-contiguous CA	Χ		-
8.2.4.17.1	CA / RRC connection reconfiguration / Handover / Success / PCell Change and SCell addition / Intra-band contiguous CA	Х	Х	-
8.2.4.17.2	CA / RRC connection reconfiguration / Handover / Success / PCell Change and SCell addition / Inter-band CA	Х	Х	-
8.2.4.17.3	CA / RRC connection reconfiguration / Handover / Success / PCell Change and SCell	Х		-
8.2.4.18.1	addition / Intra-band non-contiguous CA CA / RRC connection reconfiguration / Handover / Success / SCell release / Intra-band	Χ	Х	-
8.2.4.18.2	contiguous CA CA / RRC connection reconfiguration / Handover / Success / SCell release / Inter- band	Х	Х	-
8.2.4.18.3	CA / RRC connection reconfiguration / Handover / Success / SCell release / Intra- band	X	X	
8.2.4.19.1	non-contiguous CA CA / RRC connection reconfiguration / Handover / Success / PCell Change/ Scell no	X	X	
	Change / Intra-band contiguous CA			
8.2.4.19.2	CA / RRC connection reconfiguration / Handover / Success / PCell Change/ Scell no Change / Inter-band CA	Х	Х	-
8.2.4.20.1	CA / RRC connection reconfiguration / Handover / Success / Scell Change / Intra-band Contiguous CA	Х	Х	-
8.2.4.20.2	CA / RRC connection reconfiguration / Handover / Success / Scell Change / Inter-band CA	Χ	Χ	-
8.2.4.20.3	CA / RRC connection reconfiguration / Handover / Success / SCell Change / Intra-band	Χ		-

Test case		FDD	TDD	T/F
8.2.4.21.1	CA / RRC connection reconfiguration / Handover / Success / SCell release / Intra-band Contiguous CA	Х	Х	
8.2.4.21.2	CA / RRC connection reconfiguration / Handover / Success / SCell release / Inter-band CA	Χ	Χ	ı
8.2.4.21.3	CA / RRC connection reconfiguration / Handover / Success / SCell release / Intra-band non-contiguous CA	Х		ı
8.2.4.22	RRC connection reconfiguration / Handover / MFBI / Target cell broadcasting information disregarded by the UE	Х	Χ	-
8.2.4.23.1	CA / RRC connection reconfiguration / Handover / Failure / Re-establishment successful / Intra-band Contiguous CA	Х	Χ	-
8.2.4.23.2	CA / RRC connection reconfiguration / Handover / Failure / Re-establishment successful / Inter-band CA	Х		-
8.2.4.23.3	CA / RRC connection reconfiguration / Handover / Failure / Re-establishment successful / Intra-band non-Contiguous CA	Х		-
8.3.1.1	Measurement configuration control and reporting/Intra E-UTRAN measurements/Event A1	Χ	Χ	-
8.3.1.2	Measurement configuration control and reporting/Intra E-UTRAN measurements/Event A2	Х	Χ	
8.3.1.3	Measurement configuration control and reporting/Intra E-UTRAN measurements/Two simultaneous events A3 (intra and inter-frequency measurements)	Х	Х	-
8.3.1.3a	Measurement configuration control and reporting / Intra E-UTRAN measurements / Two simultaneous events A3 (intra and inter-frequency measurements) / RSRQ based measurements	Х	Х	-
8.3.1.4	Measurement configuration control and reporting/Intra E-UTRAN measurements/Periodic reporting (intra and inter-frequency measurements)	Х	Χ	-
8.3.1.5	Measurement configuration control and reporting/Intra E-UTRAN measurements/Two simultaneous event A3 (intra-frequency measurements)	Х	Χ	1
8.3.1.6	Measurement configuration control and reporting / Intra E-UTRAN measurements / Two simultaneous events A2 and A3 (inter-frequency measurements)	Х	Х	-
8.3.1.7	Measurement configuration control and reporting/Intra E-UTRAN measurements/Blacklisting	Х	Х	-
8.3.1.8	Measurement configuration control and reporting/Intra E-UTRAN measurements/Handover/IE measurement configuration present	Х	Χ	-
8.3.1.9	Measurement configuration control and reporting/Intra E-UTRAN measurements/Intra- frequency handover/IE measurement configuration not present	Х	Х	
8.3.1.9a	Measurement configuration control and reporting / Intra E-UTRAN measurements / Intra- frequency handover / IE measurement configuration not present / Single Frequency operation	Х	Х	-
8.3.1.10	Measurement configuration control and reporting/Intra E-UTRAN measurements/Inter- frequency handover/IE measurement configuration not present	Х	Х	-
8.3.1.11	Measurement configuration control and reporting/Intra E-UTRAN measurements/Continuation of the measurements after RRC connection re-establishment	Х	Χ	1
8.3.1.11a	Measurement configuration control and reporting / Intra Frequency measurements / Continuation of the measurements after RRC connection re-establishment / Single Frequency operation	Х	Х	-
8.3.1.12	Measurement configuration control and reporting / Intra E-UTRAN measurements / Two simultaneous events A3 (Inter-band measurements)	Х	Χ	•
8.3.1.12a	Measurement configuration control and reporting / Intra E-UTRAN measurements / Two simultaneous events A3 (inter-band measurements) / Between FDD and TDD	Х	Х	-
8.3.1.13	Measurement configuration control and reporting / Intra E-UTRAN measurements / Periodic reporting (intra-frequency and inter-band measurements)	Х	Х	-
8.3.1.13a	Measurement configuration control and reporting / Intra E-UTRAN measurements / Periodic reporting (intra-frequency and inter-band measurements) / Between FDD and TDD	Х	Х	-
8.3.1.14	Measurement configuration control and reporting / Intra E-UTRAN measurements / Two simultaneous events A2 and A3 (Inter-band measurements)	Х	Χ	-
8.3.1.14a	Measurement configuration control and reporting / Intra E-UTRAN measurements / Two simultaneous events A2 and A3 (inter-band measurements) / Between FDD and TDD	Х	Х	-
8.3.1.15	Measurement configuration control and reporting / Intra E-UTRAN measurements / Interband handover / IE measurement configuration not present	Х	Χ	-
8.3.1.15a	Measurement configuration control and reporting / Intra E-UTRAN measurements / Interband handover / IE measurement configuration not present / Between FDD and TDD	Х	Х	-
8.3.1.16	Measurement configuration control and reporting / Intra E-UTRAN measurements / Continuation of the measurements after RRC connection re-establishment / Inter-band	Х	Х	-
8.3.1.16a	Measurement configuration control and reporting / Intra E-UTRAN measurements / Continuation of the measurements after RRC connection re-establishment / Inter-band / Between FDD and TDD	Х	Х	-
8.3.1.17.1	CA / Measurement configuration control and reporting / Intra E-UTRAN measurements / Event A6 / Intra-band contiguous CA	Х	Χ	-

Test case	Description	FDD	TDD	T/F
8.3.1.17.2	CA / Measurement configuration control and reporting / Intra E-UTRAN measurements / Event A6 / Inter-band CA	Х	Х	-
8.3.1.17.3	CA / Measurement configuration control and reporting / Intra E-UTRAN measurements / Event A6 / Intra-band non-contiguous CA	Х	Х	-
8.3.1.18.1	CA / Measurement configuration control and reporting / Intra E-UTRAN measurements / Additional measurement reporting / Intra-band contiguous CA	Х	Х	-
8.3.1.18.2	CA / Measurement configuration control and reporting / Intra E-UTRAN measurements / Additional measurement reporting / Inter-band CA	Х		-
8.3.1.18.3	CA / Measurement configuration control and reporting / Intra E-UTRAN measurements / Additional measurement reporting / Intra-band non-contiguous CA	Х	Х	-
8.3.1.19	elCIC / Measurement configuration control and reporting / CSI change	Х	Χ	-
8.3.1.21	elCIC / Measurement configuration control and reporting/Event A3 Handover / Neighbor RSRP measurement configuration change	Х	Х	-
8.3.1.22.1	CA / Measurement configuration control and reporting / Intra E-UTRAN measurements / Event A1 / Event A2 / Intra-band Contiguous CA	Х	Х	-
8.3.1.22.2	CA / Measurement configuration control and reporting / Intra E-UTRAN measurements / Event A1 / Event A2 / Inter-band CA	Х	Х	-
8.3.1.22.3	CA / Measurement configuration control and reporting / Intra E-UTRAN measurements / Event A1/Event A2 / Intra-band non-contiguous CA	Х	Х	-
8.3.1.23	Measurement configuration control and reporting / Intra E-UTRAN measurements / Event A4	Х	Х	-
8.3.1.24	Measurement configuration control and reporting / Intra E-UTRAN measurements / Event A5	Х	Х	-
8.3.1.25	Measurement configuration control and reporting / Intra E-UTRAN measurements / Event A5 / RSRQ based measurements	Х	Х	-
8.3.1.26	Measurement configuration control and reporting / Intra E-UTRAN measurements / Event A5 (Inter-frequency measurements)	Х	Х	-
8.3.1.27	Measurement configuration control and reporting / Intra E-UTRAN measurements / Event A5 (Inter-frequency measurements) / RSRQ based measurements	Х	Х	ı
8.3.2.1	Measurement configuration control and reporting / Inter-RAT measurements / Event B2 / Measurement of GERAN cells	Х	Х	-
8.3.2.2	Measurement configuration control and reporting / Inter-RAT measurements / Periodic reporting / Measurement of GERAN cells	Х	Х	-
8.3.2.3	Measurement configuration control and reporting/Inter-RAT measurements/Event B2/Measurement of UTRAN cells	Х	Х	Х
8.3.2.3a	Measurement configuration control and reporting / Inter-RAT measurements / Event B2 / Measurement of UTRAN cells / RSRQ based measurements	Х	Х	Х
8.3.2.4	Measurement configuration control and reporting / Inter-RAT measurements / Periodic reporting / Measurement of UTRAN cells	Х	Х	X
8.3.2.5	Measurement configuration control and reporting / Inter-RAT measurements / Periodic reporting / Measurements of E-UTRAN, UTRAN and GERAN cells	Х	Х	Χ
8.3.2.6	Measurement configuration control and reporting / Inter-RAT measurements / Simultaneous A2 and two B2 / Measurements of E-UTRAN, UTRAN and GERAN cells	Х	Х	Х
8.3.2.7	Measurement configuration control and reporting/Inter-RAT measurements/Event B2/Measurement of HRPD cells	Х	-	-
8.3.2.8	Measurement configuration control and reporting / Inter-RAT measurements / Periodic reporting / Measurement of HRPD cells	Х	-	-
8.3.2.9	Measurement configuration control and reporting / Inter-RAT measurements / Event B2 / Measurement of 1xRTT cells	Х	-	-
8.3.2.10	Measurement configuration control and reporting / Inter-RAT measurements / Periodic reporting / Measurement of 1xRTT cells	Х	-	-
8.3.2.11	Measurement configuration control and reporting / Inter-RAT Measurements / Event B1 / Measurement of UTRAN cells	Х	Х	Х
8.3.3.1	Measurement configuration control and reporting/SON/ANR/CGI reporting of E-UTRAN cell	Χ	X	-
8.3.3.2	Measurement configuration control and reporting / SON / ANR / CGI reporting of UTRAN cell	Х		Х
8.3.3.3	Measurement configuration control and reporting / SON / ANR / CGI reporting of GERAN cell	Х	Х	-
8.3.3.4	Measurement configuration control and reporting / SON / ANR / CGI reporting of HRPD cell	Χ	-	-
8.3.4.1	Intra-frequencySI acquisition / CSG cell and non-CSG cell	Χ	Х	-
8.3.4.2	Inter-freq SI acquisition / Non-member hybrid cell	X	X	-
8.3.4.3	Inter-freq SI acquisition / Member hybrid cell	X	X	-
8.3.4.4	Inter-RAT SI acquisition / RRC_CONNECTED / UMTS member CSG cell	X	Х	Х
8.3.4.5	Inter-frequency E-UTRAN FDD – FDD / CSG Proximity Indication	X	- X	-
8.4.1.2	Inter-RAT handover / From E-UTRA to UTRA PS / Data	_ ^	٨	Χ

Test case	Description	FDD	TDD	T/F
8.4.1.4	Inter-RAT handover / From E-UTRA to UTRA HSPA / Data	X	X	X
8.4.1.5	Inter-RAT handover / from E-UTRA to UTRA HSUPA/HSDPA / Data	X		Χ
8.4.2.2	Inter-RAT handover / From UTRA PS to E-UTRA / Data	Х	Х	Χ
8.4.2.4	Inter-RAT handover / From UTRA HSPA to E-UTRA / Data	Х	Х	Χ
8.4.2.7.1	CA / RRC connection reconfiguration / Handover UTRAN to E-UTRAN/ Success / SCell addition / Intra-band Contiguous CA	Х	Х	Χ
8.4.2.7.2	CA / RRC connection reconfiguration / Handover UTRAN to E-UTRAN/ Success / SCell addition / Inter-band CA	Х		Х
8.4.2.7.3	CA / RRC connection reconfiguration / Handover UTRAN to E-UTRAN/ Success / SCell addition / Intra-band non-contiguous CA	Х	Х	Х
8.4.3.2	Inter-RAT cell change order / From E-UTRA data RRC_CONNECTED to GPRS / Without NACC	Х	Х	-
8.4.3.3	Inter-RAT cell change order / From E-UTRA data to GPRS / With NACC	X	Х	-
8.4.7.3	Pre-registration at 1xRTT and inter-RAT handover / CS fallback from E-UTRA RRC_IDLE to 1xRTT	Х	-	-
8.4.7.4	Pre-Registration at 1xRTT and inter-RAT handover / CS fallback caused by addition of CS service / From E-UTRA Data to 1xRTT	Х	-	-
8.4.7.5	Pre-registration at 1xRTT and inter-RAT handover / Enhanced CS fallback from E-UTRA RRC_IDLE to 1xRTT / MT call	Х		
8.4.7.6	Pre-registration at 1xRTT and inter-RAT handover / Enhanced CS fallback from E-UTRA RRC_CONNECTED to 1xRTT / MO call	Х		-
8.4.7.7	Pre-registration at 1xRTT and inter-RAT handover / Enhanced CS fallback from E-UTRA RRC_CONNECTED to e1XCSFB ECAM-based 1xRTT / MO call	Х		-
8.4.7.8	Pre-registration at 1xRTT and inter-RAT Handover / Enhanced CS fallback from E-UTRA RRC_CONNECTED to 1xRTT / ECAM-based MT call	Х		
8.4.7.9	Pre-registration at 1xRTT and inter-RAT Handover / Enhanced CS fallback from E-UTRA RRC_CONNECTED to 1xRTT / Extended Service Reject / MO call	Х	-	-
8.4.7.10	Pre-registration at 1xRTT and inter-RAT Handover / Enhanced CS fallback from E-UTRA call failure – GCSNA with Reorder Order	Х		
8.5.1.1	Radio link failure/RRC connection re-establishment Success	Х	Х	-
8.5.1.2	Radio link failure/T301 expiry	Х	Χ	-
8.5.1.3	Radio link failure/T311 expiry	Х	Χ	-
8.5.1.4	Radio link failure / RRC connection re-establishment reject	Х	Х	-
8.5.1.5	Radio link failure/Radio link recovery while T310 is running	Х	Х	-
8.5.1.6	Radio link failure / T311 expiry / Dedicated RLF timer	Χ	Χ	-
8.5.1.7.1	CA / No Radio link failure on Scell/ RRC Connection Continues on PCell / Intra-band Contiguous CA	Х	Х	-
8.5.1.7.2	CA / No Radio link failure on Scell/ RRC Connection Continues on PCell / Inter-band CA	Χ	Χ	-
8.5.1.7.3	CA / No Radio link failure on Scell/ RRC Connection Continues on PCell / Intra-band non-contiguous CA	Х	Х	-
8.5.2.1	Redirection to E-UTRAN / From UTRAN upon reception of RRC CONNECTION REJECT	Χ	Χ	Χ
8.5.4.1	UE capability transfer/Success	Х	Χ	-
8.6.1.1	Immediate MDT / Reporting / Location information	Х	Χ	-
8.6.2.1	Logged MDT / Intra-frequency measurement, logging and reporting	Х	Χ	-
8.6.2.2	Logged MDT / Inter-frequency measurement, logging and reporting	X	Х	-
8.6.2.3	Logged MDT / Logging and reporting / Limiting area scope	X	X	-
8.6.2.3a	Logged MDT / Logging and reporting / Limiting area scope / TAC list with PLMN identity	X	X	
8.6.2.4	Logged MDT / Logging and reporting / Indication of logged measurements at E-UTRA handover	Х	Х	-
8.6.2.5	Logged MDT / Logging and reporting / Indication of logged measurements at E-UTRA re- establishment	Х	Х	-
8.6.2.6	Logged MDT / Release of logged MDT measurement configuration / Expire of duration timer	Х	Х	-
8.6.2.7	Logged MDT / Release of logged MDT measurement configuration / Reception of new logged measurement configuration, Detach or UE power off	Х	Х	-
8.6.2.8	Logged MDT / Maintaining logged measurement configuration / UE state transitions and mobility	Х		-

8.6.2.10 Logged MDT / Logging and reporting / Reporting at Intra LTE handover / PLMN list	Test case		FDD	TDD	T/F
Ilst Sec.2.11 Logging and reporting / Reporting at intra LTE handover / PLMN list Sec.2.11 Logged MDT / Logging and reporting / Reporting at RRC connection re-establishment / PLMN list Sec.2.11 Logged MDT / Logging and reporting of RRC connection re-establishment / Reporting of RRC connection re-establishment / Reporting of Inter-frequency measurements X	8.6.2.9	Logged MDT / Location information	Χ	Χ	-
8.6.3.1 Logged MDT / Logging and reporting of RREP connection re-establishment / PLNN list 8.6.3.1 Logged MDT / UTRAN Inter-RAT measurement, logging and reporting	8.6.2.10	1 00	Х	Х	-
8.6.2.1 Logged MDT / Logging and reporting of RRPC connection re-establishment / PLNM list 8.6.3.1 Logged MDT / UTRAN Inter-RAT measurement, logging and reporting	8.6.2.11	Logged MDT / Logging and reporting / Reporting at intra LTE handover / PLMN list	Χ	Χ	-
8.6.4.1 Radio Link Failure logging / Reporting of Intra-frequency measurements X X X - Radio Link Failure logging / Reporting of Intra-frequency measurements X X X - Radio Link Failure logging / Reporting of Intra-frequency measurements X X X - Restablishment logging / Reporting at RRC connection establishment X reestablishment Reporting at E-UTRA handover X X X - Restablishment Reporting of Reporting at E-UTRA handover X X X - Red Link Failure logging / Reporting at E-UTRA handover X X X - Radio Link Failure logging / Reporting at E-UTRA handover X X X - Radio Link Failure logging / Logging and Reporting of ECGI of the PCell X X X X - Radio Link Failure logging / Logging and reporting / Reporting at RRC connection X X X - Radio Link Failure logging / Logging and reporting / Reporting at Intra LTE handover / X X X - Radio Link Failure logging / Logging and reporting / Reporting at Intra LTE handover / X X X - Radio Link Failure logging / Logging and reporting / Reporting at Intra LTE handover / X X X - Radio Link Failure logging / Logging and reporting / Reporting at RRC connection restablishment / PLMM list Refailure logging / Reporting at UTRAN Inter-RAT handover X X X - Radio Link Failure logging / Reporting at UTRAN Inter-RAT handover X X X - Radio Link Failure logging / Reporting of Intra-frequency measurements X X X - Radio Link Failure logging / Reporting of Intra-frequency measurements X X X - Radio Link Failure logging / Location information X X X - Radio Link Failure logging / Location information X X X - Radio Link Failure logging / Location information X X X - Radio Link Failure logging / Location information X X X - Radio Link Failure logging / Location information X X X - Radio Link Failure logging / Location information X X X - Radio Link Failure logging / Location information X X X - Radio Link Failure logging / Location information X X X - Radio Link Failure logging / Location information X X X - Radio Link Failure logging / Location information X X X - Radio Link Fa	8.6.2.12	Logged MDT / Logging and reporting / Reporting at RRC connection re-establishment /			-
8.6.4.2 Radio Link Failure logging / Reporting at RRC connection establishment and reestablishment logging / Reporting at RRC connection establishment and reestablishment logging / Reporting at E-UTRA handover X X X - 8.6.4.5 Radio Link Failure logging / Reporting at E-UTRA handover X X X - 8.6.4.7 Radio Link Failure logging / Location information X X X - 8.6.4.8 Radio Link Failure logging / Location information X X X - 8.6.4.8 Radio Link Failure logging / Location information X X X - 8.6.4.8 Radio Link Failure logging / Location information X X X - 8.6.4.8 Radio Link Failure logging / Location information X X X - 8.6.4.9 Radio Link Failure logging / Location information X X X - 8.6.4.9 Radio Link Failure logging / Location information X X X - 8.6.4.9 Radio Link Failure logging / Location information X X X - 8.6.4.10 Radio Link Failure logging / Location information X X X - 8.6.5.1 Radio Link Failure logging / Reporting A Reporting A Reporting at RRC connection restablishment / PLMM list X X - 8.6.5.1 Radio Link Failure logging / Reporting at UTRAN Inter-RAT handover X X X - 8.6.6.2 Handover Failure logging / Reporting of Inter-frequency measurements X X X - 8.6.6.2 Handover Failure logging / Location information X X X - 8.6.6.4 Handover Failure logging / Location information X X X - 8.6.6.6 Handover Failure logging / Location information X X X - 8.6.6.6 Handover Failure logging / Location information X X X - 8.6.6.6 Handover Failure logging / Location information X X X - 8.6.6.7 Handover Failure logging / Location information X X X - 8.6.6.7 Handover Failure logging / Location information X X X - 8.6.6.7 Handover Failure logging / Location information X X X - 8.6.6.7 Handover Failure logging / Location information X X X - 8.6.7 Handover Failure logging / Location information X X X - 8.6.7 Handover Failure logging / Location information X X X - 8.6.7 Handover Failure logging / Location information X X X - 8.6.8 Connection Establishment Failure logging / Logging and reporting / Reporting of Intra-18.6 Failure In	8.6.3.1	Logged MDT / UTRAN Inter-RAT measurement, logging and reporting			
8.6.4.1 Radio Link Failure logging / Reporting at RRC connection establishment and restablishment logging / Reporting at E-UTRA handover 8.6.4.1 Radio Link Failure logging / Reporting of ECGI of the PCeII X X X - 8.6.4.7 Radio Link Failure logging / Logging and reporting of ECGI of the PCeII X X X - 8.6.4.7 Radio Link Failure logging / Logging and reporting Reporting at RRC connection X X X - 8.6.4.7 Radio Link Failure logging / Logging and reporting / Reporting at RRC connection X X X - 8.6.4.7 Radio Link Failure logging / Logging and reporting / Reporting at intra LTE handover / X X - 8.6.4.9 Radio Link Failure logging / Logging and reporting / Reporting at Intra LTE handover / X X - 8.6.4.9 Radio Link Failure logging / Reporting at UTRAN Inter-RAT handover - 8.6.6.1 Handover Failure logging / Reporting at UTRAN Inter-RAT handover X X X - 8.6.6.1 Handover Failure logging / Reporting of Intra-frequency measurements X X X - 8.6.6.2 Handover Failure logging / Logging and reporting / Reporting at RRC connection X X X - 8.6.6.4 Handover Failure logging / Logging and reporting / Reporting at RRC connection X X X - 8.6.6.4 Handover Failure logging / Logging and reporting / Reporting at Intra LTE handover / PLMN ist Sistematic Reporting of Intra-frequency measurements X X X - 8.6.6.4 Handover Failure logging / Logging and reporting / Reporting at Intra LTE handover / PLMN ist Sistematic Reporting of Intra-frequency measurements X X X - 8.6.7.1 Handover Failure logging / Logging and reporting / Reporting at Intra LTE handover / PLMN ist Sistematic Reporting Reporting at Intra LTE handover / PLMN ist Sistematic Reporting Reporting A Reporting at Intra LTE Reporting A Reporting					-
reestablishment					-
8.6.4.7 Radio Link Failure logging / Location information	8.6.4.3		Χ	Х	-
8.6.4.7 Radio Link Failure logging / Location information 8.6.4.8 Radio Link Failure logging / Logging and reporting / Reporting at RRC connection 8.6.4.9 Radio Link Failure logging / Logging and reporting / Reporting at intra LTE handover / X X - Radio Link Failure logging / Logging and reporting / Reporting at Intra LTE handover / X X - Radio Link Failure logging / Logging and reporting / Reporting at RRC connection reseastblishment / PLMN list 8.6.4.1 Radio Link Failure logging / Reporting at UTRAN Inter-RAT handover 8.6.5.1 Radio Link Failure logging / Reporting at UTRAN Inter-RAT handover 8.6.6.2 Handover Failure logging / Reporting of Inter-frequency measurements 8.6.6.4 Handover Failure logging / Location information 8.6.6.5 Handover Failure logging / Location information 8.6.6.6 Handover Failure logging / Logging and reporting / Reporting at RRC connection 8.6.6.6 Handover Failure logging / Logging and reporting / Reporting at intra LTE handover / PLMN list 8.6.6.7 Handover Failure logging / Logging and reporting / Reporting at RRC connection restablishment / PLMN list 8.6.7.1 Handover Failure logging / Logging and reporting / Reporting at RRC connection restablishment / PLMN list 8.6.7.1 Handover Failure logging / Logging and reporting / Reporting at RRC connection restablishment / PLMN list 8.6.8.1 Connection Establishment Failure logging / Logging and reporting / Reporting at Intra-LTE A X X - Reporting of Logging and reporting / Reporting at Intra-LTE X X - Reporting A Reporting at Reporting / Reporting at Intra-LTE X X - Reporting A Reporting at Reporting / Reporting A Reporting at Reporting A Repo	8.6.4.4	Radio Link Failure logging / Reporting at E-UTRA handover		Χ	-
8.6.4.0 Radio Link Failure logging / Logging and reporting / Reporting at IRRC connection 8.6.4.9 Radio Link Failure logging / Logging and reporting / Reporting at Intra LTE handover / X X - PLMN list 8.6.4.10 Radio Link Failure logging / Logging and reporting / Reporting at RRC connection restablishment / PLMN list 8.6.5.1 Radio Link Failure logging / Reporting at UTRAN Inter-RAT handover 8.6.5.1 Radio Link Failure logging / Reporting at UTRAN Inter-RAT handover 8.6.5.1 Handover Failure logging / Reporting at UTRAN Inter-RAT handover 8.6.6.2 Handover Failure logging / Reporting of Inter-frequency measurements 8.6.6.3 Handover Failure logging / Location Information 8.6.6.4 Handover Failure logging / Location Information 8.6.6.5 Handover Failure logging / Logging and reporting / Reporting at IRTC connection 8.6.6.6 Handover Failure logging / Logging and reporting / Reporting at Intra LTE handover / PLMN list 8.6.6.7 Handover Failure logging / Logging and reporting / Reporting at RRC connection restablishment / PLMN list 8.6.7.1 Handover Failure logging / Reporting of UTRAN Inter-RAT measurements 8.6.7.2 Handover Failure logging / Reporting of GERAN Inter-RAT measurements 8.6.8.1 Connection Establishment Failure logging / Logging and reporting / Reporting at Intra-LTE 8.6.8.1 Connection Establishment Failure logging and reporting / Reporting at Intra-LTE 8.6.8.3 Connection Establishment Failure logging / Logging and reporting / Reporting at Intra-LTE 8.6.8.6 Connection Establishment Failure logging / Logging and reporting / Reporting at Intra-LTE 8.6.8.6 Connection Establishment Failure logging / Logging and reporting / Reporting of Intra-frequency measurements 8.6.8.6 Connection Establishment Failure logging / Logging and reporting / Reporting of Intra-frequency measurements 8.6.8.1 Connection establishment Failure logging / Logging and reporting / Reporting of Intra-frequency measurements 8.6.8.1 Connection Establishment Failure logging / Logging and reporting / Reporting of Intra-frequency	8.6.4.5	Radio Link Failure logging / Reporting of ECGI of the PCell	Χ	Χ	-
establishment / PLMN list 8.6.4.9 Radio Link Failure logging / Logging and reporting / Reporting at intra LTE handover / X X PLMN list 8.6.4.10 Radio Link Failure logging / Logging and reporting / Reporting at RRC connection restablishment / PLMN list 8.6.5.1 Radio Link Failure logging / Reporting at UTRAN Inter-RAT handover 8.6.6.2 Handover Failure logging / Reporting of Intra-frequency measurements 8.6.6.4 Handover Failure logging / Reporting of Intra-frequency measurements 8.6.6.5 Handover Failure logging / Logatine intra-frequency measurements 8.6.6.6 Handover Failure logging / Logatine intra-frequency measurements 8.6.6.7 Handover Failure logging / Logatine intra-frequency measurements 8.6.6.8 Handover Failure logging / Logging and reporting / Reporting at RRC connection establishment / PLMN list 8.6.6.7 Handover Failure logging / Logging and reporting / Reporting at Intra LTE handover / PLMN list 8.6.6.7 Handover Failure logging / Reporting of UTRAN Inter-RAT measurements 8.6.7.1 Handover Failure logging / Reporting of UTRAN Inter-RAT measurements 8.6.7.2 Handover Failure logging / Reporting of UTRAN Inter-RAT measurements 8.6.8.1 Connection Establishment Failure logging / Logging and reporting / Reporting at intra LTE handover / Reporting at Intra-LTE / Andover Failure logging / Reporting of GERAN Inter-RAT measurements 8.6.8.1 Connection Establishment Failure logging / Logging and reporting / Reporting at intra-LTE / Andover Failure logging / Logging and reporting / Reporting at intra-LTE / Andover Failure logging / Logging and reporting / Reporting of Intra-frequency measurements 8.6.8.1 Connection Establishment Failure logging / Logging and reporting / Reporting of Intra-frequency measurements 8.6.8.5 Connection Establishment Failure logging / Logging and reporting / Reporting of Intra-frequency measurements 8.6.6.6 Connection Establishment 8.6.6.7 And Handover Failure Reporting / Reporting of Intra-frequency measurements 8.6.6.8 Connection Establishment 8.6.6.1 And Handover Failu	8.6.4.7		Χ	Χ	ı
8.6.4.10 Radio Link Failure logging / Logging and reporting / Reporting at intra LTE handover / X X - PLNN list 8.6.4.10 Radio Link Failure logging / Logging and reporting / Reporting at RRC connection restablishment / PLMN list 8.6.5.1 Radio Link Failure logging / Reporting at UTRAN Inter-RAT handover X X X - 8.6.6.1 Handover Failure logging / Reporting of Intra-frequency measurements X X - 8.6.6.2 Handover Failure logging / Reporting of Intra-frequency measurements X X - 8.6.6.3 Handover Failure logging / Logating information X X - 8.6.6.4 Handover Failure logging / Logating and reporting / Reporting at RRC connection X X - 8.6.6.5 Handover Failure logging / Logging and reporting / Reporting at RRC connection X X - 8.6.6.6 Handover Failure logging / Logging and reporting / Reporting at Intra LTE handover / PLMN list 8.6.6.7 Handover Failure logging / Logging and reporting / Reporting at RRC connection restablishment / PLMN list 8.6.7.1 Handover Failure logging / Reporting of UTRAN Inter-RAT measurements X X X X X X X X X X X X X X X X X X	8.6.4.8		Х	Х	-
8.6.4.10 Radio Link Failure logging / Logging and reporting / Reporting at RRC connection restablishment / PLINN list 8.6.5.1 Radio Link Failure logging / Reporting at UTRAN Inter-RAT handover 8.6.6.2 Handover Failure logging / Reporting of Intra-frequency measurements 8.7 X X S S S S S S S S S S S S S S S S S	8.6.4.9	Radio Link Failure logging / Logging and reporting / Reporting at intra LTE handover /	Х	Χ	-
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8.6.6.5 Handover Failure logging / Logging and reporting / Reporting at RRC connection establishment / PLMN list 8.6.6.6 Handover Failure logging / Logging and reporting / Reporting at intra LTE handover / PLMN X X . 8.6.6.7 Handover Failure logging / Logging and reporting / Reporting at RRC connection restablishment / PLMN list 8.6.7.1 Handover Failure logging / Reporting of UTRAN Inter-RAT measurements X X X . 8.6.7.2 Handover Failure logging / Reporting of GERAN Inter-RAT measurements X X X . 8.6.8.1 Connection Establishment Failure logging / Logging and reporting / T300 expiry X X . 8.6.8.2 Connection Establishment Failure logging / Logging and reporting / Reporting at intra-LTE X handover 8.6.8.3 Connection Establishment Failure logging / Logging and reporting / Reporting at intra-LTE X . 8.6.8.3 Connection Establishment Failure logging / Logging and reporting / Reporting at Intra-LTE X . 8.6.8.5 Connection Establishment Failure logging / Logging and reporting / Reporting at Intra-LTE X . 8.6.8.6 Connection Establishment Failure logging / Logging and reporting / Reporting of Intra-frequency measurements					-
8.6.6.6 Handover Failure logging / Logging and reporting / Reporting at intra LTE handover / PLMN X	8.6.6.5	Handover Failure logging / Logging and reporting / Reporting at RRC connection			-
Handover Failure logging / Logging and reporting / Reporting at RRC connection reestablishment / PLMN list	8.6.6.6	Handover Failure logging / Logging and reporting / Reporting at intra LTE handover / PLMN	Х	Х	-
8.6.7.1 Handover Failure logging / Reporting of UTRAN Inter-RAT measurements X X X 8.6.7.2 Handover Failure logging / Reporting of GERAN Inter-RAT measurements X X X - 8.6.8.1 Connection Establishment Failure logging / Logging and reporting / T300 expiry X X X - 8.6.8.2 Connection Establishment Failure logging / Logging and reporting / Reporting at intra-LTE X Androver	8.6.6.7	Handover Failure logging / Logging and reporting / Reporting at RRC connection re-	Х	Х	-
B.6.7.2 Handover Failure logging / Reporting of GERAN Inter-RAT measurements	8.6.7.1		Х	Χ	Х
8.6.8.1 Connection Establishment Failure logging / Logging and reporting / T300 expiry X X - 8.6.8.2 Connection Establishment Failure logging / Logging and reporting / Reporting at intra-LTE X X - handover X - Connection Establishment Failure logging / Logging and reporting / Reporting at RRC X X - connection re-establishment Failure logging / Logging and reporting / Reporting at RRC X X - frequency measurements X X - frequency measurements X X - frequency measurements X X X - frequency measurements X X X - 9.1.2.1 Authentication accepted X X X - 9.1.2.1 Authentication accepted by the network, GUTI used, authentication reject and reauthentication not accepted by the UE/MAC code failure X X X - 9.1.2.2 Authentication not accepted by the UE/SQN failure X X X - 9.1.2.5 Authentication not accepted by the UE/SQN failure X X X - 9.1.2.6 Abnormal cases/Network failing the authentication check X X X - 9.1.3.1 NAS security mode command accepted by the UE Non-EPS authentication unacceptable X X X - 9.1.3.1 NAS security mode command accepted by the UE X X X - 9.1.3.1 NAS security mode command not accepted by the UE X X X - 9.1.3.1 NAS security mode command not accepted by the UE X X X - 9.1.3.1 NAS representation procedure/IMEI requested X X X - 9.1.3.1 EMM information procedure/IMEI requested X X X - 9.1.3.1 Attach/Procedure/Success/Last visited TAI, TAI list and equivalent PLMN list handling X X X - 9.2.1.1.1 Attach Procedure/Success/Last visited TAI, TAI list and equivalent PLMN list handling X X X - 9.2.1.1.1 Attach Procedure/Success/Last visited TAI, TAI list and equivalent PLMN list handling X X X - 9.2.1.1.2 Attach/Vicucess/Last visited TAI, TAI list and equivalent PLMN list handling X X X - 9.2.1.1.2 Attach/Vicucess/Last visited TAI, TAI list and equivalent PLMN list handling X X X - 9.2.1.1.2 Attach/Vicucess/Last visited TAI, TAI list and equivalent PLMN list handling X X X - 9.2.1.1.2 Attach/Vicucess/Last visited TAI, TAI list and equivalent PLMN list handling X X X - 9.2.1.1.1 Attach/Vicucess/Last visited TAI,			X	X	
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8.6.8.6 Connection Establishment Failure logging / Logging and reporting / Reporting of Inter-frequency measurements 8.6.11.1 RACH Optimisation 9.1.2.1 Authentication accepted 9.1.2.3 Authentication not accepted by the network, GUTI used, authentication reject and reauthentication 9.1.2.4 Authentication not accepted by the UE/MAC code failure 9.1.2.5 Authentication not accepted by the UE/SQN failure 9.1.2.6 Abnormal cases/Network failing the authentication check 9.1.2.7 Authentication not accepted by the UE/ non-EPS authentication unacceptable 9.1.3.1 NAS security mode command accepted by the UE 9.1.3.2 NAS security mode command not accepted by the UE 9.1.3.3 No emergency bearer service / NAS security mode command with EIAO not accepted by the UE 9.1.4.2 Identification procedure/IMEI requested 9.1.4.2 Identification procedure/IMEI requested 9.1.4.1 Attach Procedure/Success/Valid GUTI 9.2.1.1.1 Attach Procedure/Success/Valid GUTI 9.2.1.1.10 Attach Procedure/Success/Valid GUTI 9.2.1.1.11 Attach Procedure/Success/Valid GUTI Islies and equivalent PLMN list handling 9.2.1.1.12 Attach Procedure/Success/With IMSI/GUTI reallocation 9.2.1.1.2 Attach Procedure/Success/With IMSI/GUTI reallocation Attach Procedure/Success/With IMSI/GUTI reallocation 9.2.1.1.7 Attach/Success/List of equivalent PLMNs in the ATTACH ACCEPT message X X -	8.6.8.5	Connection Establishment Failure logging / Logging and reporting / Reporting of Intra-	Х	Χ	-
8.6.11.1 RACH Optimisation	8.6.8.6	Connection Establishment Failure logging / Logging and reporting / Reporting of Inter-	Х	Χ	-
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9.2.1.1.2a AttachWithIMSI configured / Selected PLMN is neither the registered PLMN nor in the list of equivalent PLMNs / Success 9.2.1.1.7 Attach/Success/List of equivalent PLMNs in the ATTACH ACCEPT message X X X	02112				
9.2.1.1.7 Attach/Success/List of equivalent PLMNs in the ATTACH ACCEPT message X X -	9.2.1.1.2a	AttachWithIMSI configured / Selected PLMN is neither the registered PLMN nor in the list of		X	
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	9.2.1.1.7 9.2.1.1.7a	Attach Procedure / Success / List of equivalent PLMNs in the ATTACH ACCEPT message /	X	X	-

Test case	Description	FDD	TDD	T/F
0.0.4.4.71	Single Frequency operation			
9.2.1.1.7b 9.2.1.1.9	Attach / Success / native GUMMEI	X	X	-
	Attach/Rejected/IMSI invalid Attach/Rejected/Illegal ME	X	X	-
	Attach / Rejected / EPS services and non-EPS services not allowed	X	X	X
	Attach / Rejected / EPS services not allowed	X	X	X
	Attach/Rejected/PLMN not allowed	Х	Х	-
	Attach / Rejected / PLMN not allowed / Single Frequency operation	Х	Х	-
	Attach/Rejected/Tracking area not allowed	Х	X	-
	Attach/Rejected/Roaming not allowed in this tracking area	Х	Χ	-
	Attach / Rejected / Roaming not allowed in this tracking area / Single Frequency operation	X	Х	-
	Attach/Rejected/EPS services not allowed in this PLMN	X	X	-
	Attach / Rejected / EPS services not allowed in this PLMN / Single Frequency operation	X	X	
	Attach/Rejected/No suitable cells in tracking area Attach / Rejected / Not authorized for this CSG	X	X	-
	Attach/Abnormal case/Failure due to non integrity protection	X	X	-
	Attach/Abnormal case/Access barred because of access class barring or NAS signalling	X	X	_
0.2.1.1.20	connection establishment rejected by the network		^	
9.2.1.1.21	Attach/Abnormal case/Success after several attempts due to no network response	Х	Х	-
9.2.1.1.22	Attach/Abnormal case/Unsuccessful attach after 5 attempts	Х	Χ	-
9.2.1.1.23	Attach/Abnormal case/Repeated rejects for network failures	Χ	Χ	-
9.2.1.1.24	Attach/Abnormal case/Change of cell into a new tracking area	Χ	Χ	-
	Attach/Abnormal case/Mobile originated detach required	X	X	-
	Attach/Abnormal case/Detach procedure collision	X	X	-
9.2.1.1.27	Attach / Abnormal case / Network reject with Extended Wait Timer	X	X	-
	Attach / Success / IMS Attach / Rejected / IMEI not accepted	X	X	-
9.2.1.1.29	Attach / Abnormal case / ESM failure	X	X	-
9.2.1.2.1	Combined attach/Success/EPS and non-EPS services	X	X	_
	Combined attach / Success / SMS only	X	X	Х
	Combined attach procedure / Success / CS Fallback not preferred	X	X	X
9.2.1.2.1d	Combined attach procedure / Success / EPS and CS Fallback not preferred / data centric	Х	Х	Х
	UE			
9.2.1.2.2	Combined attach / Success / EPS services only / IMSI unknown in HSS	Χ	Х	-
9.2.1.2.3	Combined attach / Success / EPS services only / MSC temporarily not reachable	X	X	-
9.2.1.2.4	Combined attach/Success/EPS services only/CS domain not available	X	X	-
9.2.1.2.5 9.2.1.2.6	Combined attach / Rejected / IMSI invalid Combined attach / Rejected / Illegal ME	X	X	X
9.2.1.2.6	Combined attach / Rejected / Illegal ME Combined attach / Rejected / EPS services and non-EPS services not allowed	X	X	X
9.2.1.2.8	Combined attach / Rejected / EPS services not allowed Combined attach / Rejected / EPS services not allowed	X	X	X
9.2.1.2.9	Combined attach / Rejected / PLMN not allowed	X	X	X
9.2.1.2.10	Combined attach / Rejected / Tracking area not allowed	X	X	-
	Combined attach / Rejected / Roaming not allowed in this tracking area	Х	Х	Х
	Combined attach / Rejected / EPS services not allowed in this PLMN	Х	Х	-
9.2.1.2.13	Combined attach / Rejected / No suitable cells in tracking area	Х	Х	Х
9.2.1.2.14	Combined attach / Rejected / Not authorized for this CSG	Х	X	-
9.2.1.2.15	Combined attach / Abnormal case / Handling of the EPS attach attempt counter	Х	Χ	Χ
9.2.2.1.1	UE initiated detach/UE switched off	X	X	-
9.2.2.1.2	UE initiated detach/USIM removed from the UE	X	X	-
9.2.2.1.3	UE initiated detach/EPS capability of the UE is disabled UE initiated detach / detach for non-EPS services	X	X	Χ
9.2.2.1.4 9.2.2.1.6	UE initiated detach/Abnormal case/Local detach after 5 attempts due to no network	X	X	-
9.2.2.1.0	response	^	^	_
9.2.2.1.7	UE initiated detach/Abnormal case/Detach procedure collision	Χ	Χ	-
9.2.2.1.8	UE initiated detach/Abnormal case/Detach and EMM common procedure collision	Х	Χ	-
9.2.2.1.9	UE initiated detach/Abnormal case/Change of cell into a new tracking area	X	X	-
	UE initiated detach / Mapped security context	X	X	Х
9.2.2.2.1	NW initiated detach/Re-attach required	X	X	-
9.2.2.2.2	NW initiated detach/IMSI detach	X	X	-
9.2.2.2.14 9.2.3.1.1	NW initiated detach/Abnormal case/EMM cause not included Normal tracking area update/Accepted	X	X	-
	Normal tracking area update/Accepted Normal tracking area update/List of equivalent PLMNs in the TRACKING AREA UPDATE	X	X	-
J.L.J. 1.4	ACCEPT message	_ ^	^	_
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Test case	Description	FDD	TDD	T/F
9.2.3.1.5	Periodic tracking area update/Accepted	Х	X	-
9.2.3.1.5a	Periodic tracking area update / Accepted / Per-device timer	Х	Χ	-
9.2.3.1.6	Normal tracking area update / UE with ISR active moves to E-UTRAN	Х	Χ	Χ
9.2.3.1.8	UE receives an indication that the RRC connection was released with cause "load	Х	Х	-
0.2.2.4.0	balancing TAU required"		~	
9.2.3.1.9	Normal tracking area update / Correct handling of CSG list	X	X	-
9.2.3.1.9a 9.2.3.1.10	Normal tracking area update/NAS signalling connection recovery Normal tracking area update / Rejected / IMSI invalid	X	X	X
9.2.3.1.10	Normal tracking area update / Rejected / Illegal ME	X	X	X
9.2.3.1.11	Normal tracking area update / Rejected / Firegal Mic	X	X	X
9.2.3.1.12	Normal tracking area update/Rejected/UE identity cannot be derived by the network	X	X	-
9.2.3.1.14	Normal tracking area update/Rejected/UE implicitly detached	X	X	-
9.2.3.1.15	Normal tracking area update / Rejected / PLMN not allowed	X	X	Χ
	Normal tracking area update / Rejected / PLMN not allowed / Single Frequency operation	X	X	X
9.2.3.1.16	Normal tracking area update/Rejected/Tracking area not allowed	X	X	-
9.2.3.1.17	Normal tracking area update / Rejected / Roaming not allowed in this tracking area	X	X	Χ
9.2.3.1.18	Normal tracking area update / Rejected / EPS services not allowed in this PLMN	X	X	X
9.2.3.1.18a		Х	Х	Х
	Frequency operation			
9.2.3.1.19	Normal tracking area update/Rejected/No suitable cells in tracking area	Х	Χ	-
9.2.3.1.20	Normal tracking area update / Rejected / Not authorized for this CSG	Х	Х	-
9.2.3.1.20a	Normal tracking area update / Rejected / Congestion	Х	Х	-
9.2.3.1.22	Normal tracking area update / Abnormal case / access barred due to access class control	Х	Χ	-
	or NAS signalling connection establishment rejected by the network			
9.2.3.1.23	Normal tracking area update/Abnormal case/Success after several attempts due to no	Х	Х	-
	network response/TA belongs to TAI list and status is UPDATED			
9.2.3.1.25	Normal tracking area update/Abnormal case/Failure after 5 attempts due to no network	Χ	Χ	-
0.004.00	response			
9.2.3.1.26	Normal tracking area update/Abnormal case/TRACKING AREA UPDATE REJECT	X	X	-
9.2.3.1.27	Normal tracking area update/Abnormal case/Change of cell into a new tracking area	X	X	-
9.2.3.1.28	Normal tracking area update/Abnormal case/Tracking area updating and detach procedure collision	Х	X	-
9.2.3.2.1	Combined tracking area update/Successful	Х	Х	
9.2.3.2.1a	Combined tracking area update / Successful / Check of last visited TAI and handling of TAI	X	X	- X
9.2.3.2.1a	list, LAI and TMSI	^	^	^
9.2.3.2.1b	Combined tracking area update / Success / SMS only	Х	Χ	Χ
9.2.3.2.1c	Combined tracking area update / Success / CS Fallback not preferred	X	X	X
9.2.3.2.2	Combined tracking area update / Successful for EPS services only / IMSI unknown in HSS	X	X	-
9.2.3.2.3	Combined tracking area update / Successful for EPS services only / MSC temporarily not	X	X	Χ
	reachable			
9.2.3.2.4	Combined tracking area update / Successful for EPS services only / CS domain not	Х	Χ	-
	available			
9.2.3.2.5	Combined tracking area update / Rejected / IMSI invalid	Χ	Χ	Χ
9.2.3.2.6	Combined tracking area update / Rejected / Illegal ME	Χ	Χ	Χ
9.2.3.2.7	Combined tracking area update / Rejected / EPS services and non-EPS services not	Х	Х	X
	allowed			
9.2.3.2.8	Combined tracking area update / Rejected / EPS services not allowed	Χ	Χ	Χ
9.2.3.2.9	Combined tracking area update / Rejected / UE identity cannot be derived by the network	Х	Χ	Χ
9.2.3.2.10	Combined tracking area update / Rejected / UE implicitly detached	Χ	Χ	-
9.2.3.2.11	Combined tracking area update / Rejected / PLMN not allowed	Х	Χ	Χ
9.2.3.2.12	Combined tracking area update / Rejected / Tracking area not allowed	Х	X	-
9.2.3.2.13	Combined tracking area update / Rejected / Roaming not allowed in this tracking area	Х	X	Х
9.2.3.2.14	Combined tracking area update / Rejected / EPS services not allowed in this PLMN	X	X	Χ
9.2.3.2.15	Combined tracking area update / Rejected / No suitable cells in tracking area	X	X	-
9.2.3.2.16	Combined tracking area update / Rejected / Not authorized for this CSG	X	X	-
9.2.3.2.17	Combined tracking area update / Abnormal case / handling of the EPS tracking area updating attempt counter	Х	Х	-
9.2.3.3.1	First lu mode to S1 mode inter-system change after attach	Х	Х	Х
9.2.3.3.1	lu mode to S1 mode inter-system change after attach	X	X	X
3.2.3.3.2	T3412 in UTRAN and further intersystem change	^	^	^
9.2.3.3.3	Iu mode to S1 mode intersystem change / Periodic TAU and RAU / ISR activated, T34xx	Х	Х	Х
5.2.0.0.0	expired		^	^
9.2.3.3.4	First S1 mode to lu mode inter-system change after attach	Х	Х	Х
9.2.3.3.5	Periodic routing area update	X	X	X
3.2.0.0.0				

Test case	Description	FDD	TDD	T/F
9.2.3.3.5a	Periodic location update	Χ	Х	Χ
9.2.3.4.1	TAU/RAU procedure for inter-system cell reselection between A/Gb and S1 modes	X	X	-
9.3.1.1 9.3.1.3	Service request initiated by UE for user data Service request / Mobile originating CS fallback	X	X	-
9.3.1.4	Service request / Rejected / IMSI invalid	X	X	X
9.3.1.5	Service request / Rejected / Illegal ME	X	X	X
9.3.1.6	Service request / Rejected / EPS services not allowed	X	X	X
9.3.1.7	Service request/Rejected/UE identity cannot be derived by the network	Х	Χ	-
9.3.1.7a	Service request/Rejected/UE implicitly detached	Χ	Χ	-
9.3.1.12a	Extended service request / Rejected / CS domain temporarily not available	X	Χ	-
9.3.1.16	Service request/Abnormal case/Switch off	Χ	Χ	-
9.3.1.17	Service request/Abnormal case/Procedure collision	X	X	-
9.3.1.18	Service request / Rejected / Not authorized for this CSG	X	X	-
9.3.2.1	Paging procedure	X	X	
9.3.2.2 9.3.2.2a	Paging for CS fallback/Idle mode Paging for CS fallback/Connected mode	X	X	-
9.4.1	Integrity protection/Correct functionality of EPS NAS integrity algorithm/SNOW3G	X	X	
9.4.2	Integrity protection/Correct functionality of EPS NAS integrity algorithm/AES	X	X	-
9.4.3	Ciphering and deciphering/Correct functionality of EPS NAS encryption algorithm/SNOW3G	X	X	-
9.4.4	Ciphering and deciphering/Correct functionality of EPS NAS encryption algorithm/AES	Х	Х	-
9.4.5	Integrity protection / Correct functionality of EPS NAS integrity algorithm / ZUC	Х	Х	-
9.4.6	Ciphering and deciphering / Correct functionality of EPS NAS encryption algorithm / ZUC	Χ	Χ	-
10.2.1	Dedicated EPS bearer context activation/Success	Х	Χ	
10.3.1	EPS bearer context modification/Success	X	X	-
10.4.1	EPS bearer context deactivation/Success	X	X	-
10.4.2 10.5.1	EPS bearer context deactivation / Re-establishment UE requested PDN connectivity procedure accepted by the network	X	X	-
10.5.1	UE requested PDN connectivity procedure not accepted	X	X	
10.5.4	UE requested PDN connectivity procedure not accepted UE requested PDN connectivity not accepted / Network reject with Extended Wait Timer	X	X	_
10.6.1	UE requested PDN disconnect procedure accepted by the network	X	X	-
10.7.1	UE requested bearer resource allocation, accepted by the network/New EPS bearer context	Х	Х	-
10.7.2	UE requested bearer resource allocation accepted by the network/Existing EPS bearer	Х	Х	-
10.7.3	context UE requested bearer resource allocation not accepted by the network	X	Х	_
10.7.4	UE requested bearer resource allocation/Expiry of timer T3480	X	X	-
10.7.5	UE requested bearer resource allocation / BEARER RESOURCE ALLOCATION REJECT	X	X	-
101110	message including cause #43 "unknown EPS bearer context"	, ,	, ,	
10.8.1	UE requested bearer resource modification accepted by the network/New EPS bearer context	Х	Х	-
10.8.2	UE requested bearer resource modification accepted by the network/Existing EPS bearer	Х	Х	-
10.8.3	Context UE requested bearer resource modification not accepted by the network	Х	Х	-
10.8.4	UE requested bearer resource modification / Cause #36 "regular deactivation"	X	X	-
10.8.5	UE requested bearer resource modification / BEARER RESOURCE MODIFICATION	X	X	-
	REJECT message including cause #43 "unknown EPS bearer context"			
10.8.6	UE requested bearer resource modification / Collision of a UE requested bearer resource modification procedure and EPS bearer context deactivation procedure	Х	Х	-
10.8.7	UE requested bearer resource modification / Expiry of timer T3481	Х	Χ	-
10.9.1	UE routing of uplinks packets	X	X	-
11.1.1	MT-SMS over SGs/Idle mode	Х	Χ	-
11.1.2	MT-SMS over SGs/Active mode	X	Х	-
11.1.3	MO-SMS over SGs/Idle mode	Χ	Χ	-
11.1.4	MO-SMS over SGs/Active mode	X	X	-
11.1.5	Multiple MO-SMS over SGs / Idle mode	X	X	-
11.1.6 11.2.1	Multiple MO-SMS over SGs / Active mode Emergency bearer services / Normal cell / NORMAL-SERVICE / Local Emergency	X	X	-
11.2.1	Numbers List sent in the Attach / PDN connect new emergency EPS bearer context /	X	Α	-
11.2.2	Service request / Emergency PDN disconnect Emergency bearer services / Normal cell / LIMITED-SERVICE / Attach / PDN connect /	Х	Х	-
	Service request / PDN disconnect / Detach / Temporary storage of EMM information			
11.2.3	Emergency bearer services / CSG cell / LIMITED-SERVICE / Attach / Security mode control	Χ	Χ	-
	procedure without prior authentication / PDN connect / Service request / PDN disconnect /			
11 2 4	Detach upon UE switched off / Temporary storage of EMM information	~	~	
11.2.4	Emergency bearer services / Normal cell / NO-IMSI / Attach / No EPS security context /	Χ	Χ	-

Test case	Description	FDD	TDD	T/F
	PDN connect / Service request / Timer T3412 expires			
11.2.5	Emergency bearer services / Normal cell / NORMAL-SERVICE / Local Emergency Numbers List NOT sent in the Attach / PDN connect new emergency EPS bearer context / Authentication SQN code failure - MME aborts authentication continues using current security context / Service request / Emergency PDN disconnect	Х	Х	-
11.2.8	Attach for emergency bearer services / Rejected / No suitable cells in tracking area / Emergency call using the CS domain / UTRA or GERAN	Х	Χ	Х
11.2.10	LIMITED-SERVICE / EPS does not support IMS Emergency / Emergency call using the CS domain	Х	Х	Х
11.2.11	LIMITED-SERVICE / Inter-system mobility / E-UTRA to UTRA CS / SRVCC Emergency Call Handover to UTRAN	Х	Х	Х
12.2.1	Data transfer of E-UTRA radio bearer combinations 1, 3, 6 and 9	Х	Χ	-
12.2.2	Data transfer of E-UTRA radio bearer combinations 2, 4, 7 and 10	Х	Х	-
12.2.3	Data transfer of E-UTRA radio bearer combinations 5, 6, 8, 11 and 12	Х	Х	-
12.2.4	Data transfer of E-UTRA radio bearer combination 13	X	Х	-
12.3.1	Data transfer of E-UTRA radio bearer combinations 1, 3, 6 and 9 / MIMO	Х	Х	-
12.3.2	Data transfer of E-UTRA radio bearer combinations 2, 4, 7 and 10 / MIMO	X	Χ	-
12.3.3	Data transfer of E-UTRA radio bearer combinations 5, 6, 8, 11 and 12 / MIMO	Χ	Χ	
12.3.4	Data transfer of E-UTRA radio bearer combination 13 / MIMO	Х	Χ	-
13.1.1	Activation and deactivation of additional data radio bearer in E-UTRA	Х	Х	
13.1.2	Call setup from E-UTRAN RRC_IDLE / CS fallback to UTRAN with redirection / MO call	Х	X	Х
13.1.2a	Call setup from E-UTRAN RRC_IDLE / CS fallback to UTRAN with redirection including System Information / MO call	Х	Х	Х
13.1.3	Call setup from E-UTRAN RRC_CONNECTED / CS fallback to UTRAN with redirection / MT call	Х	Х	Х
13.1.4	Call setup from E-UTRAN RRC_IDLE / CS fallback to UTRAN with handover / MT call	Χ	Χ	Χ
13.1.5	Call setup from E-UTRAN RRC_CONNECTED / CS fallback to UTRAN with handover / MO call	Х	Х	Х
13.1.7	Call setup from E-UTRA RRC_IDLE / CS fallback to GSM with redirection / MT call	Х	Χ	-
13.1.8	Call setup from E-UTRA RRC_CONNECTED / CS fallback to GSM with redirection / MO call	Х	Х	-
13.1.9	Call setup from E-UTRA RRC_IDLE / CS fallback to GSM with CCO without NACC / MO call	Х	Χ	-
13.1.10	Call setup from E-UTRA RRC_CONNECTED / CS fallback to GSM with CCO without NACC / MT call	Х	Х	-
13.1.15	Call setup from E-UTRAN RRC_IDLE / CS fallback to UTRAN with redirection / MT call / UTRAN cell is barred	Х	Х	Х
13.1.16	Emergency call setup from E-UTRAN RRC_IDLE / CS fallback to UTRAN with handover	Х	Χ	Х
13.1.17	Call setup from E-UTRAN RRC_IDLE / mobile originating 1xCS fallback emergency call to 1xRTT	Х	-	-
13.2.1	RRC connection reconfiguration/E-UTRA to E-UTRA	Х	Χ	-
13.3.1.1	Intra-system connection re-establishment/Radio link recovery while T310 is running	Х	Χ	-
13.3.1.2	Intra-system connection re-establishment/Re-establishment of a new connection when further data is to be transferred	Χ	Χ	-
13.3.1.3	RRC connection reconfiguration / Full configuration / DRB establishment	X	X	-
13.3.2.1	Inter-system connection re-establishment / E-UTRAN to UTRAN / Further data are to be transferred	Χ	Χ	Х
13.3.2.2	Inter-system connection re-establishment / E-UTRAN to GPRS / Further data are to be transferred	Х	Х	-
13.4.1.2	Inter-frequency mobility/E-UTRA to E-UTRA packet	Χ	Х	-
13.4.1.3	Intra-system mobility / E-UTRA FDD to E-UTRA TDD to E-UTRA FDD packet	Х	Χ	-
13.4.1.4	Inter-band mobility / E-UTRA to E-UTRA packet	Χ	Х	
13.4.1.5	RRC connection reconfiguration / Handover / Full configuration / DRB establishment	Χ	Χ	-
13.4.2.1	Inter-system mobility / E-UTRA to UTRA packet	Χ	Χ	Χ
13.4.2.4	Inter-system mobility / Service based redirection from UTRA to E-UTRA	Χ	Х	Χ
13.4.2.5	Inter-system mobility / Service based redirection from GSM/GPRS to E-UTRA	Χ	Χ	-
13.4.3.1	Inter-system mobility / E-UTRA voice to UTRA CS voice / SRVCC	Х		

Test case		FDD	TDD	T/F
13.4.3.2	Inter-system mobility / E-UTRA PS voice + PS data to UTRA CS voice + PS data / SRVCC	X		—
13.4.3.3	Inter-system mobility / E-UTRA voice to GSM CS voice / SRVCC	X	Χ	
13.4.3.4	Inter-system mobility / E-UTRA voice to UTRA CS voice / Unsuccessful case / Retry on old cell / SRVCC	Х		
13.4.3.5	Inter-system mobility / E-UTRA voice to GSM CS voice / Unsuccessful case / Retry on old cell / SRVCC	Х	Х	-
13.4.3.6	Inter-system mobility / E-UTRA PS voice + PS Data / HO cancelled / Notification procedure / SRVCC	Χ		Х
13.4.3.7	Inter-system mobility / E-UTRA voice to UTRA CS voice / aSRVCC / MO call	Χ		Х
13.4.3.8	Inter-system mobility / E-UTRA voice to UTRA CS voice / aSRVCC / MO call / Forked responses	Х		Х
13.4.3.9	Inter-system mobility / E-UTRA voice to UTRA CS voice / aSRVCC / MO call / SRVCC HO failure	Х	Х	Х
13.4.3.10	Inter-system mobility / E-UTRA voice to UTRA CS voice / aSRVCC / MT call	Х		Х
13.4.3.11	Inter-system mobility / E-UTRA voice to UTRA CS voice / aSRVCC / MT call / SRVCC HO failure	Х	Х	Х
13.4.3.13	Inter-system mobility / E-UTRA voice to UTRA CS voice / aSRVCC / MT call / User answers in PS domain / SRVCC HO cancelled	Х	Х	Х
13.4.3.14	Inter-system mobility / E-UTRA PS voice + PS data to UTRA CS voice + PS data / aSRVCC / MO call	Х		Х
13.4.3.15	Inter-system mobility / E-UTRA PS voice + PS data to UTRA CS voice + PS data / aSRVCC / MO call / SRVCC HO cancelled	Х		Х
13.4.3.16	Inter-system mobility / E-UTRA PS voice + PS data to UTRA CS voice + PS data / aSRVCC / MT call	Х		Х
13.4.3.18	Inter-system mobility / E-UTRA PS voice + PS data to UTRA CS voice + PS data / bSRVCC / MO call	Х		
13.4.3.19	Inter-system mobility / E-UTRA PS voice + PS data to UTRA CS voice + PS data / bSRVCC / MO call / SRVCC HO cancelled	Х		Х
13.4.3.20	Inter-system mobility / E-UTRA voice to UTRA CS voice / bSRVCC / MO call / SRVCC HO failure	Х		Х
13.4.3.21	Inter-system mobility / E-UTRA PS voice to GSM CS voice / bSRVCC / MO call	Χ	Χ	-
13.4.3.22	Inter-system mobility / E-UTRA PS voice to GSM CS voice / bSRVCC / MO call / SRVCC	Χ	Χ	-
13.4.3.23	HO cancelled Inter-system mobility / E-UTRA voice to GSM CS voice / bSRVCC / MO call / SRVCC HO	Х	Х	-
	failure			
13.4.3.24	Inter-system mobility / E-UTRA voice to GSM CS voice / aSRVCC / MO call	Х	Χ	-
13.4.3.25	Inter-system mobility / E-UTRA voice to GSM CS voice / aSRVCC / MO call / Forked responses	Х	Х	-
13.4.3.26	Inter-system mobility / E-UTRA voice to GSM CS voice / aSRVCC / MO call / SRVCC HO failure	Х	Х	-
13.4.3.27	Inter-system mobility / E-UTRA voice to GSM CS voice / aSRVCC / MT call	X	X	-
13.4.3.28	Inter-system mobility / E-UTRA voice to GSM CS voice / aSRVCC / MT call / SRVCC HO failure	Х	Х	-
13.4.3.30	Inter-system mobility / E-UTRA voice to GSM CS voice / aSRVCC / MT call / User answers in PS domain/ SRVCC HO cancelled	Х	Χ	-
13.4.4.1	Pre-registration at 1xRTT and Cell reselection / 1x Zone Registration	Χ	-	-
13.4.4.2	Pre-registration at 1xRTT and Cell reselection / 1x Ordered Registration	Х		
13.4.4.5	Pre-Registration at 1xRTT / Power Down Registration	Χ	-	-
14.1	ETWS reception in RRC_IDLE state / Duplicate detection	X		-
14.2	ETWS reception in RRC_CONNECTED state / Duplicate detection	Χ		-
17.1.1	MCCH information acquisition/ UE is switched on	Χ	Х	-
17.1.2	MCCH information acquisition/UE cell reselection to a cell in a new MBSFN area	X	X	-
17.1.3	MCCH information acquisition/UE handover to a cell in a new MBSFN area	X	X	-
17.1.4	MCCH information acquisition/ UE is receiving an MBMS service	X	X	-
17.1.5	MCCH information acquisition/UE is not receiving MBMS data	X	X	-
17.2.1	UE acquire the MBMS data based on the SIB13 and MCCH message / MCCH and MTCH are on the same MCH	Х	Х	-
17.2.2	UE acquire the MBMS data based on the SIB13 and MCCH message / MCCH and MTCH are on different MCHs	Х	Х	-
17.2.3	UE receives the MBMS data when this data is in the beginning of the MSAP	Х	Х	-
17.2.4	Reception of PDCCH DCI format 0 and PHICH in MBSFN subframes.	X	Χ	-
17.3.1	MBMS Counting / UE not receiving MBMS service	X		-
17.3.2	MBMS Counting / UE receiving MBMS service	Х	X	-
17.4.1	Cell reselection to intra-frequency cell to start MBMS service	X	X	-
17.4.1a	Cell reselection to intra-frequency cell to continue MBMS service reception / Single	Χ	Χ	-

Test case	Description	FDD	TDD	T/F
	Frequency operation (inter-band neighbouring cell)			
17.4.2	Cell reselection to inter- frequency cell to start MBMS service	Χ	Χ	-
17.4.2a	Cell reselection to inter- band cell to start MBMS service reception	Х	Χ	-
17.4.3	Handover to inter-frequency cell to start MBMS service reception	Х	Χ	-
17.4.3a	Handover to inter-band cell to start MBMS service reception	Х	Χ	-
17.4.4	MBMS service continuity / Handover to inter-frequency cell / MBMS Interest Indication on	Х	Χ	-
	cell not broadcasting SIB15			i
17.4.5	Conditional retransmission of MBMS Interest Indication after handover	Х	Χ	-
17.4.6	MBMS service continuity / E-UTRAN release of unicast bearer	Х	Χ	-
17.4.7	MBMS Interest Indication after Radio Link Failure	Х	Х	-
17.4.8	Continue MBMS service reception after E-UTRAN release of unicast bearer	Х	Χ	-
18.1.1	PWS reception in RRC_IDLE state / Duplicate detection	Х	-	-
18.1.2	PWS reception in RRC_CONNECTED state / Duplicate detection	Х	-	-
	PWS reception in RRC_CONNECTED State/Power On	Х	-	-

The Test Suite in TTCN3 is contained in multiple ASCII files which accompany the present document.

Annex B (informative): Style Guides

B.1 Introduction

This annex is based on the style guide given in TS 34.123-3 [7], annex E but the language for UE conformance tests is TTCN-3.

B.2 General Requirements for TTCN-3 Implementations

The TTCN-3 implementation for UE conformance tests shall be based on the following general design considerations:

- Even though it is not reflected in TTCN-3 anymore in UE conformance tests ASPs and PDUs will still be distinguished. This has impact on type definitions and naming conventions.
- In general, templates for UE conformance tests shall be separated for sending and receiving.
- Modified templates shall not be modified again.
- All local variables shall be declared at the beginning of a function;
 the order of declarations is:
 - local constants
 - local variables
 - local timers
- The purpose of the test case implementation is conformance testing.
- The common RAN5 approval process needs to be considered.

The TTCN-3 implementation for UE conformance tests shall fulfil the following requirements.

The implementation shall:

- follow ES 201 873-1 [13] (TTCN-3 Core Language) and ES 201 873-4 [27] (TTCN-3 Operational Semantics);
- be independent from interface specifications like TRI (ES 201 873-5 [28]) and TCI (ES 201 873-6 [29]) as well as from proprietary approaches;
- not use or rely on tool dependent features;
- support maintainability and extendibility;
- follow the naming conventions as defined below.

Further requirements:

- Usage of external functions should be avoided.
- Type definitions:
 - Existing ASN.1 type definitions contained in protocol specifications are imported from the respective standards. All other type definitions shall be done within TTCN-3.

B.3 Naming Conventions

Even though these are being used for TTCN-3 the naming conventions provided in the present document are mainly backward compatible to TTCN-2 as defined in TS 34.123-3 [7].

B.3.1 Prefixes and Restrictions for TTCN-3 Objects

Table B.3.1: Prefixes used for TTCN-3 objects

TTCN object	Initial Letter	Prefix/ Postfix	Comment
TTCN module	upper case	(none)	
TTCN group	upper case	(none)	
function parameter	upper case	p_	
function running on a component	upper case	f	
local function (tree) not to be used by other modules	upper case	fl_	local function not to be used by other modules
external function	upper case	fx_	
altstep	upper case	a_	(including defaults)
test case selection expression			name as specified in TS 36.523-2 [2] shall be used
global constant	upper case	tsc_	(see note 1)
local constant	upper case	const_	local constant being defined in a function
Enumerated		(none)	there are no restrictions regarding enumerated types
type definition	upper case	_Type	(see note 7)
local variable	upper case	V_	(see note 6)
global (component) variable	upper case	VC_	(see note 2)
port type	upper case		
port name	upper case		
local timer	upper case	t_	
ASP template	upper case	cas_ cads_ car_ cadr_	send ASP modified (derived) send ASP receive ASP modified (derived) receive ASP
PDU template	upper case	cs_ cds_ cr_ cdr_	send PDU modified (derived) send PDU receive PDU modified (derived) receive PDU (see note 3)
CM template	upper case	cms_ cmr	send coordination message receive coordination message
Template (neither ASP nor PDU nor CM)	upper case	cs_ cds_ cr_ cdr_ cdr_	send template modified (derived) send template receive template modified (derived) receive template templates for IEs used in both directions (see note 5)
test suite parameter (PICS)	upper case	pc_	(see note 8)
test suite parameter (PIXIT)	upper case	px_	(see note 8)
test case		TC_	(see note 4)

- NOTE 1: Global constants may be defined differently in imported modules (e.g. without any prefix and with lower case initial letter).
- NOTE 2: Global variables or timers are those defined within the TTCN-3 components. They are visible to all the functions run in the component.
- NOTE 3: Base template may have a second prefix:
 - 508: PDU as defined in TS 36.508 [3];
 - 108: PDU as defined in TS 34.108 [8].
- NOTE 4: Test case names will correspond to the clause in the prose that specifies the test purpose. E.g. TC_8_1.
- NOTE 5: Applicable only in case of "quasi-constant" definitions, e.g. to define a (constant) random pattern to be used for sending and receiving when the UE is configured in loopback mode.
- NOTE 6: Counter variables do not need to have a prefix.
- NOTE 7: Exceptions for type definitions:
 - ASP names are fully upper case letters and typically have postfix "_REQ", "_CNF" or "_IND".
 - RRC protocol type definitions are extracted and imported from TS 36.331 [19]/TS 25.331 [36] and are therefore out of scope.
 - NAS protocol type definitions follow the names provided in the tabular notion of the standards and therefore do not have a "_Type" postfix.
- NOTE 8: For clarification an additional postfix _FDD/_TDD can be added.
- B.3.2 Void
- B.3.3 Void

B.3.4 Identifiers consisting of more than one Name

When identifiers are a concatenation of several words the words shall start with capital letters:

Further details are described in TS 34.123-3 [7], clause E.2.1.

B.4 Implementation Issues

B.4.1 Control part

Even though the control part may not be used in a test campaign but be overruled by the test management system it is used to provide the following information:

- All test cases contained in the test suite.
- For each test case:
 - Test case selection expression.

For maintenance reasons it shall be possible to generate the control part automatically by an appropriate tool.

B.4.2 Top Level Test Case Definitions

The top level test case definitions run on the MTC exclusively. The tasks of these test case definitions are generally the same for each test case:

- Start guard timer.
- Create PTCs.
- Connect PTCs.

- Start PTCs.
- Wait for PTCs having finished.

Additionally the MTC may host the upper tester but this is left open to implementation.

For maintenance reasons it shall be possible to generate the top level test case definitions defined for the MTC automatically by an appropriate tool. To achieve this, the name of a function to be started on particular PTC need derived from the test case name:

e.g. the function for PTC_A in test case TC_XX_YY_ZZ shall be f_TC_XX_YY_ZZ_A.

Cells are created in an off-state in the preambles of the corresponding PTCs while UE is in the switched off-state.

B.4.3 Inter Component Communication

Communication between PTCs or PTCs and the MTC can be done by messages or by build-in mechanisms as *done* and *kill*. For maintenance reasons and extendibility the inter component communication shall be encapsulated by TTCN-3 implementation.

B.4.4 Encoding Information

For UE conformance tests several encoding rules need to be applied by the TTCN-3 codec. Even though the codec is out of scope of the present document there are aspects with impact on TTCN-3 implementation depending on different type definitions.

Type definitions **Encoding** ASN.1 PER ASN.1 types used for RRC signalling ASN.1 BER ASN.1 types used by NAS protocols Tabular notated (see note) NAS types SMS Types Tabular notated (see note) DRB types Tabular notated (see note) DHCPv4 types Tabular notated (see note) ICMPv6 types Tabular notated (see note) DNS types Tabular notated (see note) GERAN types Tabular notated (see note) GPRS Padding see TS 34.123-3 [7], clause 6.10.2.9.1 GSM Spare Padding see TS 34.123-3 [7], clause 6.10.2.9.2 see TS 34.123-3 [7], clause 6.10.2.9.3 LowHigh Rule SACCHSysInfo Spare Padding see TS 34.123-3 [7], clause 6.10.2.9.5 TTCN-3 types not used at the air interface: Configuration of system simulator (no specific encoding required) Coordination between components Types used internally in TTCN-3 Tabular notated is performed by concatenation of all the present fields in the TTCN-3 template.

Table B.4.4-1

Encoding information may be provided and supported in TTCN-3 by grouping of type definitions and using the *encode* attribute.

B.4.5 Verdict Assignment

In general the following rules shall be applied.

Table B.4.5-1: Rules for verdict assignment

Verdict	Rule
Pass	shall be assigned for each step defined in the prose of the test case
Fail	shall be assigned when there is a non-conformant signalling by the UE within the test body
Inconc	shall be assigned outside the test body and when it is not unequivocal whether a misbehaviour is
inconc	caused by non-conformity of the UE signalling
Error	In case of obvious programming or parameterisation errors (e.g. missing case in a select statement)

B.4.5.1 PASS verdict assignment

The PASS verdicts are assigned by test cases or test case specific functions.

For generic test procedures as specified in 36.508 cl. 6.4.2, the preliminary pass is assigned directly after the procedure if all described in the procedure UL messages have been successfully received; this allows re-usage of these procedures for other purposes.

B.4.5.2 FAIL or INCONC verdict assignment

The verdict FAIL or INCONC can be assigned in test cases, in the test case-specific function, in the common functions and in the default behaviour.

Test case or test case-specific function:

In normal cases the common function f_EUTRA_SetVerdictFailOrInconc or f_UTRAN_SetVerdictFailOrInconc shall be used to assign FAIL or INCONC depending on whether it is in the test body or outside of the body.

An exception is made in the NITZ test cases: TC 9.1.5.1 in 3GPP TS 36.523-1 [1], TC 9.4.10, TC 12.2.1.13, TC 12.2.1.14, TC 12.2.1.15 in 3GPP TS 34.123-1 [2], in the UE capability test cases: TC 8.4.5.1 in 3GPP TS 36.523-1 [1] and TC 8.1.5.7 in 3GPP TS 34.123-1 [2]: the function f_SetVerdict is used in the test body to assign a FAIL verdict without stopping the execution of the test case.

If in test cases a verdict FAIL shall be assigned for watchdog timer timeouts this needs to be done explicitly.

Common Functions:

The majority of the common functions have no verdict assignment. If a verdicts assignment is required in some common functions, the common function f_EUTRA_SetVerdictFailOrInconc or f_UTRAN_SetVerdictFailOrInconc shall be used to assign FAIL or INCONC.

As an exception in the altstep a_EUTRA_RacingCond_AwaitRrcMessage an INCONC is assigned when the RRC message and the L1/MAC indication are in the wrong order.

B.4.5.3 Verdict assignment in default behaviour

The default behaviour handles all events not being handled in test cases or functions. Whether the verdict FAIL or INCONC to be assigned in the default behaviour it depends very much on the port where the event occurs.

Table B.4.5.3-1: Verdict assignment in default behaviour upon test ports

Test port	Message	Comment	Verdict			
SYS	SYSTEM_CTRL_CNF	unexpected confirmation	INCONC			
SYSIND	SYSTEM_IND:	unspecific error at SS	INCONC			
	Error indication	,				
	SYSTEM_IND:	(see note 1)	FAIL in the test body INCONC			
	MAC indication		outside the test body			
	SYSTEM_IND:	RachPreamble, SchedReq, UL_HARQ may	INCONC			
	L1 indication	be repeated by the UE in case of transmission				
		errors				
		(see note 1)				
SRB	SRB_COMMON_IND	Any unexpected L3 signalling (see note 3)	FAIL in the test body INCONC			
			outside the test body			
NASCTRL	NAS_CTRL_CNF	unexpected confirmation	INCONC			
DRB	DRB_COMMON_IND	L2 and combined tests (see note 2)	FAIL in the test body INCONC			
			outside the test body			
		pure signalling tests (see note 2)	INCONC			
UT	UT_COMMON_CNF	unexpected confirmation	INCONC			
NOTE 1: L1/MAC indications need to be enabled by the test case therefore they occur only when being relevant for the						
test case.						
NOTE 2: L2 a	NOTE 2: L2 and combined tests can be distinguished from pure signalling tests by additional global information					
controlled by f_EUTRA_TestBody_Set.						

NOTE 3: Layer 3 signalling by definition covers NAS and RRC signalling i.e. in general unexpected RRC messages will cause a FAIL in the body of any NAS test case as well as unexpected NAS messages will cause a FAIL in the body of any RRC test case.

Table B.4.5.3-2: Verdict assignment in default behaviour when time-out

	Timeout	Comment	Verdict	
any timer		unspecific timeout (see note)	INCONC	
NOTE:	Local timers of test cases or functions cannot be distinguished in the default behaviour.			

B.4.6 Default Behaviour

As experience from UMTS conformance tests there shall be one standard default behaviour for each component.

The following rules shall be applied:

- The standard default behaviour is activated during initialisation of the respective component. In normal cases a TTCN writer does not need to care about the default.
- In general there is only one default behaviour activated (i.e. the standard default behaviour).
- The standard default behaviour shall cover all ports and timers of the component.
- Whenever possible deviations from the standard default behaviour shall be implemented locally rather than by introducing a new default behaviour.

If for exceptional cases the standard default behaviour needs to be replaced by another default behaviour or another default behaviour needs to be activated on top, the TTCN writer is responsible:

- to avoid side effects;
- to restore the standard behaviour.

B.4.7 Templates for Sending and Receiving

Templates used for sending and receiving shall be separated in general:

- A template shall be either for sending or for receiving; this shall be reflected in the prefix of the identifier.
- Send templates shall use no receive templates and vice versa.
- All parameters of a send template shall be restricted to:
 - values;
 - template (value);
 - template (omit).
- Parameters of receive templates may allow wildcards. They can be:
 - values:
 - unrestricted template parameters;
 - template parameters restricted to be present.
- The only exception to the above rule is for "quasi-constant" definitions, as described in note 5 of table B.3.1. Otherwise, even when the same data is expected for sending and receiving templates, there shall be different templates and the following rule shall be applied.
- The receive template is assigned the send template e.g.:
 - template My_Type cr_Template := cs_Template
- This results in separate definitions for sending and receiving and improves maintainability.
- NOTE 1: For maintenance reasons, a send template shall never be derived from a receive template; and also a receive template shall never be assigned to a send template.
- NOTE 2: When a send template is assigned to a receive template, the formal parameters of the receive template must follow the rules of send templates (i.e. it shall only contain 'template (value)', 'template (omit)' or values only).

B.4.8 Logging

In general no explicit log statements shall be used. As an exception log may be used to report unexpected situations in TTCN-3 like fatal programming error.

B.4.8.1 Prose Step Numbers

Informative comments containing the prose steps defined in 36.523-1 should be implemented according to the following guidelines:

- They relate to the Expected Sequence steps in the prose
- They should not be placed in common functions
- They should only be placed in functions containing the test case body
- They should always start with //@siclog
- They should always finish with siclog@
- For single steps they should be in the form //@siclog "Step 1" siclog@
- For multiple steps (where several steps are completed in a common function), they should be in the form //@siclog "Steps 1 3" siclog@ i.e. Steps, space, first number, space, dash, space, second number

- They should be placed as close as possible, but always BEFORE, the line send/receive/function call
- The step number should also be included in any pass/fail verdict specified in the test case body
- If the step is listed as Void (or a group of steps) in the expected sequence, include the word Void in the comment.

Therefore the format of the comment should be:

//@siclog "Step[s] X [- Y] [Void]" siclog@

B.4.9 Top level comments

No restriction is specified for the top level comments.

B.4.10 Mapping of DRBs

LTE DRBs are mapped in TTCN according to the following rules:

- DRB1 is exclusively reserved for the default DRB and hence is always AM
- additional DRBs (AM or UM) may be assigned from DRB2 onward in any order
- there shall be no reconfiguration of a DRB from AM to UM or vice versa (unless a test case explicitly requires this); this especially means that DRB1 is never reconfigured to UM
- in general at the SS all DRBs needed by a test case may be configured at the beginning of the test case.

B.5 Modularisation

Even though there are no specific rules how to apply modularisation in general some principles can be defined:

- Maintainability and extendibility:
 - Maintainability and extendibility are essential for definition of the modular structure.
- Granularity of modules:
 - Cyclic imports are forbidden in TTCN-3; this has impact on the extendibility:
 - The granularity of modules shall not be too small.
 - Too big modules are hard to handle and may cause increase of compilation time:
 - The granularity of modules shall not be too rough.

NOTE: These are only vague principles since there is no way to define what small or huge modules are.

- General module structure:
 - The following modularisation can be applied independent from the internal structure:
 - Type definitions: TTCN-3, ASN.1.
 - Component definitions.
 - Common Templates: component dependent, component independent.
 - Common behaviour: MTC, PTCs.
 - Test case specific templates.
 - Test case specific behaviour.

- Whether or how these module groups can further be sub-divided is implementation dependent and therefore out of scope of the present document.

Annex C (informative): Design Principles

C.1 ASP Design

All ASPs consist of a common part (defined as a TTCN-3 type) and a specific part.

All ASPs sent by the SS include timing information (SFN, subframe number) in the common part.

Only one ASP is defined per direction per port, but this ASP may contain a union of several sub-ASPs in the specific part.

In general a small number of common ASPs cover all functionality, although other ASPs may be introduced to simplify TTCN-3 implementation and improve readability. Recurrent SS changes, such as power level changes, security activation and MAC scheduling are handled in dedicated ASPs. In addition, special purpose ASPs are used to control special behaviour, for example in L2 tests.

Configuration ASPs re-use ASN.1 definitions defined in the core specs.

No encoding rules are specified for the configuration ASPs; how they are encoded is left up to the SS implementation.

Configuration ASPs are 'procedure-based', rather than 'protocol layer-based' and reflect the state transitions of the SS. The same ASPs are used for reconfiguration and for initial configuration. In the case of reconfiguration the semantics of omit is to keep the configuration as it is; therefore when an IE in a configuration may be left out this is done e.g. by setting the respective field to a special value "None".

Data ASPs for sending/receiving peer-to-peer PDUs and user data all have different ASPs for the different SAPs.

The common part includes (at least):

- Timing Info:
 - SFN.
 - Subframe number (optional).
 - Which timing to use will depend on the test procedure and ASP purpose.
- Control Info:
 - Confirmation Flag.

The RRC ASN.1 IEs used in the specific part of the configuration ASPs:

- are imported using the granularity at the channel structure level or below;
- allow the ASP to be organised according to SS requirements;
- have a name that relates to SS configuration.

The SS specific IEs used in the specific part of the configuration ASPs (i.e. those elements not imported from the RRC ASN.1):

- use a naming convention such that they are easily distinguishable from the RRC ASN.1 IEs;
- are defined in TTCN-3 (i.e. not in ASN.1).

C.2 SS State Model

Figure C.2 shows the basic SS state model. It is basic in the sense that internally the SS may have more states; however, (re)configuration actions (state transitions in the model) should cause the SS to transit between the states defined below.

The following assumptions have been made about this state model:

- It presents a model of states in scope of a single cell. Hence, all configuration activities shall be performed in scope of a single cell.
- It depicts only SS states and SS (re)configuration actions between these states:
 - It does not show events which may trigger state transitions, e.g. L3 messages or procedures i.e. it is test case and L3 procedure agnostic.
 - It does not show any peer-to-peer (i.e. between SS and UE) messages.
- Triggers for state transitions are always SS configuration messages (ASPs) coming from the test suite:
 - L2 messages coming from the UE can only trigger internal SS sub-state transitions and semi-autonomous procedures.
- L1 and L2 procedures (e.g. random access procedure, scheduling, security activation steps) are semi-autonomously handled by the SS and after being pre-configured do not require interaction with the test case:
 - The majority of test cases do not need to worry about e.g. RA procedure and letting the SS handle it would greatly simplify test case definition and implementation.
 - There may be stringent time requirements in case of some procedures that can be hard to meet in a generic way in the test suite.
 - Semi-autonomous procedures should be flexibly configurable and should have a "manual" mode in which they are handled by the test suite in order to enable testing them. What is the desired level and way of control is FFS.

Most states are stationary states, i.e. the SS can stay in them for a long time or, after performing some procedures, returns to these states. However, there is one state (indicated by dashed lines) which is part of the AS security activation procedure and is transitional, i.e. the SS can only stay in it for a short time until a transition the next stationary state is triggered.

To make the diagram more readable, a separate state called *ANY_STATE* has been introduced, together with some transitions. It shows which transitions are allowed at any point of time in any state.

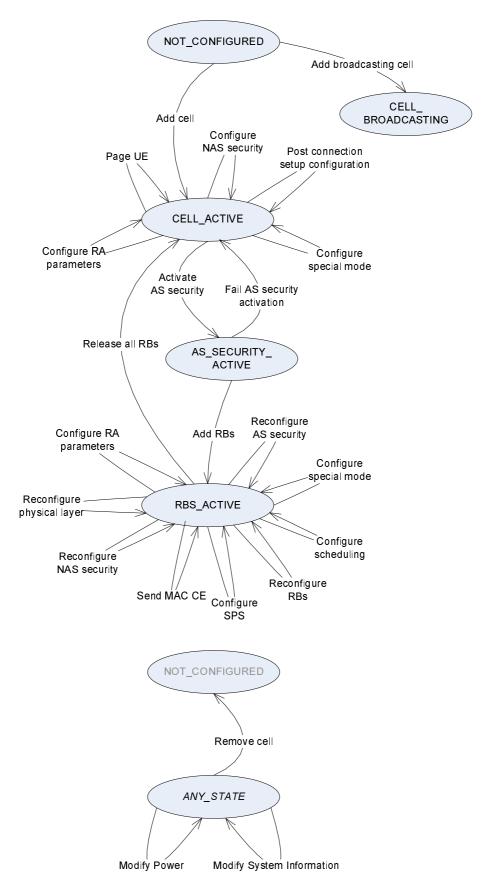


Figure C.2-1: Basic SS state model

Description of states.

Table C.2-1: Description of states

State	Description
NOT_CONFIGURED	The cell does not exist (is not configured) in the SS
CELL_BROADCASTING	Physical DL channels and signals configured
	Initial cell configuration done: freq, BW, antennas, MIMO mode, power, etc.
	Transport and logical channels configured for SI broadcast
	Cell is broadcasting SI and downlink signals
	NOTE 1: This type of cell is needed only to serve as a neighbouring cell for
	measurement purposes, where full cell configuration does not need to be
	specified. There is no need to be able to promote a broadcasting cell to a
	full cell.
	NOTE 2: It is currently open whether a separate cell type with limited
	PRACH/RACH Rx capability is needed - this depends on whether a
	justified use case is defined for such a cell type.
CELL_ACTIVE	Cell configured to send and receive data from UE (fully functional)
	SRB0 defined (default configuration specified in TS 36.508 [3])
	SRB1 defined (default configuration specified in TS 36.508 [3])
AS_SECURITY_ACTIVE	The SS has AS security (integrity protection and ciphering) active
	NOTE 3: The SS needs to autonomously take care of a temporary state in which
	integrity protection is applied to an outgoing SMC message, but ciphering
	is not.
RBS_ACTIVE	SRB2 and/or DRBs are configured for the UE (in addition to SRB0 and SRB1)
ANY_STATE	Represents any of the above states (except NOT_CONFIGURED)

Annex D (informative): TTCN-3 Definitions

D.1 EUTRA_ASP_TypeDefs

Type definitions for configuration of the system simulator;

Common design principles:

Semantics of OMIT: for all TTCN-3 type definitions used in ASPs omit means "keep as it is" =>

- on initial configuration in general all fields shall be provided
- no default values for fields are foreseen
- if necessary non-existence of information shall be explicitly configured (e.g. with a union of "no configuration" and "configuration parameters"
- fields within structures imported from the core spec are excepted from this rule

D.1.1 ASN1_Container

Definitions containing ASN.1 types for backward compatibility;

NOTE 1: PCCH_Message and BCCH_DL_SCH_Message already have a critical extension mechanism by RRC type definition

NOTE 2: BCCH BCH Message contains the MIB and therefore is considered to be not extendable

NOTE 3: "simple types" are not considered: C_RNTI, PhysCellId, CellIdentity, ARFCN_ValueEUTRA

AntennaInfoDedicated_R8andLater_Type

TTCN-3 Record Type			
Name	AntennalnfoDedicated_R8andLater_Type		
Comment			
antennalnfo	AntennaInfoDedicated		
antennalnfo_v9	AntennaInfoDedicated_v92	opt	
20	0		

AntennaInfoDedicated_R10andLater_Type

TTCN-3 Record Type			
Name	AntennalnfoDedicated_R10	andLa	ater_Type
Comment			
antennalnfo	AntennaInfoDedicated_r10		
antennaInfoUL	AntennaInfoUL_r10	opt	

CQI_ReportConfig_R8andLater_Type

TTCN-3 Record Type			
Name	CQI_ReportConfig_R8andLater_Type		
Comment			
cqi_ReportConf	CQI_ReportConfig		
ig			
	CQI_ReportConfig_v920	opt	
ig_v920			

CQI_ReportConfig_R10andLater_Type

TTCN-3 Record Type			
Name	CQI_ReportConfig_R10andLater_Type		
Comment			
cqi_ReportConf	CQI_ReportConfig_r10		NOTE: field 'csi-SubframePatternConfig-r10' is not relevant as
ig_r10			long as a cell is configured as SCell
cqi_ReportConf	CQI_ReportConfig_v1130	opt	
ig_v1130			

PUCCH_ConfigDedicated_R8andLater_Type

TTCN-3 Record	TTCN-3 Record Type			
Name	PUCCH_ConfigDedicated_R8andLater_Type			
Comment				
pucch_ConfigD edicated	PUCCH_ConfigDedicated			
pucch_ConfigD edicated_v102 0	PUCCH_ConfigDedicated_ v1020	opt		
pucch_ConfigD edicated_v113 0	PUCCH_ConfigDedicated_ v1130	opt		

PUSCH_ConfigDedicated_R8andLater_Type

TTCN-3 Record Type			
Name	PUSCH_ConfigDedicated_R8andLater_Type		
Comment			
pusch_ConfigD edicated	PUSCH_ConfigDedicated		in case of CA beta offset shall be the same for the PCell and the associated SCells
pusch_ConfigD edicated_v102 0	PUSCH_ConfigDedicated_ v1020	opt	optionally present for Rel 10 cells (normal or CA); in case of CA beta offset shall be the same for the PCell and the associated SCells
pusch_ConfigD edicated_v113 0	PUSCH_ConfigDedicated_ v1130	opt	

UplinkPowerControlCommon_R8andLater_Type

TTCN-3 Record Type			
Name	UplinkPowerControlCommon_R8andLater_Type		
Comment			
uplinkPowerCo	UplinkPowerControlCommo		
ntrolCommon	n		
uplinkPowerCo ntrolCommon_ v1020	UplinkPowerControlCommo n_v1020	opt	optionally present for Rel 10 cells (normal or CA); NOTE: 'p0-NominalPUCCH', 'deltaFList-PUCCH', 'deltaPreambleMsg3' and 'UplinkPowerControlCommon-v1020' are not relevant as long as a cell is configured as SCell
uplinkPowerCo ntrolCommonS Cell_v1130	UplinkPowerControlCommo nSCell_v1130	opt	only present when cell is configured as Rel 11 or later Scell

$Uplink Power Control Dedicated _R8 and Later_Type$

TTCN-3 Record	TTCN-3 Record Type			
Name	UplinkPowerControlDedicated_R8andLater_Type			
Comment				
uplinkPowerCo ntrolDedicated	UplinkPowerControlDedicat ed			
uplinkPowerCo ntrolDedicated_ v1020	UplinkPowerControlDedicat ed_v1020	opt	optionally present for Rel 10 cells (normal or CA); NOTE: field 'p0-UE-PUCCH' is not relevant as long as a cell is configured as SCell	
pathlossRefere nceLinking	SCellPathlossReferenceLinking Type	opt	NOTE: relevant only as long as a cell is configured as SCell	
uplinkPowerCo ntrolDedicated_ v1130	UplinkPowerControlDedicat ed_v1130	opt		

SoundingRS_UL_ConfigDedicated_R8andLater_Type

TTCN-3 Record	TTCN-3 Record Type		
Name	SoundingRS_UL_ConfigDedicated_R8andLater_Type		
Comment			
soundingRS_U L_ConfigDedic ated	SoundingRS_UL_ConfigDe dicated		
soundingRS_U L_ConfigDedic ated_v1020	SoundingRS_UL_ConfigDe dicated_v1020	opt	
soundingRS_U L_ConfigDedic atedAperiodic_r 10	SoundingRS_UL_ConfigDe dicatedAperiodic_r10	opt	

SchedulingRequestConfig_R8andLater_Type

TTCN-3 Record	TTCN-3 Record Type			
Name	SchedulingRequestConfig_R8andLater_Type			
Comment				
schedulingReq uestConfig	SchedulingRequestConfig			
schedulingReq uestConfig_v10 20	SchedulingRequestConfig_ v1020	opt		

TDD_Config_R8andLater

TTCN-3 Record Type			
Name	TDD_Config_R8andLater		
Comment			
R8	TDD_Config		
tdd_Config_v11 30	TDD_Config_v1130	opt	

TDD_Config_Type

TTCN-3 Union Type	
Name	TDD_Config_Type
Comment	
R8andLater	TDD_Config_R8andLater

AntennalnfoCommon_Type

TTCN-3 Union Type	
Name	AntennalnfoCommon_Type
Comment	
R8	AntennaInfoCommon

AntennalnfoDedicated_Type

TTCN-3 Union Type	
Name	AntennalnfoDedicated_Type
Comment	NOTE: acc. to Cond Al-r8/Al-r10 of PhysicalConfigDedicated 'antennalnfo'/'antennalnfo-v920' and 'antennalnfo-r10' are mutual exclusive
R8andLater	AntennalnfoDedicated R8andLat er_Type
R10andLater	AntennalnfoDedicated R10andLa ter Type

PHICH_Config_Type

TTCN-3 Union Type	
Name	PHICH_Config_Type
Comment	
R8	PHICH_Config

PRACH_Config_Type

TTCN-3 Union Type	
Name	PRACH_Config_Type
Comment	
R8	PRACH_Config

PUCCH_ConfigCommon_Type

TTCN-3 Union Type	
Name	PUCCH_ConfigCommon_Type
Comment	
R8	PUCCH_ConfigCommon

PUCCH_ConfigDedicated_Type

TTCN-3 Union Type	
Name	PUCCH_ConfigDedicated_Type
Comment	
R8andLater	PUCCH_ConfigDedicated_R8and Later_Type

PUSCH_ConfigCommon_Type

TTCN-3 Union Type		
Name	PUSCH_ConfigCommon_Type	
Comment		
R8	PUSCH ConfigCommon	

PUSCH_ConfigDedicated_Type

TTCN-3 Union Type	
Name	PUSCH_ConfigDedicated_Type
Comment	
R8andLater	PUSCH ConfigDedicated R8and
	<u>Later Type</u>

SoundingRS_UL_ConfigCommon_Type

TTCN-3 Union Type	
Name	SoundingRS_UL_ConfigCommon_Type
Comment	
R8	SoundingRS_UL_ConfigCommon

$Sounding RS_UL_Config Dedicated_Type$

TTCN-3 Union Type	
Name	SoundingRS_UL_ConfigDedicated_Type
Comment	
R8andLater	SoundingRS UL ConfigDedicate d_R8andLater_Type

SchedulingRequestConfig_Type

TTCN-3 Union Type	
Name	SchedulingRequestConfig_Type
Comment	
R8andLater	SchedulingRequestConfig_R8and
	<u>Later_Type</u>

CQI_ReportConfig_Type

TTCN-3 Union Type	
Name	CQI_ReportConfig_Type
Comment	NOTE: acc. to Cond CQI-r8/CQI-r10 of PhysicalConfigDedicated 'cqi-ReportConfig'/'cqi-ReportConfig-v920' and 'cqi-ReportConfig-r10' are mutual exclusive
R8andLater	CQI ReportConfig R8andLater T ype
R10andLater	CQI_ReportConfig_R10andLater_ Type

RACH_ConfigCommon_Type

TTCN-3 Union	TTCN-3 Union Type	
Name	RACH_ConfigCommon_Type	
Comment		
R8	RACH_ConfigCommon	In an active Scell, the SS uses the necessary parameters defined in RACH-ConfigCommonSCell-r11 and ignores additional parameters; The additional parameters will be applicable when the cell seizes to exist as scell

RACH_ConfigDedicated_Type

TTCN-3 Union T	уре
Name	RACH_ConfigDedicated_Type
Comment	
R8	RACH_ConfigDedicated

MeasGapConfig_Type

TTCN-3 Union T	уре
Name	MeasGapConfig_Type
Comment	
R8	MeasGapConfig

PDCP_Config_Type

TTCN-3 Union Type	
Name	PDCP_Config_Type
Comment	
R8	PDCP_Config

UL_AM_RLC_Type

TTCN-3 Union Type	
Name	UL_AM_RLC_Type
Comment	
R8	UL_AM_RLC

DL_AM_RLC_Type

TTCN-3 Union Type	
Name	DL_AM_RLC_Type
Comment	
R8	DL AM RLC

UL_UM_RLC_Type

TTCN-3 Union Type		
Name	UL_UM_RLC_Type	
Comment		
R8	UL UM RLC	

DL_UM_RLC_Type

TTCN-3 Union T	/pe
Name	DL_UM_RLC_Type
Comment	
R8	DL_UM_RLC

TTI_BundlingConfig_Type

TTCN-3 Union Type	
Name	TTI_BundlingConfig_Type
Comment	
R8	boolean

DRX_Config_Type

TTCN-3 Union Type	
Name	DRX_Config_Type
Comment	
R8	DRX_Config

SpsConfigurationDL_Type

TTCN-3 Union Type	
Name	SpsConfigurationDL_Type
Comment	
R8	SPS_ConfigDL.setup

SpsConfigurationUL_Type

TTCN-3 Union Type		
Name	SpsConfigurationUL_Type	
Comment		
R8	SPS_ConfigUL.setup	

UplinkPowerControlCommon_Type

TTCN-3 Union Type		
Name	UplinkPowerControlCommon_Type	
Comment		
R8andLater	UplinkPowerControlCommon_R8 andLater Type	

UplinkPowerControlDedicated_Type

TTCN-3 Union	Туре
Name	UplinkPowerControlDedicated_Type
Comment	
R8andLater	UplinkPowerControlDedicated R8
	andLater Type

CSI_RS_Config_Type

TTCN-3 Record Type		
Name	CSI_RS_Config_Type	
Comment		
R10	CSI_RS_Config_r10	

D.1.2 System_Configuration

Formal ASP Definitions for system configuration

SystemRequest_Type

TTCN-3 Union Type			
Name	SystemRequest_Type		
Comment	, <u> </u>		
Cell	CellConfigRequest_Type	configure/release a cell	
CellAttenuation	CellAttenuationList Type	power attenuation for one or several cells;	
List		all cells included in the list shall be changed at the same time;	
		all cells in the list shall reach the new cell power within a	
		maximum of 100ms (10 frames)	
		acc. to the tolerances given in TS 36.508	
		NOTE: In the common ASP part the CellId shall be set	
		- to the cell the timing information refers to if activation time shall	
		be applied	
		- to eutra_Cell_NonSpecific when there is no activation time	
RadioBearerLis	RadioBearerList_Type	configure/release one or several SRBs and/or DRBs	
t		NOTE: RBs are not configured in an SCell	
EnquireTiming	Null_Type	get SFN and sub-frame number for this cell	
AS_Security	AS Security Type	StartRestart/Release of AS security	
Sps	SpsConfig Type	to configure/activate or release semi-persistent scheduling	
Paging	PagingTrigger Type	to trigger SS to send paging at the given paging occasion (as	
		calculated in TTCN)	
L1MacIndCtrl	L1Mac IndicationControl Type	to configure SS to generate indications for L1/MAC events	
RicIndCtrl	Rlc_IndicationControl_Type	to configure SS to generate indications for RLC events	
PdcpCount	PDCP_CountReq_Type	to set or enquire PDCP COUNT for one ore more RBs	
PdcpHandover	PDCP_HandoverControlReq_Typ	to inform the target cell about the handover	
Control	<u>e</u>	T. O. (14/MAG)	
L1_TestMode	L1 TestMode Type	To Set L1/MAC in special Test modes e.g. DL CRC, PHICH etc	
PdcchOrder	RA PDCCH Order Type	to configure SS to transmit a PDCCH order with configured C-	
		RNTI to the UE	
		to trigger RA procedure; result in DCI Format 1A transmission as in TS 36.212, clause	
		5.3.3.1.3	
ActivateScell	ActivateScell_Type	to configure SS to transmit a MAC control Element to activate an	
Activateoceii	ActivateScell_Type	Scell	
MbmsConfig	MBMS Config Type	Configuration of PMCH/MCCH/MTCH for eMBMS	
PDCCH_MCC	PDCCH MCCH ChangeNotificati	To trigger SS to send MCCH change notification at the given	
H_ChangeNotif	on_Type	SFN/subframe (as calculated in TTCN)	
ication	<u> </u>	S. 1, Samuel (de salidated in 1 1 511)	
MSI_Config	MSI Config Type	Configuration of MSI in MBMS normal mode to be included by	
		the SS in the first subframe allocated to the MCH within the MCH	
		scheduling period;	
		uses MRB_ID option in routing info and logical channel ID is	
		omitted	
UE_Cat_Info	UE_CategoryInfo_Type	provides UE category info to SS to be used for determination of	
		Nsoft bits for rate matching	
		To be configured in SS after preamble in MAC TBS test cases	

SystemConfirm_Type

TTCN-3 Union Type			
Name	SystemConfirm_Type		
Comment	confirmations for system configuration;		
	in general to be sent after the configuration has been done		
Cell	Null Type	(no further parameters from SS)	
CellAttenuation	Null_Type	(no further parameters from SS)	
List		NOTE 1:	
		the confirmation shall be sent when all cells have changed power	
		levels	
		NOTE 2:	
		for the CellId in the common ASP part the same rules are applied	
		as for the SYSTEM REQ	
RadioBearerLis	Null Type	(no further parameters from SS)	
t			
EnquireTiming	Null Type	SFN and sub-frame number are included in the TimingInfo	
AS_Security	Null_Type	(no further parameters from SS)	
Sps	Null Type	(no further parameters from SS)	
Paging	Null_Type	normally not needed but defined for completeness	
L1MacIndCtrl	Null_Type	(no further parameters from SS)	
RIcIndCtrl	Null_Type	(no further parameters from SS)	
PdcpCount	PDCP CountCnf Type	as response to 'Get' a list is returned containing COUNT	
		information for the requested RBs	
PdcpHandover	Null Type	confirmation for PDCP handover control	
Control			
L1_TestMode	Null Type	confirmation for L1 test mode	
PdcchOrder	Null_Type	confirmation for PDCCH Order	
ActivateScell	Null Type	confirmation for ActivateScell	
MbmsConfig	Null_Type	confirmation for MbmsConfig	
PDCCH_MCC	Null Type	normally not needed but defined for completeness	
H_ChangeNotif			
ication			
MSI_Config	Null_Type	confirmation for explicit MSI Configuration	

SystemIndication_Type

TTCN-3 Union T	TTCN-3 Union Type			
Name	SystemIndication_Type			
Comment				
Error	charstring	indicates an error situation in SS; is not explicitly handled in TTCN but causes an INCONC due to default behaviour; an additional error code can be signalled in the common part of the ASP; SS shall raise an error in case of - Invalid TimingInfo for TDD - Contradiction of periodic UL grants and TDD configuration - Data scheduled for the same TTI does not fit into an available transport block (NOTE: additional cases may occur)		
RachPreamble	RachPreamble_Type	RACH preamble being sent by the UE		
SchedReq	Null Type	indication for scheduling request sent by the UE		
BSR	BSR Type	to report the Buffer/Extended Buffer status report being received		
UL_HARQ	HARQ Type	to report the UL HARQ as received on PUCCH[TTI] for corresponding DL transmission in TTI-x, where x is normally 4		
C_RNTI	C_RNTI	indicates C-RNTI being contained in a MAC PDU sent by the UE		
PHR	PHR Type	to report the Power headroom report received		
HarqError	HarqError Type	indicates detection of HARQ error: 1. HARQ CRC error for UL data 2. HARQ NACK from the UE unless SS is configured to report HARQ ACK/NACK		
RlcDiscardInd	RlcDiscardInd_Type	indicates e.g. discarded PDUs		
PeriodicRI	RI_Type	indicates periodic Rank Indicator (RI) reported by the UE on PUCCH or PUSCH; periodic CQI/PMI/RI Reporting is semi-statically configured at the UE by higher layers (see TS 36.213 clause 7.2.2); aperiodic reporting acc. to TS 36.213 clause 7.2.1 shall not be indicated NOTE: Acc. to TS 36.213 clause 7.2 aperiodic reporting has higher precedence than periodic reporting; => as working assumption the CQI request field in DCI format 0 is expected to be 0 for UL grants assigned by the SS i.e. aperiodic reporting acc. to TS 213 clause 7.2.1 does not happen		
EPHR	MAC CTRL ExtPowerHeadRoo m Type	indicates Extended Power headroom report reported by the UE		
CqiInd	Null Type	indicates periodic CQI reported by the UE - NOTE: Report CQI value is currently not required		
SrsInd	SRSInd Type	Indicates start or stop of Type 0 SRS reception on configured periodic SRS resources		

D.1.3 Cell_Configuration

Specific Info for Cell Configuration Primitive

D.1.3.1 Cell_Configuration_Common

EUTRA_ASP_TypeDefs: Constant Definitions

TTCN-3 Basic Types			
tsc_CellAttenuation	Attenuation Type	{Off:=true}	
_Off		, ,	

Cell_Configuration_Common: Basic Type Definitions

TTCN-3 Basic Types		
EUTRA_FDD_Info_Type	Null Type	no further parameters defined for FDD
CfiValue_Type	integer (13)	
AbsoluteCellPower_Type	integer (-1450)	absolute cell power (dBm)
InitialAttenuation_Type	Attenuation Type	Attenuation restricted to 'Off'
	(tsc CellAttenuation Off)	
ToRS_EPRE_Ratio_Type	integer (-350)	any-resource-element to RS ratio in dB (e.g.
		PDSCH-to-RS ratio; see TS 36.213, clause
		5.2)

CellConfigRequest_Type

TTCN-3 Union T	уре	
Name	CellConfigRequest_Type	
Comment		
AddOrReconfig ure	CellConfigInfo Type	for cell configuration: CellId: identifier of the cell to be configured RoutingInfo: None TimingInfo: Now (for initial configuration and for reconfiguration in general) ControlInfo: CnfFlag:=true; FollowOnFlag:=false (in general)
Release	Null Type	to remove a cell completely - CellId: identifier of the cell to be released; eutra_Cell_NonSpecific, in case all cells shall be released RoutingInfo: None TimingInfo: Now ControlInfo: CnfFlag:=true; FollowOnFlag:=false (in general)

CellConfigInfo_Type

TTCN-3 Record Type			
Name	CellConfigInfo_Type		
Comment			onfiguration or reconfiguration; ans 'keep configuration as it is'
Basic	BasicCellConfig_Type	opt	basic information for a cell (e.g. broadcasting)
Active	ActiveCellConfig Type	opt	add. configuration for active cell (i.e. cell being capable to receive RACH preamble)

CellConfigCapability_Type

TTCN-3 Enumerated Type		
Name	CellConfigCapability_Type	
Comment	capabilities af a cell acc. to the initial condition of a test case	
broadcastOnlyCell	no detection of RACH preables required; cell is only broadcasting	
minimumUplinkCell	detection of RACH preables required but not any further RX capability	
fullCell	full TX and RX capabilities	

CA_CellInitialConfig_Type

TTCN-3 Enumerated Type		
Name	CA_CellInitialConfig_Type	
Comment		
PCell	The cell when added as a CC in CA scenario for first time will be configured as an PCell	
Scell_Active	The cell when added as a CC in CA scenario for first time will be configured as an SCell, and when configured as Scell, it may be activated, 36.508 clause 6.3.4	
Scell_Inactive	The cell when added as a CC in CA scenario for first time will be configured as an SCell, and when configured as Scell, it will never be activated, 36,508 clause 6,3,4	

BasicCellConfig_Type

TTCN-3 Record	TTCN-3 Record Type			
Name	BasicCellConfig_Type			
Comment				
ConfigCapabilit v	CellConfigCapability Type	opt	mandatory for the initial configuration; to be omitted afterwards	
StaticCellInfo	StaticCellInfo_Type	opt	Common information which does not change during a test	
PhysicalLayerC onfigDL	PhysicalLayerConfigDL_Ty pe	opt	default settings regarding physical control channels: PCFICH, PHICH, PDCCH	
InitialCellPower	InitialCellPower Type	opt	reference cell power for the RS of each antenna in DL NOTE 1: the power of the RS of an antenna may be reduced by antenna specific configuration NOTE 2: in general the power may be adjusted on a per resource element basis => all physical channel/signal power settings shall be ajusted relatively to the RS; if there are more than one TX antennas each one may have its own attenuation; independently from those relative power settings the cell power can easily be adjusted by just changing the reference power	
BcchConfig	BcchConfig_Type	opt	configuration of BCCH/BCH; SS is triggered to configure RLC/MAC regardingly; BCCH data on the PDSCH is distiguished by the SI-RNTI PBCH: MIB; PDSCH: scheduling and resource allocation; SIBs	
PcchConfig	PcchConfig_Type	opt	configuration of PCCH/PCH; SS is triggered to configure RLC/MAC regardingly; PCCH data on the PDSCH is distiguished by the P-RNTI (needed even to modify SI => shall be configured for CELL_BROADCASTING)	
CA_CellInitialC onfig	CA CellInitialConfig Type	opt	capability of a cell when added as a CC in CA scenario. 1. Provided at the initial configuration of a cell in CA test cases; to be omitted afterwards; 2. Always omit for a cell which remains normal non CA cell	

ActiveCellConfig_Type

TTCN-3 Record	TTCN-3 Record Type			
Name	ActiveCellConfig_Type			
Comment				
C_RNTI	C_RNTI	opt	(pre-)configured C-RNTI; affects scrambling of PDSCH/PUSCH and CRC of PDCCH(s); shall be used implicitly in RACH procedure (i.e. as CE in RAR)	
PhysicalLayerC onfigUL	PhysicalLayerConfigUL Ty pe	opt	parameters for PRACH, PUCCH, PUSCH Omitted when no UL frequency is applied to the band	
RachProcedure Config	RachProcedureConfig_Typ e	opt	to configure the SS's behaviour for the RACH procedure Omitted when no UL frequency is applied to the band	
CcchDcchDtch Config	CcchDcchDtchConfig Type	opt	Parameters related to CCCH/DCCH/DTCH in UL and DL	
ServingCellCon fig	ServingCellConfig Type	opt	not present as long as the cell is 'normal' cell (i.e. does not act as a carrier component in CA); present to configure cell for CA (Pcell or SCell); in general at initial configuration 'ServingCellInfo' is omit; after sending/scheduling the RRCConnectionReconfiguration adding 1 or more cells for CA 'ServingCellInfo' is provided for the cell which gets Pcell and for the cell which gets SCell	

StaticCellInfo_Type

TTCN-3 Record Type			
Name	StaticCellInfo_Type		
Comment	Common information which (r therefore all fields are manda		ly) does not change during a test;
Common	CommonStaticCellInfo Typ		
Downlink	DownlinkStaticCellInfo Typ		
Uplink	UplinkStaticCellInfo Type	opt	NOTE: for TDD UL and DL are using the same parameters Omitted when no UL frequency is applied to the band

CommonStaticCellInfo_Type

TTCN-3 Record Type			
Name	CommonStaticCellInfo_Ty	/ре	
Comment	information common for UL	and DL	; all fields are mandatory
RAT	EUTRA_RAT_Type		FDD or TDD; FDD/TDD specific parameters
PhysicalCellId	PhysCellId		N(cell, ID): imported from core spec; -> cell specific reference signals (non-MBSFN) -> scrambling of all DL physical channels: PBCH, PCFICH, PDCCH, PHICH and PDSCH (together with nRNTI)
eNB_CellId	CellIdentity	opt	Placeholder for Cell identity (28 bits): eNB (20bits) and cell identity (8bits). The use of that field is for future usage and omit for the time being
EutraBand	FreqBandIndicator		NOTE: in 3G there are overlapping bands therefore the band needs to be provided; in EUTRA it is provided as well to be extendable in the future
CellTimingInfo	CellTimingInfo Type		

EUTRA_TDD_Info_Type

TTCN-3 Record	Туре	
Name	EUTRA_TDD_Info_Type	
Comment		
Configuration	TDD_Config_Type	TDD_Config acc. to RRC ASN.1 (acc. TS 36.331, clause 6.3.2)

EUTRA_HalfDuplexFDD_Info_Type

TTCN-3 Record Type		
Name	EUTRA_HalfDuplexFDD_Info_Type	
Comment	NOTE:	
	for the time being there is no test case or test configuration using half duplex FDD;	
	(type definition is used as place holder only)	

EUTRA_RAT_Type

TTCN-3 Union Type		
Name	EUTRA_RAT_Type	
Comment	specifies RAT type and frame struct	ure (TS 36.211, clause 4)
FDD	EUTRA FDD Info Type	
TDD	EUTRA TDD Info Type	
HalfDuplexFDD	EUTRA_HalfDuplexFDD_Info_Ty	
	pe	

CellTimingInfo_Type

TTCN-3 Record Type			
Name	CellTimingInfo_Type		
Comment	Cell Timing		
Tcell	integer (0307199)	frame duration Tf = 307200 * Ts = 10ms; System Time Unit Ts = 1/(15000 * 2048)	
SfnOffset	integer (01023)	(assuming 10 bit SFN)	

DownlinkStaticCellInfo_Type

TTCN-3 Recor	TTCN-3 Record Type			
Name	DownlinkStaticCellInfo_Type			
Comment	DL Static Info			
Earfcn	ARFCN_ValueEUTRA	DL-EARFCN as defined in TS 36.101		
Bandwidth	DI_Bandwidth_Type	N(DL, RB) = 6110 (6, 15, 25, 50, 75, 100)		
RBSize	EUTRA_RBSize_Type	may be skipped assuming normal sub-carrier spacing => N(RB, SC) = 12		
CyclicPrefix	EUTRA CyclicPrefix Type			

UplinkStaticCellInfo_Type

TTCN-3 Record Type			
Name	UplinkStaticCellInfo_Type		
Comment	UL Static Info		
Earfcn	ARFCN_ValueEUTRA	UL-EARFCN as defined in TS 36.101	
Bandwidth	Ul Bandwidth Type	N(DL, RB) = 6110 (6, 15, 25, 50, 75, 100)	
CyclicPrefix	EUTRA CyclicPrefix Type		

EUTRA_RBSize_Type

TTCN-3 Enumerated Type		
Name	EUTRA_RBSize_Type	
Comment	Resource Block Size in freq domain; N(RB,SC) is 12 for normal sub-carrier spacing	
n_RB_SC_12		
n_RB_SC_24		

EUTRA_CyclicPrefix_Type

TTCN-3 Enumerated Type			
Name	EUTRA_CyclicPrefix_Type		
Comment	NOTE: in DL extended cyclic prefix depends on sub-carrier spacing		
normal			
extended			

Modulation_Type

TTCN-3 Enumerated Type				
Name	Modulation_Type			
Comment	'unused' e.g. for 2nd codeword when there is no spatial multiplexing			
unused				
qpsk				
qam16				
qam64				

Attenuation_Type

TTCN-3 Union T	ype	
Name	Attenuation_Type	
Comment	attenuation of the reference power	
Value	integer (0144)	cell power reference power reduced by the given attenuation
		(value is in dB)
Off	Null_Type	even though in TS 36.508 -145dBm is given for a non suitable cell we specify an explicit "Off" value here

ToRS_EPRE_Ratios_Type

TTCN-3 Record Type			
Name	ToRS_EPRE_Ratios_Type		
Comment	RA and RB ratios according to see TS 36.213, clause 5.2		
RA	ToRS EPRE Ratio Type	opt	
RB	ToRS_EPRE_Ratio_Type	opt	

InitialCellPower_Type

TTCN-3 Record	TTCN-3 Record Type			
Name	InitialCellPower_Type			
Comment				
MaxReference Power	AbsoluteCellPower Type	maximum value of cell reference power (RS EPRE in dBm/15kHz as per TS 36.508, clause 4.3.4.1); a cell is initialised with this reference power; its value is the upper bound of the cell power during the test case		
Attenuation	InitialAttenuation Type	initial attenuation		

UE_CategoryInfo_Type

TTCN-3 Record Type			
Name	UE_CategoryInfo_Type		
Comment			
ue_Category	UE Category Type		
ue_Category_V 1020	UE Category v1020 Type	opt	

D.1.3.2 Downlink_Physical_Layer_Configuration

Downlink physical layer configuration:

- DL antenna configuration
- control region (PCFICH, PHICH, PDCCH)
- primary/secondary sync signals
- power control for physical channels and signals

D.1.3.2.1 Antenna_Configuration

Antenna_Configuration: Basic Type Definitions

TTCN-3 Basic Types		
AntennaPortId_Type	integer (0, 1, 2, 3, 4, 5, 6, 7, 8)	Antenna port 03: Cell specific reference signals Antenna port 4: MBSFN reference signals Antenna port 5: UE specific reference signals Antenna port 6: Positioning reference signals Antenna port 7: UE specific reference signals for dual layer beamforming Antenna port 8: UE specific reference signals for dual layer beamforming (Antenna ports in DL acc. to 36.211 cl. 6.2.1)

AntennaPortInfo_Type

TTCN-3 Record	TTCN-3 Record Type		
Name	AntennaPortInfo_Type		
Comment	NOTE:		
	for conformance tests it may n	ot be	necessary to consider propagation pathes for different antennas;
	=> fields of AntennaPortInfo_7	Гуре а	re used as place holders for future usage and are of
	'Dummy_Type' for the time be	ing	
PowerAttenuati	<u>Dummy Type</u>		even though eNb shall send with the same power on all antennas
on			at the UE there may be different signal strength
			=> RS will have reduced power
			NOTE: the EPRE ratios (e.g. PDSCH-to-RS ratio) are assumed
			to be equal for all antennas
PropagationDel	<u>Dummy Type</u>		signal from different antennas may have different propagation
ay			delay

AntennaPortConfig_Type

TTCN-3 Union Type			
Name	AntennaPortConfig_Type		
Comment			
AddOrReconfig	AntennaPortInfo_Type	add / re-configure antenna port	
ure			
Release	Null Type	release antenna port	

AntennaPort_Type

TTCN-3 Record Type		
Name	AntennaPort_Type	
Comment		
Id	AntennaPortId Type	
Config	AntennaPortConfig Type	

DownlinkAntennaGroupConfig_Type

TTCN-3 Record	TTCN-3 Record Type			
Name	DownlinkAntennaGroupConfig_Type			
Comment				
AntennaInfoCo mmon	AntennalnfoCommon Type	acc. to TS 36.331, clause 6.3.2; contains antennaPortsCount = an1, an2, an4; static parameter; will (normally) not be modified whilst a test; NOTE: information is redundant since number of antenna ports may implicitly be determined by the number of ports being configured		
AntennaPort	record length (14) of AntennaPort_Type	1, 2 or 4 antennas; from the UE's point of view each antenna may have a different power level and a different propagation delay		

D.1.3.2.2 Physical_Channels

PbchConfig_Type

TTCN-3 Record	TTCN-3 Record Type		
Name	PbchConfig_Type		
Comment			
RelativeTxPow	ToRS EPRE Ratios Type	opt	power ratio for PBCH's resource elements relative to the RS
er			

PcfichConfig_Type

TTCN-3 Record Type			
Name	PcfichConfig_Type		
Comment			
CfiValue	CfiValue Type	opt	control format indicator signalled on PCFICH
RelativeTxPow	ToRS EPRE Ratios Type	opt	power ratio for PFCICH's resource elements relative to the RS
er			

PhichConfig_Type

TTCN-3 Record	TTCN-3 Record Type			
Name	PhichConfig_Type			
Comment				
PhichConfig	PHICH_Config_Type	opt	parameters acc. TS 36.331, clause 6.3.2: phich-Duration, phich-Resource; may have impact on Cfi	
RelativeTxPow er	Tors Epre Ratios Type	opt	power ratio for PHICH's resource elements relative to the RS	

CCE_StartIndex_DL_UL_Type

TTCN-3 Record Type			
Name	CCE_StartIndex_DL_UL_Type		
Comment	CCE_St_Ind' or CCE_St_Ind'	acc. t	o table 7.1.1-1 in TS 36.523-3
CCE_StartInde	integer		
x_DL			
CCE_StartInde	integer		
v III			

CCE_StartIndexList_Type

TTCN-3 Record of Type				
Name	CCE_StartIndexList_Type			
Comment	describes PDCCH candidates for all sub-frames			
record length(10) of CCE StartIndex DL UL Type				

PdcchCandidate_Type

TTCN-3 Record Type			
Name	PdcchCandidate_Type		
Comment	CCE start indeces for a given	RNTI value acc. to table 7.1.1-1 in TS 36.523-3	
RNTI	C_RNTI	RNTI value as per table 7.1.1-1	
CCE_StartInde	CCE StartIndexList Type	CCE Start Indices corresponding to the RNTI	
xList			

PdcchCandidateList_Type

TTCN-3 Record of Type				
Name	Name PdcchCandidateList_Type			
Comment	list of RNTIs and their corresponding CCE Start Indices			
record of PdcchCandidate Type				

PdcchConfig_Type

TTCN-3 Record	TTCN-3 Record Type			
Name	PdcchConfig_Type			
Comment	UE performs blind detection for common and UE specific search spaces for different aggregation levels (PDCCH formats acc. TS 36.211, clause 6.8.1) content of the PDCCHs (DCI formats acc. TS 36.212, clause 5.3.3) shall be controlled together with scheduling and resource allocation			
CommonSearc hSpaceFormat	integer (2, 3)	opt	PDCCH format for common search space; acc. to TS 36.213, clause 9.1.1 only aggregation level 4 and 8 are allowed (i.e. PDCCH format 2 and 3	
UeSpecificSear chSpaceForma t	integer (0, 1, 2, 3)	opt	UE specific search space: corresponding aggregation levels 1, 2, 4, 8	
PdcchCandidat eList	PdcchCandidateList Type	opt	PDCCH candidate list acc. to table 7.1.1-1 in TS 36.523-3	
RelativeTxPow er	ToRS EPRE Ratios Type	opt	power ratio for PDCCH's resource elements relative to the RS	

PdschRelativeTxPower_Type

TTCN-3 Record	TTCN-3 Record Type			
Name	PdschRelativeTxPower_Type			
Comment	NOTE 1:			
	the power control for the PDS	CH is	assumed to be (semi-)static for signalling conformance tests acc.	
	to TS 36.323;			
		nnels a	and purposes with the PDSCH there may be different power	
	settings;			
	NOTE 2:			
	acc. to TS 36.213, clause 5.2 the EPRE ratio is different in time domain for OFDM symbols containing			
	or not containing reference signals;			
	this needs to be considered by SS			
RachResponse	ToRS EPRE Ratios Type	opt		
BcchOnPdsch	ToRS EPRE Ratios Type	opt		
PcchOnPdsch	ToRS_EPRE_Ratios_Type	opt		
CcchOnPdsch	ToRS EPRE Ratios Type	opt		
DcchDtchOnPd	ToRS_EPRE_Ratios_Type	opt		
sch				

PdschConfig_Type

TTCN-3 Record Type			
Name	PdschConfig_Type		
Comment			
RelativeTxPow	PdschRelativeTxPower_Ty	opt	
er	<u>pe</u>		

EpdcchConfig_Type

TTCN-3 Record	TTCN-3 Record Type			
Name	EpdcchConfig_Type			
Comment				
RelativeTxPow er	ToRS EPRE Ratios Type	opt	power ratio for ePDCCH's resource elements relative to the RS	
ePdcchCandid ateList	PdcchCandidateList Type	opt	ePDCCH candidate list acc. to tables in TS 36.523-3 clause 7.1.2	
EPDCCH_Conf ig	EPDCCH_Config_r11	opt		
Üse_ePDDCH	boolean	opt	If set to true, DCI formats corresponding to the C-RNTI/SPS-RNTI/Temp C-RNTI transmission in UL and DL shall be sent on ePDCCH. If set to false PDCCH shall be used. Initial value is false. Omit means 'keep configuration as it is'.	

D.1.3.2.3 Physical_Signals

PrimarySyncSignal_Type

TTCN-3 Record	Туре		
Name	PrimarySyncSignal_Type		
Comment			
RelativeTxPow	ToRS EPRE Ratios Type	opt	power ratio for PSS's resource elements relative to the RS
er			

SecondarySyncSignal_Type

TTCN-3 Record Type			
Name	SecondarySyncSignal_Type	9	
Comment			
RelativeTxPow	ToRS EPRE Ratios Type	opt	power ratio for PSS's resource elements relative to the RS
er			

SRS_UL_Config_Type

TTCN-3 Record Type			
Name	SRS_UL_Config_Type		
Comment			
Common	SoundingRS UL ConfigCo		
	mmon_Type		
Dedicated	SoundingRS UL ConfigDe		
	dicated_Type		

PhysicalLayerConfigDL_Type

TTCN-3 Record	TTCN-3 Record Type			
Name	PhysicalLayerConfigDL_Type			
Comment	all fields are declared as optional to allow single reconfigurations; in this case omit means "keep as it is"			
AntennaGroup	DownlinkAntennaGroupCon fig_Type	opt		
Pbch	PbchConfig Type	opt		
Pcfich	PcfichConfig Type	opt		
Phich	PhichConfig Type	opt		
Pdcch	PdcchConfig Type	opt		
Pdsch	PdschConfig Type	opt		
Pss	PrimarySyncSignal Type	opt		
Sss	SecondarySyncSignal Typ e	opt		
CSI_RS_Confi	CSI RS Config Type	opt	Mandatory to be configured in CA PCell; in other cells if present	
g			SS shall ignore it but shall apply the configuration if the cell is promoted as PCell later on.	
Pmch	PmchConfig_Type	opt	Same power offset for all PMCH carrying MCCH or MTCH	
Epdcch	EpdcchConfig_Type	opt		

D.1.3.3 Uplink_Physical_Layer_Configuration

Uplink physical channel configuration: PRACH, PUCCH, PUSCH and UL RS

PUCCH_Configuration_Type

TTCN-3 Record Type			
Name	PUCCH_Configuration_Type	е	
Comment			
Common	PUCCH ConfigCommon T	opt	
	<u>ype</u>		
Dedicated	PUCCH ConfigDedicated	opt	
	Type		

PUSCH_Configuration_Type

TTCN-3 Recor	TTCN-3 Record Type		
Name	PUSCH_Configuration_Type	PUSCH_Configuration_Type	
Comment			
Common	PUSCH ConfigCommon T	opt	
	<u>ype</u>		
Dedicated	PUSCH_ConfigDedicated_	opt	
	Type	-	

SS_TimingAdvanceConfig_Type

TTCN-3 Union T	TTCN-3 Union Type			
Name	SS_TimingAdvanceConfig_Type			
Comment				
InitialValue	RACH TimingAdvance Type	initial value corresponding to what is sent to the UE in RACH response (range acc. 11 bit value; 0 in normal cases)		
Relative	TimingAdvanceIndex_Type	timing advance command to adjust changes of timing advance acc. to TS 36.213, clause 4.2.3; (range acc. 6 bit value: -3132)		

PhysicalLayerConfigUL_Type

TTCN-3 Record	TTCN-3 Record Type			
Name	PhysicalLayerConfigUL_Type			
Comment	NOTE: For the time being there is no requirement to configure the SS with TPC-PDCCH-Config; In general SS is required to keep the UE's UL power constant			
Prach	PRACH Config Type	opt	parameters acc. TS 36.331, clause 6.3.2; in general depending on FDD/TDD (see TS 36.211, clause 5.7)	
Pucch	PUCCH Configuration Type	opt	parameters acc. TS 36.331, clause 6.3.2	
Pusch	PUSCH Configuration Typ e	opt	parameters acc. TS 36.331, clause 6.3.2 (including configuration of RS)	
TimingAdvance	SS TimingAdvanceConfig Type	opt	to adjust timing advance; normally timing advance is configured as 0 at the beginning and never changed during the test case; in some MAC test cases timing advance may be configured to a non-zero (11 bit value) at the beginning and modified by (6 bit) timing advance commands during the test	
SRS_UL_Confi	SRS_UL_Config_Type	opt	sounding reference symbol (SRS); -> TS 36.213, clause 8.2, TS 36.211, clause 5.5.3	
SR_Config	SchedulingRequestConfig Type	opt	PUCCH resources for scheduling requests acc. to TS 36.213 table 10.15; as signalled to the UE acc. to TS 36.331, clause 6.3.2	
CQI_ReportCo nfig	CQI ReportConfig Type	opt		
UplinkPowerCo ntrolCommon	UplinkPowerControlCommo n_Type	opt		
UplinkPowerCo ntrolDedicated	UplinkPowerControlDedicat ed Type	opt		

D.1.3.4 Common_MAC_Configuration

Transport channel and MAC related procedures and configuration

Common_MAC_Configuration: Basic Type Definitions

TTCN-3 Basic Types		
ImcsValue_Type	integer (031)	Modulation and coding scheme index coding
TimingAdvanceIndex_Typ	integer (063)	acc. to TS 36.321, clause 6.1.3.5 "Timing
е		Advance Command MAC Control Element"
		and TS 36.213, clause 4.2.3 "Transmission
		timing adjustments"
TimingAdvance_Period_T	integer (400, 600, 1020, 1530, 2040,	the values correspond to 80 % of
ype	4090, 8190)	TimeAlignmentTimer (acc. to TS 36.523-3,
		clause 7.2)
		(TS 36.331, clause 6.3.2: sf500, sf750,
		sf1280, sf1920, sf2560, sf5120, sf10240)
		rounded to nearest multiple of 10

RedundancyVersionListDL_Type

TTCN-3 Record of Type			
Name	RedundancyVersionListDL_Type		
Comment	NOTE:		
	in general the list shall contain maxHARQ-Tx elements;		
	if there are not enough elements specified SS shall raise an error;		
	per default the list is configured to 0,2,3,1,0 (TS 36.321, clause 5.4.2.2)		
record length (128) of RedundancyVersion Type			

UL_TransRetransmission_Type

TTCN-3 Union T	уре	
Name	UL_TransRetransmission_Type	
Comment		
NewTransmissi on	Null Type	new transmission of data with redundancy version RV=0 (acc. to TS 36.321 clause 5.4.2.2); NDI is toggled
ReTransmissio nAdaptive	RedundancyVersion_Type	SS assigns grant to requests retransmission of data with given redundancy version; NDI is not toggled
ReTransmissio nNonAdaptive	Null Type	place holder for non-adaptive retransmissions; SS does not send any grant

UL_TransRetransmissionList_Type

TTCN-3 Record of Typ	TTCN-3 Record of Type		
Name	UL_TransRetransmissionList_Type		
Comment	list of transmission and subsequent retransmissions:		
	in UL retransmissions are synchronous (every 8 TTIs for FDD);		
	independent from the HARQ_ModeList SS shall send grants for every adaptive retransmissions;		
	in case of non-adaptive retransmissions SS simply does not sent a grant (i.e.		
	ReTransmissionNonAdaptive elements are used to adjust timing of the adaptive		
	restransmissions only)		
record length (128) of <u>UL_TransRetransmission_Type</u>			

Imcs_Type

TTCN-3 Union Type		
Name	Imcs_Type	
Comment		
Value	ImcsValue Type	
NotUsed	Null Type	

ULGrant_Period_Type

TTCN-3 Union T	TTCN-3 Union Type			
Name	ULGrant_Period_Type			
Comment				
OnlyOnce	Null Type	grant is sent out only once; no period		
Duration	integer (1infinity)	duration of the grant period (TTI=1ms); for TDD the starting time and periodicity need to be chosen in TTCN so that the grants are assigned at valid subframes only; otherwise SS shall raise an error		

TransmissionRepetition_Type

TTCN-3 Union	Гуре	
Name	TransmissionRepetition_Type	
Comment		
Continuous	Null Type	
NumOfCycles	integer (1infinity)	

PUCCH_AutoSynch_Type

TTCN-3 Record	TTCN-3 Record Type			
Name	PUCCH_AutoSynch_Type			
Comment				
TimingAdvance	TimingAdvanceIndex Type			
TA_Period	TimingAdvance Period Ty		time period after which TA MAC control elements need to be	
	<u>pe</u>		automatically transmitted	
TA_Repetition	TransmissionRepetition_Ty		number of TA MAC control element repetitions to be	
	<u>pe</u>		automatically transmitted or 'Continuous'	

PUCCH_Synch_Type

TTCN-3 Union 7	TTCN-3 Union Type		
Name	PUCCH_Synch_Type		
Comment			
None	Null Type	no PUCCH Synchronisation applied	
Auto	PUCCH AutoSynch Type	SS automatically maintains PUCCH synchronization at UE If the cell is a - Rel 10 or earlier cell - or Rel 11 or later Pcell - or the Rel-11 or later scell with no STAG-ID configured, the TAG-ID is set to '00' i.e. P-TAG in Timing advance MCE If the cell is Rel 11 scell with STAG-ID configured, the configured stag-ID is used as TAG-ID in Timing advance MCE	

FreqDomainSchedulCommon_Type

TTCN-3 Record	TCN-3 Record Type			
Name	FreqDomainSchedulCommon_	Туре		
Comment	common type to specify restrictions for frequency domain scheduling by a start index and a maximum range of RBs; in general the resource allocation refers to virtual resource blocks: - format 1A (localised): FirstRbIndex refers to the first physical RB; the RBs are subsequent (upto MaxRbCnt RBs); may be applied for all kind of channels - format 1C (distributed): FirstRbIndex refers to the first virtual RB; the virtual RBs are subsequent (upto MaxRbCnt RBs) but mapped (distributed) to physical resource; typically applied on BCCH, PCCH and RAR - format 1 (localised): FirstRbIndex refers to the first physical RB; RBs are not consecutive; SS needs to provided bitmap of RBs (see TS 36.523-3) to cope with mapping of virtual resource allocation (format 1C) applied on other channels; typically there are either - all channels having format 1A (localised) - BCCH, PCCH and RAR having format 1C (distributed) + DTCH/DCCH having format 1			
FirstRbIndex	integer	index of the first (vitual) resource block in frequency domain; 0 N(UL/DL, RB) - 1; NOTE: DCI format 1C refers to a virtual RB allocation i.e. the resource block index; differs from the physical resource allocation where the RBs are distributed over the whole frequency bandwidth (TS 36.213, clause 7.1.6.3)		
MaxRbCnt	integer	max. number of resource blocks to be assigned; FirstRbIndex + MaxRbCnt <= N(UL/DL, RB); SS shall not assigned more than the given resource blocks to the respective channel (i.e. MaxRbCnt is the upper bound); if the configuration for a channel exceeds the total bandwidth this is a TTCN error (=> SS shall raise an error)		

FreqDomainSchedulExplicit_Type

TTCN-3 Record	TTCN-3 Record Type			
Name	FreqDomainSchedulExplicit_Type			
Comment	type used for explicit DL scheduling; Nprb is the exact number of RBs whereas in FreqDomainSchedulCommon_Type MaxRbCnt is the upper bound			
FirstRbIndex	integer		index of the first resource block in frequency domain; 0 N(UL/DL, RB) - 1	
Nprb	integer		number of resource blocks to be assigned;	

PdcchDciFormat_Type

TTCN-3 Enumerated	TTCN-3 Enumerated Type				
Name	PdcchDciFormat_Type				
Comment	DCI format acc. to TS 36.212, clause 5.3.3.1;				
	SS shall apply physical parameters accordingly as specified in TS 36.508, clause 4.3.6				
dci_0	physical layer parameters acc. TS 36.508 Table 4.3.6.1.1-1				
dci_1	physical layer parameters acc. TS 36.508 Table 4.3.6.1.2-1				
dci_1A	physical layer parameters acc. TS 36.508 Table 4.3.6.1.3-1				
dci_1B					
dci_1C	physical layer parameters acc. TS 36.508 Table 4.3.6.1.4-1				
dci_1D					
dci_2	physical layer parameters acc. TS 36.508 Table 4.3.6.1.5-1				
dci_2A	physical layer parameters acc. TS 36.508 Table 4.3.6.1.6-1				
dci_2B					
dci_2C					
dci_2D					
dci_3					
dci_3A					
dci_4					

PdcchResourceAllocation_Type

TTCN-3 Enumerated Type				
Name PdcchResourceAllocation_Type				
Comment	Resource allocation acc. TS 36.213, clause 7.1.6			
ra_0				
ra_1				
ra_2_Localised	=> physical and virtual RB index are identical			
ra_2_Distributed	=> virtual resource allocation			

MIMO_PrecodingBits_Type

TTCN-3 Union Type				
Name	MIMO_PrecodingBits_Type	MIMO_PrecodingBits_Type		
Comment	Number of bits for precoding inforr	mation acc. TS 36.212, table 5.3.3.1.5-3 and 5.3.3.1.5A-1		
None	Null Type	DCI 2A: 2 antenna ports at eNodeB (table 5.3.3.1.5A-1)		
Bit2	B2 Type	DCI 2A: 4 antenna ports at eNodeB (table 5.3.3.1.5A-1)		
Bit3	B3_Type	DCI 2: 2 antenna ports at eNodeB (table 5.3.3.1.5-3)		
Bit6	B6 Type	DCI 2: 4 antenna ports at eNodeB (table 5.3.3.1.5-3)		

MIMO_DciDlInfo_Type

TTCN-3 Record Type			
Name	MIMO_DciDlInfo_Type		
Comment	additional information for DL I	OCI in	case of MIMO (i.e. when a 2nd CW is specified)
RedundancyVe rsionList_2ndC W	RedundancyVersionListDL Type	opt	list of Redundancy version for 2nd code word; shall have the same length as RedundancyVersionList_1stCW; if omit, for the 2nd CW the same RedundancyVersionList shall be applied as for the 1st CW
CodeWordSwa pFlag	B1_Type		transport block to codeword mapping acc. to TS 36.212 Table 5.3.3.1.5-1
PrecodingBits	MIMO PrecodingBits Type		precoding information acc. TS 36.212, table 5.3.3.1.5-3 and 5.3.3.1.5A-1

DciDlInfoCommon_Type

TTCN-3 Record	TTCN-3 Record Type			
Name	DciDIInfoCommon_Type			
Comment	used for normal DL scheduling acc. to TS 36.523-3, clause 7.3			
Format	PdcchDciFormat Type	BCCH, PCCH and RACH Response: 1A or 1C (TS 36.213, clause 7.1) CCCH: 1A since transmission mode is not (may not be) configured at the UE yet (TS 36.213, clause 7.1) DTCH/DCCH: depending on transmission mode		
ResourceAlloc	PdcchResourceAllocation_	depends on DCI format, e.g. ra_2_Localised or		
Type	<u>Type</u>	ra_2_Distributed for DCI format 1A		
Modulation_1st CW	Modulation Type	max. modulation scheme for the 1st code word; depending on the amount of data a lower modulation scheme may be by SS but not a higher one; BCCH, PCCH and RACH Response: QPSK only		
Modulation_2n dCW	Modulation Type	modulation scheme for 2nd code word in case of spatial multiplexing; can be different than 1st code word (see TS 36.211, clause 6.3.2; TS 36.212, clause 5.3.3.1.5); 'unused' when there is no spatial multiplexing; NOTE: Acc. to 36.523-3 cl. 7.3.3.4 in normal mode MIMO shall not be used => for the time being Modulation_2ndCW is always "unused"		
FreqDomainSc hedul	FreqDomainSchedulComm on Type	index of 1st RB; max. number of RBs per TTI; NOTE: in case of DCI format 1C the first RB index has no meaning since distributed virtual resource blocks assigned in this case (TS 36.213, clause 7.1.6.3)		
RedundancyVe rsionList	RedundancyVersionListDL Type	list of Redundancy version to be used in case of retransmission; the number of elements in the list provides the maxHARQ-Tx		

DciDlInfoExplicit_Type

TTCN-3 Record	TTCN-3 Record Type			
Name	DciDIInfoExplicit_Type			
Comment	used for explicit DL schedulin	g acc.	to TS 36.523-3, clause 7.3	
Imcs_1stCW	Imcs_Type		MCS index of table 7.1.7.1-1 of TS 36.213	
Imcs_2ndCW	Imcs_Type		MCS index for the 2nd code word in case of MIMO;	
			'NotUsed' when MIMO is not used	
Format	PdcchDciFormat Type			
ResourceAlloc	<u>PdcchResourceAllocation</u>			
Type	Type			
FreqDomainSc	<u>FreqDomainSchedulExplicit</u>			
hedul	<u>Type</u>			
RedundancyVe	RedundancyVersionListDL		list of Redundancy version to be used in case of retransmission	
rsionList	Type		the number of elements in the list provides the maxHARQ-Tx	
MimoInfo	MIMO DciDIInfo Type	opt	shall be present when Imcs_2ndCW specifies a 2nd CW to be	
			used;	
			shall be omit when Imcs_2ndCW is 'NotUsed'	

DciDlInfo_Type

TTCN-3 Union T	TTCN-3 Union Type			
Name	DciDIInfo_Type			
Comment				
Auto	DciDlInfoCommon Type	SS shall chose the appropriate TBS up to the maximim number of resource blocks		
Explicit	DciDlInfoExplicit_Type	used in MAC or RAB tests where exact TBS needs to be specified		

DciUlInfo_Type

TTCN-3 Record	TTCN-3 Record Type			
Name	DciUlInfo_Type			
Comment				
Imcs	Imcs Type	MCS index of table 8.6.1-1 of TS 36.213		
TransRetransm issionList	UL TransRetransmissionLi st_Type	list of possible retransmissions and their redundancy versions (depending on being adapive or non-adaptive); the list shall - start with - "New Transmission" (normal case) or - "Adaptive Retransmission" (e.g. to request a retransmission even when the data has been acknowledged with a HARQ ACK) - end with "Adaptive Retransmission" (if there are retransmissions) NOTE1: TTCN implementation shall ensure that a reconfiguration is done not before the previous list has been fully processed NOTE2: for normal operation the list contains only one NewTransmission element (i.e. possible retransmissions are non-adaptive)		
FreqDomainSc	FreqDomainSchedulExplicit			
hedul	<u>Type</u>			

PeriodicGrant_Type

TTCN-3 Record Type			
Name	PeriodicGrant_Type		
Comment			
Period	ULGrant Period Type		time period after which UL Grant need to be automatically
			transmitted or 'OnlyOnce'
NoOfRepetition	TransmissionRepetition_Ty		number of UL Grant repetitions to be automatically transmitted or
S	<u>pe</u>		continuous repetition

UL_GrantConfig_Type

TTCN-3 Union T	уре	
Name	UL_GrantConfig_Type	
Comment		
OnSR_Recepti on	Null Type	SS tranmits UL Grant as configured by CommonDciInfoUL_Type at every reception of SR; to be used in non L2 Test
Periodic	PeriodicGrant_Type	SS tranmits UL Grant as configured by CommonDciInfoUL_Type periodically; to be used in L2 tests; MAC tests testing Grants might set the period as infinite and num grant as 1
None	Null Type	disable any grant transmission

D.1.3.5 Random_Access_Procedure

EUTRA_ASP_TypeDefs: Constant Definitions

TTCN-3 Basic Types					
tsc_RandomAccess ResponseListSize	integer	10	arbitrary value (needs to be extended, if necessary); in case of RACH in idle, UE will keep on making RACH attempts until t300 expires		
			=> number of PRACH preambles maybe even greater than maximum value of PREAMBLE_TRANS_MAX		

Random_Access_Procedure: Basic Type Definitions

TTCN-3 Basic Types			
RACH_TimingAdvance_T	integer (02047)	11 bit timing advance as used in RACH	
ype		response (absolute value)	

UplinkGrant_Type

TTCN-3 Record	TTCN-3 Record Type			
Name	UplinkGrant_Type			
Comment	TS 36.213, clause 6.2			
HoppingFlag	B1 Type	Hopping flag		
RB_Allocation	B10_Type	Fixed size resource block assignment		
ModAndCodSc	B4 Type	Truncated modulation and coding scheme		
heme				
TPC_Comman	B3 Type	TPC command for scheduled PUSCH		
d				
UL_Delay	B1 Type	UL delay		
CQI_Req	B1 Type	CQI request		

${\bf Contention Resolution_Contained RIcPdu_Type}$

TTCN-3 Union Type				
Name	ContentionResolution_ContainedRlcPdu_Type			
Comment				
RlcPdu	octetstring	octetstring of an RLC PDU containing e.g. the RRC Connection Setup; to be sent in the same MAC PDU as the MAC Contention Resolution Control Element		
None	Null_Type	MAC PDU containing the MAC Contention Resolution Control Element does not contain an RLC PDU (i.e. RRC Connection Setup is sent in another PDU)		

ContentionResolution_ContainedId_Type

TTCN-3 Union Type			
Name	ContentionResolution_ContainedId_Type		
Comment			
XorMask	ContentionResolutionId Type	When SS receives Contention Resolution ID from the UE, SS shall XOR it with the given mask and use this as Contention Resolution ID; this allows to get an unmatching Contention Resolution ID; in normal cases mask shall be set to tsc_ContentionResolutionId_Unchanged (i.e. the Contention Resolution ID remains unchanged)	
None	Null_Type	MAC Contention Resolution Control Element is not contained in the MAC PDU sent out as response on Msg3	

TCRNTI_ContentionResolutionMacPdu_Type

TTCN-3 Record	TTCN-3 Record Type			
Name	TCRNTI_ContentionResolutionMacPdu_Type			
Comment	NOTE:			
			Pdu (or both) shall not be 'none';	
	(if no Contention Resolution N	/lac Pd	du shall be sent,	
	TCRNTI_ContentionResolution	nCtrl_	Type.NoContResolID shall be used instead)	
ContainedId	ContentionResolution Cont		Either the Contention Resolution ID as received from the UE	
	ainedId_Type		or a modified Contention Resolution ID (XorMask !=	
			tsc_ContentionResolutionId_Unchanged)	
			or no Contention Resolution ID at all	
ContainedRlcP	ContentionResolution Cont		the MAC PDU containing the MAC Contention Resolution Control	
du	ainedRlcPdu_Type		Element may contain the RRC Connection Setup;	
			in this case the RRC PDU shall be completely encoded been	
			contained in an RLC PDU	

$TCRNTI_ContentionResolutionCtrl_Type$

TTCN-3 Union T	TTCN-3 Union Type		
Name	TCRNTI_ContentionResolutionCtrl_Type		
Comment	when the UE responds on a Random Access Response with a RRC Connection Request on CCCH and not with a C-RNTI SS shall assume initial Random Access Procedure (TS 36.300, clause 10.1.5.1), i.e. sends a ContentionResolutionId back to the UE		
MacPdu	TCRNTI ContentionResolutionMa cPdu_Type	MAC PDU containing the Contention Resolution ID and optionally an RRC PDU (RRC Connection Setup)	
MacPdu_CRC_	TCRNTI ContentionResolutionMa	same as MacPdu (see above),	
Error	<u>cPdu_Type</u>	but SS shall generate CRC error by toggling CRC bits;	
		no retransmissions shall be made as UE shall not send a NACK	
NoContResolID	Null_Type	SS shall not include contention resolution ID (i.e. no MAC PDU	
		shall be sent);	
		used for contention resolution fail case	

CRNTI_ContentionResolutionCtrl_Type

TTCN-3 Union T	TTCN-3 Union Type		
Name	CRNTI_ContentionResolutionCtrl_Type		
Comment	configuration for Random Access Procedure in RRC_CONNECTED (see TS 36.300, clause 10.1.5.1); when SS receives C-RNTI MAC element sent by the UE after Random Access Response, SS shall deal with the C-RNTI as specified in this structure		
AutomaticGrant	DciUlInfo Type	before expiry of the contention resolution timer SS shall automatically address PDCCH using C-RNTI as sent by the UE; the UL grant is specified acc. to DciUlInfo_Type	
None	Null Type	Used in case of dedicated preamble transmission or to simulate failure cases; SS shall not address PDCCH using C-RNTI => expiry of contention resolution timer on UE side	

ContentionResolutionCtrl_Type

TTCN-3 Union T	TTCN-3 Union Type		
Name	ContentionResolutionCtrl_Type		
Comment	NOTE: SS only needs to consider one kind of contention resolution at one time; in the initial configuration of a cell TCRNTI_Based shall be configured and the common assuption is that in RRC_CONNECTED normally there are no RACH procedures (i.e. no CRNTI_Based configuration needed)		
		cenarios CRNTI_Based shall be configured	
TCRNTI_Base	TCRNTI_ContentionResolutionCtr	TCRNTI based contention resolution (e.g. initial access),	
d	<u>l Type</u>	hence involves inclusion contention resolution identity in DL message 4 of RACH procedure	
CRNTI_Based	CRNTI_ContentionResolutionCtrl _Type	CRNTI based contention resolution (e.g. in case UE is being in RRC_CONNECTED): hence uplink message in step 3 (of RACH procedure) is followed by PDCCH transmission with UE C-RNTI to end procedure	

RapIdCtrl_Type

TTCN-3 Union Type		
Name	RapIdCtrl_Type	
Comment		
Automatic	Null_Type	SS shall automatically use same RAPID as received from the UE
Unmatched	Null Type	SS shall use RAPID being different from preamble sent by the UE; SS shall calculate this RAPID acc. to RAPID := (RAPID + 363) mod 64 if single RAR is transmitted in a MAC PDU then only 3 is added if multiple RAR's are transmitted in MAC PDU, then for first unmatched RAR 3 is added, second unmatched 4 is added, third unmatched 5 is added and so on

TempC_RNTI_Type

TTCN-3 Union T	TTCN-3 Union Type		
Name	TempC_RNTI_Type		
Comment			
SameAsC_RN TI	Null Type	in the RA response SS shall use the same C-RNTI as configured in ActiveCellConfig_Type; this is useful for initial random access	
Explicit	C_RNTI	in the RA response SS shall use different value as configured in ActiveCellConfig_Type; this can be used when the UE already is in RRC_CONNECTED to have a temporary C-RNTI different from the one used by the UE; NOTE: when the UE is not in RRC_CONNECTED there shall be no explicit temp. C-RNTI since then the UE would assume this value as C-RNTI	

$Random Access Response Parameters_Type$

TTCN-3 Record	TTCN-3 Record Type			
Name	RandomAccessResponseParameters_Type			
Comment	paramenters to control content of RAR sent to the UE			
Rapld	RapIdCtrl_Type	to control Random Access Preamble Id to be sent back to the UE; used in RAR MAC sub-header		
InitialGrant	UplinkGrant Type	initial UL grant		
TimingAdvance	RACH TimingAdvance Ty pe	timing advance: granularity of 0.52 micro sec (16*Ts); see TS 36.300, clause 5.2.7.3, TS 36.321, clause 6.1.3.5; NOTE: timing advance has impact not only on the RA procedure; SS in general needs to adjust its timing accordingly		
TempC_RNTI	TempC RNTI Type	NOTE: For initial Random Access Procedure at network (SS) side there is no temporary C-RNTI: network assigns the C-RNTI which is used by any UE as being temporary; the UE which 'wins' the contention resolution keeps the (temporary) C-RNTI; other UEs need to repeat the RACH procedure; => at the SS the TempC_RNTI shall be 'SameAsC_RNTI' For Random Access Procedure in RRC_CONNECTED state the NW assigns a temporary C-RNTI which is replaced by the one stored at the UE; => TempC_RNTI may be 'SameAsC_RNTI' (in this case temp. C-RNTI and C-RNTI are equal what is not likely in a real network), or there is an explicit temp. C-RNTI what is used during RA procedure only (as in a real network)		

RarList_Type

TTCN-3 Record of Type		
Name	RarList_Type	
Comment	in general MAC PDU may contain one or several RARs;	
	normally only one RAR is contained	
record of RandomAccessResponseParameters Type		

$Random Access Response_Type$

TTCN-3 Union Type			
Name	RandomAccessResponse_Type		
Comment			
None	Null Type	used for unsuccessful RA procedure	
List	RarList Type	normally one RAR to be sent to the UE; in general there can be more than one RAR	

$Random Access Back of fIndicator_Type$

TTCN-3 Union Type			
Name	RandomAccessBackoffIndicator_Type		
Comment			
None	Null_Type	normal case, no back off indicator included	
Index	integer (015)	Backoff Parameter values acc. TS 36.321, clause 7.2;	
		values 012 are defined, 1315 may be used in error case	

$Random Access Response Ctrl_Type$

TTCN-3 Reco	FTCN-3 Record Type		
Name	RandomAccessResponseCtrl_Type		
Comment	TransmissionMode: single ant else; RNTI: RA-RNTI (TS 36.321, c	ess Response mapped to DL-SCH mapped to PDSCH enna mode when there is only one antenna configured, transmit diversit lause 7.1); ndicator are 'None' SS shall not respond on RAP	
Dcilnfo	DciDlInfoCommon_Type	DCI format: 1A or 1C (TS 36.213, clause 7.1) ResourceAllocType: 2 (acc. to DCI format) Modulation: QPSK Frequency domain schedule: index of 1st RB; max. number of RBs per TTI	
Rar	RandomAccessResponse Type	RAR to be sent to the UE	
BackoffInd	RandomAccessBackoffIndic ator_Type	possible backoff indicator; 'None' for normal cases	

RandomAccessResponseConfig_Type

TTCN-3 Union Type		
Name	RandomAccessResponseConfig_Type	
Comment		
Ctrl	RandomAccessResponseCtrl Ty	contains information to control sending of RAR
	<u>pe</u>	
Ctrl_CRC_Erro	RandomAccessResponseCtrl Ty	same as Ctrl (see above), but MAC PDU transmitted will contain
r	<u>pe</u>	CRC bits (0-3) being toggled;
		no retransmissions shall be made as UE shall not send a NACK
None	Null Type	to be used when there is no RAR to be sent at all

RachProcedure_Type

TTCN-3 Record Type			
Name	RachProcedure_Type		
Comment			
RAResponse	RandomAccessResponseC onfig Type	control of how the SS shall react on RA preamble; this may be - the RAP id as expected by the UE - a RAP id not matching to the UE's RAP - a backoff indicator - nothing at all	
ContentionRes olutionCtrl	ContentionResolutionCtrl T ype		

RachProcedureList_Type

TTCN-3 Record Name	RachProcedureList_Type
Comment	to simulate RACH procedure with one or more than one attempt by the UE: 1. Normal cases:
	one single RandomAccessResponse is sent to the UE matching the UE's RACH preamble; contention resolution is successful immediately
	=> list contains only one element which is used for any RA procedure
	(Even if a RACH procedure is repeated by the UE for any reason this element shall be used; e.g. it needs not to be handled as error when the UE sends another RACH preamble instead of the RRC connection request message)
	2. Special cases:
	there are upto tsc_RandomAccessResponseListSize preambles sent by the UE => there are upto tsc_RandomAccessResponseListSize responses to be configured as elements of the list:
	SS shall start with the first element in the list and use the RAR as specified in this element; if the RAR matches at the UE side the UE will send UL data and contention resolution is performed as configured for this element;
	if the RAR does not match the UE sends another RAP and SS continues with the next element in the list;
	in this case the contention resolution of the respective element is not used;
	if the end of the list is reached and further RACH preambles are sent by the UE SS shall repetitively apply the last element of the list
	(this is necessary because there might be not enough time to reconfigure SS after the end of the list has been reached and there shall be well-defined behaviour after the list has been processed);
	to change from a special mode to normal mode the RachProcedureList is reconfigured by TTCN to achieve transparency and readability of the code;
	NOTE:
	when there are RACH_ConfigDedicated configured (see below) and the RA preamble matches with one the configured ones the contention resolution ctrl is obsolete (non contention based random access procedure)

RachProcedureConfig_Type

TTCN-3 Record Type			
Name	RachProcedureConfig_Type		
Comment	parameters to control the rand	dom a	ccess procedure; TS 36.321, clause 5.1
RACH_ConfigC	RACH ConfigCommon Ty	opt	acc. TS 36.331, clause 6.3.2; may not be necessary for SS;
ommon RACH_ConfigD edicated	RACH_ConfigDedicated_Ty_pe	opt	omit: "keep as it is" acc. TS 36.331, clause 6.3.2; when random access preamble sent by the UE matches with the configured one, SS shall assume the random access procedure being non-contention based; initial configuration: no RACH_ConfigDedicated are configured; omit means "keep as it is"
RachProcedure List	RachProcedureList Type	opt	in normal cases there is one element which is used for any RA procedure; special cases are used in MAC test cases; omit means "keep as it is" If the cell is an Active Scell, the RACH procedure configuration in the Active Scell controls the RAR transmission in the associated Pcell, for received PRACH preamble in Scell

D.1.3.6 System_Information_Control

Primitive to configuration BCCH/BCH

System_Information_Control: Basic Type Definitions

TTCN-3 Basic Types				
BcchToPbchConfig_Type	Null_Type	place holder for BCCH mapped to BCH mapped to PBCH: MIB using fixed scheduling (periodicity: 40ms); transmission mode: single antenna port configuration (layer mapping acc. TS 36.211, clause 6.3.3.1) or transmit diversity (layer mapping acc. TS 36.211, clause 6.3.3.3) depending on antenna configuration		

Sib1Schedul_Type

TTCN-3 Record Type			
Name	Sib1Schedul_Type		
Comment	SIB1: fixed scheduling in time every 20ms)	doma	in acc. TS 36.331, clause 5.2.1.2 (periodicity: 80ms; repetitions
Dcilnfo	DciDIInfoCommon Type	opt	DCI format: 1A or 1C (TS 36.213, clause 7.1) ResourceAllocType: 2 (acc. to DCI format) Modulation: QPSK Frequency domain schedule: index of 1st RB; max. number of RBs per TTI

SingleSiSchedul_Type

TTCN-3 Record Type			
Name	SingleSiSchedul_Type		
Comment	specifies scheduling for a sing	gle SI	in freq and time domain
Dcilnfo	DciDlInfoCommon Type	opt	DCI format: 1A or 1C (TS 36.213, clause 7.1) ResourceAllocType: 2 (acc. to DCI format) Modulation: QPSK Frequency domain schedule: index of 1st RB; max. number of RBs per TTI
SubframeOffset	integer	opt	offset within the SI-window; NOTE: SI-window may span more than one frame

SiSchedul_Type

TTCN-3 Record Type			
Name	SiSchedul_Type		
Comment	specifies for a specific SI sch	eduling	g and repetitions within as SI window
Periodicity	SiPeriodicity Type	opt	
Window	record of SingleSiSchedul Type	opt	NOTE: acc. to TS 36.331, clause 5.2.1.2 the same SI may occur more than once in an SI-window; to allow this there is a "record of" even though acc. to TS 36.508, clause 4.4.3.3 all SIs are sent only once within the window

SiSchedulList_Type

TTCN-3 Record of Type		
Name	SiSchedulList_Type	
Comment		
record length(1maxSI_Message) of SiSchedul_Type		

AllSiSchedul_Type

TTCN-3 Record Type			
Name	AllSiSchedul_Type		
Comment			
WindowLength	SiWindowLength Type	opt	to calculate start of each SI window acc. TS 36.331, clause 5.2.3
SiList	SiSchedulList_Type	opt	list of scheduling info for the SIs containing one ore more SIBs
SegmentedSiLi st	SiSchedulList Type	opt	list of scheduling info for segmented SIs (e.g. SI containing SIB11); corresponds to SegmentedSIs in BcchInfo_Type: SS shall subsequently schedule the elements of the corresponding SegmentedSIs (BcchInfo_Type); e.g. SegmentedSiList[i] provided scheduling info for BcchInfo_Type's SegmentedSIs[i] and the kth element of SegmentedSIs[i] is sent at T0 + ((K * N) + k) * periodicity with K: number for segments k = 0 K-1 N = 0, 1, 2, T0, peridicity: scheduling info as given by SegmentedSiList[i]

BcchToPdschConfig_Type

TTCN-3 Record	TTCN-3 Record Type			
Name	BcchToPdschConfig_Type			
Comment	configuration for BCCH mapp	configuration for BCCH mapped to DL-SCH mapped to PDSCH		
	TransmissionMode: single ar	TransmissionMode: single antenna mode when there is only one antenna configured, transmit		
	diversity else;			
	RNTI: SI-RNTI (TS 36.321, clause 7.1)			
Sib1Schedul	Sib1Schedul Type	opt	scheduling of SIB1 in frequency domain	
SiSchedul	AllSiSchedul Type	opt	scheduling of SIs in frequency and time domain	

SI_List_Type

TTCN-3 Record of Type		
Name	SI_List_Type	
Comment	TS 36.331, clause 6.2.1 BCCH-DL-SCH-Message and clause 6.2.2 SystemInformation	
record of BCCH_DL_SCH_Message		

$Segmented Sl_List_Type$

TTCN-3 Record of Type			
Name	SegmentedSI_List_Type		
Comment	Each element is a list of segments; used for SIB11/12 segmentation		
record of SI List Type			

BcchInfo_Type

TTCN-3 Record	TTCN-3 Record Type			
Name	BcchInfo_Type			
Comment	all fields are declared as optional to allow modification of single field; acc. to TS 36.331, clause 9.1.1.1 "RRC will perform padding, if required due to the granularity of the TF signalling, as defined in 8.5."; therefore this needs to be done by the system simulator			
MIB	BCCH_BCH_Message	opt	TS 36.331, clause 6.2.1 BCCH-BCH-Message and clause 6.2.2 MasterInformationBlock; NOTE: the sequence number included in MIB needs to be handled and maintained by the system simulator; that means that the sequence number being setup by TTCN will be overwritten by SS	
SIB1	BCCH_DL_SCH_Message	opt	TS 36.331, clause 6.2.1 BCCH-DL-SCH-Message and clause 6.2.2 SystemInformationBlockType1	
SIs	SI List Type	opt	list of SIs corresponding to SiList of AllSiSchedul_Type (i.e. element i of AllSiSchedul_Type's SiList specifies the scheduling for SIs[i])	
SegmentedSIs	SegmentedSI List Type	opt	list of SIs containing segmented SIBs; corresponds to SegmentedSiList in AllSiSchedul_Type	

BcchConfig_Type

TTCN-3 Record	TTCN-3 Record Type			
Name	BcchConfig_Type			
Comment	NOTE 2:	d in the .1.1 th ents o	e common part of the ASP; ere is no PDCP and RLC/MAC are in TM f the System Information in general is done in one go	
Pbch	BcchToPbchConfig Type	opt		
Pdsch	BcchToPdschConfig_Type	opt		
BcchInfo	BcchInfo_Type	opt		
StopSib1Trans mission	Null_Type	opt	if omitted: SS transmits SIB1 last provided in BcchInfo and associated DCI. if set: SS shall stop transmission of SIB1 and associated DCI.	
			To resume SIB1 transmission, this flag shall be omitted and SIB1 shall be provided in Bcchlnfo.	

D.1.3.7 Paging_Control

Primitive to configuration PCCH/PCH

PcchConfig_Type

TTCN-3 Record Type			
Name	PcchConfig_Type		
Comment	configuration for PCCH mapped to PCH mapped to PDSCH		
	I ransmissionMode: single anteni diversity else;	na mode when there is only one antenna configured, transmit	
	RNTI: P-RNTI (TS 36.321, clause 7.1)		
	NOTE: acc. to TS 36.331, clause	9.1.1.3 there is no PDCP and RLC/MAC are in TM	
DciInfo	DciDlInfoCommon_Type or	t DCI format: 1A or 1C (TS 36.213, clause 7.1)	
		ResourceAllocType: 2 (acc. to DCI format)	
		Modulation: QPSK	
		Frequency domain schedule: index of 1st RB; max. number of	
		RBs per TTI	

D.1.3.8 UE_Specific_Channel_Configuration

D.1.3.8.1 UE_Specific_Channel_Configuration_DL

Scheduling and other information for CCCH/DCCH/DTCH mapped to DL-SCH mapped to PDSCH

D.1.3.8.1.1 MIMO_Configuration

Precoding information for spatial multiplexing (DCI format 2)

${\bf Precoding InfoFor One Code Word_Type}$

TTCN-3 Union T	TTCN-3 Union Type		
Name	PrecodingInfoForOneCodeWord_Type		
Comment	NOTE: not all index values may make sense (e.g. the indices refering to the values reported by the UE)		
TwoAntennasC losedLoop	integer (06)	index acc. to TS 36.212 Table 5.3.3.1.5-2; RI = 1; transmit diversity or code book index 03 acc. TS 36.211 Table 6.3.4.2.3-1	
FourAntennasC losedLoop	integer (034)	index acc. to TS 36.212 Table 5.3.3.1.5-3; RI = 12; transmit diversity or code book index 015 acc. TS 36.211 Table 6.3.4.2.3-2	
TwoAntennasO penLoop	Null Type	no precoding info; RI=1 when only codeword 1 is enabled	
FourAntennas OpenLoop	integer (01)	index acc. to TS 36.212 Table 5.3.3.1.5-4 RI = 12; RI=1 => transmit diversity; RI=2 => large delay CDD	

PrecodingInfoForTwoCodeWords_Type

TTCN-3 Union T	TTCN-3 Union Type			
Name	PrecodingInfoForTwoCodeWords_Type			
Comment	NOTE: not all index values may make sense (e.g. the indices refering to the values reported by the UE)			
TwoAntennasC losedLoop	integer (02)	index acc. to TS 36.212 Table 5.3.3.1.5-2; RI = 2; code book index 1, 2 acc. TS 36.211 Table 6.3.4.2.3-1		
FourAntennasC losedLoop	integer (050)	index acc. to TS 36.212 Table 5.3.3.1.5-3; RI = 24; code book index 015 acc. TS 36.211 Table 6.3.4.2.3-		
TwoAntennasO penLoop	Null_Type	no precoding info; RI=2 when both codewords are enabled		
FourAntennas OpenLoop	integer (02)	index acc. to TS 36.212 Table 5.3.3.1.5-4 RI = 24; large delay CDD		

PrecodingInfoIndex_Type

TTCN-3 Union T	TTCN-3 Union Type		
Name	PrecodingInfoIndex_Type		
Comment			
OneCodeWord	<u>PrecodingInfoForOneCodeWord</u>	only codeword 1 shall be enabled in the DCI	
	<u>Type</u>		
TwoCodeWord	<u>PrecodingInfoForTwoCodeWords</u>	both codewords shall be enabled in the DCI	
S	<u>Type</u>		

PrecodingOperationMode_Type

TTCN-3 Enumerated	TTCN-3 Enumerated Type		
Name	PrecodingOperationMode_Type		
Comment	how to determine precoding information for spatial multiplexing is signalled on PDCCH with DCI format 2 and 2A (TS 36.212, clause 5.3.3.1.5)		
hardcoded	SS shall apply configured precoding info as configured regardless RI and PMI reported by the UE		
automatic	SS shall apply configured precoding info as long as there are no RI and PMI reported by the UE; when there are RI and PMI reported by the UE these shall be used		

SpatialMultiplexingInfo_Type

TTCN-3 Record	TTCN-3 Record Type		
Name	SpatialMultiplexingInfo_Type)	
Comment	NOTE: there may be codebook	Subs	setRestriction as signalled to the UE (TS 36.331, clause 6.3.2
	AntennalnfoDedicated) to be co	onsid	ered
OperationMode	<u>PrecodingOperationMode</u>		
	<u>Type</u>		
PrecodingIndex	PrecodingInfoIndex Type		NOTE: contains information about number of code words to be
			used in DCI format 2

MimoInfo_Type

TTCN-3 Union	Туре
Name	MimoInfo_Type
Comment	
NoMimo	Null Type
Spatial	SpatialMultiplexingInfo Type

HarqProcessConfigDL_Type

TTCN-3 Union T	TTCN-3 Union Type		
Name	HarqProcessConfigDL_Type		
Comment	HARQ processes to be used autom	atically for DL assignments	
AllProcesses	Null Type	all HARQ processes shall be used for automatic assignment; this is the normal case	
SpecificSubset	HarqProcessList_Type	only the HARQ processes of this list shall be used automatically, other processes are excluded from automatic assignments; nevertheless all HARQ processes may be addressed explicitly by DRB_DataPerSubframe_DL_Type.HarqProcess	

CcchDcchDtchConfigDL_Type

TTCN-3 Record	TTCN-3 Record Type		
Name	CcchDcchDtchConfigDL_Ty	уре	
Comment	configuration for CCCH/DCCH/DTCH mapped to DL-SCH mapped to PDSCH TransmissionMode: as signalled to the UE (AntennaInfoDedicated in RRCConnectionSetup); RNTI: C-RNTI (TS 36.321, clause 7.1); all fields optional (omit = "keep as it is") since DCI format and modulation may be changed during a test; for initial configuration all fields are mandatory		
Dcilnfo	DciDlInfo_Type	opt	DCI format: 1A per default since for CCCH mimo cannot be applied in general ResourceAllocType: (depending on DCI format) Modulation: QPSK for signalling Frequency domain schedule: index of 1st RB; max. number of RBs per TTI; in case of spatial multiplexing if there are 2 code words FreqDomainSchedul shall be applied to both
Antennalnfo	AntennaInfoDedicated_Typ e	opt	as signalled to the UE (TS 36.331, clause 6.3.2): transmissionMode, codebookSubsetRestriction
HarqProcessC onfig	HarqProcessConfigDL Typ e	opt	HARQ processes automatically used by the SS in DL

D.1.3.8.2 UE_Specific_Channel_Configuration_UL

Scheduling information for CCCH/DCCH/DTCH mapped to UL-SCH mapped to PUSCH

PucchHoppingBits_Type

TTCN-3 Union T	TTCN-3 Union Type		
Name	PucchHoppingBits_Type		
Comment	Number of hopping bits acc. to TS 3	6.213 table 8.4-2	
OneBit	B1 Type	N(UL, RB) = 649 i.e. default system bandwid this less than 10	
		MHz (does not include 10 MHz)	
TwoBits	B2_Type	N(UL, RB) = 50110 i.e. default system bandwidth is 10 MHz or	
		above	

UplinkHoppingResourceParameters_Type

TTCN-3 Record Type			
Name	UplinkHoppingResourceParameters_Type		
Comment			
PucchHopping	PucchHoppingBits Type	to control hopping resource allocation as signalled in DCI format 0 (TS 36.212, clause 5.3.3.1.1)	

UplinkHoppingControl_Type

TTCN-3 Union T	TTCN-3 Union Type		
Name	UplinkHoppingControl_Type		
Comment	shall be considered by SS to fill in the information needed for DCI format 0 (TS 36.213, clause 7.1)		
Deactivated	Null Type		
Activated	<u>UplinkHoppingResourceParamete</u>		
	rs_Type		

CcchDcchDtchConfigUL_Type

TTCN-3 Record	TTCN-3 Record Type			
Name	CcchDcchDtchConfigUL_Ty	/ре		
Comment	NOTE 1: for definition of the possible U and the PRACH (TS 36.211, NOTE 2: In contrast to the DL where the	L grar clause e sche UL th (sche	• . ,	
Dcilnfo	DciUlInfo_Type	opt	DCI format: 0 (TS 36.213, clause 7.1) ResourceAllocType: 2 (acc. to DCI format) Modulation: QPSK per default Frequency domain schedule: index of 1st RB; max. number of RBs per TTI (upper bound up to which SS may assign grants to the UE)	
Hopping	UplinkHoppingControl_Typ e	opt	when Hopping = 'Activated' SS shall set hopping flag in DCI format 0	
PUCCH_Synch	PUCCH Synch Type	opt	parameters to control automatic control of timing advance	
UL_GrantConfi g	UL GrantConfig Type	opt	UL grant allocation to be applied	

DrxCtrl_Type

TTCN-3 Union 1	Гуре	
Name	DrxCtrl_Type	
Comment	DRX configuration for connected me	ode (TS 36.321, clause 5.7)
None	Null Type	DRX not configured
Config	DRX Config Type	DRX is configured as signalled to the UE; NOTE: the release branch of DRX-Config in general is not used for configuration of the SS

MeasGapCtrl_Type

TTCN-3 Unior	TTCN-3 Union Type			
Name	MeasGapCtrl_Type			
Comment	support of measurement gap configura	tion		
None	Null Type	no measurement gap configuration		
Config	MeasGapConfig Type	measurement gap configuration acc. to TS 36.331, clause 6.3.5 and gap pattern acc. TS 36.133 Table 8.1.2.1-1; NOTE: the release branch of MeasGapConfig in general is not used for configuration of the SS		

CcchDcchDtchConfig_Type

TTCN-3 Record	TTCN-3 Record Type			
Name	CcchDcchDtchConfig_Type			
Comment				
MeasGapCtrl	MeasGapCtrl Type	opt	to tell the SS when no assignments/grants shall be assigned to the UE	
DL	CcchDcchDtchConfigDL_Ty pe	opt	Scheduling, parameters related to CCCH, DCCH and DTCH in DL	
UL	CcchDcchDtchConfigUL Ty pe	opt	Scheduling, parameters related to CCCH, DCCH and DTCH in UL	
DrxCtrl	DrxCtrl_Type	opt	DRX configuration as sent to the UE (or 'None' when the UE does not support connected mode DRX)	
TtiBundling	TTI BundlingConfig Type	opt	TTI bundling as configured at the UE	
CifPresence	boolean	opt	corresponds to PhysicalConfigDedicated.cif_Presence_r10: The CIF field is applied for dedicated search space scheduling i.e. DCCH/DTCH. Not present for common search space scheduling. CIF indicator as true may be configured even in non CA cell, to facilitate the future	
			false: no serving cell is cross scheduled by this cell true: carrier indicator field is present when the PDCCH CRC is scrambled by C-RNTI or SPS C-RNTI omit means "keep as it is"	

D.1.3.9 Carrier_Aggregation

ActivateScell_Type

TTCN-3 Record Type			
Name	ActivateScell_Type		
Comment			
ScellActivation	ScellBitMap_Type	36.321 clause 6.1.3.8; B0=C7, B1=C6 B6=C1, B7 is reserved.	
		B0 to B6, 1 means Activate associated Scell	
SendMCE	boolean	If true the SS sends a MAC Control Element to the UE	

Scell_Capability_Type

TTCN-3 Enumerated Type		
Name	Scell_Capability_Type	
Comment		
DIOnly	the CC is configured in DL only, no aggregation in this cell in UL	
UL_DL	the aggregation is configured in both UL and DL	

ScellDeactivationTimer_Type

TTCN-3 Union Type			
Name	ScellDeactivationTimer_Type		
Comment	NOTE: this type is a union to allow	semantic of "keep as it is" for optional fields of this type	
NumberOfRadi	MAC MainConfig ScellDeactivati	SCell deactivation timer acc. to TS 36.321	
oFrames	onTimer_Type		
1,#INF	Null_Type	ininity as when 'sCellDeactivationTimer' is omitted in 'MAC-	
		MainConfig' sent to the UE	

SCellIndexList_List

TTCN-3 Record of Type		
Name SCellIndexList_List		
Comment		
record length (17) of SCellIndex_r10		

CrossCarrierScheduledCellsList_Type

TTCN-3 Union Type			
Name	CrossCarrierScheduledCellsList_Type		
Comment			
None	Null_Type	No Cells Cross Scheduled by this Cell; CIF can still be true.	
CrossSchedule	SCellIndexList_List	List of Scells Scheduled by this Scell; CIF field shall be true;	
dCells		Pcell cannot be cross scheduled	

SchedulingCarrierConfig_Type

TTCN-3 Union T	TTCN-3 Union Type		
Name	SchedulingCarrierConfig_Type		
Comment			
Own	<u>CrossCarrierScheduledCellsList</u>	Cell is scheduled by itself and possible cross schedules other	
	Type	Scells	
CrossSchedule	CrossSchedulingCarrierInfo_Type	Cell is cross Scheduled by other carrier; the CIF field shall be	
d		configured in the serving cell scheduling this scell	

${\bf CrossCarrierSchedulingConfig_Type}$

TTCN-3 Union Type			
Name	CrossCarrierSchedulingConfig_Type		
Comment			
Config	SchedulingCarrierConfig_Type	When cross carrier scheduling is enabled then the CIF field shall be configured in the serving cell scheduling this scell	
None	Null Type		

PrimaryCellInfo_Type

TTCN-3 Record Type			
Name	PrimaryCellInfo_Type		
Comment			
AssociatedScel	EUTRA CellIdList Type		List of Scells associated with the Pcell (needs to be consistent
IList			with AssociatedPcellId in Scell)
MeasSubframe	MeasSubframePatternPCell	opt	
PatternPCell	_r10		
CrossCarrierSc	<u>CrossCarrierScheduledCell</u>	opt	Information of possible Cells Cross Scheduled by this cell
heduledCellsLi	sList Type		
st			

SecondaryCellInfo_Type

TTCN-3 Record	TTCN-3 Record Type			
Name	SecondaryCellInfo_Type			
Comment				
AssociatedPcel IId	EUTRA_CellId_Type		cell ID of associated Pcell (eutra_Cell_NonSpecific is not allowed)	
SCellIndex	SCellIndex_r10			
Scell_Capabilit y	Scell Capability Type	opt	if DL only or both UL and DL (omit means "keep as it is")	
ScellDeactivati onTimer	ScellDeactivationTimer_Typ e	opt	SCell deactivation timer; omit means "keep as it is"; when there is more than one SCell associated to the same PCell this field shall be set to the same value for each SCell	
CrossCarrierSc hedulingConfig	CrossCarrierSchedulingCon fig Type	opt	omit means "keep as it is"	
STAG_ld	STAG_ld_r11	opt	if IE is never configured then scell is part of PTAG. Uses the STAG_ID or PTAG in Auto PUCCH synchronization when transmitting periodically Timing Advance MCE	

ServingCellConfig_Type

TTCN-3 Union Type			
Name	ServingCellConfig_Type		
Comment			
PCell	PrimaryCellInfo_Type	cell shall become PCell	
SCell	SecondaryCellInfo_Type	cell shall become SCell	
Release	Null Type	cell is changed back to normal non CA cell	

D.1.4 Cell_Power_Attenuation

CellAttenuationConfig_Type

TTCN-3 Record Type			
Name	CellAttenuationConfig_Type		
Comment			
CellId	EUTRA_CellId_Type		
Attenuation	Attenuation_Type		
TimingInfo	TimingInfo_Type	opt	

CellAttenuationList_Type

TTCN-3 Record of Type	
Name CellAttenuationList_Type	
Comment	
record length(1tsc_EUTRA_MaxNumberOfCells) of CellAttenuationConfig_Type	

D.1.5 Radio_Bearer_Configuration

Radio Bearer Configuration: SRBs/DRBs

D.1.5.1 PDCP_Configuration

PDCP_SNLength_Type

TTCN-3 Enumerated Type	
Name	PDCP_SNLength_Type
Comment	PDCP Sequence Number
PDCP_SNLength5	TS 36.323 clause 6.2.2
PDCP_SNLength7	TS 36.323 clause 6.2.3
PDCP_SNLength12	TS 36.323 clause 6.2.4

PDCP_ROHC_Mode_Type

TTCN-3 Record Type		
Name	PDCP_ROHC_Mode_Type	
Comment		
SN_Size	PDCP_SNLength_Type	

PDCP_NonROHC_Mode_Type

TTCN-3 Record Type		
Name	PDCP_NonROHC_Mode_Type	
Comment		
SN_Size	PDCP SNLength Type	

PDCP_TestModeInfo_Type

TTCN-3 Union Type		
Name	PDCP_TestModeInfo_Type	
Comment		
PDCP_ROHC_ Mode	PDCP ROHC Mode Type	ROHC test mode acc. to TS 36.523-3, clause 4.2.1.3.1; requires PDCP to be configured for this RB => - SS applies ciphering in UL and DL - SS maintains PDCP sequence numbers and state variables Furthermore in this mode - SS does not add/remove PDCP headers (in UL the PDCP PDUs are decoded depending on SN_Size) - SS applies ROHC in DL only
PDCP_NonRO HC_Mode	PDCP NonROHC Mode Type	PDCP test mode acc. to TS 36.523-3, clause 4.2.1.3.2 (non-ROCH test mode); requires PDCP to be configured as transparent => - SS does not apply ciphering in UL and DL - SS does not interpret, insert or remove PDCP headers (in UL PDCP PDUs are decoded depending on SN_Size) - SS does not maintain PDCP sequence numbers and state variables

PDCP_TestModeConfig_Type

TTCN-3 Union Type		
Name	PDCP_TestModeConfig_Type	
Comment		
None	Null_Type	
Info	PDCP_TestModeInfo_Type	

PDCP_RbConfig_Type

TTCN-3 Union Type		
Name	PDCP_RbConfig_Type	
Comment		
Srb	Null Type	for SRB1/2 there are no PDCP_Parameters; SN is always 5 bits
Drb	PDCP_Config_Type	PDCP-Configuration acc. to TS 36.331, clause 6.3.2; among others for UM here pdcp-SN-Size is configured to be either len7bits or len12bits; for AM it always is 12bit
Transparent	Null Type	used for PDCP tests (TS 36.523-3, clause 4.2.1.3.2): the SS does not apply ciphering and does not maintain PDCP sequence numbers and state variables; in UL the PDCP PDUs are decoded acc. to the TestMode; Note: a reconfiguration of a RB from transparent mode to 'normal' mode is not foreseen (i.e. there is no mechanism to restore Ciphering, PDCP sequence numbers and state variables at the SS)

PDCP_ConfigInfo_Type

TTCN-3 Record Type			
Name	PDCP_ConfigInfo_Type		
Comment			
Rb	PDCP RbConfig Type	opt	mandatory for initial configuration; omit means "keep as it is"
TestMode	PDCP_TestModeConfig_Ty	opt	mandatory for initial configuration; omit means "keep as it is"
	<u>pe</u>		

PDCP_Configuration_Type

TTCN-3 Union Type		
Name	PDCP_Configuration_Type	
Comment		
None	Null Type	for SRB0 no PDCP is configured; furthermore the PDCP may not be configured e.g. for DRBs tested in MAC test cases
Config	PDCP ConfigInfo Type	

D.1.5.2 RLC_Configuration

RLC configuration: radio bearer specific

RLC_Configuration: Basic Type Definitions

TTCN-3 Basic Types		
RLC_AM_SequenceNumb	integer (01023)	RLC AM sequence number
er_Type		
SS_RLC_TM_Type	Null_Type	TM to configure SRB0; no parameters to be
		defined

RLC_ACK_Prohibit_Type

TTCN-3 Enumerated Type		
Name	RLC_ACK_Prohibit_Type	
Comment		
Prohibit	cause SS RLC layer to stop any ACK transmission for UL PDU's received from UE	
Continue	bring back the SS RLC in normal mode, where ACK/NACK are transmitted at polling	

RLC_NotACK_NextRLC_PDU_Type

TTCN-3 Enumerated Type		
Name	RLC_NotACK_NextRLC_PDU_Type	
Comment		
Start	cause SS RLC layer not to ACK the next received RLC PDU; this is done regardless of whether the poll bit is set or not; Example [from UMTS]: when the UE gets new security information in a SECURITY MODE COMMAND the response (SECURITY MODE COMPLETE) sent by the UE is not acknowledged at the RLC level; this causes the UE to continue using the "old" security information	

RLC_TestModeInfo_Type

TTCN-3 Union T	TTCN-3 Union Type		
Name	RLC_TestModeInfo_Type		
Comment			
AckProhibit	RLC_ACK_Prohibit_Type	valid only when the RLC is configured in AM	
NotACK_NextR	RLC_NotACK_NextRLC_PDU_Ty	valid only when the RLC is configured in AM	
LC_PDU	<u>pe</u>		
ModifyVTS	RLC_AM_SequenceNumber_Typ	to modify the VT(S) at SS: VT(S) at the SS side is set to this	
	<u>e</u>	(absolute) value;	
		valid only when the RLC is configured in AM	
TransparentMo	Null_Type	shall be set when TTCN expects RLC PDUs as UMD in UL with	
de_UMDwith5B		an SN of 5 bits;	
itSN		valid only when the RLC is configured in TM	
TransparentMo	Null Type	shall be set when TTCN expects RLC PDUs as UMD in UL with	
de_UMDwith10		an SN of 10 bits;	
BitSN		valid only when the RLC is configured in TM	
TransparentMo	Null Type	shall be set when TTCN expects RLC PDUs as AMD in UL;	
de_AMD		valid only when the RLC is configured in TM	

RLC_TestModeConfig_Type

TTCN-3 Union Type		
Name	RLC_TestModeConfig_Type	
Comment		
None	Null_Type	
Info	RLC_TestModeInfo_Type	

SS_RLC_AM_Type

TTCN-3 Record Type			
Name	SS_RLC_AM_Type		
Comment			
Tx	UL_AM_RLC_Type	opt	the UE's UL setting to be used in SS's tx direction
Rx	DL_AM_RLC_Type	opt	the UE's DL setting to be used in SS's rx direction

SS_RLC_UM_Bi_Directional_Type

TTCN-3 Record Type			
Name	SS_RLC_UM_Bi_Direction	nal_Typ	e
Comment			
Tx	UL_UM_RLC_Type	opt	the UE's UL setting to be used in SS's tx direction
Rx	DL_UM_RLC_Type	opt	the UE's DL setting to be used in SS's rx direction

SS_RLC_UM_Uni_Directional_UL_Type

TTCN-3 Record	Туре	
Name	SS_RLC_UM_Uni_Directional_UL	_Туре
Comment		
Rx	DL UM RLC Type opt	the UE's DL setting to be used in SS's rx direction

SS_RLC_UM_Uni_Directional_DL_Type

TTCN-3 Record Type			
Name	SS_RLC_UM_Uni_Direction	nal_DL	_Type
Comment			
Tx	UL UM RLC Type	opt	the UE's UL setting to be used in SS's tx direction

RLC_RbConfig_Type

TTCN-3 Union T	TTCN-3 Union Type		
Name	RLC_RbConfig_Type		
Comment			
AM	SS RLC AM Type		
UM	SS_RLC_UM_Bi_Directional_Typ		
	<u>e</u>		
UM_OnlyUL	SS RLC UM Uni Directional UL		
	<u>Type</u>		
UM_OnlyDL	SS_RLC_UM_Uni_Directional_DL		
	<u>Type</u>		
TM	SS RLC TM Type	normally SRB0 only; may be used for test purposes also	

RLC_Configuration_Type

TTCN-3 Record Type			
Name	RLC_Configuration_Type		
Comment			
Rb	RLC RbConfig Type	opt	mandatory for initial configuration; omit means "keep as it is"
TestMode	RLC TestModeConfig Typ	opt	mandatory for initial configuration; omit means "keep as it is"
	е		

D.1.5.3 MAC_Configuration

MAC configuration: radio bearer specific configuration

EUTRA_ASP_TypeDefs: Constant Definitions

TTCN-3 Basic Types			
tsc_MaxHarqRetran smission	integer	28	maximum value for maxHARQ- Msg3Tx as being signalled to the UE

MAC_Test_DLLogChID_Type

TTCN-3 Union	Туре	
Name	MAC_Test_DLLogChID_Type	
Comment		
LogChld	TestLogicalChannelld Type	Specifies to over write the logical channel ID in MAC header in all the DL messages sent on the configured logical channel
ConfigLchId	Null_Type	Specifies that the normal mode of correct logical channel ID to be used in DL MAc header. This will be the default mode, when SS is initially configured.

${\tt MAC_Test_DL_SCH_CRC_Mode_Type}$

TTCN-3 Enumerated	TTCN-3 Enumerated Type		
Name	MAC_Test_DL_SCH_CRC_Mode_Type		
Comment			
Normal	default mode, the CRC generation is correct		
Erroneous	SS shall generate CRC error by toggling CRC bits;		
	the CRC error shall be applied for all PDUs of the given RNTI and their retransmission until SS		
	is configured back to 'normal' operation		
Error1AndNormal	the SS generates wrong CRC for first transmission and correct CRC on first retransmission.		
	Later SS operates in normal mode. The retransmission is automatically triggered by reception of		
	HARQ NACK		

${\tt MAC_Test_SCH_NoHeaderManipulation_Type}$

TTCN-3 Enumerated T	Гуре
Name	MAC_Test_SCH_NoHeaderManipulation_Type
Comment	
NormalMode	MAC header is fully controlled by the SS
DL_SCH_Only	TTCN can submit a final MAC PDU including header and payloads;
	SS does not do anything with this MAC PDU i.e. no header is added for the DL SCH transport channel.
	It is possible that data belonging to multiple DRBs is sent in one MAC PDU and from one special RB configured.
	NOTE: SRBs shall work as in normal mode and data can be sent/received on SRBs but sending on SRBs shall be in different TTIs than sending data PDUs.
DL_UL_SCH	In UL and DL the SS' MAC layer is transparent i.e. SS does not add or remove any MAC header

HARQ_ModeList_Type

TTCN-3 Record of Type		
Name	HARQ_ModeList_Type	
Comment		
record length (1tsc_MaxHarqRetransmission) of HARQ_Type		

PhichTestMode_Type

TTCN-3 Union Type			
Name	PhichTestMode_Type		
Comment			
NormalMode	Null Type	PHICH is configured to operate in normal mode	
ExplicitMode	HARQ ModeList Type	the number of elements in explicit list shall match the number of retransmissions being expected	

MAC_TestModeInfo_Type

TTCN-3 Record Type			
Name	MAC_TestModeInfo_Type		
Comment	Parameters/Configuration for MA	AC tests	
DiffLogChld	MAC Test DLLogChID Ty	to be used in test cases 7.1.1.1 and 7.1.1.2 for using a different	
-	<u>pe</u>	logical channel ID in MAC-header on DL-SCH channel	
No_HeaderMa	MAC_Test_SCH_NoHeade	to configure mode for no header manipulation in SS MAC layer	
nipulation	rManipulation Type	for DL/UL SCH	

MAC_TestModeConfig_Type

TTCN-3 Union Type		
Name	MAC_TestModeConfig_Type	
Comment		
None	Null Type	
Info	MAC TestModeInfo Type	

${\bf MAC_Logical Channel Config_Type}$

TTCN-3 Record Type			
Name	MAC_LogicalChannelConfig_Type		
Comment			
Priority	integer	logical channel priority for the DL as described in TS 36.321,	
		clause 5.4.3.1 for the UL	
PrioritizedBitRa	PrioritizedBitRate_Type	PBR as described for the UL; probably not needed at SS	
te			

MAC_Configuration_Type

TTCN-3 Record Type			
Name	MAC_Configuration_Type		
Comment			
LogicalChannel	MAC LogicalChannelConfi	opt	mandatory for initial configuration; omit means "keep as it is"
	g Type		
TestMode	MAC TestModeConfig Typ	opt	mandatory for initial configuration; omit means "keep as it is";
	<u>e</u>		for none MAC tests "TestMode.None:=true"

Radio_Bearer_Configuration: Basic Type Definitions

TTCN-3 Basic Types		
LogicalChannelld_Type	integer (010)	acc. TS 36.331, clause 6.3.2 for DRBs DTCH- LogicalChannelIdentity is INTEGER (310); additionally we have 02 for the SRBs
TestLogicalChannelld_Ty pe	integer (031)	To be used in MAC test mode for reserved values of Logical channels;

$RadioBearer ConfigInfo_Type$

TTCN-3 Record	TTCN-3 Record Type			
Name	RadioBearerConfigInfo_Type			
Comment	semantics of omit: "keep as it	t is"		
Pdcp	PDCP Configuration Type	opt	for SRB0: "Pdcp.None:=true" mandatory for initial configuration; omit means "keep as it is"	
Rlc	RLC_Configuration_Type	opt	mandatory for initial configuration; omit means "keep as it is"	
LogicalChannel Id	LogicalChannelld_Type	opt	DRBs: DTCH-LogicalChannelIdentity as for rb-MappingInfo in DRB-ToAddModifyList; SRBs: for SRBs specified configurations acc. to TS 36.331, clause 9.1.2 shall be applied: SRB1: ul-LogicalChannel-Identity = dl-LogicalChannel-Identity = 1 SRB2: ul-LogicalChannel-Identity = dl-LogicalChannel-Identity = 2 for SRB0 being mapped to CCCH the LCID is '00000'B acc. to TS 36.321, clause 6.2.1; mandatory for initial configuration; omit means "keep as it is"	
Mac	MAC_Configuration_Type	opt		
DiscardULData	boolean	opt	if omitted: initial configuration: data is handed over to TTCN as usual re-configuration: "keep as it is" if set: true - SS shall discard any data in UL for this radio bearer false - (re)configuration back to normal mode NOTE: typically applicable for UM DRBs only	

RadioBearerConfig_Type

TTCN-3 Union T	TTCN-3 Union Type		
Name	RadioBearerConfig_Type		
Comment			
AddOrReconfig	RadioBearerConfigInfo Type	add / re-configure RB -	
ure		CellId: identifier of the cell being configured	
		RoutingInfo: None	
		TimingInfo: 'Now' in common cases	
		Controllnfo : CnfFlag:=true; FollowOnFlag:=false (in general)	
Release	Null_Type	release RB -	
		CellId: identifier of the cell being configured	
		RoutingInfo : None	
		TimingInfo : 'Now' in common cases	
		ControlInfo: CnfFlag:=true; FollowOnFlag:=false (in general)	

RadioBearer_Type

TTCN-3 Record Type			
Name	RadioBearer_Type		
Comment			
Id	RadioBearerId Type		either for SRB or DRB
Config	RadioBearerConfig Type		

RadioBearerList_Type

TTCN-3 Record of Type		
Name	RadioBearerList_Type	
Comment	array of SRBs and/or DRBs (DRBs + 3 SRBs)	
record length (1tsc MaxRB) of RadioBearer Type		

D.1.6 AS_Security

Primitive for control of AS security

PdcpSQN_Type

TTCN-3 Record Type		
Name	PdcpSQN_Type	
Comment		
Format	PdcpCountFormat_Type	5 bit, 7 bit or 12 bit SQN
Value	integer	SQN value (5 bit, 7 bit or 12 bit SQN) NOTE: in TTCN the test case writer is responsible to deal with potential overflows (e.g. there shall be a "mod 32", "mod 128" or "mod 4096" according to the format)

PDCP_ActTime_Type

TTCN-3 Union T	TTCN-3 Union Type			
Name	PDCP_ActTime_Type			
Comment	The sequence number in UL and DL for SRB1 should be one more than the present SQN, as Ciphering starts in UL and DL soon after SMC and SMComp; For other SRB/DRB it should be the present SQN.			
None	Null Type	No Activation time; to be used if Ciphering is not applied		
SQN	PdcpSQN Type	PDCP sequence number		

SecurityActTime_Type

TTCN-3 Record Type			
Name	SecurityActTime_Type		
Comment			
RadioBearerId	RadioBearerId Type		
UL	PDCP ActTime Type		
DL	PDCP ActTime Type		

SecurityActTimeList_Type

TTCN-3 Record of Type		
Name	SecurityActTimeList_Type	
Comment		
record length (1tsc MaxRB) of SecurityActTime Type		

AS_IntegrityInfo_Type

TTCN-3 Record	TTCN-3 Record Type			
Name	AS_IntegrityInfo_Type			
Comment	for initial configuration activation time is not needed for integrity protection as all messages in DL after security activation are integrity protected; this means this ASP is invoked before transmission of Security mode command; if there is a integrity violation in UL SS shall set the IndicationStatus in the common ASP part to flag the integrity error (IndicationStatus.Error.Integrity.Pdcp := true); integrity to be provided for each SRB as per core spec			
Algorithm	IntegrityProtAlgorithm Type		IntegrityProtAlgorithm_Type being defined in RRC ASN.1	
KRRCint	B128 Key Type			
ActTimeList	SecurityActTimeList_Type	opt	omit for initial configuration (i.e. all SRBs to be integrity protected immediately); in HO scenarios activation time may be needed e.g. for SRB1	

AS_CipheringInfo_Type

TTCN-3 Record Type			
Name	AS_CipheringInfo_Type		
Comment			
Algorithm	CipheringAlgorithm Type	CipheringAlgorithm_Type being defined in RRC ASN.1	
KRRCenc	B128 Key Type		
KUPenc	B128 Key Type	KUPenc is mandatory; and SS uses it when DRB are configured	
ActTimeList	SecurityActTimeList Type		

AS_SecStartRestart_Type

TTCN-3 Record	TTCN-3 Record Type			
Name	AS_SecStartRestart_Type			
Comment				
Integrity	AS IntegrityInfo Type	opt	optional to allow separated activation of integrity and ciphering; omit: keep as it is	
Ciphering	AS_CipheringInfo_Type	opt	optional to allow separated activation of integrity and ciphering; omit: keep as it is	

AS_Security_Type

TTCN-3 Union Type			
Name	AS_Security_Type		
Comment	Security mode command procedure (TS 36.331, clause 5.3.4):		
	both SMC and SMComp are integrity protected		
	(nevertheless SS shall be able to cope with unprotected SM reject);		
	ciphering is started just after SMComp (acc. to TS 36.331, clause 5.3.4.3 and 5.3.1.1)		
StartRestart	AS SecStartRestart Type	information to start/restart AS security protection in the PDCP	
Release	Null Type	to release AS security protection in the PDCP	

D.1.7 Semi_Persistent_Scheduling

Semi-persistent scheduling (SPS)

NOTE 1:

configuration of SPS cannot be done completely in advance but needs to be activated by PDCCH signalling => SPS is configured/activated in an own primitive which may be sent to SS during RBs are being configured NOTE 2:

semi-persistent (configured) scheduling is per UE (as well as 'normal' scheduling; see e.g. TS 36.300, clause 11.1)

SpsAssignmentUL_Type

TTCN-3 Record Type				
Name	SpsAssignmentUL_Type			
Comment	information to assign semi-persistent schedules in UL			
Dcilnfo	DciUlInfo Type opt to apply a grant			
SchedulInterval	SpsConfigurationUL Type	opt	as in TS 36.331, clause 6.3.2 SPS-ConfigUL	
SetNDI_1	Null Type	opt	if present then NDI is set as 1 indicating a retransmission; If	
			absent then NDI is set as 0 indicating a new transmission	

${\bf SpsAssignmentDL_Type}$

TTCN-3 Record	TTCN-3 Record Type			
Name	SpsAssignmentDL_Type			
Comment	information to assign semi-pe	rsister	nt schedules in DL	
Dcilnfo	DciDIInfo Type	opt	to apply a assignment	
SchedulInterval	SpsConfigurationDL Type	opt	as in TS 36.331, clause 6.3.2 SPS-ConfigDL	
SetNDI_1	Null Type	opt	if present then NDI is set as 1 indicating a retransmission; If	
			absent then NDI is set as 0 indicating a new transmission	

SpsActivateInfo_Type

TTCN-3 Record Type			
Name	SpsActivateInfo_Type		
Comment	Semi-persistent scheduling (SPS): Even though SPS is pre-configured at the UE (e.g. RRCConnectionSetup- >RadioResourceConfiguration->MAC_MainConfig) it needs to be activated by L1 signalling => SS shall 'activate' SPS by sending appropriate assignments/grants to the UE; this shall be done with an activation time. If SPS is already configured and new Activate command is received, at the activation time SS locally deactivates old SPS configuration, sends UE an PDCCH assignment for new SPS assignment and locally activates new SPS configuration. In DL, in addition to SS SPS assignment configuration with activation time 'T', TTCN writer shall also schedule a DL MAC PDU with same activation time 'T' and at every SPS ScheduleInterval (NOTE: in general it is an error when TTCN does not provide data for a SchedulInterval; SS shall send no data in this case). Special fields of PDCCH assignment are filled as per table 9.2-1 of 36.213		
SPS_C_RNTI	C_RNTI		SPS C-RNTI as signalled to UE
UplinkGrant	SpsAssignmentUL Type	opt	
DownlinkAssig nment	SpsAssignmentDL Type	opt	

SpsPdcchRelease_Type

TTCN-3 Record	TTCN-3 Record Type			
Name	SpsPdcchRelease_Type			
Comment	indicated DCI format (0 or 1A)) at the	shall send an SPS release indicated by PDCCH transmission with e activation time. at are filled as per table 9.2-1A of 36.213	
SPS_C_RNTI	C_RNTI			
DCI_Format	PdcchDciFormat_Type		only formats 0 (UL release) and 1A (DL release) are applicable. It is a TTCN error if any other formats are used.	

SpsDeactivateInfo_Type

TTCN-3 Union T	TTCN-3 Union Type			
Name	SpsDeactivateInfo_Type			
Comment				
LocalRelease	Null_Type	SPS configuration shall be released at the SS, that means as well that the SS shall not address SPS_C_RNTI anymore from the given TimingInfo onward; NOTE: there is no SPS release to be signalled on PDCCH (this is done with PdcchExplicitRelease - see below)		
PdcchExplicitR elease	SpsPdcchRelease_Type	SS transmits PDCCH content indicating SPS release but holds the local SPS configuration until it is locally released		

SpsConfig_Type

TTCN-3 Union	TTCN-3 Union Type		
Name	SpsConfig_Type		
Comment			
Activate	SpsActivateInfo Type	CellId: identifier of the cell where the UE is active RoutingInfo: None TimingInfo: activation time for SPS assignment/grant transmission; NOTE: the first SPS DL data packet shall be sent with the same timing information ControlInfo: CnfFlag:=false; FollowOnFlag:=false	
Deactivate	SpsDeactivateInfo Type	CellId: identifier of the cell where the UE is active RoutingInfo: None TimingInfo: activation time for SPS release indicated by PDCCH transmission or SS local deactivation ControlInfo: CnfFlag:=false; FollowOnFlag:=false	

D.1.8 Paging_Trigger

SubframeOffsetList_Type

TTCN-3 Record of Type		
Name SubframeOffsetList_Type		
Comment		
record length (1infinity) of integer		

PagingTrigger_Type

TTCN-3 Record Type			
Name	PagingTrigger_Type		
Comment	CellId: identifier of the cell where the UE is active		
	RoutingInfo : None		
	TimingInfo : Calculated pagin	g occa	asion
	ControlInfo : CnfFlag:=false; I		
	primitive to trigger transmission	on of a	paging on the PCCH at a calculated paging occasion (TS 36.304,
	clause 7);		
			y TTCN and activation time is applied;
	as for BCCH Infor acc. to TS 36.331, clause 9.1.1.3 "RRC will perform padding, if required due to the		
	granularity of the TF signalling, as defined in 8.5.";		
	therefore this needs to be done by the system simulator		
Paging	PCCH_Message		paging to be send out at paging occasion and being announced on PDCCH using P-RNTI
SubframeOffset	SubframeOffsetList Type	opt	list of subframe offsets relative to the absolute timing information
List			given in the common part of the ASP;
			if present, multiple pagings are sent out at all occasions given by
			the list;
	if omitted only a single paging is sent at the occasion given		
			timing information given in the common part of the ASP

D.1.9 L1_MAC_Indication_Control

Primitive for control of L1/MAC indication for special purposes

L1Mac_IndicationMode_Type

TTCN-3 Enumerated Type		
Name	L1Mac_IndicationMode_Type	
Comment		
enable		
disable		

L1Mac_IndicationControl_Type

TTCN-3 Record Type			
Name	L1Mac_IndicationControl_T	vpe	
Comment	NOTE: Initially all indications are disa primitive but only if a specific	abled in	n SS (i.e. it shall not be necessary in 'normal' test cases to use this tion is needed); omit means indication mode is not changed
RachPreamble	L1Mac IndicationMode Ty pe	opt	To enable/disable reporting of PRACH preamble received.
SchedReq	L1Mac IndicationMode Ty	opt	To enable/disable reporting of reception of Scheduling Request on PUCCH.
BSR	L1Mac_IndicationMode_Ty pe	opt	To enable/disable reporting of Buffer/Extended Buffer Status Report. NOTE: this is applicable only when MAC is configured in normal mode in UL; MAC configured in test mode, results in over writing the report.
UL_HARQ	L1Mac_IndicationMode_Ty pe	opt	To enable/disable reporting of reception of HARQ ACK/NACK.
C_RNTI	L1Mac IndicationMode Ty pe	opt	To enable/disable reporting of C-RNTI sent by the UE within MAC PDU
PHR	L1Mac_IndicationMode_Ty pe	opt	To enable/disable reporting of Power Headroom Report. NOTE: this is applicable only when MAC is configured in normal mode in UL; MAC configured in test mode, results in over writing the report.
HarqError	L1Mac IndicationMode Ty pe	opt	To enable/disable reporting of HARQ errors
PeriodicRI	L1Mac IndicationMode Ty	opt	To enable/disable reporting of reception of periodic Rank Indicators
EPHR	L1Mac IndicationMode Ty pe	opt	To enable/disable reporting of Extended Power Headroom Report. NOTE: this is applicable only when MAC is configured in normal mode for UL; MAC configured in test mode, results in overwriting the report.
PeriodicCQI	L1Mac IndicationMode Ty pe	opt	To enable/disable reporting of reception of periodic CQI
SRS	L1Mac IndicationMode Ty pe	opt	To enable/disable reporting of start and stop of reception of Type 0 (Configured by Higher Layer) SRS in frames meant for periodic SRS transmission by UE. SS reports an indication every time when SRS reception from UE has toggled in the frames configured for periodic SRS reception i.e. 'No periodic SRS' reception -> 'periodic SRS' reception or 'periodic SRS' reception -> 'No periodic' SRS reception.

D.1.10 Rlc_Indication_Control

Primitive for control of RLC indication for special purposes

Rlc_IndicationMode_Type

TTCN-3 Enumerated Type		
Name	RIc_IndicationMode_Type	
Comment		
enable		
disable		

Rlc_IndicationControl_Type

TTCN-3 Record	Туре		
Name	RIc_IndicationControl_Type		
Comment			
Discard	Rlc_IndicationMode_Type	opt	To enable/disable reporting of discarded RLC PDUs

D.1.11 PDCP_Count

Primitives to enquire PDCP COUNT

PDCP_Count: Basic Type Definitions

TTCN-3 Basic Types		
PdcpCountValue_Type	B32 Type	

PdcpCountFormat_Type

TTCN-3 Enumerated 7	TTCN-3 Enumerated Type		
Name	PdcpCountFormat_Type		
Comment			
PdcpCount_Srb	27 bit HFN; 5 bit SQF		
PdcpCount_DrbLong SQN	20 bit HFN; 12 bit SQF		
PdcpCount_DrbShort SQN	25 bit HFN; 7 bit SQF		

PdcpCount_Type

TTCN-3 Record Type		
Name	PdcpCount_Type	
Comment		
Format	PdcpCountFormat_Type	
Value	PdcpCountValue_Type	

PdcpCountInfo_Type

TTCN-3 Record Type				
Name	PdcpCountInfo_Type	PdcpCountInfo_Type		
Comment				
RadioBearerId	RadioBearerId_Type			
UL	PdcpCount_Type	opt	omit: keep as it is	
DL	PdcpCount_Type	opt	omit: keep as it is	

PdcpCountInfoList_Type

TTCN-3 Record of Type		
Name PdcpCountInfoList_Type		
Comment		
record length (1tsc_MaxRB) of PdcpCountInfo_Type		

PdcpCountGetReq_Type

TTCN-3 Union Type		
Name	PdcpCountGetReq_Type	
Comment		
AllRBs	Null Type	return COUNT values for all RBs being configured
SingleRB	RadioBearerId Type	

PDCP_CountReq_Type

TTCN-3 Union T	TTCN-3 Union Type		
Name	PDCP_CountReq_Type		
Comment			
Get	PdcpCountGetReq_Type	Request PDCP count for one or all RBs being configured at the PDCP	
Set	PdcpCountInfoList Type	Set PDCP count for one or all RBs being configured at the PDCP; list for RBs which's COUNT shall be manipulated	

PDCP_CountCnf_Type

TTCN-3 Union Type			
Name	PDCP_CountCnf_Type		
Comment			
Get	PdcpCountInfoList Type	RBs in ascending order; SRBs first	
Set	Null Type		

D.1.12 PDCP_Handover

Primitives to control PDCP regarding handover

PDCP_HandoverInit_Type

TTCN-3 Record	Туре	
Name	PDCP_HandoverInit_Type	
Comment		
SourceCellId	EUTRA_Cellid_Type	

PDCP_HandoverControlReq_Type

TTCN-3 Union T	TTCN-3 Union Type		
Name	PDCP_HandoverControlReq_Type		
Comment			
HandoverInit	PDCP HandoverInit Type	to inform SS that a handover will follow: in the common ASP part the CellId shall be set to the id of the target cell	
HandoverComp lete	Null Type	to inform SS that the handover has successfully been performed by the UE; this shall trigger the SS to sent a PDCP Status Report to the UE; in the common ASP part the CellId shall be set to the id of the target cell	

D.1.13 L1_MAC_Test_Mode

Primitive for control of L1/MAC Test Modes

L1_TestMode_Type

TTCN-3 Record Type			
Name	L1_TestMode_Type		
Comment	L1 test mode; in general RACH is handled separately		
DL_SCH_CRC	DL_SCH_CRC_Type		Manipulation of CRC bit generation for DL-SCH
Phich	PhichTestMode_Type		HARQ feedback mode on the PHICH

DL_SCH_CRC_Type

TTCN-3 Union	TTCN-3 Union Type		
Name	DL_SCH_CRC_Type		
Comment	NOTE:		
	CRC error mode for RA_RNTI is no	t addressed as it will be configured in RACHProcedureConfig	
C_RNTI	MAC Test DL SCH CRC Mode	to configure mode for CRC bit for all MAC PDU's for which C-	
	_Type	RNTI is used in PDCCH transmission	
SI_RNTI	MAC_Test_DL_SCH_CRC_Mode	to configure mode for CRC bit for all MAC PDU's for which SI-	
	_Type	RNTI is used in PDCCH transmission	
SPS_RNTI	MAC Test DL SCH CRC Mode	to configure mode for CRC bit for all MAC PDU's for which SPS-	
	<u>Type</u>	RNTI is used in PDCCH transmission	

D.1.14 PDCCH_Order

Primitive to trigger SS to send PDCCH order to initiate RA procedure (TS 36.321, clause 5.1.1)

PDCCH_Order: Basic Type Definitions

TTCN-3 Basic Types				
PrachPreambleIndex_Typ	Ra PreambleIndex Type			
е				
PrachMaskIndex_Type	integer (015)	TS 36.321, clause 7.3		

RA_PDCCH_Order_Type

TTCN-3 Record	TTCN-3 Record Type		
Name	RA_PDCCH_Order_Type		
Comment	see also TS 36.212, clause 5.3.3.1.3		
PreambleIndex	PrachPreambleIndex_Type		naming acc. TS 36.212, clause 5.3.3.1.3
PrachMaskInde	PrachMaskIndex_Type		naming acc. TS 36.212, clause 5.3.3.1.3
Х			

D.1.15 System_Indications

Primitives for System indications

System_Indications: Basic Type Definitions

TTCN-3 Basic Types			
PRTPower_Type	<u>Dummy Type</u>	needs to define appropriately the power level report of PREAMBLE_RECEIVED_TARGET_POWER; NOTE: for the time being this is just a place holder for enhancements in the future.	
LogicalChannelGroup_Ty	integer (03)		
pe			
BSR_Value_Type	integer (063)		
PHR_Type	integer (063)		
RI_Type	integer (14)	Rank indicator reported acc. to TS 36.212	
		Table 5.2.2.6-6	

HarqProcessInfo_Type

TTCN-3 Record	TTCN-3 Record Type		
Name	HarqProcessInfo_Type		
Comment			
Id	HarqProcessId_Type		
CURRENT_TX _NB	integer	acc. to TS 36.321 clause 5.4.2.2	

HarqError_Type

TTCN-3 Union T	TTCN-3 Union Type		
Name	HarqError_Type		
Comment			
UL	HarqProcessInfo Type	indicates HARQ error detected at the SS side (error at UL transmission)	
DL	HarqProcessInfo Type	indicates HARQ NACK sent by the UE (error at DL transmission)	

RachPreamble_Type

TTCN-3 Record Type		
Name	RachPreamble_Type	
Comment		
RAPID	PrachPreambleIndex Type	indicates the RAPID of the preamble used (integer (063))
PRTPower	PRTPower Type	represents the PREAMBLE_RECEIVED_TARGET_POWER

Short_BSR_Type

TTCN-3 Record Type			
Name	Short_BSR_Type		
Comment			
LCG	LogicalChannelGroup Type	Logical channel Group	
Value	BSR Value Type	BSR or Extended BSR value	

Long_BSR_Type

TTCN-3 Record Type		
Name	Long_BSR_Type	
Comment		
Value_LCG1	BSR Value Type	BSR or Extended BSR value for LCG 1
Value_LCG2	BSR Value Type	BSR or Extended BSR value for LCG 2
Value_LCG3	BSR Value Type	BSR or Extended BSR value for LCG 3
Value_LCG4	BSR Value Type	BSR or Extended BSR value for LCG 4

BSR_Type

TTCN-3 Union Type		
Name	BSR_Type	
Comment		
Short	Short BSR Type	
Truncated	Short BSR Type	
Long	Long BSR Type	

HARQ_Type

TTCN-3 Enumerated Type	
Name	HARQ_Type
Comment	ack represents HARQ ACK; nack represents HARQ_NACK
ack	
nack	

RIcDiscardInd_Type

TTCN-3 Record Type			
Name	RlcDiscardInd_Type		
Comment	SS shall send this indication if 5.1.3.2.2.	it disc	cards a received RLC AMD PDU as specified in TS 36.322 cl.
SequenceNum ber	integer		sequence number of the PDU being discarded

SRSInd_Type

TTCN-3 Enumerated Type		
Name	SRSInd_Type	
Comment		
SRS_Start	SS was not receiving SRS in the frames configured for periodic SRS, and SS has started reception of higher layer configured SRS in frame meant for periodic SRS transmission	
SRS_Stop	SS was receiving SRS in the frames configured for periodic SRS, and SS has stopped reception of higher layer configured SRS in frame meant for periodic SRS transmission	

D.1.16 System_Interface

${\bf SYSTEM_CTRL_REQ}$

d Type	
SYSTEM_CTRL_REQ	
RegAspCommonPart Type	TimingInfo depends on respective primitive:
ReqAspCommonPart Type SystemRequest Type	TimingInfo depends on respective primitive: - Cell TimingInfo: 'now' (in general) - CellAttenuationList TimingInfo: 'now' (in general, but activation time may be used also) - RadioBearerList TimingInfo: 'now' in general; activation time may be used in special case for release and/or reconfiguration of one or several RBs; the following rules shall be considered: - release/Reconfiguration of an RB shall not be scheduled ealier than 5ms after a previous data transmission on this RB - subsequent release and reconfiguration(s) shall be scheduled with an interval of at least 5ms - a subsequent data transmission on an RB shall not be scheduled ealier than 5ms after the last reconfiguration of the RB the configuration shall be performed exactly at the given time - EnquireTiming TimingInfo: 'now' - AS_Security TimingInfo: 'now'; NOTE: "activation time" may be specified in the primitive based on PDCP SQN - Sps TimingInfo: activation time for SPS assignment transmission - Paging TimingInfo: Calculated paging occassion - L1MacIndCtrl TimingInfo: 'now' (in general) - PdcpCount TimingInfo: 'now' (in general) activation time may be used in case of CA inter cell handover to set the PdcpCount - L1_TestMode TimingInfo: depends on the test mode; activation time is used e.g. for manipulation of the CRC
	ReqAspCommonPart Type

$SYSTEM_CTRL_CNF$

TTCN-3 Record Type		
Name	SYSTEM_CTRL_CNF	
Comment		
Common	CnfAspCommonPart_Type	TimingInfo is ignored by TTCN (apart from EnquireTiming) => SS may set TimingInfo to "None"
Confirm	SystemConfirm Type	

${\bf SYSTEM_IND}$

TTCN-3 Record Type		
Name	SYSTEM_IND	
Comment		
Common	IndAspCommonPart Type	The SS shall provide TimingInfo (SFN + subframe number) depending on the respective indication:
Indication	SystemIndication_Type	- Error/HarqError TimingInfo: related to the error (if available) - RachPreamble TimingInfo: shall indicate start of the RACH preamble - SchedReq TimingInfo: subframe containing the SR - BSR TimingInfo: subframe in which the MAC PDU contains the BSR - UL_HARQ TimingInfo: subframe containing the UL HARQ - C_RNTI TimingInfo: subframe in which the MAC PDU contains the C_RNTI - PHR TimingInfo: subframe in which the MAC PDU contains the PHR

EUTRA_SYSTEM_PORT

TTCN-3 Port Type		
Name	EUTRA_SYSTEM_PORT	
Comment	EUTRA PTC: Port for system configuration	
out	SYSTEM CTRL REQ	
in	SYSTEM CTRL CNF	

EUTRA_SYSIND_PORT

TTCN-3 Port Type	
Name	EUTRA_SYSIND_PORT
Comment	EUTRA PTC: Port for system indications
in	SYSTEM IND

D.1.17 MBMS_Configuration

EUTRA_ASP_TypeDefs: Constant Definitions

TTCN-3 Basic Types						
tsc_MaxMRB	integer	32	maximum MRB used in test cases - Value arbitrarily set to 32 (5bits) Theorically the maximum value is maxPMCH-PerMBSFN * maxSessionPerPMCH i.e. 15*29			

MBMS_Config_Type

TTCN-3 Record Type			
Name	MBMS_Config_Type		
Comment	all fields are optional to allow activation time is applied in th		
Mbsfn_Subfra meConfigList	MBSFN_SubframeConfigLi st	opt	Configure subframes reserved for MBSFN
MbsfnAreaList	MbsfnAreaList_Type	opt	Configure all MBSFN areas

MbsfnAreaList_Type

TTCN-3 Record of Type				
Name MbsfnAreaList_Type				
Comment				
record length(1maxMBSFN_Area) of MbsfnArea Type				

MbsfnArea_Type

TTCN-3 Record	TTCN-3 Record Type			
Name	MbsfnArea_Type			
Comment				
Mbsfn_AreaInf o	MBSFN_AreaInfo_r9	opt	Configure MCCH scheduling acc. to TS 36. 331 cl 9.1.1.4 there is no PDCP and MCCH use the RLC-UM mode configuration/scheduling and contents of the MCCH Information is done in one go (i.e. there are no separate ports for MCCH data and configuration)	
McchData	MCCH_Data_Type	opt	MCCH information to be broadcasted	
MbsfnAreaConf iguration	MBSFNAreaConfiguration_r	opt	Configuration parameters for CommonCSA/PMCH/MTCH	
MRB_List	MRB List Type	opt	Configure/release MTCH MRBs	

MCCH_Data_Type

TTCN-3 Record Type			
Name	MCCH_Data_Type		
Comment			
Mbsfn_Areald	Mbsfn_Areald_r9_Type	opt	Used only for modification of MCCH info. Omitted if Mbsfn_AreaInfo is present and mandatory present otherwise
MsgList	MCCH_MessageList_Type		

MCCH_MessageList_Type

TTCN-3 Record of Type				
Name	MCCH_MessageList_Type			
Comment	Includes mbsfnAreaConfiguration-r9 and optionally mbmsCountingRequest-r10.			
record length(12) of MCCH_Message				

MRB_List_Type

TTCN-3 Record of Type			
Name	MRB_List_Type		
Comment			
record length(1 tsc MaxMRB) of MRB Type			

MRB_Type

TTCN-3 Record	TTCN-3 Record Type			
Name	MRB_Type			
Comment				
PmchLogicalCh annel	PmchLogicalChannel Type			
Config	MTCH_Config_Type	opt	present for MRB_COMMON_REQ for MTCH data scheduling; not present for SystemRequest_Type MSI_Conf	

MSI_Config_Type

TTCN-3 Union T	ype	
Name	MSI_Config_Type	
Comment		
None	<u>ΜπΩΗτΩωμfigInfo</u> Type	Add/Mesignification Release
Auto	MSI MCE Type	Csib duidentifically ithousels being ହେବିଷ୍ମାଙ୍କର the first subframes Randicaled ଦେମ୍ବର୍ଥ CH within the MCH scheduling period TimingInfo: 'Now' in common cases
MSI_Type		ControlInfo: CnfFlag:=true; FollowOnFlag:=false (in general)
Moi_i ypc		
TTCN-3 Record		
Name		
Comment		
LchID		
StopMTCH		
MOL MOE To		
MSI_MCE_Ty		
pe		
Name Comment record of MSI		
MTCH_Confi		
g_Type		
TTCN-3 Union		
Name		
Comment		
AddOrReconfig		
ure		
Release	Null Type	release RB - CellId: identifier of the cell being configured RoutingInfo: none TimingInfo: 'Now' in common cases ControlInfo: CnfFlag:=true; FollowOnFlag:=false (in general)

MTCH_ConfigInfo_Type

TTCN-3 Record Type			
Name	MTCH_ConfigInfo_Type		
Comment	Acc. to TS 36. 331 cl 9.1.1.4 t	there i	s no PDCP and MTCH use the RLC-UM mode
Rlc	RLC_Configuration_Type	opt	Mandatory for initial configuration; omit means "keep as it is"
			Note RLC DL only UM mode with SN 5 bits is only valid
Mac	MAC MCH TestModeConfi	opt	
	a Type		

MAC_MCH_TestModeConfig_Type

TTCN-3 Union Type			
Name	MAC_MCH_TestModeConfig_Ty	pe	
Comment			
None	Null_Type	MAC operation in normal mode for MCH	
Config	Null_Type	MAC is configured in no header manipulation in DL [MTCH is DL only channel]	

PDCCH_MCCH_ChangeNotification_Type

TTCN-3 Record	TTCN-3 Record Type			
Name	PDCCH_MCCH_ChangeNotification_Type			
Comment				
NotificationIndi	NotificationIndicator r9 Typ			
cator_r9	<u>e</u>			
SubframeOffset List	SubframeOffsetList_Type	opt	list of subframe offsets relative to the absolute timing information given in the common part of the ASP; if present, multiple MCCH Change Notifications are sent out at all occasions given by the list; if omitted only a single MCCH Change Notifications is sent at the occasion given timing information given in the common part of the ASP	

PmchConfig_Type

TTCN-3 Record Type				
Name	PmchConfig_Type			
Comment				
RelativeTxPow er	ToRS EPRE Ratios Type	opt	power ratio for MBSFN-RS and PMCH's resource elements relative to the CRS	

D.2 EUTRA_ASP_DrbDefs

ASP interface for DRBs

D.2.1 PDU_TypeDefs

D.2.1.1 MAC_PDU

MAC_PDU: Basic Type Definitions

TTCN-3 Basic Types		
MAC_CTRL_C_RNTI_Typ	C_RNTI	TS 36.321, clause 6.1.3.2
е		
MAC_CTRL_ContentionR esolutionId_Type	ContentionResolutionId_Type	TS 36.321, clause 6.1.3.4 fix 48-bit size; consists of a single field defined UE Contention Resolution Identity (uplink CCCH SDU transmitted by MAC)
MAC_CTRL_TimingAdvan ce_Type	B8_Type	TS 36.321, clause 6.1.3.5 indicates the amount of timing adjustment in 0.5 ms that the UE has to apply; the length of the field is [8] bits
MAC_SDU_Type	octetstring	

MAC_PDU_Length_Type

TTCN-3 Record Type				
Name	MAC_PDU_Length_Type			
Comment	NOTE: since F and L field are either both present or both omitted they are put into this record; to allow homogeneous (direct) encoding the PDU length is not defined as union; TTCN-3 does allow length restrictions to one length or a range of length but not to two specific lengthes; further restriction may be achieved by appropriate templates (parameter either 7 or 15 bit)			
Format	B1 Type	F: The Format field indicates the size of the Length field as indicated in table 6.2.1-3. There is one F field per MAC PDU subheader except for the last subheader and sub-headers corresponding to fixed-sized MAC control elements. The size of the F field is 1 bit. If the size of the MAC SDU or MAC control element is less than 128 bytes, the UE shall set the value of the F field to 0, otherwise the UE shall set it to 1		
Value	B7 15 Type	L: The Length field indicates the length of the corresponding MAC SDU or MAC control element in bytes. There is one L field per MAC PDU subheader except for the last subheader and sub-headers corresponding to fixed-sized MAC control elements. The size of the L field is indicated by the F field		

MAC_PDU_SubHeader_Type

TTCN-3 Record Type				
Name	MAC_PDU_SubHeader_Type	ре		
Comment				
Reserved	B2_Type		Reserved bits	
Extension	B1_Type		E: The Extension field is a flag indicating if more fields are present in the MAC header or not. The E field is set to "1" to indicate another set of at least R/R/E/LCID fields. The E field is set to "0" to indicate that either a MAC SDU, a MAC control element or padding starts at the next byte	
LCID	B5 Type		LCID: The Logical Channel ID field identifies the logical channel instance of the corresponding MAC SDU or the type of the corresponding MAC control element or padding as described in tables 6.2.1-1 and 6.2.1-2 for the DL and UL-SCH respectively. There is one LCID field for each MAC SDU, MAC control element or padding included in the MAC PDU. The LCID field size is 5 bits; NOTE: In case of DRX command the sub-header corresponds to a control element of length zero (i.e. there is no control element)	
Length	MAC_PDU_Length_Type	opt	(not allowed to the common ordinary)	

MAC_Header_Type

TTCN-3 Record of Type		
Name	MAC_Header_Type	
Comment		
record of MAC_PDU_S	SubHeader_Type	

${\bf MAC_CTRL_ShortBSR_Type}$

TTCN-3 Record Type		
Name	MAC_CTRL_ShortBSR_Type	
Comment	TS 36.321, clause 6.1.3.1	
LCG	B2 Type	
Value	B6 Type	

MAC_CTRL_LongBSR_Type

TTCN-3 Record Type		
Name	MAC_CTRL_LongBSR_Type	
Comment	TS 36.321, clause 6.1.3.1	
Value_LCG1	B6 Type	
Value_LCG2	B6 Type	
Value_LCG3	B6 Type	
Value_LCG4	B6 Type	

MAC_CTRL_PowerHeadRoom_Type

TTCN-3 Record Type			
Name	MAC_CTRL_PowerHeadRoom_Type		
Comment	TS 36.321, clause 6.1.3.6		
Reserved	B2 Type		
Value	B6 Type		

MAC_CTRL_ElementList_Type

TTCN-3 Set Type	TTCN-3 Set Type			
Name	MAC_CTRL_ElementList_Type			
Comment	NOTE 1:			
	for simplicication UL and DL a	are not	distiguished even though the control elements are either UL or DL	
	NOTE 2:			
	type is defined as set: the ord			
	nevertheless the ordering is w			
	•		y case necessary to evaluate the sub-header information in order	
	to encode/decode the payload	t		
ShortBSR	MAC_CTRL_ShortBSR_Ty	opt	UL only	
	<u>pe</u>			
LongBSR	MAC CTRL LongBSR Typ	opt	UL only	
	<u>e</u>			
C_RNTI	MAC CTRL C RNTI Type	opt	UL only	
ContentionRes	MAC CTRL ContentionRe	opt	DL only	
olutionID	solutionId Type			
TimingAdvance	MAC_CTRL_TimingAdvanc	opt	DL only	
	<u>e Type</u>			
PowerHeadRo	MAC CTRL PowerHeadRo	opt	UL only	
om	om_Type			
ScellActDeact	MAC_CTRL_ScellActDeact	opt	DL only	
	<u>Type</u>			
ExtPowerHead	MAC CTRL ExtPowerHea	opt	UL only. Only one among PowerHeadroom and	
Room	dRoom_Type		ExtPowerHeadroom may be present	

MAC_SDUList_Type

TTCN-3 Record of Type		
Name	MAC_SDUList_Type	
Comment		
record of MAC SDU Type		

MAC_PDU_Type

TTCN-3 Record	TTCN-3 Record Type			
Name	MAC_PDU_Type			
Comment				
Header	MAC Header Type		list of MAC PDU SubHeaders corresponding to MAC control elements and MAC SDUs	
CtrlElementList	MAC_CTRL_ElementList_T ype	opt	Mac control elements; acc. to TS 36.321, clause 6.1.2 "MAC control elements, are always placed before any MAC SDU."	
SduList	MAC SDUList Type	opt	MAC SDUs, which can typically be RLC PDUs	
Padding	octetstring	opt	Octet aligned Padding if more than or equal to 2 bytes	

MAC_PDUList_Type

TTCN-3 Record of Type		
Name	MAC_PDUList_Type	
Comment		
record of MAC_PDU_Type		

D.2.1.2 RLC_PDU

D.2.1.2.1 Common

RLC PDU definition: common AM/UM field definitions

Common: Basic Type Definitions

TTCN-3 Basic Types	TTCN-3 Basic Types		
RLC_FramingInfo_Type	B2_Type	First byte of the Data field corresponds to the first byte of a RLC SDU. Last byte of the Data field corresponds to the last byte of a RLC SDU. 01 - First byte of the Data field corresponds to the first byte of a RLC SDU. Last byte of the Data field does not correspond to the last byte of a RLC SDU. 10 - First byte of the Data field does not correspond to the first byte of a RLC SDU. 11 - First byte of the Data field corresponds to the last byte of a RLC SDU. 11 - First byte of the Data field does not correspond to the first byte of a RLC SDU. 11 - First byte of the Data field does not correspond to the first byte of a RLC SDU. Last byte of the Data field does not correspond to the last byte of a RLC SDU.	

RLC_LengthIndicator_Type

TTCN-3 Record	TTCN-3 Record Type			
Name	RLC_LengthIndicator_Type			
Comment				
Extension	B1 Type	0 - Data field follows from the octet following the LI field following this E field 1 - A set of E field and LI field follows from the bit following the LI field following this E field		
LengthIndicator	B11 Type	Length Indicator		

RLC_LI_List_Type

TTCN-3 Record of Type		
Name	RLC_LI_List_Type	
Comment		
record of RLC LengthIndicator Type		

RLC_PDU_Header_FlexPart_Type

TTCN-3 Record Type			
Name	RLC_PDU_Header_FlexPart_Type		
Comment	Flexible part of the header with a number of K LIs		
LengthIndicator	RLC LI List Type List of E, LI fields		
Padding	B4 Type optional 4 bit padding present in case of odd number of LI's		

D.2.1.2.2 TM_Data

RLC PDU definition: UM (TS 36.322, clause 6.2.1.2)

TM_Data: Basic Type Definitions

TTCN-3 Basic Types			
RLC_TMD_PDU_Type	octetstring	TS 36.322, clause 6.2.1.2	

D.2.1.2.3 UM_Data

RLC PDU definition: UM (TS 36.322, clause 6.2.1.3)

NOTE:

To allow direct encoding the definition for RLC UM Data PDU is split into data PDU with 5/10 bit sequence number

UM_Data: Basic Type Definitions

TTCN-3 Basic Types		
RLC_DataField_Type	octetstring	restrictions imposed from LI size of 11 bits is not applicable when the LI's are not present

RLC_UMD_Header_FixPartShortSN_Type

TTCN-3 Record	TTCN-3 Record Type			
Name	RLC_UMD_Header_FixPartShortSN_Type			
Comment	TS 36.322, clause 6.2.1.3 Figure 6.2.1.3-1, 6.2.1.3-3 and 6.2.1.3-4);			
	one octet			
FramingInfo	RLC FramingInfo Type	2 bits FI		
Extension	B1_Type	1 bit E		
SequenceNum	B5 Type	5 bits SN		
ber				

$RLC_UMD_Header_FixPartLongSN_Type$

TTCN-3 Record	TTCN-3 Record Type			
Name	RLC_UMD_Header_FixPartLongSN_Type			
Comment	TS 36.322, clause 6.2.1.3 Fig	TS 36.322, clause 6.2.1.3 Figure 6.2.1.3-2, 6.2.1.3-5 and 6.2.1.3-6);		
	two octets			
Reserved	B3 Type	3 bits reserved		
FramingInfo	RLC_FramingInfo_Type	2 bits FI		
Extension	B1_Type	1 bit E		
SequenceNum	B10_Type	10 bits SN		
ber	·			

RLC_UMD_HeaderShortSN_Type

TTCN-3 Record	TTCN-3 Record Type		
Name	RLC_UMD_HeaderShortSN	Type	
Comment			
FixPart	RLC UMD Header FixPart		
	ShortSN Type		
FlexPart	RLC PDU Header FlexPa	opt	
	rt_Type		

$RLC_UMD_HeaderLongSN_Type$

TTCN-3 Record	TTCN-3 Record Type		
Name	RLC_UMD_HeaderLongSN_	Туре	
Comment			
FixPart	RLC_UMD_Header_FixPart		
	LongSN Type		
FlexPart	RLC PDU Header FlexPa	opt	
	<u>rt_Type</u>		

RLC_DataFieldList_Type

TTCN-3 Record of Type		
Name	RLC_DataFieldList_Type	
Comment One to one correspondence with sub headers (LengthIndicatorList_Type)		
record of RLC_DataField_Type		

RLC_UMD_PDU_ShortSN_Type

TTCN-3 Record	TTCN-3 Record Type		
Name	RLC_UMD_PDU_ShortSN_Type		
Comment			
Header	RLC UMD HeaderShortSN _Type		
Data	RLC_DataFieldList_Type		

RLC_UMD_PDU_LongSN_Type

TTCN-3 Record Type		
Name	RLC_UMD_PDU_LongSN_Type	
Comment		
Header	RLC_UMD_HeaderLongSN Type	
Data	RLC DataFieldList Type	

RLC_UMD_PDU_Type

TTCN-3 Union Type		
Name	RLC_UMD_PDU_Type	
Comment		
ShortSN	RLC UMD PDU ShortSN Type	
LongSN	RLC UMD PDU LongSN Type	

D.2.1.2.4 AM_Data

RLC PDU definition: AM (TS 36.322, clause 6.2.1.4 and 6.2.1.5)

RLC_AMD_Header_FixPart_Type

TTCN-3 Record	TTCN-3 Record Type			
Name	RLC_AMD_Header_FixPart_1	RLC_AMD_Header_FixPart_Type		
Comment	TS 36.322, clause 6.2.1.4 Figure 6.2.1.4-1, 6.2.1.4-2 and 6.2.1.4-3); 2 or 4 octets			
D_C	B1 Type		0 - Control PDU	
			1 - Data PDU	
ReSeg	B1_Type		0 - AMD PDU	
			1 - AMD PDU segment	
Poll	B1 Type		0 - Status report not requested	
			1 - Status report is requested	
FramingInfo	RLC FramingInfo Type		2 bit FI	
Extension	B1 Type		1 bit E	
SN	B10_Type		Sequence numbers	

RLC_AMD_Header_SegmentPart_Type

TTCN-3 Record	TTCN-3 Record Type		
Name	RLC_AMD_Header_Segmen	tPart_Type	
Comment	AMD PDU segment related in	fo in PDU header acc. TS 36.322, clause 6.2.1.5	
LastSegmentFl ag	B1 Type	O - Last byte of the AMD PDU segment does not correspond to the last byte of an AMD PDU 1 - Last byte of the AMD PDU segment corresponds to the last byte of an AMD PDU	
SegOffset	B15 Type	The SO field indicates the position of the AMD PDU segment in bytes within the original AMD PDU. Specifically, the SO field indicates the position within the Data field of the original AMD PDU to which the first byte of the Data field of the AMD PDU segment corresponds to.	

RLC_AMD_Header_Type

TTCN-3 Record	TTCN-3 Record Type		
Name	RLC_AMD_Header_Type		
Comment			
FixPart	RLC AMD Header FixPart _Type		
SegmentPart	RLC AMD Header Segme ntPart Type	opt	present in case of AMD Seg PDU only
FlexPart	RLC PDU Header FlexPa	opt	

RLC_AMD_PDU_Type

TTCN-3 Record	TTCN-3 Record Type		
Name	RLC_AMD_PDU_Type		
Comment			
Header	RLC AMD Header Type		
Data	RLC DataFieldList Type		

D.2.1.2.5 AM_Status

AM Status PDU (TS 36.322, clause 6.2.1.6)

AM_Status: Basic Type Definitions

TTCN-3 Basic Types				
RLC_Status_Padding_Ty	bitstring length (17)	NOTE:		
pe		in TTCN-3 length restriction cannot be done		
		inline in record definition		
		=> explicit type definition necessary		

RLC_Status_ACK_Type

TTCN-3 Record	TTCN-3 Record Type			
Name	RLC_Status_ACK_Type			
Comment				
ACK_SN	B10_Type	Acknowledgement SN (TS 36.322, clause 6.2.2.14)		
Extn1	B1 Type	0 - a set of NACK_SN, E1 and E2 does not follow.		
		1 - a set of NACK_SN, E1 and E2 follows.		

RLC_Status_SegOffset_Type

TTCN-3 Record	TTCN-3 Record Type		
Name	RLC_Status_SegOffset_Type		
Comment			
Start	B15_Type	SOstart field indicates the position of the first byte of the portion of the AMD PDU in bytes within the Data field of the AMD PDU	
End	B15 Type	SOend field indicates the position of the last byte of the portion of the AMD PDU in bytes within the Data field of the AMD PDU. The special SOend value '111111111111111111111111111111111111	

RLC_Status_NACK_Type

TTCN-3 Record Type			
Name	RLC_Status_NACK_Type		
Comment			
NACK_SN	B10 Type		
Extn1	B1 Type		0 - A set of NACK_SN, E1 and E2 does not follow. 1 - A set of NACK_SN, E1 and E2 follows.
Extn2	B1_Type		0 - A set of SOstart and SOend does not follow for this NACK_SN.1 - A set of SOstart and SOend follows for this NACK_SN.
SO	RLC_Status_SegOffset_Ty pe	opt	

RLC_Status_NACK_List_Type

TTCN-3 Record of Type		
Name RLC_Status_NACK_List_Type		
Comment		
record of RLC Status NACK Type		

RLC_AM_StatusPDU_Type

TTCN-3 Record Type				
Name	RLC_AM_StatusPDU_Type	RLC_AM_StatusPDU_Type		
Comment				
D_C	B1 Type		0 - Control PDU	
			1 - Data PDU	
Type	B3 Type	000 - STATUS PDU		
		001111 - Reserved (=> PDU to be discarded by the receiving		
		entity for this release of the protocol)		
Ack	RLC Status ACK Type		ACK_SN and E1 bit	
NackList	RLC Status NACK List T	opt	presence depends on Extn1 bit of Ack filed	
	<u>ype</u>		(RLC_Status_ACK_Type)	
Padding	RLC_Status_Padding_Type	opt	17 bit padding if needed for octet alignment	

RLC_PDU: Basic Type Definitions

TTCN-3 Basic Types		
RLC_SDU_Type	octetstring	

RLC_PDU_Type

TTCN-3 Union	TTCN-3 Union Type	
Name	RLC_PDU_Type	
Comment		
TMD	RLC_TMD_PDU_Type	
UMD	RLC_UMD_PDU_Type	
AMD	RLC AMD PDU Type	
Status	RLC_AM_StatusPDU_Type	

RLC_PDUList_Type

TTCN-3 Record of Type		
Name RLC_PDUList_Type		
Comment		
record of RLC PDU Type		

RLC_SDUList_Type

TTCN-3 Record of Type		
Name	RLC_SDUList_Type	
Comment		
record of RLC SDU Type		

D.2.1.3 PDCP

PDCP user plane SDU and PDU definitions

NOTE:

To allow direct encoding the definition for PDCP Data PDU is split into data PDU with long/short sequence number

PDCP: Basic Type Definitions

TTCN-3 Basic Types		
PDCP_SDU_Type	octetstring	

PDCP_SDUList_Type

TTCN-3 Record of Type		
Name PDCP_SDUList_Type		
Comment		
record of PDCP_SDU_Type		

PDCP_DataPdu_LongSN_Type

TTCN-3 Record Type				
Name	PDCP_DataPdu_LongSN_Type			
Comment	User plane PDCP Data PDU w	User plane PDCP Data PDU with long sequence number (TS 36.323, clause 6.2.3)		
D_C	B1 Type	0 - Control PDU 1 - Data PDU		
Reserved	B3 Type			
SequenceNum ber	B12 Type	12 bit sequence number		
SDU	PDCP_SDU_Type	content (octetstring)		

PDCP_DataPdu_ShortSN_Type

TTCN-3 Record Type			
Name	PDCP_DataPdu_ShortSN_Type		
Comment	User plane PDCP Data PDU with short sequence number (TS 36.323, clause 6.2.4)		
D_C	B1_Type		0 - Control PDU
			1 - Data PDU
SequenceNum	B7 Type		7 bit sequence number
ber			
SDU	PDCP_SDU_Type		content (octetstring)

PDCP_DataPdu_ExtSN_Type

TTCN-3 Record Type				
Name	PDCP_DataPdu_ExtSN_Typ	PDCP_DataPdu_ExtSN_Type		
Comment	User plane PDCP Data PDU	th extended sequence number (TS 36.323, clause 6.2.9)		
D_C	B1 Type	0 - Control PDU 1 - Data PDU		
SequenceNum ber	B15_Type	15 bit sequence number		
SDU	PDCP_SDU_Type	content (octetstring)		

PDCP_Ctrl_ROHC_FB_PDU_Type

TTCN-3 Record Type				
Name	PDCP_Ctrl_ROHC_FB_PDU	PDCP_Ctrl_ROHC_FB_PDU_Type		
Comment	PDCP Control PDU for intersp	PDCP Control PDU for interspersed ROHC feedback packet (TS 36.323, clause 6.2.5)		
D_C	B1 Type	0 - Control PDU 1 - Data PDU		
Туре	B3_Type	000 - PDCP status report 001 - Header Compression Feedback Information 010111 - reserved		
Reserved	B4_Type			
ROHC_FB	octetstring	Contains one ROHC packet with only feedback, i.e. a ROHC packet that is not associated with a PDCP		

PDCP_Ctrl_StatusReport_Type

TTCN-3 Reco	TTCN-3 Record Type			
Name	PDCP_Ctrl_StatusReport_Type			
Comment	PDCP Control PDU for	PDCP status	s report (TS 36.323, clause 6.2.6)	
D_C	B1 Type		0 - Control PDU	
			1 - Data PDU	
Type	B3_Type		000 - PDCP status report	
			001 - Header Compression Feedback Information	
			010111 - reserved	
FMS	B12 Type		PDCP SN of the first missing PDCP SDU.	
Bitmap	octetstring	opt	The MSB of the first octet of the type "Bitmap" indicates whether or not the PDCP SDU with the SN (FMS + 1) modulo 4096 has been received and, optionally decompressed correctly. 0 - PDCP SDU with PDCP SN = (FMS + bit position) modulo 4096 is missing in the receiver. The bit position of Nth bit in the Bitmap is N, i.e. the bit position of the first bit in the Bitmap is 1. 1 - PDCP SDU with PDCP SN = (FMS + bit position) modulo 4096 does not need to be retransmitted. The bit position of Nth bit in the Bitmap is N, i.e. the bit position of the first bit in the Bitmap is 1.	

PDCP_Ctrl_StatusReportExt_Type

TTCN-3 Reco	TTCN-3 Record Type			
Name	PDCP_Ctrl_StatusReportExt_Type			
Comment	PDCP Control PDU for PDCF	statu	s report using a 15 bit SN (TS 36.323, clause 6.2.6)	
D_C	B1 Type		0 - Control PDU 1 - Data PDU	
Туре	B3_Type		000 - PDCP status report 001 - Header Compression Feedback Information 010111 - reserved	
Reserved	B5 Type		5 reserved bits	
FMS_Ext	B15_Type		PDCP SN of the first missing PDCP SDU.	
Bitmap	octetstring	opt	The MSB of the first octet of the type "Bitmap" indicates whether or not the PDCP SDU with the SN (FMS + 1) modulo (Maximum_PDCP_SN + 1) has been received and, optionally decompressed correctly. 0 - PDCP SDU with PDCP SN = (FMS + bit position) modulo (Maximum_PDCP_SN + 1) is missing in the receiver. The bit position of Nth bit in the Bitmap is N, i.e. the bit position of the first bit in the Bitmap is 1. 1 - PDCP SDU with PDCP SN = (FMS + bit position) modulo (Maximum_PDCP_SN + 1) does not need to be retransmitted. The bit position of Nth bit in the Bitmap is N, i.e. the bit position of the first bit in the Bitmap is 1.	

PDCP_PDU_Type

TTCN-3 Union T	TTCN-3 Union Type			
Name	PDCP_PDU_Type			
Comment				
DataLongSN	PDCP DataPdu LongSN Type	user plane PDCP data PDU with 12 Bit Seq Number		
DataShortSN	PDCP DataPdu ShortSN Type	user plane PDCP data PDU with 7 Bit Seq Number		
DataExtSN	PDCP DataPdu ExtSN Type	user plane PDCP data PDU with 15 Bit Seq Number		
RohcFeedback	PDCP Ctrl ROHC FB PDU Typ	PDCP Control PDU for interspersed ROHC feedback packet		
	<u>e</u>			
StatusReport	PDCP Ctrl StatusReport Type	PDCP Control PDU for PDCP status report		
StatusReportEx	PDCP_Ctrl_StatusReportExt_Typ	PDCP Control PDU for PDCP status report using a 15 bit SN		
t	<u>e</u>			

PDCP_PDUList_Type

TTCN-3 Record of Type		
Name	me PDCP_PDUList_Type	
Comment		
record of PDCP PDU Type		

D.2.2 DRB_Primitive_Definitions

Primitive definitions to send/receive data PDUs over DRB's

D.2.2.1 DRB_Common

U_PlaneDataList_Type

TTCN-3 Union	TTCN-3 Union Type			
Name	U_PlaneDataList_Type			
Comment	MAC:			
	any MAC PDU is completely in RLC:	acc. to rel-8 protocols there is not more than one MAC PDU per TTI; any MAC PDU is completely included in one subframe RLC:		
	(e.g. RLC Data + Status PDU more than one RLC Data PDU any RLC PDU is completely in PDCP:	one or more RLC PDUs per TTI (e.g. RLC Data + Status PDU on a logical channel; more than one RLC Data PDU in one MAC PDU is valid too) any RLC PDU is completely included in one subframe PDCP: one or more PDUs per TTI; one PDCP PDU may be included in more than one subframe		
MacPdu	MAC_PDUList_Type	SS configuration: RLC TM mode, MAC no header removal (PDCP is not configured)		
RlcPdu	RLC PDUList Type	SS configuration: RLC TM mode, MAC header removal (PDCP is not configured)		
PdcpPdu	PDCP_PDUList_Type	SS configuration: RLC AM/UM mode, PDCP no header removal		
PdcpSdu	PDCP_SDUList_Type	SS configuration: RLC AM/UM mode, PDCP header removal		
RlcSdu	RLC SDUList Type	SS configuration: RLC UM mode with no PDCP, for example MRB		

HarqProcessAssignment_Type

TTCN-3 Union Type			
Name	HarqProcessAssignment_Ty	ре	
Comment	in DL the HARQ process id ma	by be specified by the test case or automatically assigned by SS	
Id	HarqProcessId Type	HARQ process as specified by the test case NOTE1: the scope of this type is only for data being sent in one TTI; if data needs more than one TTI the HarqProcessId is undefined for the 2nd TTI onward what shall be handled as an error at the SS; SS may send a SYSTEM_IND indicating an error in this case; NOTE2: The initial value of the NDI shall be the same for all HARQ processes and cells	
Automatic	Null_Type	HARQ process id automatically assigned by SS	

D.2.2.2 Downlink

DRB_DataPerSubframe_DL_Type

TTCN-3 Record	TTCN-3 Record Type			
Name	DRB_DataPerSubframe_DL	_Type		
Comment	common definition for one or several PDUs/SDUs to be sent in the subframe given by the subframe offset; NOTE 1: For MAC and RLC PDUs a single PDU is always sent in one subframe; SS shall raise an error indication (using SYSTEM_IND) when that is not possible NOTE 2: For PDCP the data may be spread over more than one subframe (segmented by the RLC);			
			ible to calculate appropriate offsets accordingly;	
	the exact timing depends on (and is exactly specified by) configuration of the DL scheduling; SS shall raise an error when there is any conflict			
SubframeOffset	integer		subframe offset relative to the absolute timing information given in the common part of the ASP; NOTE 1: Notes: Acc. to TS 36.523-3, clause 7.3.3 in case of TDD or half-duplex configuration only subframes available for DL are taken into consideration NOTE 2: if a PDCP PDU or SDU takes more than one subframe, SubframeOffset specifies the first TTI	
HarqProcess	HarqProcessAssignment_T ype		HARQ process to be used: specific value (07) or automatically assigned by SS; in automatic mode SS chooses HARQ process out of the set configured by CcchDcchDtchConfigDL_Type.HarqProcessConfig NOTE: for PDCP SDUs or PDUs automatic mode shall be used; otherwise SS shall raise an error	
PduSduList	U_PlaneDataList_Type		list of PDUs/SDUs to be sent in one TTI	

DRB_DataPerSubframeList_DL_Type

TTCN-3 Record of Typ	TTCN-3 Record of Type		
Name	DRB_DataPerSubframeList_DL_Type		
Comment	list of user plane data to be sent in sub-frames given by the SubframeOffset in the single elements of the list; Timing: the start time for the whole sequence is given by the timing info of the ASP (common information); the timing for the respective data pdus is given by the SubframeOffset relative to the common timing info; design consideration: repetitions of this sequence are not foreseen (in which case the subframe offset could not be related to the timing info of the ASP)		
record of DRB_DataPerSubframe_DL_Type			

U_Plane_Request_Type

TTCN-3 Record Type		
Name	U_Plane_Request_Type	
Comment	NOTE: formal type definition to allow later enhancements;	
	U_Plane_Request_Type defines a sequence of subframes in which data shall be sent	
SubframeDataL	DRB DataPerSubframeList	
ist	_DL_Type	

D.2.2.3 Uplink

DRB_DataPerSubframe_UL_Type

TTCN-3 Record Type			
Name	DRB_DataPerSubframe_UL_Type		
Comment	common definition for one or several PDUs/SDUs being received in one subframe or to receive one PDCP PDU or SDU being spread over more than one TTI; NOTE: There is a fix relation between HARQ process id and subframe in UL => it is not necessary to include HARQ process id for UL data		
PduSduList	U_PlaneDataList_Type	list of PDUs/SDUs being received in one TTI; elements of the list appear in the same order as the PDUs/SDUs in the MAC PDU; for PDCP when a PDU or SDU takes more than one TTI the list only contains this PDU or SDU	
NoOfTTIs	integer	in case of PDCP: number of TTIs the SDU or PDU has taken NOTE 1: for the time being the NoOfTTIs is not checked by TTCN-3 and may be set to 1 by SS; NOTE 2: the timing info in common part of the ASP refers to the last TTI NOTE 3: when NoOfTTIs > 1 => PduSduList shall only contain one PDCP PDU or SDU in case of MAC or RLC PDUs: NoOfTTIs shall always be 1 (acc. to TS 36.321 MAC is not doing segmentation of RLC PDUs and acc. to TS 36.322, clause 6.2.2.2 the maximum RLC data is calculated to fit into a MAC PDU and RLC does segmentation accordingly)	

U_Plane_Indication_Type

TTCN-3 Record Type			
Name	U_Plane_Indication_Type		
Comment	NOTE: formal type definition to allow later enhancements;		
	U_Plane_Indication_Type defines data being received in a single subframe		
	i.e. PDUs of subsequent TTIs are indicated in separated ASPs		
SubframeData	DRB DataPerSubframe U		
	<u>L Type</u>		

D.2.3 MBMS_MRB_Primitive_Definitions

EUTRA_MRB_PORT

TTCN-3 Port Type		
Name	EUTRA_MRB_PORT	
Comment		
out	MRB COMMON REQ	

MRB_COMMON_REQ

TTCN-3 Record Type			
Name	MRB_COMMON_REQ		
Comment	common ASP to send PDUs to	MRBs	
Common	ReqAspCommonPart Type	CellId: identifier of the cell RoutingInfo: set to Mrb TimingInfo: starting point when to start sending sequence of data PDUs e.g. SFN = X, subframe number = x; U_Plane.SubframeDataList[i].SubframeOffset := offset_i; => U_Plane.SubframeDataList[i].PduSduList shall be sent out at SFN = X + ((x + offset_i) / 10); subframe number = (x + offset_i) % 10 ControlInfo: CnfFlag:=false; FollowOnFlag:=false	
U_Plane	U Plane Request Type	,	

D.2.4 System_Interface

DRB_COMMON_REQ

TTCN-3 Record	TTCN-3 Record Type		
Name	DRB_COMMON_REQ		
Comment	common ASP to send PDUs t	o DRE	Bs
Common	ReqAspCommonPart Type		CellId: identifier of the cell RoutingInfo: DRB id TimingInfo: starting point when to start sending sequence of data PDUs e.g. SFN = X, subframe number = x; U_Plane.SubframeDataList[i].SubframeOffset := offset_i; => U_Plane.SubframeDataList[i].PduSduList shall be sent out at SFN = X + ((x + offset_i) / 10); subframe number = (x + offset_i) % 10 ControlInfo: CnfFlag:=false; FollowOnFlag:=false
U_Plane	U Plane Request Type		
SuppressPdcch ForC_RNTI	Null_Type	opt	By default all DRB_COMMON_REQ scheduled DL PDU's are associated with an appropriate explicit configured or SS selected DL assignment allocation on PDCCH. For SuppressPdcch:=true in the sub frame in which DL PDU's are transmitted, there is no associated DL assignment allocation for configured C-RNTI. This will be used for SPS assignment based transmission or in any error scenarios; NOTE: this flag has no impact on PDCCH messages required for SPS activation

DRB_COMMON_IND

TTCN-3 Record Type		
Name	DRB_COMMON_IND	
Comment	common ASP to receive PDUs from DRBs	
Common	IndAspCommonPart_Type	CellId: identifier of the cell RoutingInfo: DRB id TimingInfo: time when message has been received NOTE 1: For MAC and RCL PDUs per definition U_Plane_Indication_Type corresponds to exactly one subframe => TimingInfo refers to this subframe NOTE 2: For PDCP a single PDU or SDU may take more than one TTI => TimingInfo refers to the end of the PDU/SDU and the length is given by NoOfTTIs in U_Plane_Indication_Type (the end of the PDU/SDU is the last RLC PDU being received; in case of retransmissions this is not necessarily the RLC PDU with the last SN)
U_Plane	U_Plane_Indication_Type	

EUTRA_DRB_PORT

TTCN-3 Port Type		
Name	EUTRA_DRB_PORT	
Comment		
out	DRB_COMMON_REQ	
in	DRB_COMMON_IND	

D.3 EUTRA_ASP_SrbDefs

D.3.1 SRB_DATA_ASPs

ASP Definitions to send/receive peer-to-peer messages on SRBs

C_Plane_Request_Type

TTCN-3 Record Type			
Name	C_Plane_Request_Type		
Comment	RRC and/or NAS PDU to be s	send to	o the UE;
	Note: it may be necessary to	allow r	more than one NAS PDU (-> "record of")
Rrc	RRC_MSG_Request_Type	opt	omit: NAS message shall be present; NAS message shall be sent in DLInformationTransfer present: if NAS message is present also, (piggybacked) NAS PDU shall be security protected (if necessary) and inserted in RRC PDU's DedicatedInfoNAS
Nas	NAS_MSG_RequestList_Ty pe	opt	omit: RRC message shall be present; RRC message does not contain (piggybacked) NAS PDU present: if RRC message is omitted => NAS message shall be sent embedded in DLInformationTransfer if RRC message is present => NAS message is piggybacked in RRC message in case of RRC message is sent on CCCH, NAS message shall be omitted NOTE: acc. DEC 08 ASN.1 RRCConnectionReconfiguration may contain DedicatedInfoNAS several times

C_Plane_Indication_Type

TTCN-3 Recor	TTCN-3 Record Type			
Name	C_Plane_Indication_Type			
Comment	RRC and/or NAS PDU to be re			
	Note: it may be necessary to a	allow r	more than one NAS PDU (-> "record of")	
Rrc	RRC_MSG_Indication_Typ	opt	omit: NAS message shall be present; NAS message is received in ULInformationTransfer present: if NAS message is present also, DedicatedInfoNAS contains unstructured and ciphered NAS message and the NAS message is the deciphered message in structured format	
Nas	NAS_MSG_IndicationList_T ype	opt	omit: RRC message shall be present; RRC message does not contain (piggybacked) NAS PDU present: if RRC message is omitted => NAS message has been received in ULInformationTransfer if RRC message is present => NAS message has been piggybacked in RRC message NOTE: even though currently (DEC 08 ASN.1) there is no RRC PDU in UL containing more than one DedicatedInfoNAS we provide a list to allow extendability	

${\bf SRB_COMMON_REQ}$

TTCN-3 Record Type				
Name	SRB_COMMON_REQ			
Comment	common ASP to send PDUs to SRB0, SRB1 or SRB2			
Common	ReqAspCommonPart Type	CellId identifier of the cell RoutingInfo SRB0, SRB1, SRB2 TimingInfo Now in normal cases; For latency tests TimingInfo can be set to the SFN/subframe in which the RRC messages shall be sent out (in this case and if the RRC PDU is too long to be sent in one TTI the TimingInfo corresponds to the first TTI) ControlInfo CnfFlag:=false; FollowOnFlag true: Indicates that the message(s) to be sent on the same TTI will follow NOTE 1: When FollowOnFlag is true, TimingInfo shall always be "Now". Otherwise SS shall produce an error NOTE 2: the follow on flag applies only for messages of the same SRB false: Indicates that no more message(s) will follow		
Signalling	C Plane Request Type			

SRB_COMMON_IND

TTCN-3 Record	TTCN-3 Record Type			
Name	SRB_COMMON_IND			
Comment	common ASP to receive PDUs	from SRB0, SRB1 or SRB2		
Common	IndAspCommonPart Type	CellId identifier of the cell RoutingInfo SRB0, SRB1, SRB2 TimingInfo time when message has been received (as received from the SS by the NAS emulator)		
Signalling	C Plane Indication Type			

D.3.2 Port_Definitions

EUTRA_SRB_PORT

TTCN-3 Port Type		
Name	EUTRA_SRB_PORT	
Comment	EUTRA PTC: Port for Sending/Receiving data on SRBs	
out	SRB COMMON REQ	
in	SRB COMMON IND	

NASEMU_SRB_PORT

TTCN-3 Port Type		
Name	NASEMU_SRB_PORT	
Comment	NASEMU PTC: Port for Sending/Receiving data on SRBs (interface to EUTRA PTC)	
Out	SRB COMMON IND	
In	SRB COMMON REQ	

D.4 IP_ASP_TypeDefs

General Notes:

NOTE 1:

In general the handling of IP data shall be independent from the RAT being used on lower layers.

NOTE 2:

It shall be possible for SS implementation to reuse existing IP stack implementations in the system adaptor;

therefore the well-known concept of socket programming shall be supported

(regardless of whether those are used in the system adaptor implementation or not)

NOTE 3:

Since in general at the network side there are several different IP addresses the SS needs to simulate more than one IP address;

that can be based on a concept of multiple virtual network adaptors

NOTE 4:

There is no easy way to control the routing of IP data for an IP connection from above the IP stack

i.e. there are no parameters at the socket interface to determine e.g. cell id and DRB id

=> another independent logical entity (DRB-MUX) is needed below the IP stack which is responsible to control the routing of IP packets from/to DRBs in different cells of different RATs

Reference:

An introduction to socket programming can be found in UNIX Network Programming Volume 1, Third Edition: The Sockets Networking API by W. Richard Stevens, Bill Fenner, Andrew M. Rudoff

D.4.1 IP Common

IP Common: Basic Type Definitions

TTCN-3 Basic Types		
PortNumber_Type	<u>UInt16_Type</u>	

IPv4_AddrInfo_Type

TTCN-3 Record Type			
Name	IPv4_AddrInfo_Type		
Comment	IPv4 specific info of the socket addr (AF_INET)		
Addr	charstring		IP Address as string (IP v4 dot notation) to be converted to 32-bit unsigned integer

IPv6_AddrInfo_Type

TTCN-3 Record	TTCN-3 Record Type			
Name	IPv6_AddrInfo_Type			
Comment	IPv6 specific info of the socket addr (AF_INET6);			
	NOTE: sin6_flowinfo can be i	gnored	d and set to 0	
Addr	charstring		to be converted to sin6_addr	
Scopeld	UInt32 Type	opt	sin6_scope_id in general an IPv6 address is like "fe80::1%eth0" with eth0 being the network adaptor mapped to a scope id (Unix) assumption: for UE conformance testing it is not necessary to distiguish different scopes and the scope id in general can be determined by the system adaptor => omit	

IP_AddrInfo_Type

TTCN-3 Union Type		
Name	IP_AddrInfo_Type	
Comment		
V4	IPv4 AddrInfo Type	
V6	IPv6 AddrInfo Type	

IP_Socket_Type

TTCN-3 Record Type				
Name	IP_Socket_Type			
Comment	Socket			
IpAddr	IP AddrInfo Type	opt	IP address	
Port	PortNumber Type	opt	port number	

InternetProtocol_Type

TTCN-3 Enumerated Type		
Name	InternetProtocol_Type	
Comment		
udp		
tcp		
icmp		
icmpv6		

IP_Connection_Type

TTCN-3 Record Type			
Name	IP_Connection_Type		
Comment	A connection between peer-to (udp/tcp/icmp/icmpv4), the local		entities is unambiguously defined by the protocol ket and the remote socket
Protocol	InternetProtocol_Type		
Local	IP Socket Type	opt	
Remote	IP_Socket_Type	opt	

D.4.2 IP_Config

Configuration of the routing table managed be the system adaptor's DRB-MUX:

foreach IP connection it is specified which

- RAT
- Cell
- DRB

to be used.

The IP connection does not need to be fully specified depending on the role SS plays (e.g. in case of a server role the port number of the remote side is not known in advance).

The configurations of DRBs within the same cell shall be mutual exclusive.

With the configuration of the IP routing the DRB is configured either in IP or in raw mode: either there are entries for the DRB in the routing table (IP mode) or not (raw mode)

=> It is not necessary to reconfigure this for the respective RAT.

Behaviour of the DRB-MUX in UL:

- SS gets data packet from the lower layers (e.g. PDCP SDU)
- SS checks whether there is any IP connection configured for this DRB (identified by {RAT, CellId, DrbId}) if YES => packet is routed to the IP stack (IP mode)

if NO => packet is handed over to the DRB port (raw mode)

NOTE 1:

If there is any entry for a DRB in the routing table this DRB is considered as being in IP mode and all UL IP packets are sent to the IP stack regardless of whether their addresses match the DRB's routing entries or not (in general 'unknown' packets are discarded by the IP stack)

=> a DRB can be either in IP or in raw mode

NOTE 2:

=> The SS does not need to evaluate any IP headers to decide whether data shall be routed to the DRB port or to the IP stack (i.e. there is no conflict with unstructured loopback data)

Behaviour of the DRB-MUX in DL:

- SS gets IP packets from the IP stack for an IP connection
- SS compares the IP connection (protocol, local/remote IP Addr) against the IP routing table and checks whether the corresponding protocol stack is configured at the lower layers =>
- 1. no match:

no entry in the routing table fits to the address in the IP packet or the corresponding RB is not configured

=> SS shall raise an error (DRBMUX_COMMON_IND_CNF.Error)

2. one match:

There is exactly one possibility to route the IP packet

=> SS shall send the packet to this RB

3. several matches:

There are more than one DRBs, cells or RATs to which the packet may be routed

=> SS shall raise an error if there is more than one DRB in one cell matching; if the DRBs belong to different cells or RATS SS shall send the data to all of them (whether this may occur in test cases is FFS)

General notes:

NOTE 1:

SS may use the information of the routing table to determine which network adaptors it needs to simulate (implementation dependent);

in general there will be more than one IP address at the network side.

NOTE 2:

In general the routing table is a simplified DL TFT implementation

NOTE 3:

When the routing table is empty all DRBs are in raw mode; this shall be the initial condition at the DRB-MUX; => for L2 testing in general (and apart from the preamble) there is no need to use/configure the IP_PTC; the configuration of the RAT specific U-plane stacks is not affected

IP_RoutingInfo_Type

Name	IP_RoutingInfo_Type		
Comment			
IpInfo	IP Connection Type		IP connection tuple: protocol, local socket, remote socket depending on the role the SS plays the following information may be provided (informative; even less information can be sufficient): 1. TCP/UDP server - local IP addr provided - local port provided - remote IP addr omit - remote port omit 2. TCP/UDP client - local IP addr provided (to inform SS about the local IP addr for this service) - local port omit; for UDP a well-defined port may be defined (protocol dependent, e.g. DHCP) - remote IP addr provided - remote port provided 3. ICMP (in general ICMP may be mapped only to a single DRB) - local IP addr provided (to inform SS about the local IP addr for this service) - local port n/a (shall be set to omit) - remote IP addr omit - remote port n/a (shall be set to omit) NOTE: In case of broadcasts in UL the broadcast address shall match any local IP address; in DL for broadcast services typically no remote IP address is specified in the routing table
DRB	<u>IP DrbInfo Type</u>		
Discard	Null Type	opt	present when IP packets matching this entry shall be discarded

IP_RoutingTable_Type

TTCN-3 Record of Type		
Name	IP_RoutingTable_Type	
Comment NOTE: configurations of DRBs within the same cell shall be mutual exclusive		
record of IP RoutingInfo Type		

D.4.3 IPsec_Config

IP_ASP_TypeDefs: Constant Definitions

TTCN-3 Basic Types			
tsc_IPsec_SPI_Max	integer	4294967295	

IPsec_Config: Basic Type Definitions

TTCN-3 Basic Types		
IPsec_SPI_Type	integer (0 <u>tsc IPsec SPI Max</u>)	security parameter index for IPsec; According to RFC 2406, SPI values from 0 to 255 are reserved

IPsec_IntegrityAlgorithm_Type

TTCN-3 Enumerated Type		
Name	IPsec_IntegrityAlgorithm_Type	
Comment		
hmac_md5_96		
hmac_sha_1_96		

IPsec_CipheringAlgorithm_Type

TTCN-3 Enumerated Type		
Name	IPsec_CipheringAlgorithm_Type	
Comment		
des_ede3_cbc		
aes_cbc		
nociph	no ciphering	

IPsec_SecurityKeys_Type

TTCN-3 Record Type		
Name	IPsec_SecurityKeys_Type	
Comment	to install the security keys	
MD5_96Key	bitstring length (128)	
SHA_1_96Key	bitstring length (160)	
DES_EDE3_C	bitstring length (192)	
BCKey		
AES_CBCKey	bitstring length (128)	

IPsec_SecurityAssociation_Type

TTCN-3 Record Type			
Name	IPsec_SecurityAssociation_Type		
Comment	single security association (SA); for configuration of an SA at the SS all fields are mandatory; to release an SA the optional information is omitted		
SPI	IPsec_SPI_Type		
SrcAddress	charstring		
DestAddress	charstring		
SrcPort	UInt16_Type		
DestPort	UInt16 Type		
IntegrityAlgorith	<pre>IPsec_IntegrityAlgorithm_T</pre>	opt	mandatory to set-up an SA
m	<u>ype</u>		
CipheringAlgori	IPsec CipheringAlgorithm	opt	mandatory to set-up an SA
thm	Type		

IPsec_SecurityAssociationList_Type

TTCN-3 Record of Type		
Name IPsec_SecurityAssociationList_Type		
Comment		
record of IPsec SecurityAssociation Type		

IPsec_Configure_Type

TTCN-3 Record Type		
Name	IPsec_Configure_Type	
Comment	add new security associations; existing SAs are not affected	
SA_List	IPsec SecurityAssociationL	
	ist Type	
SecurityKeys	IPsec_SecurityKeys_Type	

IPsec_Release_Type

TTCN-3 Record	TTCN-3 Record Type		
Name	IPsec_Release_Type		
Comment	release security associations; NOTE: in context with multiple PDNs it cannot be ensured that all SPIs are unique; e.g. the UE may use the same SPI values in different PDNs in which case uniqueness cannot be achieved furthermore it depends on the system implementation how entries in the IPsec SAD and SPD are administrated => to release SAs the SS gets the same information as for configuration but without the security algorithms		
SA_List	IPsec_SecurityAssociationL ist_Type		

D.4.4 IP_SocketHandling

Handling of IP data and IP connections

NOTE 1:

In general IP connections are distinguished by the tuple {protocol, local socket, remote socket};

this information is used at the interface between TTCN and the system adaptor.

It is up the system adaptor implementation to associate the IP connection with the internal socket (file descriptor; implementation dependent)

NOTE 2:

In general the association of the IP connections to (internal) sockets and the routing table for the DRB mapping (as configured with IP_RoutingTable_Type) are independent from each other

D.4.4.1 Socket_Common

IP_SockOpt_Type

TTCN-3 Union Type			
Name	IP_SockOpt_Type		
Comment	socket API); NOTE: only options being relevant for a sp	ecific applications (upon a socket) are configured by TTCN and therefore a matter of system adaptor	
SO_BROADCA ST	boolean	set to true when IP broadcast messages shall be allowed for a port; this is required e.g. in case of DHCP	
IP_MTU_SIZE	integer	MTU size to be used for IP data; NOTEs: - Even though the MTU size is defined as socket option it shall be the same for all sockets of a given interface (i.e. at least within one PDN the MTU size shall be the same) - in general a PIXIT is used as constant value for all sockets	

IP_SockOptList_Type

TTCN-3 Record of Type	
Name	IP_SockOptList_Type
Comment	
record of IP SockOpt Type	

IP_SocketError_Type

TTCN-3 Union T	TTCN-3 Union Type		
Name	IP_SocketError_Type		
Comment	used to indicate errors related to sockets; the IP_Connection shall contain as much address information as available at the system adaptor		
InvalidAddress	Null_Type	TTCN error: e.g. invalid or incomplete address information	
System	integer	system error caused by system call; the integer value may be used for validation but shall not be evaluated by TTCN	

D.4.4.2 Socket_Datagram

Socket_Datagram: Basic Type Definitions

TTCN-3 Basic Types				
Datagram_Content_Type	octetstring	data as sent/received with sendto()/recvfrom() on UDP or ICMP socket; NOTE: For ICMP the data may depend on the socket options (FFS); in general it does not include the IP header and the checksum of the ICMP packet needs to be calculated/checked in TTCN		

Datagram_DL_Type

TTCN-3 Record	Туре		
Name	Datagram_DL_Type		
Comment	datagram to be sent at a UDP or ICMP socket		
Buffer	Datagram Content Type		content of the IP packet

Datagram_UL_Type

TTCN-3 Recor	TTCN-3 Record Type		
Name	Datagram_UL_Type		
Comment	datagram as received on a L	JDP or	ICMP socket
Buffer	Datagram Content Type		content of the IP packet
DrbInfo	IP DrbInfo Type	opt	"interface id" where the data comes from in case of broadcast or multicast packets: for the LTE test model this is the DRB on which the IP packet has been received; the information is necessary when the SS cannot resolve an IP address being assigned to that DRB. => when the SS provides a broadcast or multicast address as local address in the ConnectionId of the ASP, the SS shall provide the DRB information in this field When the ConnectionId of the ASP is fully specified and unique (unicast address at least for local address) the DrbId is ignored by TTCN

D.4.4.3 TCP_Socket

TCP primitives used on the IP port

TCP_Socket: Basic Type Definitions

TTCN-3 Basic Types		
TCP_Data_Type	octetstring	data as sent/received with send()/recv() on a
		TCP socket

InternetApplication_Type

TTCN-3 Enumerated Type				
Name	InternetApplication_Type			
Comment	as TCP is stream oriented SS may need information about which criteria to be applied to get start/end of an application message			
ims				
http				

TLS_Type

TTCN-3 Enumerated Type					
Name	TLS_Type				
Comment	Type of TLS connection to be used (if any)				
noTLS					
pskTLS					
certTLS					

TLS_CIPHER_Type

TTCN-3 Enumerated 1	TTCN-3 Enumerated Type		
Name	TLS_CIPHER_Type		
Comment	Cipher suite to be used		
noCipher			
psk_3DES_EDE_CB C_SHA			
psk_AES_128_CBC_ SHA			

TLSInfo_Type

TTCN-3 Record Type			
Name	TLSInfo_Type		
Comment			
tlsType	TLS_Type		Type of TLS connection to be used (if any)
psk	octetstring	opt	Pre shared key for TLS ciphering
cipherSuite	TLS_CIPHER_Type		Cipher suite to be used

TCP_ConnectRequest_Type

TTCN-3 Record Type			
Name	TCP_ConnectRequest_Type)	
Comment	TCP client: -> 'connect' system call		
SockOptList	IP SockOptList Type		when there are no options to configure the list is empty
Application	InternetApplication_Type		to specify start/end criteria for application messages

TCP_Listen_Type

TTCN-3 Record Type			
Name	TCP_Listen_Type		
Comment	TCP server: -> 'listen' system	call	
SockOptList	IP SockOptList Type		when there are no options to configure the list is empty
Application	InternetApplication Type		to specify start/end criteria for application messages
TLSInfo	TLSInfo_Type	opt	to support TLS for HTTP server implementation

TCP_CtrlRequest_Type

TTCN-3 Union	Туре	
Name	TCP_CtrlRequest_Type	
Comment		
ConnectReq	TCP ConnectRequest Type	request a 'connect' to a remote server
		system calls (informative) socket get file descriptor (setsockopt) normally not needed bind assign local IP addr (to cope with multiple IP addresses) and dedicated port number (if local port is given) connect connect to the client
		IP_Connection: protocol tcp local IP addr mandatory to distinguish different network adaptors local port omit (ephemeral port will be assigned by the system) or specific port to be used for this connection (e.g. to bind a given port number to the IMS client) remote IP addr mandatory remote port mandatory
Listen	TCP_Listen_Type	establish a server at the local (SS) side
		system calls (informative) socket get file descriptor (setsockopt) if needed bind assign local IP addr and port listen await incoming connection
		IP_Connection: protocol tcp local IP addr mandatory to distinguish different network adaptors local port mandatory remote IP add omit remote port omit
Close	Null Type	close a connection
		system calls (informative): close
		IP_Connection: protocol tcp local IP addr mandatory local port mandatory remote IP addr mandatory for TCP connections, omit for TCP server y remote port mandatory for TCP connections, omit for TCP server y

TCP_DataRequest_Type

TTCN-3 Union 1	Гуре	
Name	TCP_DataRequest_Type	
Comment		
Send	TCP Data Type	send data
		system calls (informative): send or write
		IP_Connection: protocol tcp local IP addr mandatory local port mandatory remote IP addr mandatory remote port mandatory

TCP_CtrlIndication_Type

TTCN-3 Union	Туре	
Name	TCP_CtrlIndication_Ty	ре
Comment		
ConnectCnf	Null Type	confirm a 'connect' to a remote server
		system calls (informative): getsockname get local port (ephemeral port assigned by the system)
		IP_Connection: protocol tcp local IP addr mandatory (as in corresponding TCP_ConnectRequest) local port mandatory (if there is more than one connection to the same server the local port is necessary to distinguish the connections) remote IP addr mandatory (as in corresponding TCP_ConnectRequest) remote port mandatory (as in corresponding TCP_ConnectRequest)
Accept	Null Type	sent by the SS when it 'accepts' an incoming connection
		system calls (informative): accept
		IP_Connection: protocol tcp local IP addr mandatory (as in corresponding TCP_ListenRequest) local port mandatory (as in corresponding TCP_ListenRequest)
Class	Ni di Tono	remote IP addr mandatory (as gotten from 'accept') remote port mandatory (as gotten from 'accept')
Close	Null Type	indicate 'close' by the remote side system calls (informative): indicated by recv or read IP_Connection: protocol tcp
		local IP addr mandatory local port mandatory remote IP addr mandatory remote port mandatory
CloseCnf	Null Type	Confirmation for 'close' request; necessary since for TCP there are IP packets to release the connection
		system calls (informative): close
		IP_Connection: protocol tcp local IP addr mandatory local port mandatory remote IP addr mandatory for TCP connections, omit for TCP server remote port mandatory for TCP connections, omit for TCP server

TCP_DataIndication_Type

TTCN-3 Unio	FTCN-3 Union Type			
Name	TCP_DataIndication_Typ	e		
Comment				
Recv	TCP Data Type	receive data		
		system calls (informative):		
		recv or read		
		IP_Connection:		
		protocol tcp		
		local IP addr mandatory		
		local port mandatory		
		remote IP addr mandatory		
		remote port mandatory		

D.4.4.4 UDP_Socket

UDP primitives used on the IP port

NOTE

In principle a UDP socket may communicate with different remote entities; therefore the system adaptor may associate the socket handle with the local socket only (local IP address and local port)

UDP_SocketReq_Type

TTCN-3 Record Type			
Name	UDP_SocketReq_Type		
Comment	to establish a UDP server or to bind local port number		
SockOptList	IP_SockOptList_Type	e.g. to allow broadcast messages; when there are no options to configure the list is empty	

UDP_CtrlRequest_Type

TTCN-3 Union	n Type	
Name	UDP_CtrlRequest_Type	
Comment		
SocketReq	UDP SocketReq Type	request the system adaptor to bind a socket to a local address; this is needed in general when the system adaptor acts as 1. UDP server 2. UDP client when it uses a well-known port rather than an ephemeral port (this is e.g. for DHCP) 3. UDP client when a local address needs to be bond (e.g. when there are several local addresses)
		system calls (informative): socket get file descriptor (setsockopt) needed e.g. to allow broad cast message bind assign local IP address (to cope with multiple IP addresses) and local port (in case of well-known local port)
		IP_Connection: protocol udp local IP addr mandatory (to distinguish multiple IP addresses) local port optional (mandatory in case of a UDP server) remote IP addr omit remote port omit
Close	Null Type	release local socket system calls (informative): close
		IP_Connection: protocol udp local IP addr mandatory (to identify local socket) local port mandatory (to identify local socket) remote IP addr omit remote port omit

UDP_DataRequest_Type

TTCN-3 Union	n Type	
Name	UDP_DataRequest_Type	
Comment		
SendTo	Datagram DL Type	send data to (any) remote socket; NOTE: To simplify implementation of the system adaptor the local socket shall be bond in any case (using 'SocketReq') to specify the local IP address before sending data; (in general the sendto system call can be used without explicitly binding the socket before; in this case the port gets implicitly bond to an ephemeral port and the default IP address is used) system calls (informative): sendto IP_Connection: protocol udp local IP addr mandatory (to identify local socket) local port mandatory (to identify local socket) remote IP addr mandatory (to address remote socket) remote port mandatory (to address remote socket)

UDP_CtrlIndication_Type

TTCN-3 Union	n Type	
Name	UDP_CtrlIndication_Type	
Comment		
SocketCnf	Null Type	confirm 'SocketReq' and tell TTCN about assignment of ephemeral port; system calls (informative): getsockname get local port (ephemeral port assigned by the system; not needed if local port is well-known) IP_Connection: protocol udp local IP addr mandatory local port mandatory (well-known or ephemeral port assigned by the system) remote IP addr omit remote port omit

UDP_DataIndication_Type

TTCN-3 Union	n Type	
Name	UDP_DataIndication_Type	
Comment		
RecvFrom	Datagram UL Type	receive data;
		system calls (informative):
		recvfrom get data and src addr
		IP Connection:
		protocol udp
		local IP addr mandatory (see note)
		local port mandatory
		remote IP addr mandatory (as gotten from recvfrom)
		remote port mandatory (as gotten from recvfrom)
		NOTE
		NOTE:
		The UE may send a UDP packet as broadcast (IP Addr
		255.255.255.255 - e.g. in case of DHCP) or multicast (e.g.
		ICMPv6)
		SS shall consider a broadcast address as matching every IP for UL and DL:
		the SS shall not replace the broadcast/multicast address by the
		local unicast address, but shall provide DRB information in
		RecvFrom;
		example:
		- SS gets DHCPDISCOVER with
		DEST_Addr=255.255.255.255 DEST_Port=67,
		SRC_Addr=0.0.0.0 SRC_Port=68
		- TTCN gets DHCPDISCOVER with local
		Addr=(255.255.255.255 Port=67), remote Addr=(0.0.0.0
		Port=68), DrbId=(LTE, cell1, DRB1)
		- TTCN sends DHCPOFFER with local Addr=(local IP Addr
		Port=67), remote Addr=(255.255.255.255 Port=68)

D.4.4.5 ICMP_Socket

ICMP primitives used on the IP port NOTE:

the local side is identified by the protocol and in general by the local IP address

ICMP_SocketReq_Type

TTCN-3 Record Type		
Name	ICMP_SocketReq_Type	
Comment	to establish a raw socket to send/re	ceive ICMP packets
SockOptList	IP SockOptList Type	e.g. to set the IP_HDRINCL socket option (to include the IP header in the data buffer) -> FFS
		when there are no options to configure the list is empty

ICMP_CtrlRequest_Type

TTCN-3 Union	т Туре	
Name	ICMP_CtrlRequest_Type	
Comment		
SocketReq	ICMP_SocketReq_Type	request the system adaptor to open a raw socket (IPv4 or IPv6) system calls (informative): socket get file descriptor (IPPROTO_ICMP or IPPROTO_IPv6); (setsockopt) optional; to set socket options bind assign local IP address (to cope with multiple IP addresses)
		IP_Connection: protocol icmp or icmpv6 local IP addr mandatory (to distinguish multiple IP addresses) local port omit (not applicable for ICMP) remote IP addr omit remote port omit (not applicable for ICMP)
Close	Null Type	release local socket system calls (informative): close IP_Connection: protocol icmp or icmpv6 local IP addr mandatory (to identify local socket) local port omit remote IP addr omit remote port omit

ICMP_DataRequest_Type

TTCN-3 Unio	FTCN-3 Union Type		
Name	ICMP_DataRequest_Type		
Comment			
SendTo	Datagram DL Type	send datagram	
		system calls (informative): sendto	
		IP_Connection: protocol icmp or icmpv6 local IP addr mandatory (to identify local socket) local port omit remote IP addr mandatory remote port omit	

ICMP_CtrlIndication_Type

TTCN-3 Unio	п Туре	
Name	ICMP_CtrlIndication_	Туре
Comment		
SocketCnf	Null Type	confirm 'SocketReq'
		system calls (informative): (SocketCnf is sent when all system calls for SocketReq have been successful)
		IP_Connection: protocol icmp or icmpv6 local IP addr mandatory local port omit remote IP addr omit remote port omit

ICMP_DataIndication_Type

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D.4.4.6 Socket_Primitives

IP_CtrlRequest_Type

TTCN-3 Union Type		
Name	IP_CtrlRequest_Type	
Comment		
TCP	TCP CtrlRequest Type	
UDP	UDP_CtrlRequest_Type	
ICMP	ICMP CtrlRequest Type	

IP_DataRequest_Type

TTCN-3 Union Type	
Name	IP_DataRequest_Type
Comment	
TCP	TCP DataRequest Type
UDP	UDP DataRequest Type
ICMP	ICMP DataRequest Type

IP_CtrlIndication_Type

TTCN-3 Union	TTCN-3 Union Type	
Name	IP_CtrlIndication_Type	
Comment		
TCP	TCP CtrlIndication Type	
UDP	UDP CtrlIndication Type	
ICMP	ICMP CtrlIndication Type	
Error	IP SocketError Type	

IP_DataIndication_Type

TTCN-3 Union Type	
Name	IP_DataIndication_Type
Comment	
TCP	TCP DataIndication Type
UDP	<u>UDP DataIndication Type</u>
ICMP	ICMP DataIndication Type

D.4.5 System_Interface

DRBMUX_CONFIG_REQ

TTCN-3 Union Name	DRBMUX_CONFIG_REQ
Comment	NOTE 1: There is just one primitive to configure the whole routing table. It is not foreseen to add, remove or manipulate single entries but the table is managed in TTCN and completely configured on any change; (otherwise it might get complicated to identify single entries) NOTE 2: the SS's routing table shall be empty at the beginning and can be cleared by an empty record (DRBMUX_CONFIG_REQ.RoutingInfo = {}) NOTE 3: In general a reconfiguration of the routing table during a test case would be necessary only if an ephemeral port is needed to distinguish different routing (e.g. when there are several TCP connections of the same service routed to different DRBs)
RoutingInfo	IP RoutingTable Type

DRBMUX_COMMON_IND_CNF

TTCN-3 Union	Туре	
Name	DRBMUX_COMMON_IND_CNF	
Comment		
Confirm	Null_Type	confirm DRBMUX_CONFIG_REQ
Error	Null Type	indication of errors at the DRB-MUX:
		An Error shall be raised by the DRB-MUX e.g. in the following
		cases:
		- in DL when there are IP packets which cannot be routed to any DRB
		i.e. the IP packet does not match to any entry in the routing
		table or the corresponding RB is not configured
		- in DL when there are several DRBs possible for routing in the
		same cell

IPSEC_CONFIG_REQ

TTCN-3 Union Type	
Name	IPSEC_CONFIG_REQ
Comment	
Configure	IPsec Configure Type
Release	IPsec Release Type

IPSEC_CONFIG_CNF

TTCN-3 Union T	уре	
Name	IPSEC_CONFIG_CNF	
Comment		
Confirm	Null Type	confirm IPSEC_CONFIG_REQ
Error	Null Type	to indicate invalid configuration of IPsec

IP_SOCKET_CTRL_REQ

TTCN-3 Record Type	
Name	IP_SOCKET_CTRL_REQ
Comment	
ConnectionId	IP Connection Type
Req	IP CtrlRequest Type

IP_SOCKET_DATA_REQ

TTCN-3 Record	TTCN-3 Record Type	
Name	IP_SOCKET_DATA_REQ	
Comment		
ConnectionId	IP Connection Type	
Req	IP DataRequest Type	

IP_SOCKET_CTRL_IND

TTCN-3 Record Type	
Name	IP_SOCKET_CTRL_IND
Comment	
ConnectionId	IP Connection Type
Ind	IP CtrlIndication Type

IP_SOCKET_DATA_IND

TTCN-3 Record Type	
Name	IP_SOCKET_DATA_IND
Comment	
ConnectionId	IP_Connection_Type
Ind	IP DataIndication Type

IP_SOCKET_REQ

TTCN-3 Union Type		
Name	IP_SOCKET_REQ	
Comment		
CTRL	IP_SOCKET_CTRL_REQ	
DATA	IP SOCKET DATA REQ	

IP_SOCKET_IND

TTCN-3 Union Type		
Name	IP_SOCKET_IND	
Comment		
CTRL	IP SOCKET CTRL IND	
DATA	IP SOCKET DATA IND	

IP_CONTROL_PORT

TTCN-3 Port Type		
Name	IP_CONTROL_PORT	
Comment		
out	DRBMUX CONFIG REQ	
in	DRBMUX COMMON IND CNF	

IPSEC_CONTROL_PORT

TTCN-3 Port Type		
Name	IPSEC_CONTROL_PORT	
Comment		
out	IPSEC CONFIG REQ	
in	IPSEC CONFIG CNF	

IP_SOCKET_PORT

TTCN-3 Port Type		
Name	IP_SOCKET_PORT	
Comment		
out	IP SOCKET REQ	
in	IP SOCKET IND	

D.5 NasEmu_AspTypes

System interface between NAS emulation and system adaptor

D.5.1 System_Interface

RRC_PDU_REQ

TTCN-3 Record	Туре	
Name	RRC_PDU_REQ	
Comment		
Common	ReqAspCommonPart Type	CellId: identifier of the cell RoutingInfo: SRB0, SRB1, SRB2 TimingInfo: Now in normal cases; For latency tests TimingInfo can be set to the SFN/subframe in which the RRC messages shall be sent out NOTE 1: if the RRC PDU is too long to be sent in one TTI the TimingInfo corresponds to the first TTI NOTE 2: the TimingInfo is not changed by the NAS Emu (i.e. the timing info as coming from the test case (SRB_COMMON_REQ) is handed through by the NAS Emu) ControlInfo CnfFlag:=false; FollowOnFlag true: Indicates that the message(s) to be sent on the same TTI will follow NOTE 1: If the TimingInfo is not the same for messages to be sent on the same TTI, the SS shall produce an error NOTE 2: the follow on flag applies only for messages of the same SRB false: Indicates that no more message(s) will follow
RrcPdu	RRC_MSG_Request_Type	

RRC_PDU_IND

TTCN-3 Record Type			
Name	RRC_PDU_IND		
Comment	common ASP to receive PDUs	common ASP to receive PDUs from SRB0, SRB1 or SRB2	
Common	IndAspCommonPart Type	CellId: identifier of the cell RoutingInfo: SRB0, SRB1, SRB2 TimingInfo: time when message has been received (frame and sub-frame number); this is handed through to the test case by the NAS emulation NOTE: normally an RRC PDU is expected in one TTI; nevertheless if it is spread over more than one TTIs TimingInfo shall refer to the end of the PDU i.e. to the last RLC PDU being received; Status: OK or RRC integrity error	
RrcPdu	RRC MSG Indication Type	<u> </u>	

NASEMU_SYSTEM_PORT

TTCN-3 Port Type		
Name	NASEMU_SYSTEM_PORT	
Comment	NASEMU PTC: Port for Sending/Receiving data to/from the SYSTEM Interface	
out	RRC PDU REQ	
in	RRC PDU IND	

D.6 EUTRA_CommonDefs

D.6.1 Common_Types

Common_Types: Basic Type Definitions

TTCN-3 Basic Types			
HarqProcessId_Type	integer (014)	The values 07 represent the ID of HARQ proces	ss ID; val
RedundancyVersion_Typ	integer (03)	used in EUTRA_ASP_DrbDefs and EUTRA_ASF	_Typede
е			
ContentionResolutionId_	bitstring length(48)	used in EUTRA_ASP_DrbDefs and	
Туре		EUTRA_ASP_Typedefs	

HarqProcessList_Type

TTCN-3 Record of Type	
Name	HarqProcessList_Type
Comment	list of HARQ processes: each element shall be unique
record length(014) of HarqProcessId Type	

RRC_MSG_Request_Type

TTCN-3 Union Type		
Name	RRC_MSG_Request_Type	
Comment	DL RRC PDU on CCCH or DCCH	
Ccch	DL_CCCH_Message	
Dcch	DL_DCCH_Message	

RRC_MSG_Indication_Type

TTCN-3 Union Type		
Name	RRC_MSG_Indication_Type	
Comment	UL RRC PDU on CCCH or DCCH	
Ccch	UL_CCCH_Message	
Dcch	UL DCCH Message	

D.6.2 Common_Constants

EUTRA_CommonDefs: Constant Definitions

TTCN-3 Basic Types			
tsc_EUTRA_MaxNu mberOfCells	integer	20	Maximum number of cells; in TS 36.508 in, clause 4.4.2 and 6.3.2.2 there are tables for cells being used in non-NAS and NAS test cases; in both cases less than 20 cells are listed

D.6.3 RRC_Nested_Types

RRC_Nested_Types: Basic Type Definitions

TTCN-3 Basic Types		
SiWindowLength_Type	SystemInformationBlockType1.si_Windo	
	wLength	
SiPeriodicity_Type	SchedulingInfoList[0].si_Periodicity	
PrioritizedBitRate_Type	LogicalChannelConfig.ul_SpecificParam	
	eters.prioritisedBitRate	
DI_Bandwidth_Type	CarrierBandwidthEUTRA.dl_Bandwidth	
UI_Bandwidth_Type	CarrierBandwidthEUTRA.ul_Bandwidth	
Ra_PreambleIndex_Type	RACH_ConfigDedicated.ra_PreambleIn	
	dex	
CipheringAlgorithm_Type	SecurityAlgorithmConfig.cipheringAlgorit	
	hm	
IntegrityProtAlgorithm_Ty	SecurityAlgorithmConfig.integrityProtAlg	
pe	orithm	
UE_Category_Type	UE_EUTRA_Capability.ue_Category	
SearchWindowSize_Type	SystemInformationBlockType8.searchW	
	indowSize	
SCellPathlossReferenceLi	UplinkPowerControlDedicatedSCell_r10	
nking_Type	.pathlossReferenceLinking_r10	
MAC_MainConfig_ScellDe	MAC_MainConfig.mac_MainConfig_v10	
activationTimer_Type	20.sCellDeactivationTimer_r10	
CrossSchedulingCarrierIn	CrossCarrierSchedulingConfig_r10.sche	
fo_Type	dulingCellInfo_r10.other_r10	
NotificationIndicator_r9_T	MBSFN_AreaInfo_r9.notificationIndicato	
уре	r_r9	
Mbsfn_Areald_r9_Type	MBSFN_AreaInfo_r9.mbsfn_AreaId_r9	
LogicalChannelldentity_r	MBMS_SessionInfo_r9.logicalChannelId	
9_Type	entity_r9	
UE_Category_v1020_Typ	UE_EUTRA_Capability_v1020_IEs.ue_	
е	Category_v1020	

D.6.4 ASP_CommonPart

Definition of ASP common parts for REQ-, CNF- and IND-ASPs

D.6.4.1 ASP_CommonPart_Definitions

D.6.4.1.1 Routing_Info

EUTRA_CommonDefs: Constant Definitions

TTCN-3 Basic Types			
tsc_MaxRB	integer	maxDRB + 3	DRBs + 3 SRBs
tsc_SRB0	integer	0	
tsc_SRB1	integer	1	
tsc_SRB2	integer	2	
tsc_DRB1	DRB_Identity	1	
tsc_DRB2	DRB_Identity	2	
tsc_DRB3	DRB_Identity	3	
tsc_DRB4	DRB_Identity	4	
tsc_DRB5	DRB_Identity	5	
tsc_DRB6	DRB_Identity	6	
tsc_DRB7	DRB_Identity	7	
tsc_DRB8	DRB_Identity	8	

Routing_Info: Basic Type Definitions

TTCN-3 Basic Types		
SRB_Identity_Type	integer (tsc_SRB0, tsc_SRB1,	SRB0 to be covered as well
	tsc_SRB2)	
CarrierAggregationInfo_T	Null_Type	place holder for additional routing information
уре		for carrier aggregation

RadioBearerId_Type

TTCN-3 Union Type		
Name	RadioBearerId_Type	
Comment		
Srb	SRB Identity Type	
Drb	DRB_Identity	
Mrb	MRB Identity Type	

RoutingInfo_Type

TTCN-3 Union Type		
Name	RoutingInfo_Type	
Comment		
None	Null_Type	
RadioBearerId	RadioBearerId Type	

D.6.4.1.2 Timing_Info

Timing_Info: Basic Type Definitions

TTCN-3 Basic Types		
SystemFrameNumber_Ty	integer (01023)	
pe		
SubFrameNumber_Type	integer (09)	

SubFrameInfo_Type

TTCN-3 Union Type		
Name	SubFrameInfo_Type	
Comment		
Number	SubFrameNumber Type	
Any	Null Type	no specific sub-frame (valid for REQ ASPs only)

SystemFrameNumberInfo_Type

TTCN-3 Union T	TTCN-3 Union Type		
Name	SystemFrameNumberInfo_Type		
Comment			
Number	SystemFrameNumber Type		
Any	Null Type	no specific frame number (valid for REQ ASPs only)	

SubFrameTiming_Type

TTCN-3 Record	TTCN-3 Record Type		
Name	SubFrameTiming_Type		
Comment			
SFN	<u>SystemFrameNumberInfo</u>		
	Type		
Subframe	SubFrameInfo_Type		

TimingInfo_Type

TTCN-3 Union	TTCN-3 Union Type			
Name	TimingInfo_Type			
Comment				
SubFrame	SubFrameTiming_Type			
Now	Null_Type	to be used in REQ ASPs when there is no 'activation time'		
None	Null_Type	only to be used in SYSTEM_CTRL_CNF but not for EnquireTiming		

D.6.4.2 REQ_ASP_CommonPart

ReqAspControlInfo_Type

TTCN-3 Record	I Type	
Name	ReqAspControlInfo_Type	
Comment		
CnfFlag	boolean	true => SS shall send CNF: when the REQ is with no timing information (no activation time), SS shall send the confirmation when the configuration is done, i.e. when the test case may continue. Example: when there is a configuration follow by a send event it shall not be necessary to have a wait timer in between but the CNF triggers the send event. If there are other triggers e.g. like the UE sending a message, CnfFlag shall be set to false by the test case to avoid racing conditions with the CNF and the signalling message. When there is an activation time SS shall send the CNF after the configuration has been scheduled; that means SS shall not wait until the activation time has been expired.
FollowOnFlag	boolean	false => no further (related) information true: further related information will be sent to SS (semantics depending on respective ASP)

$ReqAspCommonPart_Type$

TTCN-3 Record	TTCN-3 Record Type		
Name	ReqAspCommonPart_Type		
Comment			
CellId	EUTRA Cellid Type		
RoutingInfo	RoutingInfo Type		
TimingInfo	TimingInfo Type		
ControlInfo	ReqAspControlInfo Type		
CA_Info	CarrierAggregationInfo Typ	opt	place holder for additional routing information for carrier
	<u>e</u>		aggregation

D.6.4.3 CNF_ASP_CommonPart

ConfirmationResult_Type

TTCN-3 Union T	уре	
Name	ConfirmationResult_Type	
Comment		
Success	Null Type	
Error	integer	may contain SS specific error code; this will not be evaluated by TTCN

CnfAspCommonPart_Type

TTCN-3 Record	TTCN-3 Record Type		
Name	CnfAspCommonPart_Type		
Comment			
CellId	EUTRA_CellId_Type		
RoutingInfo	RoutingInfo Type		
TimingInfo	TimingInfo_Type		
Result	ConfirmationResult_Type		

D.6.4.4 IND_ASP_CommonPart

IntegrityErrorIndication_Type

TTCN-3 Record	TTCN-3 Record Type			
Name	IntegrityErrorIndication_Type			
Comment				
Nas	boolean	NAS Integrity: set to true when received MAC does not match calculated MAC		
Pdcp	boolean	PDCP Integrity: set to true when received MAC does not match calculated MAC		

ErrorIndication_Type

TTCN-3 Reco	TTCN-3 Record Type			
Name	ErrorIndication_Type			
Comment				
Integrity	IntegrityErrorIndication Typ e	Integrity error: received MAC does not match calculated MAC		
System	integer	any other error: may be SS specific error code; this will not be evaluated by TTCN; e.g. an error shall be raised when the UE requests retransmission of an RLC PDU		

IndicationStatus_Type

TTCN-3 Union T	TTCN-3 Union Type		
Name	IndicationStatus_Type		
Comment			
Ok	Null Type		
Error	ErrorIndication_Type		

IndAspCommonPart_Type

TTCN-3 Record	TTCN-3 Record Type		
Name	IndAspCommonPart_Type		
Comment			
CellId	EUTRA Cellid Type		
RoutingInfo	RoutingInfo Type		
TimingInfo	TimingInfo Type		
Status	IndicationStatus Type		
CA_Info	CarrierAggregationInfo Typ	opt	place holder for additional routing information for carrier
	<u>e</u>		aggregation

D.6.5 CA_CommonDefs

 $Common \ definitions \ for \ carrier \ aggregation \ needed \ for \ configuration \ of \ the \ SS \ (EUTRA_ASP_TypeDefs) \ as \ well \ as \ for \ MAC \ test \ cases \ (EUTRA_ASP_DrbDefs)$

CA_CommonDefs: Basic Type Definitions

TTCN-3 Basic Types			
MAC_CTRL_ScellActDeac	ScellBitMap Type	36.321 clause 6.1.3.8	
t Type			

ScellBitMap_Type

TTCN-3 Record Type		
Name	ScellBitMap_Type	
Comment		
Value	B7 Type	7 MSB bits the C Fields C7 to C1. 1 => the corresponding Scell is Active 0 => Inactive
Reserved	B1_Type	LSBit Reserved. Shall be set to 0

PH_Record_Type

TTCN-3 Reco	TTCN-3 Record Type			
Name	PH_Record_Type	PH_Record_Type		
Comment	36.321 clause 6.1.3.6a			
P_Bit	B1_Type	P bit: 1 indicates the UE applies power backoff due to power management		
V_Bit	B1 Type		V bit: Indicates if the PH value is based on a real transmission or a reference format. For Type 1 PH, V=0 indicates real transmission on PUSCH and V=1 indicates that a PUSCH reference format is used	
Valve	B6 Type The power headroom level. Ph Type 2 (if configured) for Pcell and Type 1 for Pcell and Scell			
Reserved	B2 Type	opt	2 reservid bits. Present if V=1	
PCMaxc	B6_Type	opt	Present if V=1	

PH_RecordList_Type

TTCN-3 Record of Type		
Name	PH_RecordList_Type	
Comment	If simultaneousPUCCH-PUSCH is not configured at least oneType 1 PH record for Pcell is present. Additional one record per Scell for which respective 'C' bit is set as 1. If simultaneousPUCCH-PUSCH is configured then one PH Type 2 record for P cell followed by PH Type 1 record for P cell is present. Additional one record per Scell for which respective 'C' bit is set as 1	
record length(19) of	PH Record Type	

MAC_CTRL_ExtPowerHeadRoom_Type

TTCN-3 Record Type			
Name	MAC_CTRL_ExtPowerHeadRoom_Type		
Comment			
EPH_Octet1	ScellBitMap Type		
PH_RecordList	PH RecordList Type	At least one record for Pcell is present. Additional one record per Scell for which respective 'C' bit is set as 1	

D.6.6 MBMS_CommonDefs

Common definitions for MBMS needed for configuration of the SS

MBMS_CommonDefs: Basic Type Definitions

TTCN-3 Basic Types		
Pmch_InfoIndex_Type	integer (0maxPMCH_PerMBSFN)	

MRB_Identity_Type

TTCN-3 Record	TTCN-3 Record Type		
Name	MRB_Identity_Type		
Comment	MTCH is uniquely identified by: - the logicalChannelIdentity in the mbms-SessionInfoList-r9 - the MBSFN area identity, - the MCH index in the pmch-InfoList-r9		
Mbsfn_Areald	Mbsfn Areald r9 Type		
PmchLogicalCh annel	PmchLogicalChannel Type		

PmchLogicalChannel_Type

TTCN-3 Record	TTCN-3 Record Type		
Name	PmchLogicalChannel_Type		
Comment			
Pmch_InfoInde	Pmch Infolndex Type		
Х	<u> </u>		
LogicalChannel	LogicalChannelIdentity r9		
Identity	<u>Type</u>		

D.7 CDMA2000_ASP_TypeDefs

D.7.1 CDMA2000_Common

Common definitions for CDMA2000 and CDMA2000 ASPs

D.7.1.1 CDMA2000_SystemContants

CDMA2000_ASP_TypeDefs: Constant Definitions

TTCN-3 Basic Types			
tsc_CDMA2000_Max	integer	8	Maximum number of CDMA2000
NumberOfCells			cells; in TS 36.508 in, clause 6.3.1.5 and 6.3.1.6 define 4 cells each for HRPD and 1XRTT; hence total is 8

D.7.1.2 CDMA2000_Routing

CDMA2000_Routing: Basic Type Definitions

TTCN-3 Basic Types				
RLP_FlowId_Type	integer (030)	As per S.0024, clause 4.8.2.10 both		
		MaxNumRLPFlowsFwd and		
		MaxNumRLPFlowsRvs need to be in the		
		range of 0x06(6) to 0x1F(31)		
		As per X.S007 clause 10, the PDN ID and		
		Flow ID identify a flow		

RLP_FlowIdList_Type

TTCN-3 Record of Type		
Name	RLP_FlowIdList_Type	
Comment		
record of RLP_FlowId_Type		

CDMA2000_RoutingInfo_Type

TTCN-3 Union Type		
Name	CDMA2000_RoutingInfo_Type	
Comment		
None	Null_Type	
RLP_FlowId	RLP_FlowId_Type	

D.7.1.3 CDMA2000_TimingInfo

CDMA2000_TimingInfo: Basic Type Definitions

TTCN-3 Basic Types				
HRPD_FrameNumber_Ty	integer	CDMA system time specified in units of 16		
pe		slots i.e. 26.66 ms.		
RTT1X_FrameNumber_Ty	integer	CDMA System Time, in integer multiples of 20		
pe		ms		

HRPD_SubFrameInfo_Type

TTCN-3 Union Type			
Name	HRPD_SubFrameInfo_Type	HRPD_SubFrameInfo_Type	
Comment			
Number	SubFrameNumber_Type		
Any	Null_Type	no specific sub-frame (valid for REQ ASPs only)	

HRPD_Frame_Type

TTCN-3 Union Type		
Name	HRPD_Frame_Type	
Comment		
Number	HRPD FrameNumber Type	
Any	Null Type	no specific TimeStamp (valid for REQ ASPs only)

RTT1X_Frame_Type

TTCN-3 Union	TTCN-3 Union Type		
Name	RTT1X_Frame_Type		
Comment			
Number	RTT1X FrameNumber Typ		
	<u>e</u>		
Any	Null_Type	no specific TimeStamp (valid for REQ ASPs only)	

HRPD_SubFrameTiming_Type

TTCN-3 Record	TTCN-3 Record Type	
Name	HRPD_SubFrameTiming_Type	
Comment		
Frame	HRPD Frame Type	
Subframe	HRPD_SubFrameInfo_Typ e	

CDMA2000_SubFrameTiming_Type

TTCN-3 Union Type		
Name	CDMA2000_SubFrameTiming_Type	
Comment		
HRPD	HRPD SubFrameTiming Type	HRPD Timing
RTT1X	RTT1X Frame Type	RTT1X Timing specified in terms of Frames only

CDMA2000_TimingInfo_Type

TTCN-3 Union Type			
Name	CDMA2000_TimingInfo_Type	CDMA2000_TimingInfo_Type	
Comment			
SubFrame	CDMA2000 SubFrameTiming Ty		
	<u>pe</u>		
Now	Null_Type	to be used in REQ ASPs when there is no 'activation time'	
None	Null_Type	only to be used in SYSTEM_CTRL_CNF but not for	
		EnquireTiming	

D.7.1.4 CDMA2000_ReqAspCommonPart

CDMA2000_ReqAspControlInfo_Type

TTCN-3 Record	d Type	
Name	CDMA2000_ReqAspCor	ntrolInfo_Type
Comment		
CnfFlag	boolean	true => SS shall send CNF: when the REQ is with no timing information (no activation time), SS shall send the confirmation when the configuration is done, i.e. when the test case may continue. Example: when there is a configuration follow by a send event it shall not be necessary to have a wait timer in between but the CNF triggers the send event or system Command. If there are other triggers e.g. like the UE sending a message, CnfFlag shall be set to false by the test case to avoid racing conditions with the CNF and the signalling message. When there is an activation time SS shall send the CNF after the configuration has been scheduled; that means SS shall not wait until the activation time has been expired.
FollowOnFlag	boolean	false => no further (related) information true: further related information will be sent to SS; Currently this value is not foreseen to be used.

CDMA2000_ReqAspCommonPart_Type

TTCN-3 Record	TTCN-3 Record Type		
Name	CDMA2000_ReqAspCommonPart_Type		
Comment			
CellId	CDMA2000 Cellid Type		
RoutingInfo	CDMA2000_RoutingInfo_T		
	<u>ype</u>		
TimingInfo	CDMA2000 TimingInfo Ty		
	p <u>e</u>		
ControlInfo	CDMA2000 RegAspContro		
	IInfo_Type		

D.7.1.5 CDMA2000_IndAspCommonPart

CDMA2000_ErrorIndication_Type

TTCN-3 Record Type			
Name	CDMA2000_ErrorIndication_Type		
Comment			
System	integer	any other error: may be SS specific error code; this will not be evaluated by TTCN; e.g. an error shall be raised when the UE requests retransmission of an RLC PDU	

CDMA2000_IndicationStatus_Type

TTCN-3 Union Type		
Name	CDMA2000_IndicationStatus_Type	
Comment		
Ok	Null_Type	
Error	CDMA2000 ErrorIndication Type	

CDMA2000_IndAspCommonPart_Type

TTCN-3 Record Type		
Name	CDMA2000_IndAspCommonPart_Type	
Comment		
CellId	CDMA2000 Cellid Type	
RoutingInfo	CDMA2000 RoutingInfo T	
	ype	
TimingInfo	CDMA2000_TimingInfo_Ty	
	<u>pe</u>	
Status	CDMA2000 IndicationStatu	
	s_Type	

D.7.1.6 CDMA2000_CnfAspCommonPart

CDMA2000_ConfirmationResult_Type

TTCN-3 Union Type		
Name	CDMA2000_ConfirmationResult_Type	
Comment		
Success	Null_Type	
Error	integer	may contain SS specific error code; this will not be evaluated by TTCN

CDMA2000_CnfAspCommonPart_Type

TTCN-3 Record	TTCN-3 Record Type			
Name	CDMA2000_CnfAspCommonPart_Type			
Comment				
CellId	CDMA2000_CellId_Type			
RoutingInfo	CDMA2000 RoutingInfo T			
	<u>ype</u>			
TimingInfo	CDMA2000 TimingInfo Ty			
	<u>pe</u>			
Result	CDMA2000_ConfirmationR	•	Similar definition as EUTRA	
	esult Type			

D.7.2 CDMA2000_PowerLevel

CDMA2000_ASP_TypeDefs: Constant Definitions

TTCN-3 Basic Types			
tsc_CDMA2000_Atte	CDMA2000_Attenuation_Type	{Off:=true}	

CDMA2000_PowerLevel: Basic Type Definitions

TTCN-3 Basic Types		
CDMA2000_InitialAttenuat	CDMA2000 Attenuation Type	Attenuation restricted to 'Off'
ion_Type	(tsc_CDMA2000_Attenuation_Off)	

CDMA2000_Attenuation_Type

TTCN-3 Union T	TTCN-3 Union Type		
Name	CDMA2000_Attenuation_Type		
Comment	attenuation of the reference power		
Value	Attenuation Type	cell power reference power reduced by the given attenuation (value is in dB)	
Off	Null_Type	for non suitable off cell we specify an explicit "Off" value here	

CDMA2000_CellAttenuation_Type

TTCN-3 Record Type		
Name	CDMA2000_CellAttenuation_Type	
Comment		
CellId	CDMA2000 Cellid Type	
Attenuation	CDMA2000_Attenuation_Ty	
	<u>pe</u>	

CDMA2000_CellAttenuationList_Type

TTCN-3 Record of Type		
Name	Name CDMA2000_CellAttenuationList_Type	
Comment		
record length(1tsc CD	DMA2000 MaxNumberOfCells) of CDMA2000 CellAttenuation Type	

CDMA2000_AbsoluteCellPower_Type

TTCN-3 Reco	TTCN-3 Record Type		
Name	CDMA2000_AbsoluteCellPower_Type		
Comment			
Powerloc	Powerloc_Type	TTCN writer Shall set same vale in all cells; SS shall have only one AWGN channel for all configured cells per frequency SS shall create a AWGN channel in first cell per frequency and ignore this in later cell creations on the same frequency; i.e. this channel is created along once for Cell 15 or 16 and one each per 17 and 19 similarly for RTT1X once for 19 or 20 and one each per 21 and 22	
Powerlor	Powerlor_Type	Total Transmit power in cell before attenuation	
PilotOffset	PilotOffset Type	Default -7	

CDMA2000_InitialCellPower_Type

TTCN-3 Record	TTCN-3 Record Type		
Name	CDMA2000_InitialCellPower_Type		
Comment			
MaxReference Power	CDMA2000 AbsoluteCellP ower_Type	maximum value of cell reference power corresponding to Max lor/loc in power level table; a cell is initialised with this reference power; its value is the upper bound of the cell power during the test case	
Attenuation	CDMA2000_InitialAttenuati on_Type	initial attenuation Cell is off	

D.7.3 CDMA2000_Data

Data primitives sent/received at CDMA2000_RLP_FLOW_PORT

CDMA2000_Data: Basic Type Definitions

TTCN-3 Basic Types		
RLP_SDU_Type	octetstring	

RLP_SDUList_Type

TTCN-3 Record of Type		
Name RLP_SDUList_Type		
Comment		
record of RLP SDU Type		

CDMA2000_U_PlaneData_Type

TTCN-3 Union Type		
Name	CDMA2000_U_PlaneData_Type	
Comment	Union structure is provided for future possible enhancements	
RLP Sdu	RLP SDUList Type	RLP SDU's

RLPFlow_DataPerSubframe_DL_Type

TTCN-3 Record	TTCN-3 Record Type		
Name	RLPFlow_DataPerSubframe_DL_Type		
Comment	common definition for one or several SDUs to be sent in the subframe given by the subframe offset; SS shall raise an error indication (using SYSTEM_IND) when that is not possible NOTE 1: For RLP the data may be spread over more than one subframe; the TTCN implementation is responsible to calculate appropriate offsets accordingly		
SubframeOffset	integer	subframe offset relative to the absolute timing information given in the common part of the ASP; NOTE: if a RLP SDU takes more than one subframe, SubframeOffset specifies the first TTI	
SduList	CDMA2000 U PlaneData Type	list of PDUs/SDUs to be sent in one subframe	

$RLPFlow_DataPerSubframeList_DL_Type$

TTCN-3 Record of Type		
Name	RLPFlow_DataPerSubframeList_DL_Type	
Comment	list of user plane data to be sent in sub-frames given by the SubframeOffset in the single elements of the list; Timing: the start time for the whole sequence is given by the timing info of the ASP (common information); the timing for the respective data pdus is given by the SubframeOffset relative to the common timing info; design consideration: repetitions of this sequence are not foreseen (in which case the subframe offset could not be related to the timing info of the ASP)	
record of RI PFlow D	pataPerSubframe DI Type	

CDMA2000_U_Plane_Request_Type

TTCN-3 Record Type			
Name	CDMA2000_U_Plane_Request_Type		
Comment	NOTE: formal type definition to allow later enhancements;		
	CDMA2000_U_Plane_Request_Type defines a sequence of subframes in which data shall be sent		
SubframeDataL	RLPFlow_DataPerSubfram		
ist	eList DL Type		

D.7.4 CDMA2000_CellConfiguration

HRPD_CellParameters_Type

TTCN-3 Record	Туре	
Name	HRPD_CellParameters_Type	
Comment	Parameters specific to HRPD	
SystemType	SystemType_Type	Specifies the system type of Channel As per Table 13.1-1 of C.S0024-C v2.0 0, 1, 2 are defined values and 3 to 255 are reserved
SubNetMask	B8_Type	7.11.6.2.2 of C.S0024-C v2.0 Sector Subnet identifier set this field to the number of consecutive 1s in the subnet mask of the subnet to which this sector belongs
ColorCode	ColorCode_Type	7.11.6.2.1 of C.S0024-C v2.0 set to the colour code corresponding to this sector part of QuickConfig Over head message
CountryCode	MCC_Type	7.11.6.2.2 of C.S0024-C v2.0 three-digit BCD (binary coded decimal) encoded representation of the Mobile Country Code associated with this sector
OpenLoopAdju st	OpenLoopAdjust Type	9.4.6.2.6 of C.S0024-C v2.0; The negative of the nominal power to be used by access terminals in the open loop power estimate, expressed as an unsigned value in units of 1 dB. The value used by the access terminal is -1 times the value of this field
ReverseRateLi mit	ReverseRateLimit Type	Table 9.9.6.3-2 of C.S0024-C v2.0; set to the highest data rate that the access terminal is allowed to use on the Reverse Traffic Channel
MACIndex	ReverseLinkMACIndex_Typ e	C.S0024-C v2.0 clause 12.4.1.3.2.2 Forward channel MAC is derived from this based on table 12.4.1.3.2.2-1
PacketApp	PacketApplication Type	Multi Flow Packet Application to be used Enhanced Multi-Flow Packet Application subtype(0x0009) defined in C.S0087-A v2.0 or as per C.S0087-A v2.0, clause 2.3 the UE Shall not propose AEMPA during stream protocol negotiation (0xFFFE) in C.R1001
ControlChannel Rate	ControlChannelRate_Type	MAC index to be used for the Control Channel
PDN_ld	PDN Id Type	PDN_ID of the bearer
PDN_Address	PDN Address Type	the PDN Address to be provided to the UE in VSNCP ConfigAck
UATI	<u>UATI_Type</u>	UATI to be Assigned to the UE

RTT1X_CellParameters_Type

TTCN-3 Record	Туре	
Name	RTT1X_CellParameters_Typ	ne e
Comment	Parameters specific to 1XRTT	
Reg_Zone	B12 Type	C.S0005-F v1.0 clause 3.7.2.3.2.1 and 2.6.5.1.5
		Registration Zone of the base station
		Reg_Zone, SID and NID shall be unique for each base station
Base_Class	<u>B4 Type</u>	C.S0005-F v1.0 clause 3.7.2.3.2.1
		Base station class.
		The base station shall set this field as follows:
		For Band Class 1 and 4, the base station shall set this field to
		'0001'; otherwise, the base station shall set this field to '0000'
MCC	B10_Type	3.7.2.3.2.13 and 2.3.1.1 of C.S0005-F v1.0
		encoding is int2bit (100*D1+10*D2+D3 -111,10) with digit 0 being
		mapped to 10
		binary representation of the Mobile Country Code associated
		with this sector
IMSI_11_12	B7 Type	3.7.2.3.2.13 and 2.3.1.2 of C.S0005-F v1.0
		encoding is int2bit (10*D2+D3 -11,7) with digit 0 being mapped to
		10
		binary representation of the Mobile Network Code associated
		with this sector
TMSI	TMSI_Type	the TMSI to be assigned to the MS
ProtRev	ProtRev Type	Protocol Revision
Min_ProtRev	ProtRev Type	the minimum protocol revision supported by Base station
Sig_Encryption	EncryptionMode Type	Encryption mode for Common and dedicated signalling
Mode		
USerInfo_Encr	EncryptionMode_Type	User information Encryption mode
yptionMode		

ModeSpecificCellParams_Type

TTCN-3 Union Type		
Name	ModeSpecificCellParams_Type	
Comment		
RTT1X	RTT1X CellParameters Type	
HRPD	HRPD_CellParameters_Type	

CDMA2000_CellParameters_Type

TTCN-3 Record Type			
Name	CDMA2000_CellParameters_Type		
Comment			
Туре	CDMA2K_Type		Gives if cell is EHRPD or RTT1X
CarrierFreq	CarrierFreqCDMA2000_Ty		Contains bandclass (5 bit) and arfcn i.e. 11 bit channel number
	<u>pe</u>		
PhysCellId	PhysCellIdCDMA2000 Typ		PN offset of pilot 0511
	<u>e</u>		
CellGloballd	CellGlobalIdCDMA2000_Ty		Contains the 128 bit cell ID for HRPD and 47 bit cell ID for
	<u>pe</u>		1XRTT
SearchWindow	SearchWindowSizeRecord		contains the SearchWindow for Active, Neighbour & Remaining
	Type		cells

CDMA2000_CellConfigInfo_Type

TTCN-3 Record	TTCN-3 Record Type			
Name	CDMA2000_CellConfigInfo_	Туре		
Comment				
CellParameters	CDMA2000 CellParameter		Parameters common to HRPD and RTT1X	
	s Type			
InitialCellPower	CDMA2000_InitialCellPowe		Power level parameters	
	<u>r Type</u>			
ModeSpecificC	ModeSpecificCellParams_T		Parameters specific to RTT1X or HRPD	
ellParams	<u>ype</u>			

CDMA2000_CellConfigRequest_Type

TTCN-3 Union Type		
Name	CDMA2000_CellConfigRequest_Type	
Comment		
AddOrReconfig ure	CDMA2000 CellConfigInfo Type	for cell configuration: CellId: identifier of the cell to be configured RoutingInfo: None TimingInfo: Now (for initial configuration and for reconfiguration in general) ControlInfo: CnfFlag:=true; FollowOnFlag:=false (in general)
Release	Null Type	to remove a cell completely - CellId: identifier of the cell to be released; eutra_Cell_NonSpecific, in case all cells shall be released RoutingInfo: None TimingInfo: Now ControlInfo: CnfFlag:=true; FollowOnFlag:=false (in general)

D.7.5 CDMA2000_HRPD

D.7.5.1 CDMA2000_PDN_Defs

CDMA2000_PDN_Defs: Basic Type Definitions

TTCN-3 Basic Types		
CDMA2000_AttachType	O3 Type	Defined values: 1: Initial Attach to a PDN, 3: Handover attach to a PDN. Rest undefined and not used
IPv4_Address_Type	O4 Type	represents the IPv4 address as per 24.301 clause 9.9.4.9
IPv6_Address_Type	O8_Type	represents the IPv6 interface identifier as per 24.301 clause 9.9.4.9
PDN_Id_Type	B4 Type	indicates the PDN Id associated with the bearer PDN Identifier of the PDN for which the user data is sent. it is the low order 4 bits of, containing the PDN-ID identifies the PDN (i.e. one per default bearer) Reference X.S0057-E v1.0 clause 10.1.5; gives only low order 4 bits, and high order 4 bits are added as all zero's
Flow_ld_Type	B4 Type	the lower 4 bits of the Flow Identifier, as defined in Table 15 of X.S0057-E v1.0 identify each reservation that is requested to be added or deleted the complete 8 bit flow Identifier is formed by PDN-ID and Flow-Id

IPv4v6_Address_Type

TTCN-3 Record Type			
Name	IPv4v6_Address_Type		
Comment			
IPv4	IPv4 Address Type	IP v4 address to be allocated	
IPv6	IPv6 Address Type	IP v6 interface identifier to be allocated	

PDN_Address_Type

TTCN-3 Union Type			
Name	PDN_Address_Type		
Comment	based on 24.301 cl. 9.9.4.9		
IPv4	IPv4 Address Type	only IP v4 address to be allocated	
IPv6	IPv6 Address Type	only IP v6 interface identifier to be allocated	
IPv4v6	IPv4v6 Address Type	both IP v4 address and IP v6 interface identifier to be allocated	

Flow_ldList_Type

TTCN-3 Record of Type		
Name	Flow_ldList_Type	
Comment		
record of Flow Id Type		

D.7.5.2 CDMA2000_SubProtocols

LCP_DetachInit_Type

TTCN-3 Enumerated Type			
Name	LCP_DetachInit_Type		
Comment			
networkInitiated	X.S0057-E v1.0 clause 11.2		
UEInitiated	X.S0057-E v1.0 clause 11.1.2		

DHCP_Ind_Type

TTCN-3 Record	Туре	
Name	DHCP_Ind_Type	
Comment		
RapidCommit	boolean	indicates if Rapid Comit option of DHCP is used

UATI104_Type

TTCN-3 Union Type		
Name	UATI104_Type	
Comment		
Value	O13 Type	
None	Null_Type	

UATI_Type

TTCN-3 Record	TTCN-3 Record Type		
Name	UATI_Type		
Comment			
UATI24	O3 Type	Represents UATI(0:23), as per clause 6.3.7.2.2 of C.S0024-C v2.0	
UATI104	UATI104_Type	Represents UATI(127:24), as per clause 6.3.7.2.2 of C.S0024-C v2.0 if has to be assigned	

D.7.5.3 HRPD_Indications

RegAndDefBearerEstInd_Type

TTCN-3 Record	Туре		
Name	RegAndDefBearerEstInd_	Туре	
Comment			
UATI_Assignm	Null Type		UATIAssignment is received
entCmpl			UATIComplete is received
InitialChAssign	Null_Type		Initial Traffic/Extended Channel/AlternateLink(Pre-registration)
Cmpl			Assignment procedure started UE has sent
			ConnectionRequest/AlternateLinkOpen message
			Traffic/Extended Channel /AlternateLink(Pre-registration)
			assignment is completedUE has sent TrafficChannelComplete(
			Route update protocol)/ AlternateLinkOpenComplete.
			In the registration and Default bearer establishment procedure,
			UE initiated Channel/Alternate Link can be released and configured, only first assignment is reported.
SCP_ConfigC	Null_Type		SCP (Session Configuration Protocol)ConfigurationRequest
mpl	<u>ivan_Type</u>		message is received
Прі			SCP (Session Configuration Protocol)ConfigurationResponse
			message is transmitted
Stream_Config	Null Type		Stream Protocol Configuration ConfigurationRequest message is
Cmpl			received
'			Stream Protocol Configuration ConfigurationResponse message
			is transmitted
EMPA_MMPA_	Null Type		Enhanced Multi flow/Multi flow Packet application
ConfigCmpl			ConfigurationRequest message is received
			Enhanced Multi flow/Multi flow Packet application
			ConfigurationComplete message is received
			EMPA ConfigurationResponse message or MMPA
			ConfigurationResponse is received corresponding to steps 30A
CassianNamatia	Nivilla Trans		TO 30C of table 4.5.2B.3-2
SessionNegotia tionCmpl	Null_Type	opt	SS initiated Session Negotiation has started; Session Negotiation has completed
DeviceAuthCm	Null_Type	opt	Device level authentication has started; Device level
pl	<u>itali Type</u>	Opt	authentication has completed
LocationUpdate	Null_Type	opt	Location Update started; Location Update completed
Cmpl	<u> </u>	97.	255anon opaato stantos, 255anon opaato 55pietos
EAP_AKA_Cm	Null Type		Improved Extensible Authentication protocol for Authentication
pl =			and Key agreement started RFC 5448
			* Message flow in X.S0057-E v1.0 clause 5.2.5.1 Authentication
			and Key agreement Completed
			optionally After entering PPP LCP Open State, PPP Version
			Capability Indication and/or Max PPP Inactivity Timer negotiation
			are completed
VSNCP_Config	Null Type		PDN connection establishment started and UE has sent
Cmpl			PPP Vendor Specific Network Control Protocol Configuration
			Request PDN Connection and default bearer establishment is
			completed with possible IPV4 address (optional) and or IPv6 interface ID
			(Mandatory) provided
			Attach type shall be Handover Attach
DHCP_ConfigC	DHCP_Ind_Type	opt	UE and SS decided for IPv4 address allocation by DHCP IPv4
mpl	<u> </u>	John	address allocation completed by UE and SS
			Completion of IP Address through DHCP
ICMPv6_Config	Null_Type	opt	UE optionally sent IPv6 stateless autoconfiguration Router
Cmpl			solicitation message and SS has responded with IPv6 Router
			Advertisement message

HRPD_ZoneRegistrationInd_Type

TTCN-3 Record	TTCN-3 Record Type			
Name	HRPD_ZoneRegistrationInd	_Type)	
Comment				
UATI_Assignm entCmpl	Null Type		UATIAssignment is received UATIComplete is received	
EAP_AKA_Cm pl	Null_Type		Improved Extensible Authentication protocol for Authentication and Key agreement started RFC 5448 Message flow in X.S0057-E v1.0 clause 5.2.5.1 Authentication and Key agreement Completed optionally After entering PPP LCP Open State, PPP Version Capability Indication and/or Max PPP Inactivity Timer negotiation are completed	
VSNCP_Config Cmpl	Null Type		PDN connection establishment started and UE has sent PPP Vendor Specific Network Control Protocol Configuration Request PDN Connection and default bearer establishment is completed with possible IPV4 address (optional) and or IPv6 interface ID (Mandatory) provided Attach type shall be Handover Attach	
DHCP_ConfigC mpl	DHCP Ind Type	opt	UE and SS decided for IPv4 address allocation by DHCP IPv4 address allocation completed by UE and SS Completion of IP Address through DHCP	
ICMPv6_Config Cmpl	Null Type	opt	UE optionally sent ICMPv6 Router solicitation message and SS has responded with IPv6 Router Advertisement message	

DedicatedBearerRelInd_Type

TTCN-3 Record	TTCN-3 Record Type				
Name	DedicatedBearerRelInd_Type	DedicatedBearerRelInd_Type			
Comment					
VSNP_Termina teCmpl	Null_Type		Dedicated bearers are deactivated/ released		
SCP_ReleaseC mpl	Null_Type	opt	Session Configuration Protocol to release the reservations exclusively associated with the deleted bearer Reservation deletion completed		

DefaultBearerRelDetachInd_Type

TTCN-3 Record Type			
Name	DefaultBearerRelDetachInd	_Type	
Comment			
VSNCP_Termi nateCmpl	Null_Type	opt	To Released configured default bearer and hence associated Dedicated bearer X.S0057-E v1.0 clause 11.3 and 11.1.1 To indicate the default bearer is released
LCP_Terminate Cmpl	Null Type		To detach the UE X.S0057-E v1.0 clause 11.2 Detach completed

${\bf Mobility From EUTRACmpl_Type}$

TTCN-3 Record	Туре	
Name	MobilityFromEUTRACmpl_Type	
Comment		
ConnectionReq Rcvd	Null_Type	Received Tunneled HRPD Connection Request Message
RouteUpdateIn d	Null Type	Received Tunneled HRPD Route Update Message
TrafficChCmpl Rcvd	Null_Type	Received HRPD Traffic Channel Complete in HRPD RAT, after transmission of tunneled Traffic Channel Assignment, HRPD Silence Parameters and HRPD Open Loop Parameters

AdditionalDefBearerEstInd_Type

TTCN-3 Record	TTCN-3 Record Type			
Name	AdditionalDefBearerEstInd	Type		
Comment				
VSNCP_Config Cmpl	Null Type		PDN connection establishment started and UE has sent PPP Vendor Specific Network Control Protocol Configuration Request PDN Connection and default bearer establishment is completed with possible IPV4 address (optional) and or IPv6 interface ID (Mandatory) provided Attach type shall be Handover Attach(pre-registration) or Initial Attach (if normal registration in HRPD cell)	
DHCP_ConfigC mpl	DHCP_Ind_Type	opt	UE and SS decided for IPv4 address allocation by DHCP IPv4 address allocation completed by UE and SS Completion of IP Address through DHCP	
ICMPv6_Config Cmpl	Null_Type	opt	UE optionally sent ICMPv6 Router solicitation message and SS has responded with IPv6 Router Advertisement message	

HRPD_SystemIndication_Type

TTCN-3 Union T	TTCN-3 Union Type			
Name	HRPD_SystemIndication_Type			
Comment				
Error	Null Type	Used by SS to indicate any error; the Actual Error types reported in ASP common part in CDMA2000_IndicationStatus_Type		
InitialAccessPr obeRcvd	Null Type	Initial Access probe is received;		
RegAndDefBea rerEstInd	RegAndDefBearerEstInd Type	UE has successfully performed registration and default bearer establishment		
DedicatedBear erEstInd	Null_Type	Vendor specific network protocXol (RFC 3772) procedures to reestablish Dedicated bearer as defined in S.0057 clause 5.5.3.1 (BCM is MS/NW) or clause 5.5.4.1.1 (BCM = MS-Only) Bearer Configuration Mode		
		Dedicated bearers are (re) established		
DedicatedBear erRelInd	DedicatedBearerRelInd_Type	To indicate the Dedicated bearer is released		
DefaultBearerR elDetachInd	DefaultBearerRelDetachInd Type	To Release configured default bearer and hence associated Dedicated bearer X.S0057-E v1.0 clause 11.3 and 11.1.1 Dedicated bearers are deactivated/released To detach the UE X.S0057-E v1.0 clause 11.2 Detach completed		
MovedToDorm antMode	Null Type	The channels are released and UE is moved to PPP dormant mode/Air interface Idle.		
MobilityFromE UTRACmpl	MobilityFromEUTRACmpl Type	To confirm that Handover from EUTRAN is completed by receiving Traffic Channel Complete and the MessageSequence is same as in Traffic Channel Assignment		
AdditionalDefB earerEstInd	AdditionalDefBearerEstInd_Type	UE has successfully performed additional default bearer establishment (additional PDN)		
HRPD_ZoneRe gistrationInd	HRPD ZoneRegistrationInd Type	Initially pre-registered UE detects change in HRPD Zone ID in SIB and hence updates registration		

D.7.5.4 HRPD_Commands

HRPD_UE_InitStateType

TTCN-3 Enumerated	TTCN-3 Enumerated Type			
Name	HRPD_UE_InitStateType			
Comment	HRPD UE states as defined in C.S0057-E v1.0 clause 3.1			
idle_Null	In the Inactive/Null State,			
	1. there is no physical traffic channel between the UE and the eAN, and no connection exists			
	between the eAN and the ePCF			
	2. no PPP link between the UE and the HSGW .			
	3. The UE may have a Universal Access Terminal Identifier (UATI) that has been assigned by			
	an eHRPD eAN			
dormant	In the Dormant State,			
	1. no physical traffic channel exists between the UE and the eAN and no connection exists			
	between the eAN and the ePCF.			
	2. PPP link between the UE and the HSGW			
	3. eHRPD DORMANT state equates to the "idle" state referred to in TS 23.402			
active_Connected	In the Active/Connected State,			
	1. a physical traffic channel exists between the UE and the eAN over which data may be sent.			
	A connection exists between the eAN and the ePCF, and between the ePCF and the HSGW,			
	2. there is a PPP link between the UE and the HSGW			
preregister	The UE is performing pre-register though a different Access network			

RegAndDefBearerEst_Type

TTCN-3 Record	TTCN-3 Record Type		
Name	RegAndDefBearerEst_Type		
Comment			
InitState	HRPD_UE_InitStateType		
RLP_FlowId	RLP FlowId Type	Associated RLP Flow ID	
AttachType	CDMA2000 AttachType	The Attach Type to be expected in VSNCP procedure	

DefaultBearerRelDetach_Type

TTCN-3 Record	TTCN-3 Record Type		
Name	DefaultBearerRelDetach_Type		
Comment			
InitState	HRPD UE InitStateType		
PDN_Id	PDN Id Type	PDN_ID of the bearer	
RLP_FlowId	RLP FlowId Type	Associated RLP Folw ID	
UE_NW_Initiat	LCP DetachInit Type	If initiated by UE or Network	
ed			

${\bf Dedicated Bearer Est Rel_Type}$

TTCN-3 Record	TTCN-3 Record Type		
Name	DedicatedBearerEstRel_Type		
Comment			
InitState	HRPD UE InitStateType	PPP and Air Interface state of UE when the procedure is being executed	
AssociatedDefa ultBearer	PDN Id Type	the PDN ID of the associated default bearer; Gives the APN with which additional Dedicated Bearer needs to be established	
Flow_lds	Flow_ldList_Type	Flow_ID's of the multiple dedicated bearers to be Activated/Deactivated	
RLP_FlowIds	RLP FlowIdList Type	Associated RLP Folw ID; There is one to one association between elements in Flow_IdList_Type and RLP_FlowIdList_Type; it's a TTCN programming error otherwise	

AdditionalDefBearerEst_Type

TTCN-3 Record Type			
Name	AdditionalDefBearerEst_Type	ое	
Comment	used for multiple PDN connections		
InitState	HRPD UE InitStateType		
RLP_FlowId	RLP FlowId Type		Associated RLP Flow ID

HRPD_SystemCommand_Type

TTCN-3 Union Type			
Name	HRPD_SystemCommand_Type		
Comment Penarthitial Aca	Null Type	CC in avanated to report any possible Assess and as received as	
ReportInitialAcc esProbe	Null Type	SS is expected to report any possible Access probes received on HRPD Cell; will be used in situations where UE is not expected to camp on a HRPD Cell	
RegAndDefBea rerEst	RegAndDefBearerEst Type	To complete registration and establish Default bearer; Initial UE State is Idle_Null State Indications up to VSNCP protocol and possible IP signalling over DHCPv4 and/or ICMPv6 is performed At the end of procedure, UE is still in Active/Connected state (not pre-registration); SS is expected to send InitialAccessProbeRcvd(only if initial state is not Active and not pre-registration) and RegAndDefBearerEstInd as an indication for successful completion of procedure	
DedicatedBear erEst	DedicatedBearerEstRel_Type	Dedicated bearers are established/Activated by VSNP/EMPA protocol; PDN ID and RLP flow ID pairs are provided for each Dedicated bearer At the end of procedure, UE is still in Active/Connected state SS is expected to send InitialAccessProbeRcvd(only if initial state is not Active) and DedicatedBearerEstInd as an indication for successful completion of procedure	
MoveToDorma ntState	Null Type	UE is Active_Connected state and is moved to Dormant state SS is expected to send MovedToDormantMode	
MoveToActiveS tate	RLP_FlowIdList_Type	UE is initially Dormant state; UE is made to Move to Active_Connected State List of RLP flow Id's (associated with default + dedicated bearer), need to be established are provided SS is expected to send InitialAccessProbeRcvd	
DedicatedBear erRel	DedicatedBearerEstRel Type	Dedicated bearers are released/De-Activated by VSNP terminate and SCP release protocol; At the end of procedure, UE is still in Active/Connected state (not pre-registration) SS is expected to send InitialAccessProbeRcvd(only if initial state is not Active and not pre-registration) and DedicatedBearerRelInd as an indication for successful completion of procedure	
DefaultBearerR elDetach	DefaultBearerRelDetach_Type	Default bearer is released by VSNCP terminate and SCP release protocol UE is made to detach by LCP protocol and Possible Channels are released At the end of procedure, UE is in Idle_Null state Notes: When Detach is network initiated the sequence is 1. Default bearer (and hence all associated Dedicated bearers) released by VSNCP terminate 2. UE is detached by LCP terminate procedure When Detach is UE initiated, UE may only perform LCP terminate procedure SS is expected to send InitialAccessProbeRcvd(only if initial state is not Active) and DefaultBearerRelDetachInd as an indication for successful completion of procedure	
MobilityFromE UTRA	Null Type	Prepare CDMA SS for receiving tunnelled HRPD Connection Request and Route Update tunnelled in ULHandoverPreparationTransfer Respond with GCSNA encapsulated HRPD Silence Parameters and HRPD Open Loop Parameters, HRPD Traffic Channel Assignment to be sent tunnelled in MobilityFromEUTRACommand Receive Traffic Channel Complete in the HRPD Cell; After Receiving Traffic Channel Assignment, HRPD Silence Parameters and HRPD Open Loop Parameters embedded in EUTRA message MobilityFromEUTRACommand, UE has	

		Tuned to HRPD Radio and transmitted Traffic Channel Complete in the HRPD Cell SS is expected to send MobilityFromEUTRACmpl as an indication for successful completion of procedure
AdditionalDefB earerEst	AdditionalDefBearerEst_Type	To establish an additional PDN connection Initial UE State is Idle_Null State or procedure performed through pre-registration Indications up to VSNCP protocol and possible IP signalling over DHCPv4 and/or ICMPv6 is performed At the end of procedure, UE is still in Active/Connected state(not pre-registration); SS is expected to send InitialAccessProbeRcvd (only if initial state is not Active and not pre-registration) and AdditionalDefBearerEstInd as an indication for successful completion of procedure
HRPDZoneReg ister	RegAndDefBearerEst_Type	To update registration by a UE already registered and established Default bearer; Initial UE State is Idle_Null State Indications up to VSNCP protocol and possible IP signalling over DHCPv4 and/or ICMPv6 is performed At the end of procedure, UE is still in Active/Connected state (not pre-registration); SS is expected to send InitialAccessProbeRcvd(only if initial state is not Active and not pre-registration) and RegAndDefBearerEstInd as an indication for successful completion of procedure

D.7.6 CDMA2000_RTT1X

D.7.6.1 RTT1X_Indications

RTT1X call flows in RTT1x cell

Expected Sequence for Attach (Power Up Attach)

- 1. Initial AccessProbeRcvd
- 2. CS_RegistrationStart(Powerup)
- 3. CS_RegistrationCmpl

Expected Sequence for Detach (Power Down Attach)

- 1. Initial AccessProbeRcvd
- 2. CS_RegistrationStart (PowerDown)
- 3. CS_RegistrationCmpl

Expected Sequence for CSFB Call Establishment

- 1. Initial AccessProbeRcvd
- 2. CS_CallEstStart (Origination/ PageResponse)
- 3. ChAssignCmpl (Extended Channel Assignment is sent)
- 4. CS_CallEstCompleted (Acknowledgement Order Sent, Service Connect sent, Service Connect Completion received, Alert Sent/Received and ConnectOrder is received)

Expected Sequence for SRVCC call handover

1. HandoffCmpl

RTT1X_CS_CallType

TTCN-3 Enumerated Type		
Name	RTT1X_CS_CallType	
Comment		
mo	Call is UE originated	
mt	Call is UE Terminated	
mo_Emergency	UE originated Emergency Call	

RTT1XAttachType

TTCN-3 Enumerated Type		
Name	RTT1XAttachType	
Comment	Ref C.S005 Table 2.7.1.3.2.1-1	
powerUpAttach	UE is doing Power up attach REG_Type = '0001'B; it was not previously attached	
powerDownAttach	UE is doing power down attach REG_Type = '0011'B; it was previously attached	
zoneBasedAttach	UE is doing Zone based attach REG_Type = '0010'B	
orderedAttach	UE is doing Ordered attach REG_Type = '0101'B	
OtherAttach	Any other Attach REG_Type does not equal above values	

CS_RegCmplInd_Type

TTCN-3 Record	TTCN-3 Record Type		
Name	CS_RegCmplInd_Type		
Comment			
CS_Registratio nCmpl	RTT1XAttachType	CS power up/down registration is completed UE Sent Registration message and received an L2 Acknowledgement Optionally SS can perform Authentication and has sent Registration Accepted order	

CS_Reg_CallCmplInd_Type

TTCN-3 Record	TTCN-3 Record Type		
Name	CS_Reg_CallCmplInd_Type)	
Comment			
CS_Registratio nCmpl	RTT1XAttachType	opt	CS power up/down registration is completed; This is omit if implicit registration is done UE Sent Registration message and received an L2 Acknowledgement Optionally SS can perform Authentication and has sent Registration Accepted order UE can also do a implicit registration; i.e. reception of Origination/reconnect/CallRecovery/Page message by Base station is treated as implicit registration
CS_CallEstStar ted	RTT1X CS CallType		Received Origination message for MO and Page Response for MT
ChAssignCmpl	Null Type		(Extended) Channel Assignment procedure started UE has sent ConnectionRequestTraffic Extended Channel assignment is completedUE has sent TrafficChannelComplete
CS_CallEstCo mpleted	Null_Type		SS received Service Connect Completion(Mo) or ConnectOrder(MT) (i.e. User Accepted call)

CS_CallCmplInd_Type

TTCN-3 Record Type			
Name	CS_CallCmplInd_Type		
Comment			
CS_CallEstStar	RTT1X_CS_CallType	Received Origination message for MO and Page Response for	
ted		MT	
ChAssignCmpl	Null_Type	(Extended) Channel Assignment procedure started completed	
CS_CallEstCo	Null_Type	SS received Service Connect Completion(MO) or	
mpleted		ConnectOrder(MT) (i.e. User Accepted call)	
IsEmergencyC	boolean	True indicates the established call is emergency call, false	
all		indicates a normal voice has been established	

ECSFB_CallCmplInd_Type

TTCN-3 Record	TTCN-3 Record Type			
Name	ECSFB_CallCmplInd_Type			
Comment				
CS_CallEstStar ted	RTT1X CS CallType	Received Tunneled GCSNA encapsulated Origination message for MO and Page Response for MT call		
HandoffCmpl	Null_Type	indicates SS has received HandoffComplete message and the call is established		
CS_CallEstCo mpleted	Null_Type	SS received Service Connect Completion (MO) or ConnectOrder (MT) (i.e. User Accepted call)		
IsEmergencyC all	boolean	True indicates the established call is emergency call, false indicates a normal voice has been established		

ECAM_CS_CallCmplInd_Type

TTCN-3 Record	TTCN-3 Record Type		
Name	ECAM_CS_CallCmplind_Typ	e	
Comment			
CS_TunneledC allEstStarted	RTT1X CS CallType	Received Tunneled GCSNA encapsulated Origination message for MO and Page Response for MT call	
CS_CallEstStar ted	RTT1X CS CallType	Received Origination message for MO and Page Response for MT	
ChAssignCmpl	Null Type	Extended Channel Assignment procedure started completed	
CS_CallEstCo mpleted	Null Type	SS received Service Connect[MO] or ConnectOrder[MT] (i.e User Accepted call)	
IsEmergencyC all	boolean	True indicates the established call is emergency call, false indicates a normal voice has been established	

ECSFB_CallRejInd_Type

TTCN-3 Record Type			
Name	ECSFB_CallRejInd_Type		
Comment			
CS_CallEstRej ected	RTT1X CS CallType	SS Received tunneled 1xRTT Origination (M0)/Page Response (MT) message Respond with 1xRTT Release Order message	
IsEmergencyC all	boolean	True indicates the established call is emergency call, false indicates a normal voice has been established	

RTT1X_SystemIndication_Type

TTCN-3 Union T	TTCN-3 Union Type		
Name	RTT1X_SystemIndication_Type		
Comment			
Error	Null Type	Used by SS to indicate any error; the Actual Error types reported in ASP common part in CDMA2000_IndicationStatus_Type	
InitialAccessPr obeRcvd	Null_Type	Initial Access probe is received	
CS_Registratio nCmpl	CS RegCmplInd Type	CS power up/down registration is completed As registration message, and possible Authentication Registration accepted order are all sent received on f/r-csch UE at end is in Idle state	
CS_Reg_CallC mplInd	CS Reg CallCmplInd Type	CS Registration /implicit registration and Call Indication MO or MT UE is in connected state with f/r dtch configured	
CS_CallCmplIn d	CS CallCmplInd Type	CS Call Indication MO or MT UE is in connected state with f/r dtch configured	
HandoffCmpl	Null Type	needed for SRVCC handover of an IMS voice call on LTE to 1XRTT indicates SS has received HandoffComplete message and the call is established	
MovedToldleSt ate	Null_Type	The channels are released and UE is moved to Idle state. CS Call is released by exchange of Release order in both directions C.S0005-F v1.0 figure B3 and B4	
ECSFB_CallC mplInd	ECSFB_CallCmplInd_Type	eCSFB Call Indication MO or MT UE is in connected state with f/r dtch configured	
ECSFB_ECAM _CallCmplInd	ECAM CS CallCmplInd Type	eCSFB ECAM based Call Indication MO or MT UE is in connected state with f/r dtch configured	
ECSFB_CallRe jInd	ECSFB_CallRejInd_Type	eCSFB Call Rejected MO or MT UE is not camping in 1xRTT	

D.7.6.2 RTT1X_Commands

CS_Registration_Type

TTCN-3 Record	TTCN-3 Record Type			
Name	CS_Registration_Type			
Comment				
AttachType	RTT1XAttachType			
IsPreRegistrati on	boolean		Indicates if it is done as pre registration Value is ignored if Attach Type is Power down	
			(Assumption detach happens only in 1XRTT cell)	
RAND	B32_Type	opt	RAND [From eNB] to be included in CSFBParametersResponseCDMA2000, HandoverFromEUTRAPreparationRequest Value not present for power down registration	

RTT1X_SystemCommand_Type

TTCN-3 Union T	уре	
Name	RTT1X_SystemCommand_Type	
Comment		
ReportInitialAcc esProbe	Null Type	SS is expected to report any possible Access probes received on 1XRTT Cell; will be used in situations where UE is not expected to camp on a 1XRTT Cell
CS_Registration	CS Registration Type	Power up attach/ power down attach in 1xRTT cell or Pre registration (Power up attach) tunnelled through a different RAT in case of pre-registration attach, the CDMA SS starts by sending mobilityParameters to be tunnelled in CSFBParametersRequestCDMA2000 SS is expected to send InitialAccessProbeRcvd (only if initial state is not pre-registration) and CS_RegistrationCmpl as an indication for successful completion of procedure
CSFB_Call	RTT1X_CS_CallType	CSFB by a (pre-)registered UE If the call Type is mt, CDMA SS sends 1x RTT GCSNA encapsulated General Page to be tunnelled in DLInformation Transfer SS is expected to send InitialAccessProbeRcvd and CS_CallCmpIInd as an indication for successful completion of procedure
CS_Reg_CSFB _Call	RTT1X CS CallType	UE not previously pre-registered hence performs registration (Power up attach) and CSFB call Registration can be implicit registration SS is expected to send InitialAccessProbeRcvd and CS_Reg_CallCmplInd as an indication for successful completion of procedure
MobilityFromE UTRA_1XRTT	NullType	Prepare SS for Mobility from Eutra CDMA SS sends mobilityParameters to be tunnelled in HandoverFromEUTRAPreparationRequest Receive tunnelled 1xRTT GCSNA Encapsulated Origination message and MEID in ULHandoverPreparationTransfer Respond with GCSNA encapsulated 1xRTT Handoff Direction message to be sent tunnelled in MobilityFromEUTRACommand Receive HandoffCmpl in the 1xRTT Cell; SS is expected to send HandoffCmpl as an indication for successful completion of procedure
CS_OrderedRe gistration	CS_Registration_Type	ordered registration on (already registered) 1xRTT cell or Pre registration Power up attach) through a different RAT. SS triggers the procedure by sending Registration Request order (GCSNA encapsulated in case of pre-registration) and sends mobilityParameters to be tunnelled in CSFBParametersRequestCDMA2000 SS is expected to send InitialAccessProbeRcvd (only if initial state is not pre-registration) and CS_RegistrationCmpl as an indication for successful completion of procedure
E_CSFB_Call	RTT1X_CS_CallType	Prepare SS for Enhanced CSFB call If the call Type is mt, CDMA SS sends 1x RTT GCSNA encapsulated General Page to be tunneled in DLInformation Transfer CDMA SS sends mobilityParameters to be tunneled in HandoverFromEUTRAPreparationRequest Receive tunneled 1xRTT GCSNA Encapsulated Origination (M0)/Page Response (MT) message and MEID in ULHandoverPreparationTransfer Respond with GCSNA encapsulated 1xRTT Handoff Direction message to be sent tunneled in MobilityFromEUTRACommand Receive HandoffCmpl in the 1xRTT Cell; SS responds with Alert With Information (MT)/Sevice connect (MO) in the 1xRTT cell. SS receives Connect order (MT)/Service Connect Completion (MO)

		SS is expected to send ECSFB_CallCmplInd as an indication for successful completion of procedure
E_CSFB_Call_	RTT1X_CS_CallType	Prepare SS for Enhanced CSFB call with Extended channel
ECAM		assignment If the call Type is mt, CDMA SS sends 1x RTT GCSNA
		encapsulated General Page to be tunneled in DLInformation
		Transfer
		CDMA SS sends mobilityParameters to be tunneled in HandoverFromEUTRAPreparationRequest
		Receive tunneled 1xRTT GCSNA Encapsulated Origination
		(M0)/Page Response (MT) message and MEID in
		ULHandoverPreparationTransfer
		Respond with GCSNA Encapsulated ECAM message to be sent tunneled in MobilityFromEUTRACommand
		Receive Origination in the 1xRTT Cell;
		After extended channel assignment, SS receives Connect order
		(MT)/Service Connect Completion (MO)
		SS is expected to send ECSFB_ECAM_CallCmplInd as an indirection for expectful completion of proceedure.
E_CSFB_Call_	RTT1X CS CallType	indication for succesful completion of procedure Prepare SS for Enhanced CSFB call, which needs to be rejected
Reject	itt int oo oanrypo	If the call Type is mt, CDMA SS sends 1x RTT GCSNA
		encapsulated General Page to be tunneled in DLInformation
		Transfer
		CDMA SS sends mobilityParameters to be tunneled in HandoverFromEUTRAPreparationRequest
		Receive tunneled 1xRTT GCSNA Encapsulated Origination
		(M0)/Page Response (MT) message and MEID in
		ULHandoverPreparationTransfer
		Respond with GCSNA encapsulated 1xRTT Release Order message to be sent tunneled in DLInformation Transfer
		SS is expected to send ECSFB_CallRejInd as an indication for
		succesful completion of procedure

D.7.7 System_Interface

CDMA2000_SystemRequest_Type

TTCN-3 Union Type			
Name	CDMA2000_SystemRequest_Type		
Comment			
Cell	CDMA2000_CellConfigRequest_	configure/release a cell	
	<u>Type</u>		
CellAttenuation	CDMA2000 CellAttenuationList		
List	Type		

CDMA2000_SystemConfirm_Type

TTCN-3 Union Type		
Name	CDMA2000_SystemConfirm_Type	
Comment	confirmations for system configurati	on; in general to be sent after the configuration has been done
Cell	Null_Type	(no further parameters from SS)
CellAttenuation List	Null Type	(no further parameters from SS) NOTE 1: the confirmation shall be sent when all cells have changed power levels NOTE 2: for the CellId in the common ASP part the same rules are applied as for the CDMA2000 SYSTEM REQ

CDMA2000_SYSTEM_CTRL_REQ

TTCN-3 Recor	TTCN-3 Record Type		
Name	CDMA2000_SYSTEM_CTRL_R	EQ	
Comment			
Common	CDMA2000 ReqAspComm onPart Type	TimingInfo depends on respective primitive:	
Request	CDMA2000_SystemReque st_Type	- Cell TimingInfo: 'now' (in general) - CellAttenuationList TimingInfo: 'now' (in general, but activation time may be used also)	

CDMA2000_SYSTEM_CTRL_CNF

TTCN-3 Record	TTCN-3 Record Type			
Name	CDMA2000_SYSTEM_CTRL_CNF			
Comment				
Common	CDMA2000 CnfAspComm onPart_Type		TimingInfo is ignored by TTCN => SS may set TimingInfo to "None"	
Confirm	CDMA2000 SystemConfir m_Type			

CDMA2000_SystemCommand_Type

TTCN-3 Union T	TTCN-3 Union Type			
Name	CDMA2000_SystemCommand_Type			
Comment				
HRPD	HRPD_SystemCommand_Type	HRPD Specific System commands		
RTT1X	RTT1X_SystemCommand_Type	1XRTT specific System commands		

CDMA2000_SYSTEM_CMD

TTCN-3 Record Type			
Name	CDMA2000_SYSTEM_CMD		
Comment			
Common	CDMA2000_ReqAspComm onPart_Type	Routing info will be none generally; TimingInfo is generally now but activation time may be used also for all System commands Cnf and Follow on flags are both false	
Command	CDMA2000 SystemComm and Type	HRPD or 1XRTT System commands	

CDMA2000_SystemIndication_Type

TTCN-3 Union Type		
Name	CDMA2000_SystemIndication_Type	
Comment		
HRPD	HRPD SystemIndication Type	
RTT1X	RTT1X SystemIndication Type	

CDMA2000_SYSTEM_IND

TTCN-3 Record Type			
Name	CDMA2000_SYSTEM_IND	CDMA2000_SYSTEM_IND	
Comment			
Common	CDMA2000 IndAspCommo	The SS shall provide TimingInfo depending on the respective	
	nPart_Type	indication:	
Indication	CDMA2000_SystemIndicati	- Error	
	on Type	TimingInfo: related to the error (if available)	
		- HRPD/RTT1X Procedure completion	
		The timing info corresponding to logical completion of the	
		complete procedure	
		includes completion of all sub protocols	

CDMA2000_RLP_FLOW_COMMON_IND

TTCN-3 Record	TTCN-3 Record Type		
Name	CDMA2000_RLP_FLOW_COMMON_IND		
Comment	ASP to receive PDUs from RLP Packet Flows		
Common	CDMA2000_IndAspCommo nPart Type		CellId : identifier of the cell RoutingInfo : RLP Flow id TimingInfo : time when RLP SDU's has been completely received
Data	CDMA2000 U PlaneData Type		

CDMA2000_RLP_FLOW_COMMON_REQ

TTCN-3 Record Type		
Name	CDMA2000_RLP_FLOW_COMMON_REQ	
Comment	ASP to send PDUs to RLP Pack	ket flows
Common	CDMA2000_ReqAspComm onPart Type	CellId: identifier of the cell RoutingInfo: RLP Flow id TimingInfo: starting point when to start sending sequence of data PDUs e.g. TimeStampLong_Type = X, subframe number = x; U_Plane.SubframeDataList(i).SubframeOffset := offset_i; => U_Plane.SubframeDataList(i).PduSduList shall be sent out at TimeStampLong_Type = X + ((x + offset_i) / 4); subframe number = (x + offset_i) mod 4 ControlInfo: CnfFlag:=false; FollowOnFlag:=false
U_Plane	CDMA2000 U Plane Req uest Type	· · · · · · · · · · · · · · · · · · ·

CDMA2000_SYSTEM_PORT

TTCN-3 Port	TTCN-3 Port Type		
Name	CDMA2000_SYSTEM_PORT		
Comment	CDMA2000 PTC: Port for system configuration		
out	CDMA2000 SYSTEM CTRL RE		
	<u>Q</u>		
in	CDMA2000_SYSTEM_CTRL_CN		
	E		

CDMA2000_SYSCMD_IND_PORT

TTCN-3 Port Type		
Name	CDMA2000_SYSCMD_IND_PORT	
Comment	CDMA2000 PTC: Port for system indications/Commands	
out	CDMA2000 SYSTEM CMD	
in	CDMA2000 SYSTEM IND	

CDMA2000_RLP_FLOW_PORT

TTCN-3 Port Type		
Name	CDMA2000_RLP_FLOW_PORT	
Comment	CDMA2000 PTC: Port for RLP SDU's to be sent on RLP packet data streams	
out	CDMA2000 RLP FLOW COMM	
	ON REQ	
in	CDMA2000_RLP_FLOW_COMM	
	ON_IND	

D.8 CDMA2000_CommonDefs

type definitions used by CDMA2000 and EUTRA

CDMA2000_CommonDefs: Basic Type Definitions

TTCN-3 Basic Types		
BandclassCDMA2000_Ty	integer (031)	Band class defined as in 36.331 ASN.1
pe		definition for BandclassCDMA2000
ARFCN_ValueCDMA2000	integer (02047)	ARFCN for CDMA2000 cell as in 36.331
_Type		ASN.1 definition for ARFCN_ValueCDMA2000
PhysCellIdCDMA2000_Ty	integer (0511)	PN offset for CDMA2000 cell as in 36.331
pe		ASN.1 definition for PhysCellIdCDMA2000
ProtRev_Type	integer (0255)	protocol revision
OpenLoopAdjust_Type	integer (0255)	9.4.6.2.6 of C.S0024-C v2.0
BCD_Digit_Type	integer (09)	To represent BCD digit of MCC
TMSI_Code_Type	O4 Type	
EncryptionMode_Type	integer (07)	C.S0005-F v1.0 table 3.7.4.5-1 & 3.7.5.7-3
		0 Encryption disabled
		1 Encryption with ORYX algorithm for User
		Info and
		Enhanced Cellular Msg Encryption
		Algorithm for Signalling
		2 Encryption with Rijndael algorithm
		3-7 reserved
TMSI_ZoneLen_Type	integer (18)	TMSI Zone Length; On encoding this is
		encoded to B4_Type
SectorID_HRPD_Type	B128_Type	Sector ID for HRPD as in 36.331 ASN.1
		definition for
		CellGlobalIdCDMA2000.cellGlobalIdHRPD
PilotOffset_Type	integer (-310)	Represents the offset i.e. Pilot Channel power
		to total cell power(dB);
		By default shall be set to -7
	((() () () () () ()	127 selected Max value by 7 bits
Powerlor_Type	integer (-1270)	Represents the cell total Tx power lor
D		(dBm/1.23 MHz)
Powerloc_Type	integer (-1270)	Represents the cell total AWGN power loc
0 1 7	(0. 055)	(dBm/1.23 MHz) which is independent of cell
SystemType_Type	integer (0255)	0 to 2 are allowed and 3 to 255 are reserved
Onlanda Tarra	(0.055)	13.1 of C.S0024-C v2.0
ColorCode_Type	integer (0255)	7.11.6.2.1 of C.S0024-C v2.0
ReverseLinkMACIndex_T ype	integer (0383)	C.S0024-C v2.0 clause 12.4.1.3.2.2

MCC_Type

TTCN-3 Record of Type		
Name	me MCC_Type	
Comment	Represents Mobile Country Code	
record length (3) of BCD_Digit_Type		

TMSI_Zone_Type

TTCN-3 Record of Type		
Name TMSI_Zone_Type		
Comment	TMSI Zone 1 to 8 octets	
record length (18) of B8 Type		

TMSI_Type

TTCN-3 Record Type		
Name	TMSI_Type	
Comment	Globally unique TMSI as defined in C.S0005-F v1.0 clause 3.7.2.3.2.19	
TMSI_ZoneLen	TMSI ZoneLen Type	Length of TMSI_Zone 18
TMSI_Zone	TMSI_Zone_Type	TMSI_ZoneLen octets of TMSI_Zone
TMSI_Code	TMSI Code Type	TMSI code

$SectorID_RTT1X_Type$

TTCN-3 Record Type		
Name	SectorID_RTT1X_Type	
Comment	Sector ID for 1XRTT acc. to C.S0005-F v1.0 clause 3.7.2.3.2.1 and as in 36.331 ASN.1 clause 6.3.4, definition of CellGlobalIdCDMA2000.cellGlobalId1XRTT	
Baseld	B16 Type	Base station identification. The base station shall set this field to its identification number
NID	B16_Type	Network identification This field serves as a sub-identifier of a system as defined by the owner of the SID. The base station shall set this field to the network identification number for this network
SID	B15_Type	System identification, set to the system identification number for this system

CarrierFreqCDMA2000_Type

TTCN-3 Record Type		
Name	CarrierFreqCDMA2000_Type	
Comment	Carrier Frequency for CDMA2000 cell as in 36.331 ASN.1 definition for CarrierFreqCDMA2000; contains Band class 5 bit and Channel number 11 bit part of Sector Channel over head message contained in 24 bit Channel IE	
BandClass	BandclassCDMA2000 Typ e	
ARFCN	ARFCN_ValueCDMA2000 Type	

CDMA2K_Type

TTCN-3 Enumerated Type		
Name	CDMA2K_Type	
Comment	CDMA 2000 Type for CDMA2000 cell as in 36.331 ASN.1 definition for CDMA2000-Type	
type1XRTT		
typeHRPD		

CellGloballdCDMA2000_Type

TTCN-3 Union Type		
Name	CellGlobalIdCDMA2000_Type	
Comment	CDMA 2000 Type Sector ID of the Cell as in 36.331 ASN.1 definition CellGlobalIdCDMA2000	
RTT1X	SectorID RTT1X Type	
HRPD	SectorID HRPD Type	

ReverseRateLimit_Type

TTCN-3 Enumerated Type		
Name	ReverseRateLimit_Type	
Comment	Table 9.9.6.3-2 of C.S0024-C v2.0; set to the highest data rate that the access terminal is allowed to use on the Reverse Traffic Channel; 10 Reserved values	
kbps0		
kbps9_6		
kbps19_2		
kbps38_4		
kbps76_8		
kbps153_6		
resrv1		
resrv2		
resrv3		
resrv4		
resrv5		
resrv6		
resrv7		
resrv8		
resrv9		
resrv10		

PacketApplication_Type

TTCN-3 Enumerated Type		
Name	PacketApplication_Type	
Comment	Type of Packet Application to be used in Stream protocol	
enhMultiFlowPacketA		
рр		

ControlChannelRate_Type

TTCN-3 Enumerated Type		
Name	ControlChannelRate_Type	
Comment	Determines the MAC configuration for Control Channel	
macIndex2		
macIndex3		

CDMA2000_CellId_Type

TTCN-3 Enumerated Type		
Name	CDMA2000_Cellid_Type	
Comment		
cdma2000_Cell_Non		
Specific		
cdma2000_Cell15	HRDP Cell	
cdma2000_Cell16	HRDP Cell	
cdma2000_Cell17	HRDP Cell	
cdma2000_Cell18	HRDP Cell	
cdma2000_Cell19	RTT1X Cell	
cdma2000_Cell20	RTT1X Cell	
cdma2000_Cell21	RTT1X Cell	
cdma2000_Cell22	RTT1X Cell	

SearchWindowSizeRecord_Type

TTCN-3 Record	TTCN-3 Record Type		
Name	SearchWindowSizeRecord_Type		
Comment			
SearchWindow _Active	SearchWindowSize_Type	Search Window for Active Cells	
SearchWindow _Neighbor	SearchWindowSize Type	Search Window for Neighbour Cells	
SearchWindow _Remaining	SearchWindowSize_Type	Search Window for Rest Cells	

D.9 HRPD_MsgTypeDefs

HRPD_MsgTypeDefs: Basic Type Definitions

TTCN-3 Basic Types		
MessageId_Type	B8_Type	
TransactionId_Type	B8_Type	
B34_Type	bitstring length(34)	

CONNECTION_REQUEST

TTCN-3 Record Type		
Name	CONNECTION_REQUEST	
Comment	clause 7.4.6.2.2	
Messageld	MessageId_Type	The access terminal shall set this field to 0x01
TransactionId	TransactionId Type	The access terminal shall increment this value for each new
		ConnectionRequest message sent
RequestReaso	B4 Type	0x0 Access Terminal Initiated
n		0x1 Access Network Initiated
Reserved	B4_Type	The access terminal shall set this field to zero.
		The access network shall ignore this field.

PilotRec

TTCN-3 Record	TTCN-3 Record Type			
Name	PilotRec			
Comment				
PilotPNPhase	B15 Type		The PN offset in resolution of 1 chip of a pilot in the Active Set or Candidate Set of the access terminal that is not the reference pilot	
ChannelInclude d	B1 Type		The access terminal shall set this field to '1' if the channel for this pilot offset is not the same as the current channel. Otherwise, the access terminal shall set this field to '0'.	
Channel	B24 Type	opt	The access terminal shall include this field if the ChannelIncluded field is set to '1'. The access terminal shall set this to the channel record corresponding to this pilot (see 14.1). Otherwise, the access terminal shall omit this field for this pilot offset	
PilotStrength	B6 Type		The access terminal shall set this field to - 2 * 10 * log10PS , where PS is the strength of the pilot in the above field, measured as specified in 8.7.6.1.2.3. If this value is less than 0, the access terminal shall set this field to '000000'. If this value is greater than'111111', the access terminal shall set this field to '1111111'	
Keep	B1 Type		If the pilot drop timer corresponding to the pilot in the above field has expired, the access terminal shall set this field to '0'; otherwise the access terminal shall set this field to '1'	

PilotRecList

TTCN-3 Record of Type				
Name	PilotRecList			
Comment				
record length (115) of PilotRec				

ReservedVariable

TTCN-3 Record of Type				
Name	ReservedVariable			
Comment				
record length (07) of bitstring				

ROUTE_UPDATE

TTCN-3 Record	TTCN-3 Record Type			
Name	ROUTE_UPDATE			
Comment	clause 8.7.6.2.1			
Messageld	Messageld Type	The access network shall set this field to '00'O		
MessageSeque nce	B8 Type	The access terminal shall set this field to the sequence number of this message. The sequence number of this message is 1 more than the sequence number of the last RouteUpdate message (modulo 284)sent by this access terminal. If this is the first RouteUpdate message sent by the access terminal, it shall set this field to 0x00		
ReferencePilot PN	B9 Type	The access terminal shall set this field to the access terminal's time reference (the reference pilot), relative to the zero offset pilot PN sequence in units of 64 PN chips		
ReferencePilot Strength	B6 Type	The access terminal shall set this field to - 2 * 10 * log10PS, where PS is the strength of the reference pilot, measured as specified in 8.7.6.1.2.3. If this value is less than 0, the access terminal shall set this field to '000000'. If this value is greater than '111111', the access terminal shall set this field to '111111'		
ReferenceKeep	B1 Type	If the pilot drop timer corresponding to the reference pilot has expired, the access terminal shall set this field to '0'; otherwise the access terminal shall set this field to '1'		
NumPilots	B4 Type	The access terminal shall set this field to the number of pilots that follow this field in the message		
PilotsRecList	PilotRecList	Pilot record		
Reserved	ReservedVariable	The number of bits in this field is equal to the number needed to make the message length an integer number of octets. This field shall be set to all zeros		

Header_Format

TTCN-3 Record	TTCN-3 Record Type			
Name	Header_Format			
Comment	When TunnelModeEnabled is not set to '0', the access terminal and the access network shall place the following header in front of each packet received from the Packet Consolidation Protocol			
SAPState	B1 Type	The sender shall set this field to '1' if the Inter-RAT Signalling Adaptation Protocol is currently in the Open State, otherwise the sender shall set this field to '0'		
SessionConfigu rationToken	B16_Type	If SAP is in the Open State, the access terminal shall omit this field. Otherwise, the access terminal shall set this field to the value of the SessionConfigurationToken which is public data of the Session Configuration Protocol. The access network shall omit this field		
ConnectionLay erFormat	B1 Type	The access terminal or the access network shall set this field to '1' if the connection layer packet is Format B; otherwise, it shall set this field to '0'		
ATI_Record	B34_Type	Access Terminal Identifier Record. The access terminal or the access network shall set this field to the record specifying the access terminal's ID specified by TransmitATI.ATI and TransmitATI.ATIType. This record is defined in 14.2 in [1]		
Reserved	B4 Type	The access terminal or the access network shall this field to all zeros		

Tunneled_ROUTE_UPDATE

TTCN-3 Record Type			
Name	Tunneled_ROUTE_UPDATE		
Comment			
Tunneled_Hea der	Header Format	When TunnelModeEnabled is not set to '0', the access terminal and the access network shall place the following header in front of each packet received from the Packet Consolidation Protocol	
ROUTE_UPDA TE Msg	ROUTE UPDATE	clause 8.7.6.2.1	

Tunneled_CONNECTION_REQUEST

TTCN-3 Record	TTCN-3 Record Type			
Name	Tunneled_CONNECTION_REQUEST			
Comment				
Tunneled_Hea der	Header Format		When TunnelModeEnabled is not set to '0', the access terminal and the access network shall place the following header in front of each packet received from the Packet Consolidation Protocol	
CONNECTION _REQUEST_M sg	CONNECTION REQUEST		clause 7.4.6.2.2	

D.10 EUTRA_ASP_CDMA2000TunnellingDefs

ASP definitions for tunnelling of CDMA2000 messages e.g. during CDMA2000 pre-registration

EUTRA_ASP_CDMA2000TunnellingDefs: Basic Type Definitions

TTCN-3 Basic Types		
TunneledInfoCDMA2000	octetstring	
MEID_Type	ULHandoverPreparationTransfer_r8_IEs .meid	
CDMA2000_MSG_REQ	CDMA2000 UL Container Type	
CDMA2000_MSG_IND	CDMA2000 DL Container Type	

UL_TunneledInfoCDMA2000

TTCN-3 Reco	TTCN-3 Record Type			
Name	UL_TunneledInfoCDMA200	00		
Comment				
Msg	TunneledInfoCDMA2000		OCTET STRING	
Meid	MEID Type	opt	ASN.1 type: BIT STRING (SIZE (56)) used to tunnel meid received from UE in ULHandoverPreparationTransfer for 1xRTT, not present other wise	

CDMA2000_UL_Container_Type

TTCN-3 Record Type			
Name	CDMA2000_UL_Container_Type		
Comment			
CDMA2000Typ	CDMA2000_Type		ASN.1 type: type1XRTT, typeHRPD
е			
UL_Msg	UL TunneledInfoCDMA200		
_	<u>0</u>		

DL_TunneledInfoCDMA2000

TTCN-3 Record Type			
Name	DL_TunneledInfoCDMA2000		
Comment			
Msg	TunneledInfoCDMA2000	OCTET STRING	

CDMA2000_DL_Container_Type

TTCN-3 Record Type			
Name	CDMA2000_DL_Container_Type		
Comment			
CDMA2000Typ	CDMA2000_Type		ASN.1 type: type1XRTT, typeHRPD
е			
DL_Msg	DL TunneledInfoCDMA200	(OCTET STRING
	0		

CDMA2000_TUNNELLING_PORT

TTCN-3 Port Type		
Name	CDMA2000_TUNNELLING_PORT	
Comment	EUTRA PTC: Port to deal with tunnelling of CDMA2000 messages	
out	CDMA2000_MSG_REQ	
in	CDMA2000 MSG IND	

D.11 EUTRA_ASP_VirtualNoiseDefs

ASP definitions for virtual noise generation in EUTRA cells.

The noise is configured for an already existing EUTRA cell.

For UEs with 2 antenna connectors the AWGN (Additive white Gaussian noise) signals applied to each receiver antenna connector shall be uncorrelated.

EUTRA_ASP_VirtualNoiseDefs: Basic Type Definitions

TTCN-3 Basic Types		
EUTRA_VngConfigConfir	Null_Type	
m_Type		

EUTRA_VngConfigInfo_Type

TTCN-3 Record	TTCN-3 Record Type		
Name	EUTRA_VngConfigInfo_Type		
Comment			
Bandwidth	DI_Bandwidth_Type	Bandwidth to be used for the noise (in general the same bandwidth as for the associated EUTRA cell)	
NocLevel	integer	Noc level; calculation is FFS	

EUTRA_VngConfigRequest_Type

TTCN-3 Union	TTCN-3 Union Type		
Name	EUTRA_VngConfigRequest_Type		
Comment		configure/activate noise for a given cell;	
	NOTE: it is assumed the associated	d EUTRA cell has been created beforehand	
Configure	EUTRA VngConfigInfo Type	configuration of the virtual noise generator; regardless of the power level the noise generator is off before it gets activated for this cell; whether the configuration can be changed during a test is FFS but if so the noise generator shall be deactivated for this cell	
Activate	Null Type	noise is activated (switched on) for the given cell acc. to the previous configuration; while being active the configuration shall not be modified	
Deactivate	Null Type	deactivate noise for given cell	

EUTRA_VNG_CTRL_REQ

TTCN-3 Recor	TTCN-3 Record Type			
Name	EUTRA_VNG_CTRL_REQ			
Comment				
Common	ReqAspCommonPart_Type	CellId: as for the associated EUTRA cell RoutingInfo: None TimingInfo: Now ControlInfo: CnfFlag:=true; FollowOnFlag:=false		
Request	EUTRA VngConfigRequest _Type			

EUTRA_VNG_CTRL_CNF

TTCN-3 Record	TTCN-3 Record Type			
Name	EUTRA_VNG_CTRL_CNF			
Comment				
Common	CnfAspCommonPart Type		TimingInfo is ignored by TTCN (apart from EnquireTiming) => SS may set TimingInfo to "None"	
Confirm	EUTRA_VngConfigConfirm Type			

EUTRA_VNG_PORT

TTCN-3 Port Type		
Name	EUTRA_VNG_PORT	
Comment	EUTRA PTC: Port for virtual noise generator	
out	EUTRA VNG CTRL REQ	
in	EUTRA VNG CTRL CNF	

D.12 UTRAN_ASP_VirtualNoiseDefs

ASP definitions for virtual noise generation in UTRAN cells.

The noise is configured for an already existing UTRAN cell.

NOTE: For the time being VNG is applicable for UTRAN FDD only as acc. to TS 36.304 clause 5.2.4.5 there is no quality based measurement for UTRAN TDD, GERAN or CDMA2000

UTRAN_ASP_VirtualNoiseDefs: Basic Type Definitions

TTCN-3 Basic Types		
UTRAN_VngConfigConfir	Null Type	
m_Type		

UTRAN_VngConfigInfo_Type

TTCN-3 Record Type			
Name	UTRAN_VngConfigInfo_Type		
Comment			
locLevel	integer	loc level; calculation is FFS	

UTRAN_VngConfigRequest_Type

TTCN-3 Union	TTCN-3 Union Type		
Name	UTRAN_VngConfigRequest_Typ	UTRAN_VngConfigRequest_Type	
Comment	configure/activate noise for a given cell; NOTE: it is assumed the associated UTRAN cell has been created beforehand		
Configure	UTRAN VngConfigInfo Type	configuration of the virtual noise generator; regardless of the power level the noise generator is off before it gets activated for this cell; whether the configuration can be changed during a test is FFS but if so the noise generator shall be deactivated for this cell	
Activate	Null Type	noise is activated (switched on) for the given cell acc. to the previous configuration; while being active the configuration shall not be modified	
Deactivate	Null_Type	deactivate noise for given cell	

UTRAN_VNG_CTRL_REQ

TTCN-3 Record	TTCN-3 Record Type			
Name	UTRAN_VNG_CTRL_REQ			
Comment				
CellId	integer		id of associated UTRAN cell	
Request	UTRAN_VngConfigRequest			
	<u>Type</u>			

UTRAN_VNG_CTRL_CNF

TTCN-3 Record	TTCN-3 Record Type			
Name	UTRAN_VNG_CTRL_CNF			
Comment				
CellId	integer	id of associated UTRAN cell		
Confirm	UTRAN VngConfigConfirm			
	<u>Type</u>			

UTRAN_VNG_PORT

TTCN-3 Port Type									
Name	UTRAN_VNG_PORT								
Comment	UTRAN PTC: Port for virtual noise generator								
out	UTRAN VNG CTRL REQ								
in	UTRAN VNG CTRL CNF								

D.13 CommonDefs

CommonDefs: Constant Definitions

TTCN-3 Basic Types								
tsc_UInt16Max	integer	65535						
tsc_UInt32Max	integer	4294967295						

CommonDefs: Basic Type Definitions

TTCN-3 Basic Types		
B1_Type	bitstring length(1)	
B2_Type	bitstring length(2)	
B3_Type	bitstring length(3)	
B4_Type	bitstring length(4)	
B5_Type	bitstring length(5)	
B6_Type	bitstring length(6)	
B7_Type	bitstring length(7)	
B7_15_Type	bitstring length(715)	NOTE: length restriction can only be a range but not two distinct lengths
B8_Type	bitstring length(8)	
B9_Type	bitstring length(9)	
B10_Type	bitstring length(10)	
B11_Type	bitstring length(11)	
B12_Type	bitstring length(12)	
B15_Type	bitstring length(15)	
B16_Type	bitstring length(16)	
B24_Type	bitstring length(24)	
B32_Type	bitstring length(32)	
B128_Type	bitstring length(128)	
B128_Key_Type	B128_Type	128 bit security key
O3_Type	octetstring length(3)	
O4_Type	octetstring length(4)	
O8_Type	octetstring length(8)	
O13_Type	octetstring length(13)	
Null_Type	boolean (true)	dummy type for 'typeless' fields in unions
Dummy_Type	boolean (true)	dummy type for temporary purposes only
UInt16_Type	integer (0 tsc UInt16Max)	
UInt32_Type	integer (0 tsc_UInt32Max)	
IP_DrbId_Type	integer	DRB identity type common for all RATs: - for EUTRA it corresponds to the ASN.1 type DRB-Identity - for UTRAN it corresponds to the ASN.1 type RB-Identity and values are as defined in TS 34.123-3 Table 8.2.4.1 - for GERAN the NSAPI value (type record NSAPI) may be used (FFS) NOTE: this is introduced to simplify the dependencies (i.e. to keep IP_ASP_TypeDefs independent from any RAT specific type definitions)

EUTRA_CellId_Type

TTCN-3 Enumerated 1	Гуре
Name	EUTRA_Cellid_Type
Comment	
eutra_Cell_NonSpecif	
ic	
eutra_Cell1	
eutra_Cell2	
eutra_Cell3	
eutra_Cell4	
eutra_Cell6	
eutra_Cell10	
eutra_Cell11	
eutra_Cell12	
eutra_Cell13	
eutra_Cell14	
eutra_Cell23	
eutra_Cell28	
eutra_Cell29	
eutra_Cell30	
eutra_Cell31	
eutra_CellA	
eutra_CellB	
eutra_CellC	
eutra_CellD	
eutra_CellE	
eutra_CellG	
eutra_CellH	
eutra_CellI	
eutra_CellJ	
eutra_CellK	
eutra_CellL	
eutra_CellM	

EUTRA_CellIdList_Type

TTCN-3 Record of Type									
Name	Name EUTRA_CellIdList_Type								
Comment									
record length (07) of	UTRA Cellid Type								

IP_EUTRA_DrbInfo_Type

TTCN-3 Record Type								
Name	IP_EUTRA_DrbInfo_Type							
Comment								
CellId	EUTRA CellId Type		data is routed to a specific cell regardless of whether the same					
			DRB is configured in any other cell					
Drbld	IP Drbld Type	opt	mandatory at the system interface					

IP_UTRAN_GERAN_DrbInfo_Type

TTCN-3 Record Type								
Name	IP_UTRAN_GERAN_DrbInfo_Type							
Comment								
CellId	integer							
Drbld	IP Drbld Type	opt	mandatory at the system interface					

IP_DrbInfo_Type

TTCN-3 Union	TTCN-3 Union Type									
Name	IP_DrbInfo_Type									
Comment										
Eutra	IP EUTRA DrbInfo Type									
Utran	IP UTRAN GERAN DrbInfo Typ									
	<u>e</u>									
Geran	IP_UTRAN_GERAN_DrbInfo_Typ									
	<u>e</u>									

D.14 References to TTCN-3

References to TTCN-3	References to TTCN-3										
EUTRA_ASP_TypeD	EUTRA_Defs/EUTRA_ASP_TypeDefs.ttcn	Rev 12722									
efs											
EUTRA_ASP_DrbDe	EUTRA_Defs/EUTRA_ASP_DrbDefs.ttcn	Rev 9461									
fs											
EUTRA_ASP_SrbDe	EUTRA_Defs/EUTRA_ASP_SrbDefs.ttcn	Rev 12660									
fs											
IP_ASP_TypeDefs	IP_PTC/IP_ASP_TypeDefs.ttcn	Rev 13238									
NasEmu_AspTypes	NasEmulation/NasEmu_AspTypes.ttcn	Rev 8395									
EUTRA_CommonDe	EUTRA_Defs/EUTRA_CommonDefs.ttcn	Rev 12841									
fs											
CDMA2000_ASP_Ty	C2K/CDMA2000_ASP_TypeDefs.ttcn	Rev 12722									
peDefs											
CDMA2000_Commo	C2K/CDMA2000_CommonDefs.ttcn	Rev 9022									
nDefs											
HRPD_MsgTypeDef	C2K/HRPD_MsgTypeDefs.ttcn	Rev 8886									
s											
EUTRA_ASP_CDMA	EUTRA_Defs/EUTRA_ASP_CDMA2000TunnellingDefs.ttcn	Rev 8820									
2000TunnellingDefs											
EUTRA_ASP_Virtual	EUTRA_Defs/EUTRA_ASP_VirtualNoiseDefs.ttcn	Rev 8395									
NoiseDefs											
UTRAN_ASP_Virtua	UTRAN/UTRAN_ASP_VirtualNoiseDefs.ttcn	Rev 10766									
INoiseDefs											
CommonDefs	Common/CommonDefs.ttcn	Rev 13047									

Annex E (informative): Change history

Date	TSG#	TSG Doc.	CR	Rev	Subject/Comment	Old	New
2008-05					Creation of draft TS		0.0.2
2008-08					Add test models	0.0.2	0.1.0
2008-10					Add ASPs and state model	0.1.1	0.3.0
2008-12					Add details of UL/DL scheduling and cell configurations	0.4.0	0.5.0
2009-02					Change naming conventions, add more design considerations	0.5.0	1.0.0
2009-03	RAN#43	RP-090271			Presentation for Information	1.0.0	1.0.2
2009-03					Add Upper tester interface	1.0.2	1.1.0
2009-04					Improved DL scheduling	1.1.0	1.2.0
2009-06					Add normative annex D for ASP definitions	1.2.0	1.3.0
2009-08					General update	1.3.0	1.4.0
2009-09					Style /format check from ETSI EditHelp	1.4.0	1.4.1
2009-09	RAN#45	RP-090753			Presentation of v2.0.0 for approval	1.4.1	2.0.0
2009-09					Updated to 8.0.0 with no change	2.0.0	8.0.0
2009-12	RAN#46	RP-091122	0001	-	LTE ASP clarifications and update	8.0.0	8.1.0
2009-12	RAN#46	RP-091119	0002	-	CR to 36.523-3: Add new e-mail agreed LTE TTCN test cases in	8.0.0	8.1.0
					the TC list of Annex A and update Annex D		
2009-12	RAN#46	R5s090180	0003	-	Resubmission of GCF WI 81 LTE RRC test case 8.1.2.1 on wk42 TTCN	8.0.0	8.1.0
2009-12	RAN#46	R5s090139	0004	-	Addition of GCF WI 81 LTE RRC test case 8.1.1.1	8.0.0	8.1.0
2009-12	RAN#46	R5s090144		-	Addition of GCF WI 81 LTE RRC test case 8.1.3.1	8.0.0	8.1.0
2009-12	RAN#46	R5s090163		-	Addition of GCF WI 82 EUTRA NAS test case 9.2.1.1.2	8.0.0	8.1.0
2009-12	RAN#46	R5s090141		-	Addition of GCF WI 81 LTE MAC test case 7.1.1.1	8.0.0	8.1.0
2009-12	RAN#46	R5s090160		-	Addition of GCF WI 81 EUTRA RLC test case 7.2.3.1	8.0.0	8.1.0
2009-12	RAN#46	R5s090156	0009	1-	Addition of GCF WI 81 EUTRA RLC test case 7.2.3.2	8.0.0	8.1.0
2009-12	RAN#46	R5s090154		-	Addition of GCF WI 82 EPC test case 9.2.2.2.1	8.0.0	8.1.0
2009-12	RAN#46	R5s090165	0011	-	Addition of GCF WI 81 EUTRA RLC test case 7.2.3.3	8.0.0	8.1.0
2009-12	RAN#46	R5s090171		-	Addition of GCF WI 81 EUTRA MAC test case 7.1.3.3	8.0.0	8.1.0
2009-12	RAN#46	R5s090176		-	Addition of GCF WI 82 EPC test case 9.3.2.1	8.0.0	8.1.0
2009-12	RAN#46	R5s090174		-	Addition of GCF WI 81 EUTRA MAC test case 7.1.3.7	8.0.0	8.1.0
2009-12	RAN#46	R5s090178		1-	Addition of GCF WI 81 EUTRA MAC test case 7.1.3.6	8.0.0	8.1.0
2009-12	RAN#46	R5s090198		1-	Addition of GCF WI 81 EUTRA PDCP test case 7.3.3.1	8.0.0	8.1.0
2009-12	RAN#46	R5s090204		1-	Addition of GCF WI 81 EUTRA PDCP test case 7.3.3.4	8.0.0	8.1.0
2009-12	RAN#46	R5s090202		1_	Addition of GCF WI 81 EUTRA PDCP test case 7.3.3.3	8.0.0	8.1.0
2009-12	RAN#46	R5s090200		1-	Addition of GCF WI 81 EUTRA PDCP test case 7.3.3.2	8.0.0	8.1.0
2009-12	RAN#46	R5s090196		-	Addition of GCF WI 81 EUTRA PDCP test case 7.3.4.2	8.0.0	8.1.0
2009-12	RAN#46	R5s090194		1_	Addition of GCF WI 81 EUTRA PDCP test case 7.3.4.1	8.0.0	8.1.0
2010-03	RAN#47	R5-100103		-	An additional option for IP address allocation in test cases using UE test mode		8.2.0
2010-03	RAN#47	R5-101049	0081	-	Add a new clause for postamble in a UTRA/GERAN cell	8.1.0	8.2.0
2010-03	RAN#47	R5-101050	0082	2	Routine maintenance of TS 36.523-3	8.1.0	8.2.0
2010-03	RAN#47	RP-100147	0022	1	CR to 36.523-3: Add new verified and e-mail agreed TTCN test cases in the TC lists in 36.523-3 (prose), Annex A	8.1.0	8.2.0
2010-03	RAN#47	R5s090209	0076	-	Addition of GCF WI 81 LTE Idle Mode test case 6.1.2.2 on wk42 TTCN	8.1.0	8.2.0
2010-03	RAN#47	R5s090210	0075	-	Addition of GCF WI 82 EPC test case 9.1.3.1	8.1.0	8.2.0
2010-03	RAN#47	R5s090212	0078	-	Addition of GCF WI 82 EPC test case 9.2.3.1.5	8.1.0	8.2.0
2010-03	RAN#47	R5s090214	0077	-	Addition of GCF WI 81 EUTRA MAC test case 7.1.4.15	8.1.0	8.2.0
2010-03	RAN#47	R5s090217	0072	-	Addition of GCF WI 81 EUTRA RLC test case 7.2.3.5	8.1.0	8.2.0
2010-03	RAN#47	R5s090219	0073	-	Addition of GCF WI 81 EUTRA RLC test case 7.2.3.17	8.1.0	8.2.0
2010-03	RAN#47	R5s090222	0074	-	Addition of GCF WI 81 EUTRA RLC test case 7.2.3.20	8.1.0	8.2.0
2010-03	RAN#47	R5s090306	0045	-	Addition of GCF WI 81 LTE RRC test case 8.5.4.1	8.1.0	8.2.0
2010-03	RAN#47	R5s090310	0038	†-	Addition of GCF WI-82 EPC test case 9.1.2.1	8.1.0	8.2.0

Date	TSG #	TSG Doc.	CR	Rev	Subject/Comment	Old	New
2010-03	RAN#47	R5s090314	0030	-	Addition of GCF WI 81 EUTRA RLC test case 7.2.2.1	8.1.0	8.2.0
2010-03	RAN#47	R5s090316	0049	-	Addition of GCF WI 81 EUTRA RLC test case 7.2.2.2	8.1.0	8.2.0
2010-03	RAN#47	R5s090318	0042	-	Addition of GCF WI 81 EUTRA RLC test case 7.2.2.3	8.1.0	8.2.0
2010-03	RAN#47	R5s090320	0041	-	Addition of GCF WI 81 EUTRA RLC test case 7.2.2.4	8.1.0	8.2.0
2010-03	RAN#47	R5s090322	0028	-	Correction to test step f_GetPDNAddress	8.1.0	8.2.0
2010-03	RAN#47	R5s090331	0024	-	Resubmission of GCF WI-81 LTE RRC test case 8.2.2.1 on ATS_wk47	8.1.0	8.2.0
2010-03	RAN#47	R5s090333	0025	-	Resubmission of GCF WI-81 LTE RRC test case 8.2.2.2 on ATS_wk47	8.1.0	8.2.0
2010-03	RAN#47	R5s090335	0023	-	Resubmission of GCF WI-81 LTE RRC test case 8.2.3.1 on ATS_wk47	8.1.0	8.2.0
2010-03	RAN#47	R5s090337	0027	-	Correction to EUTRA MAC test cases 7.1.3.3 and 7.1.3.7	8.1.0	8.2.0
2010-03	RAN#47	R5s090340	0040	-	Addition of GCF WI 81 EUTRA RLC test case 7.2.2.5.1	8.1.0	8.2.0
2010-03	RAN#47	R5s090342	0039	-	Addition of GCF WI 81 EUTRA RLC test case 7.2.2.5.2	8.1.0	8.2.0
2010-03	RAN#47	R5s090345	0043	-	Addition of GCF WI 81 EUTRA MAC test case 7.1.1.2	8.1.0	8.2.0
2010-03	RAN#47	R5s090347	0048	-	Addition of GCF WI 81 EUTRA MAC test case 7.1.2.2	8.1.0	8.2.0
2010-03	RAN#47	R5s090349	0033	-	Addition of GCF WI 81 EUTRA MAC test case 7.1.2.3	8.1.0	8.2.0
2010-03	RAN#47	R5s090351	0034	-	Addition of GCF WI 81 EUTRA MAC test case 7.1.2.4	8.1.0	8.2.0
2010-03	RAN#47	R5s090353	0035	-	Addition of GCF WI 81 EUTRA MAC test case 7.1.2.5	8.1.0	8.2.0
2010-03	RAN#47	R5s090355	0047	-	Addition of GCF WI 81 EUTRA MAC test case 7.1.2.7	8.1.0	8.2.0
2010-03	RAN#47	R5s090357	0032	-	Addition of GCF WI 81 EUTRA MAC test case 7.1.2.9	8.1.0	8.2.0
2010-03	RAN#47	R5s090359	0050	-	Addition of GCF WI 81 EUTRA MAC test case 7.1.4.4	8.1.0	8.2.0
2010-03	RAN#47	R5s090361	0026	-	Correction of GCF WI 81 EUTRA RLC test case 7.2.3.2	8.1.0	8.2.0
2010-03	RAN#47	R5s090362	0031	-	Addition of GCF WI 81 EUTRA MAC test case 7.1.4.13	8.1.0	8.2.0
2010-03	RAN#47	R5s090364	0054	-	Addition of GCF WI 81 EUTRA MAC test case 7.1.3.1	8.1.0	8.2.0
2010-03	RAN#47	R5s090366	0046	-	Addition of GCF WI 82 EPC test case 9.3.1.1	8.1.0	8.2.0
2010-03	RAN#47	R5s090368	0029	-	Addition of GCF WI 81 EUTRA MAC test case 7.1.4.5	8.1.0	8.2.0
2010-03	RAN#47	R5s090373	0037	-	TTCN corrections from LTE ATS_wk51 regression testing	8.1.0	8.2.0
2010-03	RAN#47	R5s090375	0056	-	Addition of GCF WI 81 EUTRA RLC test case 7.2.3.8	8.1.0	8.2.0
2010-03	RAN#47	R5s090377	0055	-	Addition of GCF WI 81 EUTRA MAC test case 7.1.4.6	8.1.0	8.2.0
2010-03	RAN#47	R5s090379	0036	-	Correction to EPC test case 9.2.3.1.5	8.1.0	8.2.0
2010-03	RAN#47	R5s100001	0044	-	Correction to EUTRA RLC test case 7.2.3.17	8.1.0	8.2.0
2010-03	RAN#47	R5s100002	0052	-	Addition of GCF WI 81 EUTRA RLC test case 7.2.3.14	8.1.0	8.2.0
2010-03	RAN#47	R5s100004	0059	-	Addition of GCF WI 81 EUTRA RLC test case 7.2.2.6	8.1.0	8.2.0
2010-03	RAN#47	R5s100006	0050	-	Addition of GCF WI 81 EUTRA RLC test case 7.2.2.7	8.1.0	8.2.0
2010-03	RAN#47	R5s100008	0056	-	Addition of GCF WI 82 LTE NAS test case 9.2.1.1.1	8.1.0	8.2.0
2010-03	RAN#47	R5s100012	0053	-	Addition of GCF WI 81 EUTRA PDCP test case 7.3.1.1	8.1.0	8.2.0
2010-03	RAN#47	R5s100014	0051	-	Addition of GCF WI 81 EUTRA RLC test case 7.2.2.9	8.1.0	8.2.0
	1	1		1	1		1

Date	TSG#	TSG Doc.	CR	Rev	Subject/Comment	Old	New
2010-03	RAN#47	R5s100016	0058	-	Addition of GCF WI 81 EUTRA RLC test case 7.1.4.1	8.1.0	8.2.0
2010-03	RAN#47	R5s100018	0053	-	Addition of GCF WI 81 EUTRA RLC test case 7.2.3.4	8.1.0	8.2.0
2010-03	RAN#47	R5s100020	0052	-	Summary of regression errors in wk51 LTE ATS	8.1.0	8.2.0
2010-03	RAN#47	R5s100021	0051	-	Addition of GCF WI 81 EUTRA MAC test case 7.1.3.4	8.1.0	8.2.0
2010-03	RAN#47	R5s100024	0054	-	Addition of GCF WI-082 EPC test case 13.1.1	8.1.0	8.2.0
2010-03	RAN#47	R5s100029	0057	-	Addition of GCF WI 81 EUTRA Idle Mode test case 6.1.2.4	8.1.0	8.2.0
2010-03	RAN#47	R5s100031	0058	-	Addition of GCF WI 81 EUTRA RLC test case 7.2.3.10	8.1.0	8.2.0
2010-03	RAN#47	R5s100039	0055	-	Addition of GCF WI 81 EUTRA RLC test case 7.2.3.18	8.1.0	8.2.0
2010-03	RAN#47	R5s100041	0057	-	Addition of GCF WI 81 EUTRA MAC test case 7.1.4.7	8.1.0	8.2.0
2010-03	RAN#47	R5s100043	0070	-	Addition of GCF WI 81 LTE MAC test case 7.1.4.10	8.1.0	8.2.0
2010-03	RAN#47	R5s100047	0071	-	Corrections of GCF WI 81 EUTRA RLC test cases 7.2.3.1, 7.2.3.4, and 7.2.3.5.	8.1.0	8.2.0
2010-03	RAN#47	R5s100049	0059	-	Regression CR for LTE wk03 ATS	8.1.0	8.2.0
2010-03	RAN#47	R5s100053	0079	-	Correction of GCF WI 81 EUTRA RLC test case 7.2.3.8	8.1.0	8.2.0
2010-03	RAN#47	R5s100054	0080	-	Addition of GCF WI 81 EUTRA RLC test case 7.2.3.15	8.1.0	8.2.0
2010-06	RAN#48	RP-100515	0084	-	CR to 36.523-3: Add new verified and e-mail agreed TTCN test cases in the TC lists in 36.523-3 (prose), Annex A	8.2.0	8.3.0
2010-06	RAN#48	R5-103845	0141	-	Specification of default UL grant type and exception TC list	8.2.0	8.3.0
2010-06	RAN#48	R5-103846	0142	-	Routine maintenance of TS 36.523-3	8.2.0	8.3.0
2010-06	RAN#48	R5-103847	0143	-	Align the postambles with the new specified UTRA test end states and UE attach implementation capabilities	8.2.0	8.3.0
2010-06	RAN#48	R5s100057	0085	-	Addition of GCF WI-081 RRC test case 8.2.1.1	8.2.0	8.3.0
2010-06	RAN#48	R5s100065	0086	-	Correction of GCF WI 81 EUTRA RLC test case 7.2.2.5.2	8.2.0	8.3.0
2010-06	RAN#48	R5s100068	0092	-	Regression CR for LTE wk07 ATS	8.2.0	8.3.0
2010-06	RAN#48	R5s100072	0091	-	Correction to EPC test case 9.2.2.2.1	8.2.0	8.3.0
2010-06	RAN#48	R5s100073	0090	-	Correction to LTE MAC test case 7.1.2.3 and 7.1.4.5	8.2.0	8.3.0
2010-06	RAN#48	R5s100074	0087	-	Addition of GCF WI 81 EUTRA MAC test case 7.1.3.5	8.2.0	8.3.0
2010-06	RAN#48	R5s100076	0089	-	Corrections to GCF WI-81 EUTRA RLC test cases 7.2.2.1, 7.2.2.3 and 7.2.2.5.1.	8.2.0	8.3.0
2010-06	RAN#48	R5s100077	0088	-	Correction to 'EUTRA_NASSteps.ttcn' module (here: APN IE)	8.2.0	8.3.0
2010-06	RAN#48	R5s100078	0113	-	Addition of GCF WI 81 EUTRA RLC test case 7.2.2.8	8.2.0	8.3.0
2010-06	RAN#48	R5s100080	0112	-	Addition of GCF WI 81 EUTRA NAS test case 7.2.3.16	8.2.0	8.3.0
2010-06	RAN#48	R5s100082	0109	-	Addition of GCF WI 81 EUTRA PDCP test case 7.3.1.2	8.2.0	8.3.0
2010-06	RAN#48	R5s100086	0108	-	Addition of GCF WI 82 EPC test case 9.1.2.4	8.2.0	8.3.0
2010-06	RAN#48	R5s100088	0107	-	Addition of GCF WI 82 EPC test case 9.1.2.5	8.2.0	8.3.0
2010-06	RAN#48	R5s100090	0106	-	Addition of GCF WI 82 EPC test case 9.2.3.1.8	8.2.0	8.3.0
2010-06	RAN#48	R5s100092	0110	-	Addition of GCF WI 82 EPC test case 9.1.4.2	8.2.0	8.3.0
2010-06	RAN#48	R5s100094	0105	-	Addition of GCF WI 82 EPC test case 9.3.1.7a	8.2.0	8.3.0
2010-06	RAN#48	R5s100096	0104	-	Addition of GCF WI 82 EPC test case 9.3.1.7	8.2.0	8.3.0

Date	TSG #	TSG Doc.	CR	Rev	Subject/Comment	Old	New
2010-06	RAN#48	R5s100098	0111	-	Addition of GCF WI 82 EPC test case 9.1.3.2	8.2.0	8.3.0
2010-06	RAN#48	R5s100100	0093	-	Addition of GCF WI 81 EUTRA RAB test case 12.2.1	8.2.0	8.3.0
2010-06	RAN#48	R5s100102	0103	-	Addition of GCF WI 81 EUTRA MAC test case 7.1.4.16	8.2.0	8.3.0
2010-06	RAN#48	R5s100104	0099	-	Addition of GCF WI 81 EUTRA RLC test case 7.2.2.10	8.2.0	8.3.0
2010-06	RAN#48	R5s100106	0102	-	Addition of GCF WI -081 test case 8.2.1.3	8.2.0	8.3.0
2010-06	RAN#48	R5s100109	0131	-	Addition of GCF WI-082 EUTRA EPS test case 9.4.1	8.2.0	8.3.0
2010-06	RAN#48	R5s100111	0101	-	Addition of GCF WI 82 EPC NAS test case 9.4.3	8.2.0	8.3.0
2010-06	RAN#48	R5s100113	0100	-	Addition of GCF WI 82 EPC test case 9.4.4	8.2.0	8.3.0
2010-06	RAN#48	R5s100116	0094	-	Regression CR for LTE wk11 ATS	8.2.0	8.3.0
2010-06	RAN#48	R5s100117	0098	-	Addition of GCF WI 82 EPC test case 9.4.2	8.2.0	8.3.0
2010-06	RAN#48	R5s100127	0097	-	Resubmission of GCF WI 82 EPC test case 9.1.2.3	8.2.0	8.3.0
2010-06	RAN#48	R5s100130	0095	-	Resubmission of GCF WI 81 EUTRA MAC test case 7.1.4.8	8.2.0	8.3.0
2010-06	RAN#48	R5s100132	0096	-	Addition of GCF WI 82 EPC test case 9.2.2.1.6	8.2.0	8.3.0
2010-06	RAN#48	R5s100135	0136	-	Baseline upgrade to December-09 Rel-8	8.2.0	8.3.0
2010-06	RAN#48	R5s100136	0130	-	Correction to the test step f_TestcaselsL2Testcase	8.2.0	8.3.0
2010-06	RAN#48	R5s100137	0129	-	Correction to PDCCH candidate selection based on channel bandwidth under test	8.2.0	8.3.0
2010-06	RAN#48	R5s100138	0127	-	Addition of GCF WI-081 MAC test case 7.1.2.1	8.2.0	8.3.0
2010-06	RAN#48	R5s100140	0128	-	Regression CR for LTE/SAE ATS_10wk11	8.2.0	8.3.0
2010-06	RAN#48	R5s100141	0125	-	Correction to GCF WI 81 EUTRA MAC test case 7.1.3.5	8.2.0	8.3.0
2010-06	RAN#48	R5s100142	0126	-	Correction to EUTRA RLC test case 7.2.3.10	8.2.0	8.3.0
2010-06	RAN#48	R5s100143	0118	-	Addition of GCF WI 81 EUTRA RLC test case 7.2.3.9	8.2.0	8.3.0
2010-06	RAN#48	R5s100145	0119	-	Addition of GCF WI 81 EUTRA RLC test case 7.2.3.13	8.2.0	8.3.0
2010-06	RAN#48	R5s100147	0122	-	Addition of GCF WI 81 EUTRA PDCP test case 7.3.6.1	8.2.0	8.3.0
2010-06	RAN#48	R5s100149	0120	-	Addition of GCF WI 81 EUTRA RRC test case 8.3.1.1	8.2.0	8.3.0
2010-06	RAN#48	R5s100151	0121	-	Addition of GCF WI 81 EUTRA RRC test case 8.5.1.5	8.2.0	8.3.0
2010-06	RAN#48	R5s100153	0123	-	Addition of GCF WI 82 EPC EMM test case 9.2.2.1.1	8.2.0	8.3.0
2010-06	RAN#48	R5s100155	0117	-	Addition of GCF WI 81 EUTRA MAC test case 7.1.7.1.1	8.2.0	8.3.0
2010-06	RAN#48	R5s100157	0116	-	Addition of GCF WI 81 EUTRA MAC test case 7.1.7.1.2	8.2.0	8.3.0
2010-06	RAN#48	R5s100159	0114	-	Addition of GCF WI 81 EUTRA MAC test case 7.1.7.1.3	8.2.0	8.3.0
2010-06	RAN#48	R5s100161	0115	-	Addition of GCF WI 81 EUTRA MAC test case 7.1.7.1.4	8.2.0	8.3.0
2010-06	RAN#48	R5s100163	0124	-	Correction to MME Group ID to set MSB to 1	8.2.0	8.3.0
2010-06	RAN#48	R5s100169	0132	-	Correction of GCF WI-082 EPC test cases 9.1.2.3, 9.1.2.4 and 9.1.2.5	8.2.0	8.3.0
2010-06	RAN#48	R5s100172	0133	-	Further regression CR for LTE/SAE 10wk11 ATS	8.2.0	8.3.0
2010-06	RAN#48	R5s100176	0135	-	Addition of GCF WI 81 EUTRA RRC test case 8.3.1.2	8.2.0	8.3.0
2010-06	RAN#48	R5s100178	0137	-	Addition of GCF WI 81 EUTRA RRC test case 8.2.4.3	8.2.0	8.3.0
2010-06	RAN#48	R5s100180	0138	-	Addition of GCF WI 81 EUTRA RLC test case 7.2.2.11	8.2.0	8.3.0

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2010-06	RAN#48	R5s100182	0139	-	Regression CR for LTE wk11 ATS	8.2.0	8.3.0
2010-06	RAN#48	R5s100183	0134	-	Corrections to EUTRA RLC and PDCP test cases	8.2.0	8.3.0
2010-09	RAN#49	R5-104796	0145	-	Routine maintenance of TS 36.523-3	8.3.0	8.4.0
2010-09	RAN#49	R5-104197	0144	-	Addition of MMI command 'DISABLE EPS CAPABILITY'	8.3.0	8.4.0
2010-09	RAN#49	RP-100826	0146	-	CR to 36.523-3: Add new verified and e-mail agreed TTCN test cases in the TC lists in 36.523-3 (prose), Annex A	8.3.0	8.4.0
2010-09	=	-	-	-	Updated the lists of approved test cases for FDD and LCR TDD in Annex A to align with TTCN.	8.3.0	8.4.0
2010-09	RAN#49	R5s100198	0175	-	LTE_TDD : Addition of GCF WI 91 EUTRA RRC test case 8.2.3.1	8.3.0	8.4.0
2010-09	RAN#49	R5s100302	0200	-	Regression CR for LTE/SAE iwd_10wk22 ATS	8.3.0	8.4.0
2010-09	RAN#49	R5s100268	0281	-	Addition of GCF WI 81 EUTRA MAC test case 7.1.6.1	8.3.0	8.4.0
2010-09	RAN#49	R5s100298	0206	-	Addition of GCF WI 81 EUTRA PDCP test case 7.3.5.3	8.3.0	8.4.0
2010-09	RAN#49	R5s100260	0187	-	LTE_TDD : Addition of GCF WI 91 EUTRA MAC test case 7.1.1.2	8.3.0	8.4.0
2010-09	RAN#49	R5s100300	0205	-	Correction to EPC test case 9.3.1.1	8.3.0	8.4.0
2010-09	RAN#49	R5s100226	0194	-	LTE_TDD: Addition of GCF WI 91 EUTRA RLC test case 7.2.3.5	8.3.0	8.4.0
2010-09	RAN#49	R5s100274	0155	-	Regression CR for LTE wk17 ATS	8.3.0	8.4.0
2010-09	RAN#49	R5s100249	0191	-	LTE_TDD: Addition of GCF WI 91 EUTRA RLC test case 7.2.2.1	8.3.0	8.4.0
2010-09	RAN#49	R5s100228	0163	-	LTE_TDD : Addition of GCF WI 91 EUTRA RLC test case 7.2.3.17	8.3.0	8.4.0
2010-09	RAN#49	R5s100293	0279	-	Addition of GCF WI 81 EUTRA DRB test case 12.2.2	8.3.0	8.4.0
2010-09	RAN#49	R5s100224	0195	-	LTE_TDD: Addition of GCF WI 81 EUTRA RLC test case 7.2.3.4	8.3.0	8.4.0
2010-09	RAN#49	R5s100270	0280	-	Addition of GCF WI 81 EUTRA MAC test case 7.1.6.2	8.3.0	8.4.0
2010-09	RAN#49	R5s100266	0152	-	Addition of GCF WI 81 EUTRA RLC test case 7.2.3.7	8.3.0	8.4.0
2010-09	RAN#49	R5s100295	0207	-	Addition of GCF WI 82 ESM test case 10.2.1	8.3.0	8.4.0
2010-09	RAN#49	R5s100210	0170	-	LTE_TDD : Addition of GCF WI 91 EUTRA MAC test case 7.1.2.7	8.3.0	8.4.0
2010-09	RAN#49	R5s100287	0182	-	Correction to TFT filter identifier and precedence values	8.3.0	8.4.0
2010-09	RAN#49	R5s100222	0164	-	LTE_TDD : Addition of GCF WI 91 EUTRA RLC test case 7.2.3.3	8.3.0	8.4.0
2010-09	RAN#49	R5s100214	0168	-	LTE_TDD : Addition of GCF WI 91 EUTRA RLC test case 7.2.2.3	8.3.0	8.4.0
2010-09	RAN#49	R5s100189	0150	-	Regression CR for LTE wk17 ATS	8.3.0	8.4.0
2010-09	RAN#49	R5s100220	0165	-	LTE_TDD : Addition of GCF WI 91 EUTRA RLC test case 7.2.3.2	8.3.0	8.4.0
2010-09	RAN#49	R5s100272	0157	-	Corrections to EUTRA MAC test case.	8.3.0	8.4.0
2010-09	RAN#49	R5s100187	0149	-	Addition of GCF WI 81 EUTRA RRC test case 8.3.1.5	8.3.0	8.4.0
2010-09	RAN#49	R5s100273	0156	-	Corrections to EUTRA RLC test case 7.2.2.6 and 7.2.2.10	8.3.0	8.4.0
2010-09	RAN#49	R5s100279	0181	-	Regression CR for LTE wk22 ATS	8.3.0	8.4.0
2010-09	RAN#49	R5s100208	0171	-	LTE_TDD : Addition of GCF WI 91 EUTRA MAC test case 7.1.2.5	8.3.0	8.4.0
2010-09	RAN#49	R5s100256	0154	-	Addition of GCF WI 81 EUTRA RLC test case 7.2.3.21	8.3.0	8.4.0
2010-09	RAN#49	R5s100283	0184	-	Addition of GCF WI 81 EUTRA PDCP test case 7.3.1.3	8.3.0	8.4.0
2010-09	RAN#49	R5s100291	0180	-	Addition of GCF WI 81 EUTRA MAC test case 7.1.2.6	8.3.0	8.4.0
2010-09	RAN#49	R5s100301	0204	-	Correction to EUTRA test case 7.1.4.6	8.3.0	8.4.0
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2010-09	RAN#49	R5s100196	0176	-	LTE_TDD: Addition of GCF WI 91 EUTRA RRC test case 8.2.2.2	8.3.0	8.4.0
2010-09	RAN#49	R5s100258	0188	-	LTE_TDD: Addition of GCF WI 91 EUTRA RLC test case 7.2.3.1	8.3.0	8.4.0
2010-09	RAN#49	R5s100234	0160	-	LTE_TDD : Addition of GCF WI 91 EUTRA PDCP test case 7.3.3.3	8.3.0	8.4.0
2010-09	RAN#49	R5s100303	0217	-	Addition of GCF WI 81 EUTRA MAC test case 7.1.7.2.1	8.3.0	8.4.0
2010-09	RAN#49	R5s100285	0220	-	LTE_TDD : Addition of GCF WI 92 EUTRA Multi layer test case 13.1.1	8.3.0	8.4.0
2010-09	RAN#49	R5s100247	0192	-	LTE_TDD: Addition of GCF WI 81 EUTRA PDCP test case 7.3.3.4	8.3.0	8.4.0
2010-09	RAN#49	R5s100238	0158	-	LTE_TDD : Addition of GCF WI 91 EUTRA PDCP test case 7.3.4.2	8.3.0	8.4.0
2010-09	RAN#49	R5s100240	0148	-	Addition of GCF WI 81 EUTRA RRC test case 8.2.4.2	8.3.0	8.4.0
2010-09	RAN#49	R5s100236	0159	-	LTE_TDD : Addition of GCF WI 91 EUTRA PDCP test case 7.3.4.1	8.3.0	8.4.0
2010-09	RAN#49	R5s100262	0186	-	LTE_TDD : Addition of GCF WI 91 EUTRA MAC test case 7.1.3.5	8.3.0	8.4.0
2010-09	RAN#49	R5s100305	0203	-	Addition of GCF WI 81 EUTRA PDCP test case 7.3.5.2	8.3.0	8.4.0
2010-09	RAN#49	R5s100216	0167	-	LTE_TDD : Addition of GCF WI 91 EUTRA RLC test case 7.2.2.4	8.3.0	8.4.0
2010-09	RAN#49	R5s100218	0166	-	LTE_TDD : Addition of GCF WI 91 EUTRA RLC test case 7.2.2.9	8.3.0	8.4.0
2010-09	RAN#49	R5s100264	0153	-	Addition of GCF WI 81 EUTRA RLC test case 7.2.3.6	8.3.0	8.4.0
2010-09	RAN#49	R5s100281	0185	-	Addition of GCF WI 81 EUTRA Idle Mode test case 6.1.2.3	8.3.0	8.4.0
2010-09	RAN#49	R5s100194	0177	-	LTE_TDD: Addition of GCF WI 91 EUTRA RRC test case 8.2.2.1	8.3.0	8.4.0
2010-09	RAN#49	R5s100190	0179	-	LTE_TDD : Addition of GCF WI 91 EUTRA RRC test case 8.1.1.1	8.3.0	8.4.0
2010-09	RAN#49	R5s100202	0173	-	LTE_TDD : Addition of GCF WI 91 EUTRA MAC test case 7.1.1.1	8.3.0	8.4.0
2010-09	RAN#49	R5s100204	0172	-	LTE_TDD : Addition of GCF WI 91 EUTRA MAC test case 7.1.2.2	8.3.0	8.4.0
2010-09	RAN#49	R5s100253	0189	-	LTE_TDD: Addition of GCF WI 91 EUTRA RRC test case 8.1.3.1	8.3.0	8.4.0
2010-09	RAN#49	R5s100251	0190	-	LTE_TDD: Addition of GCF WI 91 EUTRA RLC test case 7.2.2.2	8.3.0	8.4.0
2010-09	RAN#49	R5s100245	0193	-	LTE_TDD: Addition of GCF WI 91 EUTRA PDCP test case 7.3.3.2	8.3.0	8.4.0
2010-09	RAN#49	R5s100200	0174	-	LTE_TDD : Addition of GCF WI 81 EUTRA RRC test case 8.5.4.1	8.3.0	8.4.0
2010-09	RAN#49	R5s100288	0183	-	Addition of GCF WI 82 EPC Multi-layer test case 13.2.1	8.3.0	8.4.0
2010-09	RAN#49	R5s100192	0178	-	LTE_TDD : Addition of GCF WI 91 EUTRA RRC test case 8.1.2.1	8.3.0	8.4.0
2010-09	RAN#49	R5s100230	0162	-	LTE_TDD : Addition of GCF WI 91 EUTRA RLC test case 7.2.3.20	8.3.0	8.4.0
2010-09	RAN#49	R5s100242	0147	-	Addition of GCF WI 81 EUTRA RRC test case 8.2.4.5	8.3.0	8.4.0
2010-09	RAN#49	R5s100307	0202	-	Addition of GCF WI 81 EUTRA PDCP test case 7.3.5.4	8.3.0	8.4.0
2010-09	RAN#49	R5s100309	0201	-	Addition of GCF WI 81 EUTRA PDCP test case 7.3.5.5	8.3.0	8.4.0
2010-09	RAN#49	R5s100311	0197	-	Addition of GCF WI-081 EUTRA RRC test case 8.1.2.5	8.3.0	8.4.0
2010-09	RAN#49	R5s100313	0199	-	Addition of GCF WI 82 ESM test case 10.5.1	8.3.0	8.4.0
2010-09	RAN#49	R5s100317	0198	-	Addition of GCF WI 81 EUTRA RRC test case 8.1.2.7	8.3.0	8.4.0
2010-09	RAN#49	R5s100319	0196	-	Addition of GCF WI 81 EUTRA RRC test case 8.5.1.3	8.3.0	8.4.0
2010-09	RAN#49	R5s100321	0219	-	Correction to EUTRA MAC 7.1.7.1.x test cases	8.3.0	8.4.0
2010-09	RAN#49	R5s100322	0218	-	Addition of GCF WI 82 EPC test case 9.2.1.1.20	8.3.0	8.4.0
2010-09	RAN#49	R5s100324	0216	-	Addition of GCF WI 81 EUTRA RRC test case 8.5.1.1	8.3.0	8.4.0
2010-09	RAN#49	R5s100326	0215	_	Addition of GCF WI 82 EPC test case 10.6.1	8.3.0	8.4.0

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2010-09	RAN#49	R5s100329	0211	-	LTE_TDD: Addition of GCF WI 91 EUTRA MAC test case 7.1.2.3	8.3.0	8.4.0
2010-09	RAN#49	R5s100331	0210	-	LTE_TDD: Addition of GCF WI 91 EUTRA MAC test case 7.1.2.9	8.3.0	8.4.0
2010-09	RAN#49	R5s100333	0209	-	LTE_TDD: Addition of GCF WI 91 EUTRA MAC test case 7.1.4.1	8.3.0	8.4.0
2010-09	RAN#49	R5s100335	0244	-	LTE_TDD: Addition of GCF WI 91 EUTRA MAC test case 7.1.7.1.2	8.3.0	8.4.0
2010-09	RAN#49	R5s100337	0243	-	LTE_TDD: Addition of GCF WI 91 EUTRA MAC test case 7.1.7.1.4	8.3.0	8.4.0
2010-09	RAN#49	R5s100339	0208	-	LTE_TDD: Addition of GCF WI 91 EUTRA RLC-UM test case 7.2.2.5.1	8.3.0	8.4.0
2010-09	RAN#49	R5s100341	0212	-	LTE_TDD: Addition of GCF WI 91 EUTRA RLC-UM test case 7.2.2.6	8.3.0	8.4.0
2010-09	RAN#49	R5s100343	0213	-	LTE_TDD: Addition of GCF WI 91 EUTRA RLC test case 7.2.2.7	8.3.0	8.4.0
2010-09	RAN#49	R5s100345	0242	-	LTE_TDD: Addition of GCF WI 91 EUTRA DRB test case 12.2.1	8.3.0	8.4.0
2010-09	RAN#49	R5s100347	0214	-	Correction of GCF WI-081 E-UTRA PDCP test case 7.3.6.1	8.3.0	8.4.0
2010-09	RAN#49	R5s100348	0221	-	Addition of GCF WI-081 E-UTRA RRC test case 8.1.3.4	8.3.0	8.4.0
2010-09	RAN#49	R5s100350	0264	-	Addition of GCF WI-082 EMM test case 9.2.1.1.9	8.3.0	8.4.0
2010-09	RAN#49	R5s100184	0151	-	TTCN Correction to 36.523-3 LTE/SAE NAS definition of LAIList	8.3.0	8.4.0
2010-09	RAN#49	R5s100232	0161	-	LTE_TDD : Addition of GCF WI 91 EUTRA PDCP test case 7.3.3.1	8.3.0	8.4.0
2010-09	RAN#49	R5s100352	0263	-	Addition of GCF WI-082 EMM test case 9.2.1.1.10	8.3.0	8.4.0
2010-09	RAN#49	R5s100354	0233	-	Corrections to EUTRA MAC test case 7.1.3.1	8.3.0	8.4.0
2010-09	RAN#49	R5s100356	0232	-	Corrections to EUTRA Idle Mode Testcases 6.1.2.3	8.3.0	8.4.0
2010-09	RAN#49	R5s100358	0241	-	Addition of GCF WI 82 EPC test case 9.2.1.1.14	8.3.0	8.4.0
2010-09	RAN#49	R5s100360	0286	-	Addition of GCF WI 82 ESM test case 10.3.1	8.3.0	8.4.0
2010-09	RAN#49	R5s100362	0285	-	Addition of GCF WI 82 ESM test case 10.7.1	8.3.0	8.4.0
2010-09	RAN#49	R5s100364	0293	-	Addition of GCF WI 82 ESM test case 10.7.2	8.3.0	8.4.0
2010-09	RAN#49	R5s100366	0240	-	LTE_TDD: Addition of GCF WI 91 EUTRA MAC test case 7.1.3.1	8.3.0	8.4.0
2010-09	RAN#49	R5s100368	0239	-	LTE_TDD: Addition of GCF WI 91 EUTRA MAC test case 7.1.3.3	8.3.0	8.4.0
2010-09	RAN#49	R5s100370	0238	-	LTE_TDD: Addition of GCF WI 91 EUTRA MAC test case 7.1.3.4	8.3.0	8.4.0
2010-09	RAN#49	R5s100372	0237	-	LTE_TDD: Addition of GCF WI 91 EUTRA MAC test case 7.1.3.6	8.3.0	8.4.0
2010-09	RAN#49	R5s100374	0236	-	LTE_TDD: Addition of GCF WI 91 EUTRA MAC test case 7.1.3.7	8.3.0	8.4.0
2010-09	RAN#49	R5s100376	0235	-	LTE_TDD: Addition of GCF WI 91 EUTRA MAC test case 7.1.4.4	8.3.0	8.4.0
2010-09	RAN#49	R5s100378	0234	-	LTE_TDD: Addition of GCF WI 91 EUTRA MAC test case 7.1.4.13	8.3.0	8.4.0
2010-09	RAN#49	R5s100380	0231	-	Corrections to EUTRA EMM Testcases 9.2.1.1.20	8.3.0	8.4.0
2010-09	RAN#49	R5s100381	0227	-	LTE_TDD: Addition of GCF WI 91 EUTRA MAC test case 7.1.2.6	8.3.0	8.4.0
2010-09	RAN#49	R5s100383	0226	-	LTE_TDD: Addition of GCF WI 91 EUTRA RLC test case 7.2.3.18	8.3.0	8.4.0
2010-09	RAN#49	R5s100385	0230	-	Correction to EUTRA DRB test cases 12.2.1, 12.2.2, 12.2.3, 12.2.4	8.3.0	8.4.0
2010-09	RAN#49	R5s100386	0229	-	Correction to GCF WI-081 EUTRA RLC Testcase 7.2.3.10	8.3.0	8.4.0
2010-09	RAN#49	R5s100387	0228	-	Correction to GCF WI-081 EUTRA RLC Testcase 7.2.3.16	8.3.0	8.4.0
2010-09	RAN#49	R5s100388	0224	-	LTE_TDD: Addition of GCF WI 91 EUTRA RLC test case 7.2.2.5.2	8.3.0	8.4.0
2010-09	RAN#49	R5s100390	0223	-	LTE_TDD: Addition of GCF WI 91 EUTRA RRC test case 8.2.1.1	8.3.0	8.4.0
2010-09	RAN#49	R5s100392	0225	-	Correction to the function fl_EUTRA_InitPhysicalCellId	8.3.0	8.4.0

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2010-09	RAN#49	R5s100394	0222	-	Addition of GCF WI 82 EPC test case 9.2.3.1.2	8.3.0	8.4.0
2010-09	RAN#49	R5s100398	0262	-	Regression CR for LTE wk26 ATS	8.3.0	8.4.0
2010-09	RAN#49	R5s100400	0300	-	LTE_TDD: Addition of GCF WI 91 EUTRA Idle Mode test case	8.3.0	8.4.0
2010-09	RAN#49	R5s100402	0299	-	6.1.2.2 LTE_TDD: Addition of GCF WI 91 EUTRA PDCP test case 7.3.1.1	8.3.0	8.4.0
2010-09	RAN#49	R5s100405	0253	-	LTE_TDD:Corrections to EUTRA RLC test cases regarding	8.3.0	8.4.0
2010-09	RAN#49	R5s100406	0261	-	subframe offset calculation for TDD LTE_TDD: Addition of GCF WI 91 EUTRA RLC AM test case	8.3.0	8.4.0
2010-09	RAN#49	R5s100212	0169	-	7.2.3.6 LTE_TDD : Addition of GCF WI 91 EUTRA MAC test case 7.1.4.15	8.3.0	8.4.0
2010-09	RAN#49	R5s100408	0260	-	LTE_TDD: Addition of GCF WI 91 EUTRA RLC AM test case	8.3.0	8.4.0
2010-09	RAN#49	R5s100412	0259	-	7.2.3.7 LTE_TDD: Addition of GCF WI 91 EUTRA RLC AM test case	8.3.0	8.4.0
2010-09	RAN#49	R5s100414	0258	-	7.2.3.8 LTE_TDD: Addition of GCF WI 91 EUTRA RLC AM test case	8.3.0	8.4.0
2010-09	RAN#49	R5s100416	0257	-	7.2.3.9 LTE_TDD: Addition of GCF WI 91 EUTRA RLC AM test case	8.3.0	8.4.0
2010-09	RAN#49	R5s100418	0256	-	7.2.3.14 LTE_TDD: Addition of GCF WI 91 EUTRA RLC AM test case	8.3.0	8.4.0
2010-09	RAN#49	R5s100420	0278	-	7.2.3.15 LTE_TDD: Addition of GCF WI 91 EUTRA MAC test case 7.1.4.8	8.3.0	8.4.0
2010-09	RAN#49	R5s100422	0277	-	LTE_TDD: Addition of GCF WI 91 EUTRA MAC test case 7.1.7.1.1	8.3.0	8.4.0
2010-09	RAN#49	R5s100424	0275	-	LTE_TDD: Addition of GCF WI 91 EUTRA RLC UM test case	8.3.0	8.4.0
2010-09	RAN#49	R5s100426	0274	-	7.2.2.8 LTE_TDD: Addition of GCF WI 91 EUTRA RLC AM test case	8.3.0	8.4.0
2010-09	RAN#49	R5s100430	0289	-	7.2.3.13 LTE_TDD: Addition of GCF WI 91 EUTRA RLC AM test case	8.3.0	8.4.0
2010-09	RAN#49	R5s100432	0273	-	7.2.3.21 LTE_TDD: Addition of GCF WI 91 EUTRA PDCP test case 7.3.1.2	8.3.0	8.4.0
2010-09	RAN#49	R5s100434	0272	-	LTE_TDD: Addition of GCF WI 91 EUTRA PDCP test case 7.3.6.1	8.3.0	8.4.0
2010-09	RAN#49	R5s100436	0271	-	LTE_TDD: Addition of GCF WI 91 EUTRA RRC test case 8.2.1.3	8.3.0	8.4.0
2010-09	RAN#49	R5s100438	0270	-	LTE_TDD: Addition of GCF WI 91 EUTRA RRC test case 8.3.1.1	8.3.0	8.4.0
2010-09	RAN#49	R5s100440	0269	-	LTE_TDD: Addition of GCF WI 91 EUTRA RRC test case 8.3.1.2	8.3.0	8.4.0
2010-09	RAN#49	R5s100442	0268	-	LTE_TDD: Addition of GCF WI 91 EUTRA RRC test case 8.5.1.5	8.3.0	8.4.0
2010-09	RAN#49	R5s100444	0267	-	LTE_TDD: Addition of GCF WI 91 EUTRA DRB test case 12.2.2	8.3.0	8.4.0
2010-09	RAN#49	R5s100446	0276	-	LTE_TDD: Addition of GCF WI 91 EUTRA MAC test case 7.1.7.2.1	8.3.0	8.4.0
2010-09	RAN#49	R5s100457	0255	-	Correction of GCF WI-081 E-UTRA MAC test case 7.1.2.4	8.3.0	8.4.0
2010-09	RAN#49	R5s100458	0254	-	Correction of GCF WI-081 E-UTRA MAC test case 7.1.2.7	8.3.0	8.4.0
2010-09	RAN#49	R5s100459	0250	-	Corrections to GCF WI-081EUTRA RRC Testcase 8.5.1.1	8.3.0	8.4.0
2010-09	RAN#49	R5s100461	0249	-	Corrections to GCF WI-082 EUTRA ESM Testcase 10.6.1	8.3.0	8.4.0
2010-09	RAN#49	R5s100462	0252	-	Correction of GCF WI-081 E-UTRA MAC test case 7.1.3.1	8.3.0	8.4.0
2010-09	RAN#49	R5s100463	0251	-	Correction of GCF WI-081 E-UTRA MAC test case 7.1.3.4	8.3.0	8.4.0
2010-09	RAN#49	R5s100464	0288	-	Addition of GCF WI 82 ESM test case 10.4.1	8.3.0	8.4.0
2010-09	RAN#49	R5s100466	0247	-	Regression CR for LTE wk26 ATS	8.3.0	8.4.0
2010-09	RAN#49	R5s100468	0248	-	Corrections to GCF WI-081EUTRA RLC Testcase 7.2.3.4	8.3.0	8.4.0
2010-09	RAN#49	R5s100469	0265	-	Corrections to GCF WI-081EUTRA DRB Testcase 12.2.1 and	8.3.0	8.4.0
2010-09	RAN#49	R5s100472	0287	-	12.2.2 LTE_TDD: Addition of GCF WI 91 EUTRA RLC test case 7.2.2.11	8.3.0	8.4.0
2010-09	RAN#49	R5s100475	0266	-	Addition of GCF WI 81 EUTRA Idle Mode test case 6.1.2.6	8.3.0	8.4.0

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2010-09	RAN#49	R5s100477	0298	-	Addition of GCF WI-081 E-UTRA RRC test case 8.2.4.6	8.3.0	8.4.0
2010-09	RAN#49	R5s100479	0246	-	Corrections to GCF WI-082 EUTRA ESM Testcase 10.6.1	8.3.0	8.4.0
2010-09	RAN#49	R5s100485	0245	-	Regression CR for LTE/SAE 10wk26 ATS [Revision of	8.3.0	8.4.0
2010-09	RAN#49	R5s100487	0284	-	R5s100485] Addition of GCF WI 82 EMM test case 9.2.3.1.1	8.3.0	8.4.0
2010-09	RAN#49	R5s100489	0283	-	LTE_TDD: Addition of GCF WI 91 EUTRA PDCP test case 7.3.1.3	8.3.0	8.4.0
2010-09	RAN#49	R5s100491	0282	-	Addition of GCF WI-081 E-UTRA RRC test case 8.3.1.8	8.3.0	8.4.0
2010-09	RAN#49	R5s100495	0290	-	Addition of GCF WI-081 E-UTRA RRC test case 8.3.1.3	8.3.0	8.4.0
2010-09	RAN#49	R5s100496	0292	-	Addition of GCF WI 81 EUTRA RRC test case 8.2.4.1	8.3.0	8.4.0
2010-09	RAN#49	R5s100498	0291	-	Addition of GCF WI 81 EUTRA RRC test case 8.2.4.7	8.3.0	8.4.0
2010-09	RAN#49	R5s100500	0297	-	Addition of GCF WI 81 EUTRA IDLE MODE test case 6.1.2.8	8.3.0	8.4.0
2010-09	RAN#49	R5s100503	0295	-	Addition of GCF WI-081 E-UTRA Idle Mode test case 6.1.2.11	8.3.0	8.4.0
2010-09	RAN#49	R5s100505	0294	-	Addition of GCF WI-081 E-UTRA Idle Mode test case 6.1.2.15	8.3.0	8.4.0
2010-09	RAN#49	R5s100507	0296	-	Addition of GCF WI 81 EUTRA IDLE MODE test case 6.1.2.9	8.3.0	8.4.0
2010-12	RAN#50	R5-106578	0301	-	Clarification on cell power change time	8.4.0	8.5.0
2010-12	RAN#50	R5-106675	0302	-	LTE test model updates	8.4.0	8.5.0
2010-12	RAN#50	RP-101151	0303	-	CR to 36.523-3: Add new verified and e-mail agreed TTCN test cases in the TC lists in 36.523-3 (prose), Annex A	8.4.0	8.5.0
2010-12	RAN#50	R5s100399	0307	-	Corrections to EUTRA RLC test case 7.2.3.2, 7.2.3.5, 7.2.3.18, 7.2.3.10	8.4.0	8.5.0
2010-12	RAN#50	R5s100448	0381	-	LTE_TDD: Addition of GCF WI 91 EUTRA Idle Mode test case	8.4.0	8.5.0
2010-12	RAN#50	R5s100450	0380	-	6.1.2.4 LTE_TDD: Addition of GCF WI 91 EUTRA MAC test case 7.1.2.1	8.4.0	8.5.0
2010-12	RAN#50	R5s100454	0379	-	LTE_TDD: Addition of GCF WI 92 EUTRA Multi-layer test case	8.4.0	8.5.0
2010-12	RAN#50	R5s100470	0305	-	Addition of GCF WI 82 ESM test case 10.8.1	8.4.0	8.5.0
2010-12	RAN#50	R5s100473	0309	-	Addition of GCF WI 81 EUTRA MAC test case 7.1.4.3	8.4.0	8.5.0
2010-12	RAN#50	R5s100493	0306	-	Addition of GCF WI-081 E-UTRA RRC test case 8.3.1.9	8.4.0	8.5.0
2010-12	RAN#50	R5s100513	0304	-	LTE_TDD: Correction to f_EUTRA_SS_ConfigureActiveCell to	8.4.0	8.5.0
2010-12	RAN#50	R5s100515	0320	-	configure Tcell and sfn offset Correction to GCF WI-081 E-UTRA RRC test case 8.2.4.5	8.4.0	8.5.0
2010-12	RAN#50	R5s100516	0319	-	Addition of GCF WI 81 EUTRA RRC test case 8.3.1.10	8.4.0	8.5.0
2010-12	RAN#50	R5s100520	0318	-	Regression CR for LTE wk33 ATS	8.4.0	8.5.0
2010-12	RAN#50	R5s100522	0308	-	Addition of GCF WI 81 EUTRA MAC test case 7.1.4.11	8.4.0	8.5.0
2010-12	RAN#50	R5s100524	0316	-	Correction to GCF WI-081 E-UTRA RRC test cases 8.2.4.x	8.4.0	8.5.0
2010-12	RAN#50	R5s100525	0317	-	Addition of GCF WI 81 EUTRA MAC test case 7.1.2.8	8.4.0	8.5.0
2010-12	RAN#50	R5s100527	0315	-	Addition of GCF WI 81 EUTRA Idle Mode test case 6.1.2.7	8.4.0	8.5.0
2010-12	RAN#50	R5s100529	0314	-	Addition of GCF WI 81 EUTRA MAC test case 7.1.4.12	8.4.0	8.5.0
2010-12	RAN#50	R5s100531	0310	-	Correction of GCF WI-081 E-UTRA RLC test case 7.2.3.9	8.4.0	8.5.0
2010-12	RAN#50	R5s100532	0325	-	Corrections to GCF WI-081EUTRA MAC Testcase 7.1.1.1	8.4.0	8.5.0
2010-12	RAN#50	R5s100533	0313	-	Corrections to GCF WI-081 EUTRA MAC Testcase 7.1.4.10	8.4.0	8.5.0
2010-12	RAN#50	R5s100535	0312	-	Corrections to Usage of Float Values in LTE TTCN ATS	8.4.0	8.5.0
2010-12	RAN#50	R5s100536	0311	-	Correction to GCF WI-082 E_UTRA EMM test case 9.2.3.1.5	8.4.0	8.5.0

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2010-12	RAN#50	R5s100538	0321	-	Regression CR for LTE wk37 ATS	8.4.0	8.5.0
2010-12	RAN#50	R5s100539	0324	-	Correction to GCF WI-081 E-UTRA RRC test cases 8.1.2.7	8.4.0	8.5.0
2010-12	RAN#50	R5s100541	0323	-	Addition of GCF WI 81 EUTRA RRC test case 8.1.3.5	8.4.0	8.5.0
2010-12	RAN#50	R5s100545	0322	-	Addition of GCF WI 82 EMM test case 9.2.1.1.1a	8.4.0	8.5.0
2010-12	RAN#50	R5s100548	0328	-	Correction of GCF WI-081 EUTRA RRC test case 8.2.4.6	8.4.0	8.5.0
2010-12	RAN#50	R5s100549	0327	-	Correction of GCF WI-082 EPC test case 10.7.2	8.4.0	8.5.0
2010-12	RAN#50	R5s100550	0326	-	Correction of GCF WI-082 EPC test case 10.3.1	8.4.0	8.5.0
2010-12	RAN#50	R5s100555	0338	-	Correction to GCF WI-082 EMM test case 9.2.3.1.8	8.4.0	8.5.0
2010-12	RAN#50	R5s100556	0329	-	Regression TTCN CR for IWD D10_wk37 ATS	8.4.0	8.5.0
2010-12	RAN#50	R5s100557	0337	-	Correction to AT commands used in LTE ATS	8.4.0	8.5.0
2010-12	RAN#50	R5s100558	0336	-	Correction of GCF WI-081 EUTRA MAC test case 7.1.4.16	8.4.0	8.5.0
2010-12	RAN#50	R5s100559	0335	-	Correction to L2 test cases to allow HARQ retransmissions	8.4.0	8.5.0
2010-12	RAN#50	R5s100560	0334	-	Correction to GCF WI-081 EUTRA PDCP test cases 7.3.5.x	8.4.0	8.5.0
2010-12	RAN#50	R5s100561	0333	-	Correction to GCF WI-081 EUTRA RRC test case 8.2.4.5	8.4.0	8.5.0
2010-12	RAN#50	R5s100562	0332	-	Correction to GCF WI-081 EUTRA PDCP test case 7.3.5.4	8.4.0	8.5.0
2010-12	RAN#50	R5s100563	0330	-	Correction to GCF WI-081 EUTRA MAC test case 7.1.3.7	8.4.0	8.5.0
2010-12	RAN#50	R5s100564	0331	-	Correction to GCF WI-081 EUTRA RRC test case 8.5.1.1	8.4.0	8.5.0
2010-12	RAN#50	R5s100566	0341	-	Correction to GCF WI-081 EUTRA RLC test case 7.2.3.14	8.4.0	8.5.0
2010-12	RAN#50	R5s100571	0386	-	Correction of GCF WI-081 E-UTRA MAC test case 7.1.4.5	8.4.0	8.5.0
2010-12	RAN#50	R5s100572	0340	-	Correction of GCF WI-081 E-UTRA MAC test case 7.1.2.3	8.4.0	8.5.0
2010-12	RAN#50	R5s100573	0347	-	Correction to GCF WI-081 EUTRA RRC Testcase 8.2.4.3	8.4.0	8.5.0
2010-12	RAN#50	R5s100576	0339	-	Correction to GCF WI-081 EUTRA RRC Testcase 8.2.4.1	8.4.0	8.5.0
2010-12	RAN#50	R5s100579	0343	-	Correction to GCF WI-081 EUTRA PDCP test case 7.3.5.5	8.4.0	8.5.0
2010-12	RAN#50	R5s100580	0342	-	Correction to GCF WI-081 EUTRA RRC Testcase 8.3.1.10	8.4.0	8.5.0
2010-12	RAN#50	R5s100582	0352	-	Addition of GCF WI 82 EMM test case 9.2.1.1.15	8.4.0	8.5.0
2010-12	RAN#50	R5s100584	0351	-	Addition of GCF WI 82 EMM test case 9.2.1.1.17	8.4.0	8.5.0
2010-12	RAN#50	R5s100586	0385	-	Addition of GCF WI 82 EMM SMS test case 11.1.1	8.4.0	8.5.0
2010-12	RAN#50	R5s100588	0384	-	Addition of GCF WI 82 EMM SMS test case 11.1.2	8.4.0	8.5.0
2010-12	RAN#50	R5s100590	0350	-	Addition of GCF WI 81 EUTRA test case 6.1.2.5	8.4.0	8.5.0
2010-12	RAN#50	R5s100592	0349	-	Correction to GCF WI-081 EUTRA MAC Testcase 7.1.3.6	8.4.0	8.5.0
2010-12	RAN#50	R5s100593	0348	-	Correction to GCF WI-081 EUTRA MAC Testcase 7.1.4.13	8.4.0	8.5.0
2010-12	RAN#50	R5s100595	0346	-	Correction to GCF WI-081 EUTRA RLC Testcase 7.2.2.11	8.4.0	8.5.0
2010-12	RAN#50	R5s100597	0345	-	Addition of GCF WI 81 EUTRA RRC test case 9.2.1.1.13	8.4.0	8.5.0
2010-12	RAN#50	R5s100604	0383	-	Addition of GCF WI 82 EMM SMS test case 11.1.3	8.4.0	8.5.0
2010-12	RAN#50	R5s100606	0382	-	Addition of GCF WI 82 EMM SMS test case 11.1.4	8.4.0	8.5.0
2010-12	RAN#50	R5s100608	0344	-	Correction of GCF WI-081 E-UTRA TAU	8.4.0	8.5.0
2010-12	RAN#50	R5s100610	0367	-	Addition of GCF WI 82 EMM test case 9.2.1.1.7	8.4.0	8.5.0

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2010-12	RAN#50	R5s100614	0364	-	LTE_TDD: Addition of GCF WI 91 EUTRA Idle Mode test case 6.1.2.3	8.4.0	8.5.0
2010-12	RAN#50	R5s100616	0363	-	LTE_TDD: Addition of GCF WI 91 EUTRA MAC test case 7.1.2.8	8.4.0	8.5.0
2010-12	RAN#50	R5s100618	0362	-	LTE_TDD: Addition of GCF WI 91 EUTRA MAC test case 7.1.4.5	8.4.0	8.5.0
2010-12	RAN#50	R5s100620	0361	-	LTE_TDD: Addition of GCF WI 91 EUTRA MAC test case 7.1.4.6	8.4.0	8.5.0
2010-12	RAN#50	R5s100622	0360	-	LTE_TDD: Addition of GCF WI 91 EUTRA MAC test case 7.1.4.7	8.4.0	8.5.0
2010-12	RAN#50	R5s100624	0366	-	Addition of GCF WI 82 EMM test case 9.2.3.1.4	8.4.0	8.5.0
2010-12	RAN#50	R5s100626	0359	-	LTE_TDD: Addition of GCF WI 91 EUTRA MAC test case 7.1.4.10	8.4.0	8.5.0
2010-12	RAN#50	R5s100628	0358	-	LTE_TDD: Addition of GCF WI 91 EUTRA MAC test case 7.1.4.16	8.4.0	8.5.0
2010-12	RAN#50	R5s100632	0357	-	LTE_TDD: Addition of GCF WI 91 EUTRA RLC test case 7.2.3.10	8.4.0	8.5.0
2010-12	RAN#50	R5s100634	0356	-	LTE_TDD: Addition of GCF WI 91 EUTRA RLC test case 7.2.3.16	8.4.0	8.5.0
2010-12	RAN#50	R5s100636	0355	-	LTE_TDD: Addition of GCF WI 91 EUTRA RRC test case 8.2.4.3	8.4.0	8.5.0
2010-12	RAN#50	R5s100638	0354	-	LTE_TDD: Addition of GCF WI 91 EUTRA RRC test case 8.5.1.1	8.4.0	8.5.0
2010-12	RAN#50	R5s100640	0365	-	Addition of GCF WI 82 EMM test case 9.2.1.2.4	8.4.0	8.5.0
2010-12	RAN#50	R5s100642	0353	-	LTE_TDD: Addition of GCF WI 91 EUTRA MAC test case 7.1.7.1.3	8.4.0	8.5.0
2010-12	RAN#50	R5s100644	0378	-	LTE_TDD: Addition of GCF WI 91 EUTRA Idle Mode test case 6.1.2.6	8.4.0	8.5.0
2010-12	RAN#50	R5s100646	0377	-	LTE_TDD: Addition of GCF WI 91 EUTRA RRC test case 8.1.2.5	8.4.0	8.5.0
2010-12	RAN#50	R5s100648	0376	-	LTE_TDD: Addition of GCF WI 91 EUTRA RRC test case 8.2.4.2	8.4.0	8.5.0
2010-12	RAN#50	R5s100650	0375	-	LTE_TDD: Addition of GCF WI 91 EUTRA RRC test case 8.2.4.5	8.4.0	8.5.0
2010-12	RAN#50	R5s100652	0374	-	LTE_TDD: Addition of GCF WI 91 EUTRA RRC test case 8.3.1.5	8.4.0	8.5.0
2010-12	RAN#50	R5s100654	0373	-	LTE_TDD: Addition of GCF WI 91 EUTRA RRC test case 8.3.1.8	8.4.0	8.5.0
2010-12	RAN#50	R5s100656	0372	-	LTE_TDD: Addition of GCF WI 91 EUTRA RRC test case 8.5.1.3	8.4.0	8.5.0
2010-12	RAN#50	R5s100658	0368	-	LTE_TDD: Addition of GCF WI 91 EUTRA MAC test case 7.1.4.11	8.4.0	8.5.0
2010-12	RAN#50	R5s100660	0371	-	Addition of GCF WI 82 EMM test case 9.2.2.2.2	8.4.0	8.5.0
2010-12	RAN#50	R5s100662	0370	-	Addition of GCF WI 82 EMM test case 9.2.1.2.1	8.4.0	8.5.0
2010-12	RAN#50	R5s100664	0369	-	Addition of GCF WI 82 EMM test case 9.2.3.2.1	8.4.0	8.5.0
2010-12	RAN#50	R5s100669	0390	-	LTE_TDD: Addition of GCF WI 91 EUTRA PDCP test case 7.3.5.4	8.4.0	8.5.0
2010-12	RAN#50	R5s100671	0389	-	LTE_TDD: Addition of GCF WI 91 EUTRA RRC test case 8.2.4.1	8.4.0	8.5.0
2010-12	RAN#50	R5s100673	0388	-	LTE_TDD: Addition of GCF WI 91 EUTRA RRC test case 8.3.1.9	8.4.0	8.5.0
2010-12	RAN#50	R5s100675	0398	-	Addition of GCF WI 81 EUTRA IDLE MODE test case 6.1.1.1	8.4.0	8.5.0
2010-12	RAN#50	R5s100678	0401	-	Addition of GCF WI 81 RRC test case 8.3.1.7	8.4.0	8.5.0
2010-12	RAN#50	R5s100680	0400	-	Addition of GCF WI 81 EUTRA RRC test case 8.1.2.3	8.4.0	8.5.0
2010-12	RAN#50	R5s100682	0399	-	Addition of GCF WI 81 EUTRA RRC test case 8.1.1.2	8.4.0	8.5.0
2010-12	RAN#50	R5s100688	0397	-	Addition of GCF WI 82 EMM test case 9.2.1.1.21	8.4.0	8.5.0
2010-12	RAN#50	R5s100690	0396	-	Addition of GCF WI 84 EMM test case 9.2.1.1.22	8.4.0	8.5.0
2010-12	RAN#50	R5s100692	0402	-	Regression CR for LTE wk42 ATS	8.4.0	8.5.0
2010-12	RAN#50	R5s100693	0393	-	Addition of GCF WI 82 ESM test case 10.8.2	8.4.0	8.5.0
2010-12	RAN#50	R5s100695	0392	-	Addition of GCF WI 82 ESM test case 10.8.3	8.4.0	8.5.0

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2010-12	RAN#50	R5s100697	0391	-	Addition of GCF WI 82 EMM test case 9.3.1.17	8.4.0	8.5.0
2010-12	RAN#50	R5s100699	0395	-	Addition of GCF WI 82 EUTRA DRB test case 12.2.3	8.4.0	8.5.0
2010-12	RAN#50	R5s100701	0394	-	Addition of GCF WI 82 EMM test case 9.2.1.1.19	8.4.0	8.5.0
2010-12	RAN#50	R5s100703	0387	-	Addition of GCF WI 81 EUTRA RRC test case 8.1.1.6	8.4.0	8.5.0
2010-12	RAN#50	R5s100705	0408	-	Addition of GCF Priority 3 E-UTRA RRC test case 8.2.1.7	8.4.0	8.5.0
2010-12	RAN#50	R5s100707	0407	-	Addition of GCF Priority 3 E-UTRA RRC test case 8.5.1.2	8.4.0	8.5.0
2010-12	RAN#50	R5s100709	0406	-	Correction of GCF WI-081 Test Case 7.1.4.5	8.4.0	8.5.0
2010-12	RAN#50	R5s100712	0405	-	Addition of GCF WI 82 ESM test case 10.7.3	8.4.0	8.5.0
2010-12	RAN#50	R5s100714	0404	-	Addition of GCF WI 81 EUTRA RRC test case 8.2.4.4	8.4.0	8.5.0
2010-12	RAN#50	R5s100720	0403	-	Addition of GCF WI 82 Multilayer test case 13.3.1.1	8.4.0	8.5.0
2010-12	RAN#50	R5s100722	0409	-	Addition of GCF WI 82 EMM test case 9.2.1.1.23	8.4.0	8.5.0
2010-12	RAN#50	R5s100724	0414	_	Correction to IP address allocation and ESM cause for condition IPv4viaNAS_TestMode	8.4.0	8.5.0
2010-12	RAN#50	R5s100725	0413	-	Correction of the q-RxLevMin value in the sib5 interFreqCarrierFreqList	8.4.0	8.5.0
2010-12	RAN#50	R5s100726	0411	-	LTE_TDD: Resubmission of GCF WI 91 EUTRA RLC test case 7.2.2.10	8.4.0	8.5.0
2010-12	RAN#50	R5s100728	0412	-	Addition of GCF WI 82 EMM test case 9.3.1.16	8.4.0	8.5.0
2010-12	RAN#50	R5s100730	0410	-	Addition of GCF WI 82 EMM test case 9.2.2.1.2	8.4.0	8.5.0
2010-12	RAN#50	R5s100732	0422	-	LTE_TDD: Addition of GCF WI 91 EUTRA Idle mode test case 6.1.2.11	8.4.0	8.5.0
2010-12	RAN#50	R5s100734	0421	-	LTE_TDD: Addition of GCF WI 91 EUTRA Idle mode test case 6.1.2.8	8.4.0	8.5.0
2010-12	RAN#50	R5s100738	0419	-	LTE_TDD: Addition of GCF WI 91 EUTRA RRC test case 8.3.1.3	8.4.0	8.5.0
2010-12	RAN#50	R5s100740	0418	-	LTE_TDD: Addition of GCF WI 93 EUTRA RRC test case 8.3.1.7	8.4.0	8.5.0
2010-12	RAN#50	R5s100742	0417	-	LTE_TDD: Addition of GCF WI 91 EUTRA PDCP test case 7.3.5.5	8.4.0	8.5.0
2010-12	RAN#50	R5s100744	0416	-	Addition of GCF WI 82 Multilayer test case 13.3.1.2	8.4.0	8.5.0
2010-12	RAN#50	R5s100746	0415	-	Addition of GCF WI 82 ESM test case 10.7.4	8.4.0	8.5.0
2010-12	RAN#50	R5s100748	0423	-	Addition of GCF P3 E-UTRA ESM test case 10.5.3	8.4.0	8.5.0
2010-12	RAN#50	R5s100750	0424	-	Addition of GCF P3 E-UTRA EMM test case 9.2.3.1.13	8.4.0	8.5.0
2010-12	RAN#50	R5s100754	0425	-	Correction of GCF WI-081 EPC test case 9.1.2.5	8.4.0	8.5.0
2010-12	RAN#50	R5s100755	0426	-	Correction of GCF WI-081 EMM test case 9.2.3.1.5 and 9.2.3.1.8	8.4.0	8.5.0
2010-12	RAN#50	R5s100758	0434	-	Addition of GCF WI-82 P3 E-UTRA EMM test case 9.2.3.1.14	8.4.0	8.5.0
2010-12	RAN#50	R5s100760	0432	-	Correction of GCF WI-081 EPC test case 12.2.1 and 12.2.2	8.4.0	8.5.0
2010-12	RAN#50	R5s100761	0433	-	Correction of GCF WI-081 ESM test case 10.6.1, 10.4.1, 10.5.1, 10.5.3	8.4.0	8.5.0
2010-12	RAN#50	R5s100766	0431	-	Correction to GCF WI 81 EUTRA IDLE MODE test case 6.1.2.9	8.4.0	8.5.0
2010-12	RAN#50	R5s100767	0430	-	Correction to GCF WI 81 EUTRA MAC test case 7.1.4.1	8.4.0	8.5.0
2010-12	RAN#50	R5s100768	0429	-	Correction to GCF WI 82 EPC SMS test cases 11.1.3 and 11.1.4	8.4.0	8.5.0
2010-12	RAN#50	R5s100769	0428	-	Correction to GCF WI 81 EUTRA MAC test case 7.1.2.8	8.4.0	8.5.0
2010-12	RAN#50	R5s100784	0427	-	Addition of GCF WI 82 EMM test case 9.2.1.1.16	8.4.0	8.5.0
2010-12	RAN#50	R5s100787	0420	-	LTE_TDD: Addition of GCF WI 91 EUTRA RRC test case 8.1.1.6	8.4.0	8.5.0
2011-03	RAN#51	RP-110170	0436	-	CR to 36.523-3: Add new verified and e-mail agreed TTCN test cases in the TC lists in 36.523-3 (prose), Annex A	8.5.0	8.6.0

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2011-03	RAN#51	R5-110803	0435	-	Routine maintenance of LTE test model and postambles	8.5.0	8.6.0
2011-03	RAN#51	R5s100751	0470	-	Addition of GCF WI-081 EUTRA RRC InterRAT test case 8.3.2.3	8.5.0	8.6.0
2011-03	RAN#51	R5s100772	0456	-	Correction to GCF WI 81 EUTRA MAC test case 7.1.4.12	8.5.0	8.6.0
2011-03	RAN#51	R5s100773	0455	-	Correction to GCF WI 82 EPC SMS test cases 11.1.1, 11.1.2, 11.1.3, 11.1.4	8.5.0	8.6.0
2011-03	RAN#51	R5s100774	0513	-	LTE_TDD: Addition of GCF WI 91 EUTRA Idle mode test case 6.1.2.15	8.5.0	8.6.0
2011-03	RAN#51	R5s100776	0512	-	LTE_TDD: Addition of GCF WI 91 EUTRA MAC test case 7.1.4.3	8.5.0	8.6.0
2011-03	RAN#51	R5s100778	0511	-	LTE_TDD: Addition of GCF WI 91 EUTRA PDCP test case 7.3.5.3	8.5.0	8.6.0
2011-03	RAN#51	R5s100780	0485	-	Addition of GCF WI 82 EMM test case 9.2.2.2.14	8.5.0	8.6.0
2011-03	RAN#51	R5s100782	0510	-	LTE_TDD: Addition of GCF WI 91 EUTRA RRC test case 8.2.1.7	8.5.0	8.6.0
2011-03	RAN#51	R5s100789	0509	-	Addition of GCF P3 E-UTRA EMM test case 9.1.2.6	8.5.0	8.6.0
2011-03	RAN#51	R5s100792	0508	-	Correction to EMM test cases 9.2.1.1.14, 9.2.3.1.2 and 10.4.1	8.5.0	8.6.0
2011-03	RAN#51	R5s100793	0507	-	Addition of GCF P3 E-UTRA EMM test case 9.2.2.1.7	8.5.0	8.6.0
2011-03	RAN#51	R5s100795	0506	-	Addition of GCF P3 E-UTRA EMM test case 9.2.3.1.9a	8.5.0	8.6.0
2011-03	RAN#51	R5s100799	0505	-	Correction of GCF WI 82 ESM test case 10.4.1	8.5.0	8.6.0
2011-03	RAN#51	R5s100800	0517	-	Correction to GCF WI-082 ESM test case 10.4.1	8.5.0	8.6.0
2011-03	RAN#51	R5s100801	0469	-	Correction to GCF WI-081 PDCP / RRC intra-LTE intercell HO test cases	8.5.0	8.6.0
2011-03	RAN#51	R5s100802	0516	-	Correction to GCF WI-081 EUTRA PDCP test case 7.3.1.3	8.5.0	8.6.0
2011-03	RAN#51	R5s100803	0502	-	Regression CR for LTE WK42 ATS	8.5.0	8.6.0
2011-03	RAN#51	R5s100811	0515	-	Addition of GCF P3 E-UTRA EMM test case 9.2.1.1.25	8.5.0	8.6.0
2011-03	RAN#51	R5s100812	0468	-	Correction to GCF WI 82 EMM test case 9.2.1.2.1	8.5.0	8.6.0
2011-03	RAN#51	R5s100813	0467	-	Correction to GCF WI 82 EMM test case 9.2.2.2.2	8.5.0	8.6.0
2011-03	RAN#51	R5s100815	0514	-	Addition of GCF P3 E-UTRA EMM test case 9.2.1.1.26	8.5.0	8.6.0
2011-03	RAN#51	R5s100817	0466	-	Addition of GCF WI 82 EMM test case 9.2.3.1.28	8.5.0	8.6.0
2011-03	RAN#51	R5s100819	0465	-	Addition of GCF WI-082 EMM test case 9.2.3.1.27	8.5.0	8.6.0
2011-03	RAN#51	R5s100821	0464	-	LTE_TDD: Addition of GCF WI 91 EUTRA MAC test case 7.1.2.4	8.5.0	8.6.0
2011-03	RAN#51	R5s100825	0463	-	LTE_TDD: Addition of GCF WI 91 EUTRA Idle mode test case 6.1.2.7	8.5.0	8.6.0
2011-03	RAN#51	R5s100827	0458	-	Addition of GCF WI 81 EUTRA RRC test case 8.1.2.2	8.5.0	8.6.0
2011-03	RAN#51	R5s100829	0457	-	LTE_TDD: Addition of GCF WI 91 EUTRA Idle Mode test case 6.1.2.9	8.5.0	8.6.0
2011-03	RAN#51	R5s100831	0462	-	LTE_TDD: Addition of GCF WI 91 EUTRA RRC test case 8.1.3.4	8.5.0	8.6.0
2011-03	RAN#51	R5s100833	0461	-	LTE_TDD: Addition of GCF WI 91 EUTRA RRC test case 8.1.3.5	8.5.0	8.6.0
2011-03	RAN#51	R5s100835	0454	-	LTE_TDD: Addition of GCF WI 91 EUTRA Idle Mode test case 6.1.1.1	8.5.0	8.6.0
2011-03	RAN#51	R5s100837	0460	-	LTE_TDD: Addition of GCF WI 91 EUTRA RRC test case 8.2.4.6	8.5.0	8.6.0
2011-03	RAN#51	R5s100839	0459	-	LTE_TDD: Addition of GCF WI 91 EUTRA DRB test case 12.2.3	8.5.0	8.6.0
2011-03	RAN#51	R5s100848	0484	-	Addition of GCF WI 81 LTE-C2K test case 8.3.2.7	8.5.0	8.6.0
2011-03	RAN#51	R5s100850	0478	-	Addition of GCF WI 81 RRC test case 8.3.3.1	8.5.0	8.6.0
2011-03	RAN#51	R5s100852	0453	-	Addition of GCF WI 81 EUTRA MAC test case 7.1.3.9	8.5.0	8.6.0
2011-03	RAN#51	R5s100854	0452	-	Addition of GCF WI 82 Multilayer test case 13.4.1.2	8.5.0	8.6.0

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2011-03	RAN#51	R5s100856	0437	-	Addition of GCF WI-82 EMM test case 9.2.3.1.23	8.5.0	8.6.0
2011-03	RAN#51	R5s100858	0451	-	Addition of GCF WI-82 EMM test case 9.2.3.1.19	8.5.0	8.6.0
2011-03	RAN#51	R5s100860	0450	-	Correction to GCF WI 82 EMM test cases 9.2.1.1.21 and 9.2.1.1.22	8.5.0	8.6.0
2011-03	RAN#51	R5s100863	0449	-	LTE_TDD: Addition of GCF WI 91 EUTRA MAC test case 7.1.4.12	8.5.0	8.6.0
2011-03	RAN#51	R5s100865	0448	-	LTE_TDD: Addition of GCF WI 91 EUTRA RRC test case 8.1.2.2	8.5.0	8.6.0
2011-03	RAN#51	R5s100867	0447	-	LTE_TDD: Addition of GCF WI 92 Multilayer test case 13.3.1.1	8.5.0	8.6.0
2011-03	RAN#51	R5s100869	0446	-	LTE_TDD: Addition of GCF WI 92 Multilayer test case 13.4.1.2	8.5.0	8.6.0
2011-03	RAN#51	R5s100871	0473	-	Addition of GCF WI 81 EUTRA RRC test case 8.1.3.6	8.5.0	8.6.0
2011-03	RAN#51	R5s100873	0474	-	Addition of GCF WI 81 EUTRA Idlemode test case 6.2.3.5	8.5.0	8.6.0
2011-03	RAN#51	R5s100876	0445	-	Correction to GCF WI 82 EMM test case 9.2.3.1.14	8.5.0	8.6.0
2011-03	RAN#51	R5s100877	0444	-	Addition of GCF WI 82 EMM test case 9.2.2.1.8	8.5.0	8.6.0
2011-03	RAN#51	R5s100879	0477	-	Addition of GCF WI 81 EUTRA test case 8.3.1.11	8.5.0	8.6.0
2011-03	RAN#51	R5s100881	0443	-	LTE_TDD: Addition of GCF WI 91 EUTRA MAC test case 7.1.3.9	8.5.0	8.6.0
2011-03	RAN#51	R5s100883	0476	-	Addition of GCF WI 82 EMM test case 9.2.2.1.9	8.5.0	8.6.0
2011-03	RAN#51	R5s110001	0442	-	Correction to GCF WI 81 EUTRA RRC test case 8.1.2.3	8.5.0	8.6.0
2011-03	RAN#51	R5s110002	0440	-	Correction to GCF WI 82 ESM test case 10.8.2	8.5.0	8.6.0
2011-03	RAN#51	R5s110003	0441	-	LTE_TDD: Addition of GCF WI 91 EUTRA RRC test case 8.1.2.3	8.5.0	8.6.0
2011-03	RAN#51	R5s110005	0439	-	Correction to GCF WI 81 EUTRA RRC test case 8.3.1.7	8.5.0	8.6.0
2011-03	RAN#51	R5s110006	0438	-	Correction to GCF WI 82 EMM test case 9.1.2.6	8.5.0	8.6.0
2011-03	RAN#51	R5s110007	0475	-	Correction to EMM test cases	8.5.0	8.6.0
2011-03	RAN#51	R5s110008	0472	-	Regression CR for iwd-EUTRA-B2009-12_D10wk49 ATS	8.5.0	8.6.0
2011-03	RAN#51	R5s110009	0471	-	LTE_TDD: Addition of GCF WI 91 EUTRA RRC test case 8.5.1.2	8.5.0	8.6.0
2011-03	RAN#51	R5s110011	0483	-	Correction to GCF WI-082 ESM test cases 10.4.1 and 10.5.1 ((IP address assignment for second PDN)	8.5.0	8.6.0
2011-03	RAN#51	R5s110012	0482	-	Correction to GCF WI-081 MAC test case 7.2.3.10	8.5.0	8.6.0
2011-03	RAN#51	R5s110013	0481	-	Correction to GCF WI-081 EUTRA MAC test cases 7.1.7.x	8.5.0	8.6.0
2011-03	RAN#51	R5s110014	0480	-	Addition of GCF WI-081 EUTRA Idle Mode test case 6.2.2.1	8.5.0	8.6.0
2011-03	RAN#51	R5s110016	0479	-	Correction of RV values used in Dci1C scheduling for SI (BCCH)	8.5.0	8.6.0
2011-03	RAN#51	R5s110019	0492	-	Regression CR for LTE WK49 ATS	8.5.0	8.6.0
2011-03	RAN#51	R5s110020	0493	-	Addition of GCF WI 81 EUTRA test case 8.3.1.4	8.5.0	8.6.0
2011-03	RAN#51	R5s110024	0490	-	Addition of GCF WI 82 EMM test case 9.2.3.1.16	8.5.0	8.6.0
2011-03	RAN#51	R5s110026	0491	-	Addition of GCF WI 82 EMM test case 9.2.1.1.24	8.5.0	8.6.0
2011-03	RAN#51	R5s110028	0489	-	Addition of GCF WI 82 EMM test case 9.2.3.1.25	8.5.0	8.6.0
2011-03	RAN#51	R5s110030	0488	-	Correction to GCF WI 81 EUTRA RLC test case 7.2.3.21	8.5.0	8.6.0
2011-03	RAN#51	R5s110031	0501	-	Addition of GCF WI 81 EUTRA Idle Mode test case 6.2.3.3	8.5.0	8.6.0
2011-03	RAN#51	R5s110033	0487	-	Correction to GCF WI 81 EUTRA PDCP test case 7.3.5.2	8.5.0	8.6.0
2011-03	RAN#51	R5s110034	0486	-	Correction to use of DCI combination 1 (5 MHz) with 9 PRBs	8.5.0	8.6.0
2011-03	RAN#51	R5s110035	0499	-	Correction of NAS type definition in TS 36.523-3	8.5.0	8.6.0

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2011-03	RAN#51	R5s110036	0498	-	Correction to GCF WI 81 EUTRA MAC test case 7.1.4.6	8.5.0	8.6.0
2011-03	RAN#51	R5s110037	0497	-	Correction to GCF WI 81 EUTRA RRC test case 8.3.2.3	8.5.0	8.6.0
2011-03	RAN#51	R5s110038	0496	-	Addition of GCF WI 82 EMM test case 9.3.2.2	8.5.0	8.6.0
2011-03	RAN#51	R5s110040	0495	-	Addition of GCF WI 82 EMM test case 9.3.2.2a	8.5.0	8.6.0
2011-03	RAN#51	R5s110042	0494	-	Addition of GCF WI 81 EUTRA IDLE MODE test case 6.1.2.13	8.5.0	8.6.0
2011-03	RAN#51	R5s110046	0500	-	Correction of TTCN for EMM inter-RAT / inter-frequency test cases	8.5.0	8.6.0
2011-03	RAN#51	R5s110051	0504	-	Correction to GCF WI-082 E-UTRA test case 13.3.1.1	8.5.0	8.6.0
2011-03	RAN#51	R5s110052	0520	-	Correction to GCF WI-082 E-UTRA test case 9.2.3.1.8	8.5.0	8.6.0
2011-03	RAN#51	R5s110054	0519	-	Correction to GCF WI-082 E-UTRA ESM test cases 10.8.1 and 10.8.3	8.5.0	8.6.0
2011-03	RAN#51	R5s110055	0518	-	Correction to GCF WI-082 E-UTRA ESM test case 10.4.1	8.5.0	8.6.0
2011-03	RAN#51	R5s110057	0503	-	Correction to GCF WI-081 MAC test case 7.1.2.6	8.5.0	8.6.0
2011-03	RAN#51	R5s110060	0523	-	Correction to GCF WI-081 E-UTRA MAC Testcase 7.1.2.9	8.5.0	8.6.0
2011-03	RAN#51	R5s110061	0521	-	Correction to GCF WI 81 EUTRA Idle Mode test case 6.2.3.3	8.5.0	8.6.0
2011-03	RAN#51	R5s110062	0522	-	Correction to GCF WI 81 EUTRA Idle Mode test case 6.2.3.5	8.5.0	8.6.0
2011-03	RAN#51	R5s110064	0525	-	Correction to GCF WI 82 SMS test cases	8.5.0	8.6.0
2011-03	RAN#51	R5s110068	0529	-	Addition of GCF WI 82 EMM test case 9.2.3.1.26	8.5.0	8.6.0
2011-03	RAN#51	R5s110070	0528	-	Correction to GCF WI 82 EMM test case 9.2.1.1.24	8.5.0	8.6.0
2011-03	RAN#51	R5s110073	0527	-	Addition of GCF WI 81 RRC test case 8.2.4.9	8.5.0	8.6.0
2011-03	RAN#51	R5s110075	0526	-	Addition of GCF WI 82 EMM test case 9.2.2.1.3	8.5.0	8.6.0
2011-03	RAN#51	R5s110077	0524	-	Correction to GCF WI-081 MAC test case 7.1.4.4	8.5.0	8.6.0
2011-03	RAN#51	R5s110078	0533	-	Correction to GCF WI-082 NAS common module	8.5.0	8.6.0
2011-03	RAN#51	R5s110084	0531	-	Correction to GCF WI-082 E-UTRA EMM Testcase 9.2.2.1.9	8.5.0	8.6.0
2011-03	RAN#51	R5s110085	0530	-	Correction to GCF WI-081 E-UTRA MAC Testcase 7.1.4.13	8.5.0	8.6.0
2011-03	RAN#51	R5s110086	0532	-	Correction to GCF WI 82 ESM test case 10.4.1	8.5.0	8.6.0
2011-06	RAN#52	RP-110656	0536	-	CR to 36.523-3: Add new verified and e-mail agreed TTCN test cases in the TC lists in 36.523-3 (prose), Annex A	8.6.0	9.0.0
2011-06	RAN#52	R5-112665	0535	-	Routine maintenance of LTE test model and postambles	8.6.0	9.0.0
2011-06	RAN#52	R5s110081	0564	-	Addition of GCF WI-081 EUTRA RRC InterRAT test case 8.1.3.8	8.6.0	9.0.0
2011-06	RAN#52	R5s110087	0582	-	Addition of GCF WI 81 EUTRA idle mode test case 6.2.2.2	8.6.0	9.0.0
2011-06	RAN#52	R5s110089	0545	-	Addition of GCF WI 81 RRC test case 8.1.1.4	8.6.0	9.0.0
2011-06	RAN#52	R5s110091	0544	-	Correction to GCF WI-082 test case 11.1.3 and 11.1.4	8.6.0	9.0.0
2011-06	RAN#52	R5s110092	0543	-	Correction to GCF WI-081 EUTRA PDCP test cases 7.3.4.1 and 7.3.4.2	8.6.0	9.0.0
2011-06	RAN#52	R5s110094	0542	-	Resubmission of GCF WI 82 EMM test case 9.2.1.2.10	8.6.0	9.0.0
2011-06	RAN#52	R5s110096	0541	-	Correction to EUTRA MAC test case 7.1.4.3	8.6.0	9.0.0
2011-06	RAN#52	R5s110097	0540	-	Correction to EUTRA MAC test case 7.1.2.6	8.6.0	9.0.0
2011-06	RAN#52	R5s110098	0539	-	Correction to EUTRA RRC test case 8.2.4.7	8.6.0	9.0.0
2011-06	RAN#52	R5s110099	0538	-	Addition of GCF WI 82 EUTRA EMM test case 9.3.1.15	8.6.0	9.0.0
2011-06	RAN#52	R5s110101	0537	-	Correction to GCF WI 82 ESM test cases 10.7.2 & 10.8.1	8.6.0	9.0.0
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2011-06	RAN#52	R5s110109	0563	-	Addition of GCF WI 82 EUTRA EMM test case 9.3.1.3	8.6.0	9.0.0
2011-06	RAN#52	R5s110112	0562	-	Correction to GCF WI-081 EUTRA <> UTRAN test cases 8.3.2.3, 8.1.3.6, 6.2.3.3, 6.2.3.5.	8.6.0	9.0.0
2011-06	RAN#52	R5s110114	0561	-	Correction to GCF WI-082 EMM test case 9.2.3.1.23	8.6.0	9.0.0
2011-06	RAN#52	R5s110115	0560	-	Correction to GCF WI-081 E-UTRA MAC test case 7.1.2.9	8.6.0	9.0.0
2011-06	RAN#52	R5s110116	0559	-	Correction to GCF WI-082 E-UTRA EMM test case 9.2.1.1.24	8.6.0	9.0.0
2011-06	RAN#52	R5s110117	0558	-	Correction to GCF WI-081 PDCP test cases 7.3.4.1 and 7.3.4.2	8.6.0	9.0.0
2011-06	RAN#52	R5s110118	0557	-	Correction to EMM test cases 9.2.1.1.1 and 9.2.1.1.20	8.6.0	9.0.0
2011-06	RAN#52	R5s110120	0555	-	Correction to GCF WI-081 EUTRA MAC test case 7.1.4.11	8.6.0	9.0.0
2011-06	RAN#52	R5s110121	0556	-	Correction to GCF WI-081 EUTRA PDCP test case 7.3.5.2	8.6.0	9.0.0
2011-06	RAN#52	R5s110122	0554	-	Correction to previously accepted R5s110034 ((DCI combi 1 / 5 MHz / with 9 PRBs)	8.6.0	9.0.0
2011-06	RAN#52	R5s110123	0586	-	Addition of GCF WI 81 EUTRA RRC test case 8.5.2.1	8.6.0	9.0.0
2011-06	RAN#52	R5s110125	0553	-	Correction EUTRA and EMM test cases	8.6.0	9.0.0
2011-06	RAN#52	R5s110127	0552	-	Addition of GCF WI 81 EUTRA idle mode test case 6.2.3.6	8.6.0	9.0.0
2011-06	RAN#52	R5s110129	0551	-	Addition of GCF WI 82 EMM test case 9.2.1.2.2	8.6.0	9.0.0
2011-06	RAN#52	R5s110131	0550	-	Addition of GCF WI 82 EMM test case 9.2.1.2.11	8.6.0	9.0.0
2011-06	RAN#52	R5s110133	0548	-	Addition of GCF WI 82 EMM test case 9.2.3.1.10	8.6.0	9.0.0
2011-06	RAN#52	R5s110135	0547	-	Addition of GCF WI 82 EMM test case 9.2.3.1.11	8.6.0	9.0.0
2011-06	RAN#52	R5s110137	0546	-	Addition of GCF WI 82 EMM test case 9.2.3.1.12	8.6.0	9.0.0
2011-06	RAN#52	R5s110139	0549	-	Correction to EMM test cases	8.6.0	9.0.0
2011-06	RAN#52	R5s110140	0579	-	Addition of GCF WI 82 EMM test case 9.2.3.1.15	8.6.0	9.0.0
2011-06	RAN#52	R5s110142	0581	-	Correction to GCF WI-082 EMM test case 9.1.3.1	8.6.0	9.0.0
2011-06	RAN#52	R5s110143	0578	-	Addition of GCF WI 82 EUTRA EMM test case 9.2.1.2.3	8.6.0	9.0.0
2011-06	RAN#52	R5s110145	0577	-	Addition of GCF WI 82 EUTRA EMM test case 9.2.3.2.3	8.6.0	9.0.0
2011-06	RAN#52	R5s110147	0580	-	Correction to GCF WI-081 EUTRA MAC test case 7.1.4.4	8.6.0	9.0.0
2011-06	RAN#52	R5s110149	0575	-	Correction to EUTRA SS security configuration steps	8.6.0	9.0.0
2011-06	RAN#52	R5s110150	0576	-	Correction to EMM test case 9.2.3.1.14	8.6.0	9.0.0
2011-06	RAN#52	R5s110151	0574	-	Addition of GCF WI 82 EMM test case 9.2.1.1.12	8.6.0	9.0.0
2011-06	RAN#52	R5s110153	0573	-	Correction to GCF WI-081 IDLE MODE test case 6.1.1.1	8.6.0	9.0.0
2011-06	RAN#52	R5s110154	0571	-	Correction to EUTRA_AspCommon_Templates.ttcn	8.6.0	9.0.0
2011-06	RAN#52	R5s110155	0572	-	Addition of GCF WI 82 EMM test case 9.2.3.3.6	8.6.0	9.0.0
2011-06	RAN#52	R5s110157	0570	-	Correction to EMM test case 9.2.1.1.26	8.6.0	9.0.0
2011-06	RAN#52	R5s110158	0569	-	Addition of GCF WI 82 EMM test case 9.2.1.2.13	8.6.0	9.0.0
2011-06	RAN#52	R5s110160	0568	-	LTE_TDD: Addition of GCF WI 91 EUTRA Idle mode test case 6.1.2.13	8.6.0	9.0.0
2011-06	RAN#52	R5s110162	0567	-	LTE_TDD: Addition of GCF WI 91 EUTRA RRC test case 8.3.1.10	8.6.0	9.0.0
2011-06	RAN#52	R5s110164	0566	-	LTE_TDD: Addition of GCF WI 92 EUTRA Multi-Layer test case	8.6.0	9.0.0
2011-06	RAN#52	R5s110166	0565	-	Addition of GCF WI 81 EUTRA Idle mode test case 6.3.6	8.6.0	9.0.0
2011-06	RAN#52	R5s110168	0620	-	Regression CR for LTE wk11 ATS	8.6.0	9.0.0

2011-06 RAN#52 R5s110212 0589 - Correction to EMM test case 9.1.2.6 8.6.0 9.0.0 2011-06 RAN#52 R5s110213 0588 - Correction to TFT templates 8.6.0 9.0.0 2011-06 RAN#52 R5s110214 0587 - Correction to EMM test case 9.2.1.1.1a 8.6.0 9.0.0 2011-06 RAN#52 R5s110215 0611 - Corrections to LTE / WCDMA InterRAT test cases 8.6.0 9.0.0	Date	TSG#	TSG Doc.	CR	Rev	Subject/Comment	Old	New
2011-06 RAN#52 R5s110172 C584 Correction to EMM test case 9.2.3.1.5 8.6.0 9.0.0	2011-06	RAN#52	R5s110170	0585	-	Correction to EMM test case 9.2.3.1.4	8.6.0	9.0.0
2011-06	2011-06	RAN#52	R5s110171	0618	-	Regression CR for LTE wk11 ATS	8.6.0	9.0.0
2011-06	2011-06	RAN#52	R5s110172	0584	-	Correction to EMM test case 9.2.3.1.5	8.6.0	9.0.0
2011-06 RAN#52 R5s110176 0615	2011-06	RAN#52	R5s110173	0619	-	Correction to EUTRA MAC test cases 7.1.6.1 and 7.1.6.2	8.6.0	9.0.0
2011-06	2011-06	RAN#52	R5s110174	0583	-	Correction to the use of Grant Allocation Type 2 in LTE wk11 ATS	8.6.0	9.0.0
2011-06	2011-06	RAN#52	R5s110176	0615	-	Baseline upgrade of E-UTRA ATS to March-11 in Rel-9	8.6.0	9.0.0
2011-06	2011-06	RAN#52	R5s110177	0608	-	Addition of GCF WI 82 EMM test case 9.3.1.4	8.6.0	9.0.0
Description Content	2011-06	RAN#52	R5s110179	0607	-	Addition of GCF WI 82 EMM test case 9.3.1.5	8.6.0	9.0.0
Description Content of the Content of Content	2011-06	RAN#52	R5s110181	0606	-	LTE_TDD: Addition of GCF WI 91 EUTRA PDCP test case 7.3.5.2	8.6.0	9.0.0
2011-06 RAN#52 R55110187 0603 - Addition of GCF WI 82 EMM test case 9.2.1.2.5 8.6.0 9.0.0	2011-06	RAN#52	R5s110183	0605	-	LTE_TDD: Addition of GCF WI 91 EUTRA RRC test case 8.1.2.7	8.6.0	9.0.0
2011-06 RAN#52 R5s110189 0602 - Addition of GCF WI 82 EMM test case 9.2.1.2.7 8.6.0 9.0.0	2011-06	RAN#52	R5s110185	0604	-	LTE_TDD: Addition of GCF WI 91 EUTRA RRC test case 8.2.4.7	8.6.0	9.0.0
2011-06 RAN#52 R5s110192 0601 - Addition of GCF WI 82 EMM test case 9.2.1.2.6 8.6.0 9.0.0	2011-06	RAN#52	R5s110187	0603	-	Addition of GCF WI 82 EMM test case 9.2.1.2.5	8.6.0	9.0.0
2011-06 RAN#52 R5s110194 0598 - Addition of GCF WI 82 EMM test case 9.2.1.2.8 8.6.0 9.0.0	2011-06	RAN#52	R5s110189	0602	-	Addition of GCF WI 82 EMM test case 9.2.1.2.7	8.6.0	9.0.0
2011-06 RAN#52 R5s110196 0600 - Correction to EUTRA RRC test case 8.2.4.7 8.6.0 9.0.0	2011-06	RAN#52	R5s110192	0601	-	Addition of GCF WI 82 EMM test case 9.2.1.2.6	8.6.0	9.0.0
2011-06 RAN#52 R5s110197 0599 - LTE_TDD: Addition of GCF WI 91 EUTRA RRC test case 8.1.1.2 8.6.0 9.0.0	2011-06	RAN#52	R5s110194	0598	-	Addition of GCF WI 82 EMM test case 9.2.1.2.8	8.6.0	9.0.0
2011-06	2011-06	RAN#52	R5s110196	0600	-	Correction to EUTRA RRC test case 8.2.4.7	8.6.0	9.0.0
2011-06 RAN#52 R5s110201 0596 - Correction to EUTRA test cases 7.1.3.9, 7.2.3.6, 7.2.3.18 8.6.0 9.0.0 2011-06 RAN#52 R5s110202 0597 - Addition of GCF WI 82 EMM test case 9.2.3.2.9 8.6.0 9.0.0 2011-06 RAN#52 R5s110204 0595 - Addition of GCF WI 82 EMM test case 9.2.1.2.9 8.6.0 9.0.0 2011-06 RAN#52 R5s110206 0594 - Correction to EMM SMS test cases 11.1.3 and 11.1.4 8.6.0 9.0.0 2011-06 RAN#52 R5s110207 0593 - Correction of GCF WI 81 RLC test case 7.2.2.11 8.6.0 9.0.0 2011-06 RAN#52 R5s110208 0591 - Correction to ESM test case 10.7.3 8.6.0 9.0.0 2011-06 RAN#52 R5s110209 0590 - Correction to EMM test cases 9.2.1.2.1 and 9.2.2.2.2 8.6.0 9.0.0 2011-06 RAN#52 R5s110210 0592 - Addition of GCF WI 81 EUTRA Idle Mode test case 6.2.3.4 8.6.0 9.0.0 2011-06 RAN#52	2011-06	RAN#52	R5s110197	0599	-	LTE_TDD: Addition of GCF WI 91 EUTRA RRC test case 8.1.1.2	8.6.0	9.0.0
2011-06 RAN#52 R5s110202 0597 - Addition of GCF WI 82 EMM test case 9.2.3.2.9 8.6.0 9.0.0 2011-06 RAN#52 R5s110204 0595 - Addition of GCF WI 82 EMM test case 9.2.1.2.9 8.6.0 9.0.0 2011-06 RAN#52 R5s110206 0594 - Correction to EMM SMS test cases 11.1.3 and 11.1.4 8.6.0 9.0.0 2011-06 RAN#52 R5s110207 0593 - Correction of GCF WI 81 RLC test case 7.2.2.11 8.6.0 9.0.0 2011-06 RAN#52 R5s110208 0591 - Correction to ESM test case 10.7.3 8.6.0 9.0.0 2011-06 RAN#52 R5s110209 0590 - Correction to EMM test case 9.2.1.2.1 and 9.2.2.2.2 8.6.0 9.0.0 2011-06 RAN#52 R5s110210 0592 - Addition of GCF WI 81 EUTRA Idle Mode test case 6.2.3.4 8.6.0 9.0.0 2011-06 RAN#52 R5s110213 0588 - Correction to TFT templates 8.6.0 9.0.0 2011-06 RAN#52 R5s110214	2011-06	RAN#52	R5s110199	0626	-	Addition of GCF WI 82 EMM test case 9.2.1.2.15	8.6.0	9.0.0
2011-06 RAN#52 R5s110204 0595 - Addition of GCF WI 82 EMM test case 9.2.1.2.9 8.6.0 9.0.0	2011-06	RAN#52	R5s110201	0596	-	Correction to EUTRA test cases 7.1.3.9, 7.2.3.6, 7.2.3.18	8.6.0	9.0.0
2011-06 RAN#52 R5s110206 0594 - Correction to EMM SMS test cases 11.1.3 and 11.1.4 8.6.0 9.0.0 2011-06 RAN#52 R5s110207 0593 - Correction of GCF WI 81 RLC test case 7.2.2.11 8.6.0 9.0.0 2011-06 RAN#52 R5s110208 0591 - Correction to ESM test case 10.7.3 8.6.0 9.0.0 2011-06 RAN#52 R5s110209 0590 - Correction to EMM test cases 9.2.1.2.1 and 9.2.2.2.2 8.6.0 9.0.0 2011-06 RAN#52 R5s110210 0592 - Addition of GCF WI 81 EUTRA Idle Mode test case 6.2.3.4 8.6.0 9.0.0 2011-06 RAN#52 R5s110212 0589 - Correction to EMM test case 9.1.2.6 8.6.0 9.0.0 2011-06 RAN#52 R5s110213 0588 - Correction to TFT templates 8.6.0 9.0.0 2011-06 RAN#52 R5s110214 0587 - Correction to EMM test case 9.2.1.1.1a 8.6.0 9.0.0 2011-06 RAN#52 R5s110215 0611	2011-06	RAN#52	R5s110202	0597	-	Addition of GCF WI 82 EMM test case 9.2.3.2.9	8.6.0	9.0.0
2011-06 RAN#52 R5s110207 0593 - Correction of GCF WI 81 RLC test case 7.2.2.11 8.6.0 9.0.0 2011-06 RAN#52 R5s110208 0591 - Correction to ESM test case 10.7.3 8.6.0 9.0.0 2011-06 RAN#52 R5s110209 0590 - Correction to EMM test cases 9.2.1.2.1 and 9.2.2.2.2 8.6.0 9.0.0 2011-06 RAN#52 R5s110210 0592 - Addition of GCF WI 81 EUTRA Idle Mode test case 6.2.3.4 8.6.0 9.0.0 2011-06 RAN#52 R5s110212 0589 - Correction to EMM test case 9.1.2.6 8.6.0 9.0.0 2011-06 RAN#52 R5s110213 0588 - Correction to TFT templates 8.6.0 9.0.0 2011-06 RAN#52 R5s110214 0587 - Correction to EMM test case 9.2.1.1.1a 8.6.0 9.0.0 2011-06 RAN#52 R5s110215 0611 - Corrections to LTE / WCDMA InterRAT test cases 8.6.0 9.0.0 2011-06 RAN#52 R5s110216 0624	2011-06	RAN#52	R5s110204	0595	-	Addition of GCF WI 82 EMM test case 9.2.1.2.9	8.6.0	9.0.0
2011-06 RAN#52 R5s110208 0591 - Correction to ESM test case 10.7.3 8.6.0 9.0.0 2011-06 RAN#52 R5s110209 0590 - Correction to EMM test cases 9.2.1.2.1 and 9.2.2.2.2 8.6.0 9.0.0 2011-06 RAN#52 R5s110210 0592 - Addition of GCF WI 81 EUTRA Idle Mode test case 6.2.3.4 8.6.0 9.0.0 2011-06 RAN#52 R5s110212 0589 - Correction to EMM test case 9.1.2.6 8.6.0 9.0.0 2011-06 RAN#52 R5s110213 0588 - Correction to TFT templates 8.6.0 9.0.0 2011-06 RAN#52 R5s110214 0587 - Correction to EMM test case 9.2.1.1.1a 8.6.0 9.0.0 2011-06 RAN#52 R5s110215 0611 - Corrections to LTE / WCDMA InterRAT test cases 8.6.0 9.0.0 2011-06 RAN#52 R5s110216 0624 - Addition of GCF WI-081 EUTRA RRC test case 8.4.1.2 8.6.0 9.0.0	2011-06	RAN#52	R5s110206	0594	-	Correction to EMM SMS test cases 11.1.3 and 11.1.4	8.6.0	9.0.0
2011-06 RAN#52 R5s110209 0590 - Correction to EMM test cases 9.2.1.2.1 and 9.2.2.2.2 8.6.0 9.0.0 2011-06 RAN#52 R5s110210 0592 - Addition of GCF WI 81 EUTRA Idle Mode test case 6.2.3.4 8.6.0 9.0.0 2011-06 RAN#52 R5s110212 0589 - Correction to EMM test case 9.1.2.6 8.6.0 9.0.0 2011-06 RAN#52 R5s110213 0588 - Correction to TFT templates 8.6.0 9.0.0 2011-06 RAN#52 R5s110214 0587 - Correction to EMM test case 9.2.1.1.1a 8.6.0 9.0.0 2011-06 RAN#52 R5s110215 0611 - Corrections to LTE / WCDMA InterRAT test cases 8.6.0 9.0.0 2011-06 RAN#52 R5s110216 0624 - Addition of GCF WI-081 EUTRA RRC test case 8.4.1.2 8.6.0 9.0.0	2011-06	RAN#52	R5s110207	0593	-	Correction of GCF WI 81 RLC test case 7.2.2.11	8.6.0	9.0.0
2011-06 RAN#52 R5s110210 0592 - Addition of GCF WI 81 EUTRA Idle Mode test case 6.2.3.4 8.6.0 9.0.0 2011-06 RAN#52 R5s110212 0589 - Correction to EMM test case 9.1.2.6 8.6.0 9.0.0 2011-06 RAN#52 R5s110213 0588 - Correction to TFT templates 8.6.0 9.0.0 2011-06 RAN#52 R5s110214 0587 - Correction to EMM test case 9.2.1.1.1a 8.6.0 9.0.0 2011-06 RAN#52 R5s110215 0611 - Corrections to LTE / WCDMA InterRAT test cases 8.6.0 9.0.0 2011-06 RAN#52 R5s110216 0624 - Addition of GCF WI-081 EUTRA RRC test case 8.4.1.2 8.6.0 9.0.0	2011-06	RAN#52	R5s110208	0591	-	Correction to ESM test case 10.7.3	8.6.0	9.0.0
2011-06 RAN#52 R5s110212 0589 - Correction to EMM test case 9.1.2.6 8.6.0 9.0.0 2011-06 RAN#52 R5s110213 0588 - Correction to TFT templates 8.6.0 9.0.0 2011-06 RAN#52 R5s110214 0587 - Correction to EMM test case 9.2.1.1.1a 8.6.0 9.0.0 2011-06 RAN#52 R5s110215 0611 - Corrections to LTE / WCDMA InterRAT test cases 8.6.0 9.0.0 2011-06 RAN#52 R5s110216 0624 - Addition of GCF WI-081 EUTRA RRC test case 8.4.1.2 8.6.0 9.0.0	2011-06	RAN#52	R5s110209	0590	-	Correction to EMM test cases 9.2.1.2.1 and 9.2.2.2.2	8.6.0	9.0.0
2011-06 RAN#52 R5s110213 0588 - Correction to TFT templates 8.6.0 9.0.0 2011-06 RAN#52 R5s110214 0587 - Correction to EMM test case 9.2.1.1.1a 8.6.0 9.0.0 2011-06 RAN#52 R5s110215 0611 - Corrections to LTE / WCDMA InterRAT test cases 8.6.0 9.0.0 2011-06 RAN#52 R5s110216 0624 - Addition of GCF WI-081 EUTRA RRC test case 8.4.1.2 8.6.0 9.0.0	2011-06	RAN#52	R5s110210	0592	-	Addition of GCF WI 81 EUTRA Idle Mode test case 6.2.3.4	8.6.0	9.0.0
2011-06 RAN#52 R5s110214 0587 - Correction to EMM test case 9.2.1.1.1a 8.6.0 9.0.0 2011-06 RAN#52 R5s110215 0611 - Corrections to LTE / WCDMA InterRAT test cases 8.6.0 9.0.0 2011-06 RAN#52 R5s110216 0624 - Addition of GCF WI-081 EUTRA RRC test case 8.4.1.2 8.6.0 9.0.0	2011-06	RAN#52	R5s110212	0589	-	Correction to EMM test case 9.1.2.6	8.6.0	9.0.0
2011-06 RAN#52 R5s110215 0611 - Corrections to LTE / WCDMA InterRAT test cases 8.6.0 9.0.0	2011-06	RAN#52	R5s110213	0588	-	Correction to TFT templates	8.6.0	9.0.0
2011-06 RAN#52 R5s110216 0624 - Addition of GCF WI-081 EUTRA RRC test case 8.4.1.2 8.6.0 9.0.0	2011-06	RAN#52	R5s110214	0587	-	Correction to EMM test case 9.2.1.1.1a	8.6.0	9.0.0
	2011-06	RAN#52	R5s110215	0611	-	Corrections to LTE / WCDMA InterRAT test cases	8.6.0	9.0.0
2011-06 RAN#52 R5s110218 0610 - Correction to GCF WI-082 EMM test case 9.1.3.2 8.6.0 9.0.0	2011-06	RAN#52	R5s110216	0624	-	Addition of GCF WI-081 EUTRA RRC test case 8.4.1.2	8.6.0	9.0.0
	2011-06	RAN#52	R5s110218	0610	-	Correction to GCF WI-082 EMM test case 9.1.3.2	8.6.0	9.0.0
2011-06 RAN#52 R5s110219 0609 - Correction to EUTRA and EMM test cases 8.6.0 9.0.0	2011-06	RAN#52	R5s110219	0609	-	Correction to EUTRA and EMM test cases	8.6.0	9.0.0
2011-06 RAN#52 R5s110222 0617 - Corrections to GCF WI-081 RLC test case 7.2.3.6 8.6.0 9.0.0	2011-06	RAN#52	R5s110222	0617	-	Corrections to GCF WI-081 RLC test case 7.2.3.6	8.6.0	9.0.0
2011-06 RAN#52 R5s110223 0616 - Correction of GCF WI81 MAC test case 7.1.2.9 8.6.0 9.0.0	2011-06	RAN#52	R5s110223	0616	-	Correction of GCF WI81 MAC test case 7.1.2.9	8.6.0	9.0.0
2011-06 RAN#52 R5s110226 0614 - Correction to EUTRA MAC test case 7.1.4.3 8.6.0 9.0.0	2011-06	RAN#52	R5s110226	0614	-	Correction to EUTRA MAC test case 7.1.4.3	8.6.0	9.0.0
2011-06 RAN#52 R5s110227 0613 - Correction to EMM test case 9.2.2.1.2 8.6.0 9.0.0	2011-06	RAN#52	R5s110227	0613	-	Correction to EMM test case 9.2.2.1.2	8.6.0	9.0.0

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2011-06	RAN#52	R5s110228	0612	-	Correction to EMM test cases 9.4.1, 9.4.2, 9.4.3, 9.4.4	8.6.0	9.0.0
2011-06	RAN#52	R5s110230	0623	-	Correction to GCF WI-082 EMM test cases 9.3.1.7 and 9.3.1.7a	8.6.0	9.0.0
2011-06	RAN#52	R5s110232	0622	-	Correction to EMM MRAT test cases	8.6.0	9.0.0
2011-06	RAN#52	R5s110233	0621	-	Correction of type record VoiceDomainPref	8.6.0	9.0.0
2011-06	RAN#52	R5s110234	0625	-	Correction to EMM test case 9.2.1.1.19	8.6.0	9.0.0
2011-06	RAN#52	R5s110235	0630	-	Correction of UL EARFCN for FDD Band 19	8.6.0	9.0.0
2011-06	RAN#52	R5s110236	0629	-	Addition of GCF WI 81 EUTRA MAC test case 7.1.5.2	8.6.0	9.0.0
2011-06	RAN#52	R5s110238	0628	-	Addition of GCF WI 81 EUTRA MAC test case 7.1.5.4	8.6.0	9.0.0
2011-06	RAN#52	R5s110242	0627	-	Correction to LTE ATS	8.6.0	9.0.0
2011-06	RAN#52	R5s110243	0631	-	Correction to GCF WI-081 MAC test case 7.2.3.10	8.6.0	9.0.0
2011-06	RAN#52	R5s110244	0632	-	Correction to EUTRA/EMM test cases	8.6.0	9.0.0
2011-06	-	-	-	-	Correction in history table: removal of R5-112253.	9.0.0	9.0.1
2011-09	RAN#53	RP-111161	0634	-	CR to 36.523-3: Add new verified and e-mail agreed TTCN test cases in the TC lists in 36.523-3 (prose), Annex A	9.0.1	9.1.0
2011-09	RAN#53	R5-113734	0633	-	Routine maintenance and updates	9.0.1	9.1.0
2011-09	RAN#53	R5s110245	0642	-	Addition of GCF WI 81 EUTRA RRC test case 8.1.2.8	9.0.1	9.1.0
2011-09	RAN#53	R5s110247	0643	-	Addition of GCF WI 81 EUTRA RRC test case 8.1.2.6	9.0.1	9.1.0
2011-09	RAN#53	R5s110249	0644	-	Addition of GCF WI 81 EUTRA RRC test case 8.5.1.4	9.0.1	9.1.0
2011-09	RAN#53	R5s110251	0646	-	Addition of GCF WI 82 EMM test case 9.2.3.2.15	9.0.1	9.1.0
2011-09	RAN#53	R5s110253	0650	-	Addition of GCF WI 82 EMM test case 9.2.3.2.5	9.0.1	9.1.0
2011-09	RAN#53	R5s110255	0649	-	Addition of GCF WI 82 EMM test case 9.2.3.2.6	9.0.1	9.1.0
2011-09	RAN#53	R5s110257	0648	-	Addition of GCF WI 82 EMM test case 9.2.3.2.7	9.0.1	9.1.0
2011-09	RAN#53	R5s110259	0645	-	Addition of GCF WI 82 EMM test case 9.2.3.2.10	9.0.1	9.1.0
2011-09	RAN#53	R5s110261	0647	-	Addition of GCF WI 82 EMM test case 9.2.3.2.12	9.0.1	9.1.0
2011-09	RAN#53	R5s110263	0640	-	Addition of GCF WI 81 EUTRA RRC test case 8.1.1.3	9.0.1	9.1.0
2011-09	RAN#53	R5s110265	0641	-	Addition of GCF WI 82 EMM test case 9.2.3.2.8	9.0.1	9.1.0
2011-09	RAN#53	R5s110267	0672	-	Addition of GCF WI 82 EMM test case 9.2.3.2.4	9.0.1	9.1.0
2011-09	RAN#53	R5s110269	0639	-	Addition of GCF WI 86 EUTRA EMM test case 9.2.3.2.11	9.0.1	9.1.0
2011-09	RAN#53	R5s110271	0671	-	Addition of GCF WI 82 EMM test case 9.2.3.2.2	9.0.1	9.1.0
2011-09	RAN#53	R5s110273	0638	-	Addition of GCF WI 81 EUTRA RRC test case 8.2.4.8	9.0.1	9.1.0
2011-09	RAN#53	R5s110275	0637	-	Correction to the ESM test case 10.4.1	9.0.1	9.1.0
2011-09	RAN#53	R5s110276	0636	-	Addition of GCF WI 81 EUTRA Idle mode test case 6.2.2.6	9.0.1	9.1.0
2011-09	RAN#53	R5s110278	0670	-	Miscellaneous corrections to inter-RAT LTE-UTRAN ATS	9.0.1	9.1.0
2011-09	RAN#53	R5s110279	0669	-	Regression CR for LTE wk15 ATS	9.0.1	9.1.0
2011-09	RAN#53	R5s110282	0635	-	Correction of GCF WI 81 EUTRA EMM test case 9.2.3.1.25	9.0.1	9.1.0
2011-09	RAN#53	R5s110285	0668	-	Addition of GCF WI 81 EUTRA RRC test case 8.1.2.13	9.0.1	9.1.0
2011-09	RAN#53	R5s110287	0667	-	Addition of GCF WI 81 EUTRA RRC test case 8.1.2.9	9.0.1	9.1.0
2011-09	RAN#53	R5s110289	0666	-	Addition of GCF WI 82 ESM test case 10.8.5	9.0.1	9.1.0

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2011-09	RAN#53	R5s110291	0665	-	Addition of GCF WI-081 E-UTRA Idle Mode test case 6.1.2.10	9.0.1	9.1.0
2011-09	RAN#53	R5s110293	0664	-	Addition of GCF WI-082 E-UTRA ESM testcase 10.7.5	9.0.1	9.1.0
2011-09	RAN#53	R5s110295	0658	-	Correction to EUTRA_ConfigurationSteps	9.0.1	9.1.0
2011-09	RAN#53	R5s110296	0657	-	Correction to EUTRA_Timing	9.0.1	9.1.0
2011-09	RAN#53	R5s110297	0656	-	Correction to EUTRA MAC test cases 7.1.6.x	9.0.1	9.1.0
2011-09	RAN#53	R5s110298	0663	-	LTE_TDD: Addition of GCF WI 91 EUTRA RRC test case 8.1.2.6	9.0.1	9.1.0
2011-09	RAN#53	R5s110300	0662	-	LTE_TDD: Addition of GCF WI 91 EUTRA RRC test case 8.1.2.13	9.0.1	9.1.0
2011-09	RAN#53	R5s110302	0661	-	LTE_TDD :Addition of GCF WI 91 EUTRA RRC test case 8.5.1.4	9.0.1	9.1.0
2011-09	RAN#53	R5s110303	0655	-	Correction to EUTRA PDCP test case 7.3.5.3	9.0.1	9.1.0
2011-09	RAN#53	R5s110306	0660	-	Correction to EUTRA Paging procedure	9.0.1	9.1.0
2011-09	RAN#53	R5s110307	0654	-	Correction to EMM test cases 9.2.1.1.1a, 9.2.2.1.1, 9.2.2.1.8, 9.2.3.2.11 and 9.3.1.16	9.0.1	9.1.0
2011-09	RAN#53	R5s110308	0653	-	Correction to EMM test cases 9.2.3.1.15 and 9.2.3.1.18	9.0.1	9.1.0
2011-09	RAN#53	R5s110309	0652	-	Improving LTE/SAE test cases by indicating the need for special Test USIM settings	9.0.1	9.1.0
2011-09	RAN#53	R5s110310	0678	-	Correction to EUTRA RRC test case 8.5.1.2	9.0.1	9.1.0
2011-09	RAN#53	R5s110311	0659	-	Addition of GCF WI-082 E-UTRA ESM testcase 10.8.6	9.0.1	9.1.0
2011-09	RAN#53	R5s110313	0651	-	Correction to GCF WI-082 ESM test cases 10.2.1. and 10.4.1	9.0.1	9.1.0
2011-09	RAN#53	R5s110314	0676	-	Modification of f_EUTRA_CellInfo_GetAntennaInfoCommon	9.0.1	9.1.0
2011-09	RAN#53	R5s110315	0677	-	Correction to EUTRA Idle Mode test case 6.2.3.4	9.0.1	9.1.0
2011-09	RAN#53	R5s110317	0675	-	Correction to EMM test case 9.2.3.1.16	9.0.1	9.1.0
2011-09	RAN#53	R5s110318	0681	-	Regression CR for LTE wk23 ATS	9.0.1	9.1.0
2011-09	RAN#53	R5s110319	0674	-	Correction to EUTRA test case 6.1.2.6	9.0.1	9.1.0
2011-09	RAN#53	R5s110320	0673	-	Addition of GCF WI 81 EUTRA DRB test case 12.3.1	9.0.1	9.1.0
2011-09	RAN#53	R5s110322	0692	-	Correction to GCF WI 86 RRC test case 8.1.3.6	9.0.1	9.1.0
2011-09	RAN#53	R5s110323	0691	-	Addition of GCF WI-081 E-UTRA IDLE MODE testcase 6.1.2.12	9.0.1	9.1.0
2011-09	RAN#53	R5s110325	0690	-	Addition of GCF WI-081 E-UTRA IDLE MODE testcase 6.1.2.14	9.0.1	9.1.0
2011-09	RAN#53	R5s110327	0689	-	Addition of GCF WI 81 EUTRA DRB test case 12.2.4	9.0.1	9.1.0
2011-09	RAN#53	R5s110329	0687	-	Correction to GCF WI 81 EUTRA RRC test case 8.3.1.7	9.0.1	9.1.0
2011-09	RAN#53	R5s110330	0688	-	Addition of GCF WI 81 EUTRA DRB test case 12.3.4	9.0.1	9.1.0
2011-09	RAN#53	R5s110336	0686	-	Addition of GCF WI 81 EUTRA DRB test case 12.3.2	9.0.1	9.1.0
2011-09	RAN#53	R5s110338	0685	-	Addition of GCF WI 81 EUTRA DRB test case 12.3.3	9.0.1	9.1.0
2011-09	RAN#53	R5s110340	0716	-	Regression CR for LTE wk23 ATS	9.0.1	9.1.0
2011-09	RAN#53	R5s110341	0684	-	Correction to configuration of EUTRA SIB scheduling	9.0.1	9.1.0
2011-09	RAN#53	R5s110342	0682	-	Correction to f_EUTRA_SS_SetupSchedulingInfo and f_EUTRA_IdleUpdated_Step5_14	9.0.1	9.1.0
2011-09	RAN#53	R5s110346	0683	-	Addition of GCF WI 82 EMM test case 9.2.3.2.17	9.0.1	9.1.0
2011-09	RAN#53	R5s110348	0715	-	Correction to EUTRA NAS cells initialization	9.0.1	9.1.0
2011-09	RAN#53	R5s110350	0680	-	Correction to GCF WI-081 RRC test case 8.5.4.1	9.0.1	9.1.0
2011-09	RAN#53	R5s110351	0679	-	Regression CR for LTE wk23 MRAT Testcases	9.0.1	9.1.0

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2011-09	RAN#53	R5s110352	0711	-	Correction to GCF WI 81 EUTRA RRC test case 8.3.3.1	9.0.1	9.1.0
2011-09	RAN#53	R5s110353	0710	-	Correction of frequencies used for LTE Band 6, 14, 17 and 38	9.0.1	9.1.0
2011-09	RAN#53	R5s110354	0709	-	Addition of GCF WI 81 EUTRA RRC test case 8.3.1.6	9.0.1	9.1.0
2011-09	RAN#53	R5s110356	0708	-	Correction to EUTRA RRC test cases 8.2.4.1, 8.2.4.4 and 8.2.4.7	9.0.1	9.1.0
2011-09	RAN#53	R5s110357	0707	-	LTE_TDD: Addition of GCF WI 91 EUTRA RRC test case 8.3.1.6	9.0.1	9.1.0
2011-09	RAN#53	R5s110359	0706	-	Addition of GCF WI 82 EMM test case 9.2.3.1.18	9.0.1	9.1.0
2011-09	RAN#53	R5s110361	0705	-	LTE_TDD: Addition of GCF WI 91 EUTRA RRC test case 8.2.4.8	9.0.1	9.1.0
2011-09	RAN#53	R5s110363	0704	-	Correction to GCF WI 86 EMM test cases 9.2.3.2.5, 9.2.3.2.6 and 9.2.3.2.7	9.0.1	9.1.0
2011-09	RAN#53	R5s110364	0703	-	Correction of GCF WI 82 EMM test cases 9.2.1.2.5,TC 9.2.1.2.6 and TC 9.2.1.2.7	9.0.1	9.1.0
2011-09	RAN#53	R5s110365	0702	-	Correction to GCF WI-082 ESM test cases 10.2.1 and 10.4.1	9.0.1	9.1.0
2011-09	RAN#53	R5s110368	0701	-	Correction to EMM test case 9.2.1.2.11	9.0.1	9.1.0
2011-09	RAN#53	R5s110369	0700	-	Addition of GCF WI 82 EMM test case 9.2.1.1.11	9.0.1	9.1.0
2011-09	RAN#53	R5s110371	0699	-	Addition of GCF WI 81 Idle Mode test case 6.2.1.2	9.0.1	9.1.0
2011-09	RAN#53	R5s110373	0698	-	Addition of GCF WI-082 E-UTRA ESM testcase 10.8.7	9.0.1	9.1.0
2011-09	RAN#53	R5s110375	0697	-	Addition of GCF WI-082 E-UTRA ESM testcase 10.8.4	9.0.1	9.1.0
2011-09	RAN#53	R5s110377	0696	-	Addition of GCF WI-087 EUTRA Idle mode InterRAT test case	9.0.1	9.1.0
2011-09	RAN#53	R5s110382	0695	-	6.2.2.7 Correction to EUTRA RRC test case 8.4.1.2	9.0.1	9.1.0
2011-09	RAN#53	R5s110383	0694	-	Correction of EUTRA RLC test case 7.2.3.9	9.0.1	9.1.0
2011-09	RAN#53	R5s110384	0693	-	Addition of GCF WI 82 EMM test case 9.2.3.1.17	9.0.1	9.1.0
2011-09	RAN#53	R5s110386	0714	-	Correction to UTRAN common modules in LTE ATS	9.0.1	9.1.0
2011-09	RAN#53	R5s110389	0713	-	Correction to GCF WI81 RLC test case 7.2.3.17	9.0.1	9.1.0
2011-09	RAN#53	R5s110394	0712	-	Correction of RLC and MAC test cases for TDD scheduling	9.0.1	9.1.0
2011-09	RAN#53	R5s110395	0732	-	Correction to EMM test cases	9.0.1	9.1.0
2011-09	RAN#53	R5s110396	0719	-	Correction to EUTRA RRC test case 8.5.1.2	9.0.1	9.1.0
2011-09	RAN#53	R5s110397	0726	-	LTE_TDD: Addition of GCF WI 81 EUTRA test case 6.1.2.12	9.0.1	9.1.0
2011-09	RAN#53	R5s110399	0725	-	LTE_TDD: Addition of GCF WI 81 EUTRA test case 6.1.2.14	9.0.1	9.1.0
2011-09	RAN#53	R5s110401	0724	-	LTE_TDD: Addition of GCF WI 81 EUTRA RRC test case 8.1.1.3	9.0.1	9.1.0
2011-09	RAN#53	R5s110403	0723	-	LTE_TDD: Addition of GCF WI 81 EUTRA RRC test case 8.1.1.4	9.0.1	9.1.0
2011-09	RAN#53	R5s110405	0722	-	LTE_TDD: Addition of GCF WI 81 EUTRA RRC test case 8.3.1.4	9.0.1	9.1.0
2011-09	RAN#53	R5s110407	0721	-	LTE_TDD: Addition of GCF WI 81 EUTRA RRC test case 8.1.2.8	9.0.1	9.1.0
2011-09	RAN#53	R5s110409	0720	-	LTE_TDD: Addition of GCF WI 81 E-UTRA DRB test case 12.2.4	9.0.1	9.1.0
2011-09	RAN#53	R5s110411	0717	-	Correction of MAC test cases 7.1.4.15 and 7.1.4.16 for TDD scheduling	9.0.1	9.1.0
2011-09	RAN#53	R5s110412	0718	-	LTE_TDD: Addition of GCF WI-091 E-UTRA RRC testcase 8.2.4.4	9.0.1	9.1.0
2011-09	RAN#53	R5s110414	0738	-	LTE_TDD: Addition of GCF WI 91 EUTRA MAC test case 7.1.5.2	9.0.1	9.1.0
2011-09	RAN#53	R5s110416	0737	-	LTE_TDD: Addition of GCF WI 91 EUTRA MAC test case 7.1.5.4	9.0.1	9.1.0
2011-09	RAN#53	R5s110418	0794	-	Correction to GCF WI-081 EUTRA PDCP test cases 7.3.4.1 and	9.0.1	9.1.0
2011-09	RAN#53	R5s110421	0736	-	7.3.4.2 Correction to GCF WI-086 /-087 EMM test case 9.2.1.2.15	9.0.1	9.1.0

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2011-09	RAN#53	R5s110422	0735	-	Correction to GCF WI-081 EUTRA MAC test case 7.1.5.x	9.0.1	9.1.0
2011-09	RAN#53	R5s110423	0734	-	Correction to GCF WI-082 EMM test case 9.2.1.2.2	9.0.1	9.1.0
2011-09	RAN#53	R5s110424	0733	-	Correction to GCF WI-082 EMM test case 9.2.3.1.26	9.0.1	9.1.0
2011-09	RAN#53	R5s110425	0731	-	Corrections required for IPv6	9.0.1	9.1.0
2011-09	RAN#53	R5s110426	0730	-	Correction to GCF WI 82 EMM test cases 9.2.3.1.9a and 9.2.3.1.23	9.0.1	9.1.0
2011-09	RAN#53	R5s110427	0729	-	Correction to EUTRA EMM test cases 9.4.1, 9.4.2, 9.4.3, 9.4.4, 9.1.3.2 and 9.2.1.1.1a	9.0.1	9.1.0
2011-09	RAN#53	R5s110428	0728	-	LTE_TDD: Addition of GCF WI 081 EUTRA Idle Mode test case 6.3.6	9.0.1	9.1.0
2011-09	RAN#53	R5s110430	0727	-	Correction to Multilayer test case 13.3.1.2	9.0.1	9.1.0
2011-09	RAN#53	R5s110431	0772	-	Correction to UTRAN Default Handling in LTE/SAE ATS	9.0.1	9.1.0
2011-09	RAN#53	R5s110432	0771	-	Correction to ESM testcase 10.7.5	9.0.1	9.1.0
2011-09	RAN#53	R5s110433	0770	-	Correction to LTE<>GERAN Testcases	9.0.1	9.1.0
2011-09	RAN#53	R5s110435	0788	-	Addition of GCF WI-086 E-UTRA RRC testcase 8.3.2.4	9.0.1	9.1.0
2011-09	RAN#53	R5s110437	0768	-	LTE_TDD: Addition of GCF WI-091 E-UTRA RRC testcase 8.3.1.11	9.0.1	9.1.0
2011-09	RAN#53	R5s110439	0769	-	Addition of GCF WI 82 EMM test case 9.1.5.1	9.0.1	9.1.0
2011-09	RAN#53	R5s110441	0762	-	Correction to GCF WI-081 EUTRA RRC test case 8.2.4.7	9.0.1	9.1.0
2011-09	RAN#53	R5s110443	0767	-	Correction to GCF WI 82 EMM test cases 9.3.1.4 and 9.3.1.5	9.0.1	9.1.0
2011-09	RAN#53	R5s110445	0760	-	Correction to GCF WI-085 Interband Testcase 6.1.2.5	9.0.1	9.1.0
2011-09	RAN#53	R5s110446	0765	-	Correction to GCF WI-082 EMM Testcase 9.2.3.1.4	9.0.1	9.1.0
2011-09	RAN#53	R5s110447	0764	-	Correction to GCF WI-081 RRC Testcase 8.1.3.5	9.0.1	9.1.0
2011-09	RAN#53	R5s110448	0783	-	Correction to GCF WI-082 EMM Testcases 9.2.1.2.10 and 9.2.3.1.26	9.0.1	9.1.0
2011-09	RAN#53	R5s110449	0763	-	Corrections required to support IPv6	9.0.1	9.1.0
2011-09	RAN#53	R5s110456	0766	-	Correction to GCF WI-081 EUTRA MAC test cases 7.1.3.9 and 7.1.4.12	9.0.1	9.1.0
2011-09	RAN#53	R5s110461	0761	-		9.0.1	9.1.0
2011-09	RAN#53	R5s110462	0759	-	Addition of GCF WI-082 EMM test case 9.2.3.3.5	9.0.1	9.1.0
2011-09	RAN#53	R5s110464	0758	-	Addition of GCF WI-081 EUTRA MAC test case 7.1.5.5	9.0.1	9.1.0
2011-09	RAN#53	R5s110465	0747	-	Correction to UTRAN PS RB Establishment	9.0.1	9.1.0
2011-09	RAN#53	R5s110466	0749	-	Corrections to UTRAN GMM Service Request	9.0.1	9.1.0
2011-09	RAN#53	R5s110468	0756	-	Correction to the Idle Mode test case 6.1.2.10	9.0.1	9.1.0
2011-09	RAN#53	R5s110469	0757	-	Addition of GCF WI-081 EUTRA RRC test case 8.2.1.6	9.0.1	9.1.0
2011-09	RAN#53	R5s110472	0755	-	Correction of EMM test cases 9.2.3.2.11, 9.2.1.1.13	9.0.1	9.1.0
2011-09	RAN#53	R5s110473	0754	-	Correction to EUTRA MAC test case 7.1.3.5	9.0.1	9.1.0
2011-09	RAN#53	R5s110474	0752	-	Correction to GCF WI-091 EUTRA RLC test cases	9.0.1	9.1.0
2011-09	RAN#53	R5s110475	0751	-	Improvement to EUTRA IRAT preamble	9.0.1	9.1.0
2011-09	RAN#53	R5s110476	0753	-	Correction to EMM test case 9.3.1.17	9.0.1	9.1.0
2011-09	RAN#53	R5s110478	0750	-	Correction to EMM test case 9.2.3.1.5	9.0.1	9.1.0
2011-09	RAN#53	R5s110481	0746	-	LTE_TDD: Addition of GCF WI 91 EUTRA DRB test case 12.3.1	9.0.1	9.1.0
2011-09	RAN#53	R5s110483	0745	-	LTE_TDD: Addition of GCF WI 91 EUTRA DRB test case 12.3.2	9.0.1	9.1.0

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2011-09	RAN#53	R5s110485	0744	-	LTE_TDD: Addition of GCF WI 91 EUTRA DRB test case 12.3.3	9.0.1	9.1.0
2011-09	RAN#53	R5s110487	0743	-	LTE_TDD: Addition of GCF WI 91 EUTRA DRB test case 12.3.4	9.0.1	9.1.0
2011-09	RAN#53	R5s110489	0748	-	Correction to AT command to initiate CS speech call	9.0.1	9.1.0
2011-09	RAN#53	R5s110491	0742	-	Correction of EUTRA Idle Mode test cases 6.1.2.10	9.0.1	9.1.0
2011-09	RAN#53	R5s110492	0793	-	Addition of GCF WI-088 EUTRA –HRPD InterRAT test case 8.1.3.9	9.0.1	9.1.0
2011-09	RAN#53	R5s110494	0792	-	Addition of GCF WI-088 EUTRA –HRPD InterRAT test case 6.2.2.3	9.0.1	9.1.0
2011-09	RAN#53	R5s110496	0791	-	Addition of GCF WI-088 EUTRA -HRPD InterRAT test case 6.2.3.8	9.0.1	9.1.0
2011-09	RAN#53	R5s110498	0775	-	Correction to GCF-WI-082 EMM test case 9.2.1.1.7	9.0.1	9.1.0
2011-09	RAN#53	R5s110499	0739	-	Correction to GCF WI-082 EUTRA Multi-Layer test case 13.3.1.2	9.0.1	9.1.0
2011-09	RAN#53	R5s110500	0741	-	Correction of GCF WI 82 ESM test cases 10.7.3 and 10.8.3	9.0.1	9.1.0
2011-09	RAN#53	R5s110505	0740	-	Addition of GCF WI 81 EUTRA RRC test case 8.2.4.12	9.0.1	9.1.0
2011-09	RAN#53	R5s110509	0786	-	Addition of GCF WI 81 EUTRA test case 6.1.1.2	9.0.1	9.1.0
2011-09	RAN#53	R5s110511	0785	-	Addition of GCF WI 81 EUTRA test case 6.1.1.4	9.0.1	9.1.0
2011-09	RAN#53	R5s110513	0782	-	Addition of GCF WI-081 E-UTRA MAC testcase 7.1.5.1	9.0.1	9.1.0
2011-09	RAN#53	R5s110515	0784	-	Correction to WI-086 EUTRA Idle Mode Testcase 6.2.3.4	9.0.1	9.1.0
2011-09	RAN#53	R5s110516	0781	-	Regression TTCN CR for IWD_wk27 ATS	9.0.1	9.1.0
2011-09	RAN#53	R5s110517	0780	-	Correction to GCF WI-082 'SMS over SGs' test cases 11.1.x	9.0.1	9.1.0
2011-09	RAN#53	R5s110518	0779	-	Correction to GCF WI-082 EMM test case 9.2.3.1.17	9.0.1	9.1.0
2011-09	RAN#53	R5s110519	0789	-	Addition of GCF WI-086 E-UTRA Idle Mode testcase 6.2.3.13	9.0.1	9.1.0
2011-09	RAN#53	R5s110521	0774	-	Correction to GCF WI-082 EMM test case 9.2.1.2.1	9.0.1	9.1.0
2011-09	RAN#53	R5s110526	0778	-	Correction to EUTRA RLC test case 7.2.3.16	9.0.1	9.1.0
2011-09	RAN#53	R5s110527	0773	-	Correction to GCF WI-082 EMM test case 9.2.1.1.1a	9.0.1	9.1.0
2011-09	RAN#53	R5s110528	0790	-	Addition of GCF WI 81 EUTRA Test Case 6.1.1.3	9.0.1	9.1.0
2011-09	RAN#53	R5s110530	0776	-	Addition of GCF WI-081 E-UTRA RRC testcase 8.2.1.5	9.0.1	9.1.0
2011-09	RAN#53	R5s110532	0777	-	LTE_TDD: Addition of GCF WI 91 EUTRA RRC test case 8.2.4.12	9.0.1	9.1.0
2011-09	RAN#53	R5s110534	0787	-	LTE_TDD: Addition of GCF WI 91 EUTRA RRC test case 8.2.1.6	9.0.1	9.1.0
2011-09	RAN#53	R5s110546	0795	-	Correction to GCF WI-082 EMM test case 9.2.1.1.24	9.0.1	9.1.0
2011-09	RAN#53	R5s110551	0796	-	Correction to EMM test case 9.2.1.2.3	9.0.1	9.1.0
2011-09	RAN#53	R5s110552	0798	-	Correction to EUTRA MAC test case 7.1.6.1 and 7.1.6.2	9.0.1	9.1.0
2011-09	RAN#53	R5s110553	0797	-	LTE_TDD: Addition of GCF WI-091 EUTRA MAC testcase 7.1.5.1	9.0.1	9.1.0
2011-12	RAN#54	R5-115770	0799	-	Routine maintenance and updates for EUTRA test model	9.1.0	9.2.0
2011-12	RAN#54	RP-111588	0800	-	CR to 36.523-3: Add new verified and e-mail agreed TTCN test	9.1.0	9.2.0
2011-12	RAN#54	R5s110549	0801	-	cases in the TC lists in 36.523-3 (prose), Annex A Addition of GCF WI 82 EMM test case 9.3.1.6	9.1.0	9.2.0
2011-12	RAN#54	R5s110547	0802	-	Addition of GCF WI 86 EUTRA Idle Mode test case 6.2.2.5	9.1.0	9.2.0
2011-12	RAN#54	R5s110575	0803	-	Correction to GCF WI-087 Idle Mode Testcases 6.2.2.6	9.1.0	9.2.0
2011-12	RAN#54	R5s110573	0804	-	Addition of GCF WI-081 E-UTRA MAC testcase 7.1.5.3	9.1.0	9.2.0
2011-12	RAN#54	R5s110571	0805	-	Correction to EUTRA MAC test case 7.1.5.4	9.1.0	9.2.0

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2011-12	RAN#54	R5s110570	0806	-	Correction to AT commands	9.1.0	9.2.0
2011-12	RAN#54	R5s110569	0807	-	Correction to GCF WI-086 EMM Testcases 9.2.1.2.11	9.1.0	9.2.0
2011-12	RAN#54	R5s110568	0808	-	Correction to GCF WI-082 EMM Testcases 9.2.3.1.17	9.1.0	9.2.0
2011-12	RAN#54	R5s110566	0809	-	Addition of GCF WI82 EMM test case 9.2.3.1.22	9.1.0	9.2.0
2011-12	RAN#54	R5s110565	0810	-	Correction to GCF WI-081 RRC test case 8.5.4.1	9.1.0	9.2.0
2011-12	RAN#54	R5s110444	0811	-	Correction to GCF WI-081 EUTRA RRC Testcase 8.2.4.7	9.1.0	9.2.0
2011-12	RAN#54	R5s110563	0812	-	Correction to GCF WI-086 EUTRA RRC Testcase 8.4.1.2	9.1.0	9.2.0
2011-12	RAN#54	R5s110561	0813	-	Addition of GCF WI 82 EMM Test Case 9.2.1.2.12	9.1.0	9.2.0
2011-12	RAN#54	R5s110560	0814	-	Correction to GCF WI-081 EUTRA RRC test case 8.2.4.7	9.1.0	9.2.0
2011-12	RAN#54	R5s110558	0815	-	Correction to GCF WI-091 EUTRA MAC test cases 7.1.4.15 +	9.1.0	9.2.0
2011-12	RAN#54	R5s110556	0816	-	7.1.4.16 and RLC test case 7.2.3.15 Addition of GCF WI 81 EUTRA Test Case 6.1.1.6	9.1.0	9.2.0
2011-12	RAN#54	R5s110559	0817	-	Correction to GCF WI-081 EUTRA RRC Testcase 8.2.4.12	9.1.0	9.2.0
2011-12	RAN#54	R5s110555	0818	-	Correction of GCF WI 91 RLC test case 7.2.3.17	9.1.0	9.2.0
2011-12	RAN#54	R5s110587	0819	-	Correction to EMM test case 9.2.1.1.20	9.1.0	9.2.0
2011-12	RAN#54	R5s110580	0820	-	Addition of GCF WI 86 Multilayer Test Case 13.1.2	9.1.0	9.2.0
2011-12	RAN#54	R5s110588	0821	-	Correction to GCF WI-086 Idle Mode Testcases 6.2.3.13	9.1.0	9.2.0
2011-12	RAN#54	R5s110584	0822	-	Correction to EMM test case 9.1.5.1	9.1.0	9.2.0
2011-12	RAN#54	R5s110585	0823	-	Addition of GCF WI-081 E-UTRA MAC testcase 7.1.7.1.6	9.1.0	9.2.0
2011-12	RAN#54	R5s110582	0824	-	Addition of GCF WI-081 E-UTRA MAC testcase 7.1.7.1.5	9.1.0	9.2.0
2011-12	RAN#54	R5s110572	0825	-	Correction of DRB test cases 12.3.1,12.3.2,12.3.3,12.3.4	9.1.0	9.2.0
2011-12	RAN#54	R5s110576	0826	-	Correction to GCF WI-081 EUTRA MAC test case 7.1.3.9	9.1.0	9.2.0
2011-12	RAN#54	R5s110598	0827	-	Addition of GCF WI-086 EUTRA RRC test case 8.3.3.2	9.1.0	9.2.0
2011-12	RAN#54	R5s110603	0828	-	Corrections to the IP component	9.1.0	9.2.0
2011-12	RAN#54	R5s110593	0829	-	Regression CR for LTE wk37 ATS	9.1.0	9.2.0
2011-12	RAN#54	R5s110604	0830	-	Addition of GCF WI-082 ESM test case 10.9.1	9.1.0	9.2.0
2011-12	RAN#54	R5s110634	0831	-	Correction to GCF WI 82 ESM test case 10.3.1	9.1.0	9.2.0
2011-12	RAN#54	R5s110633	0832	-	Correction to function f_UT_ManualPLMN_Select	9.1.0	9.2.0
2011-12	RAN#54	R5s110632	0833	-	Correction to EMM test cases	9.1.0	9.2.0
2011-12	RAN#54	R5s110631	0834	-	Correction to GCF WI-082 Idle Mode Testcases 9.3.2.2 and	9.1.0	9.2.0
2011-12	RAN#54	R5s110623	0835	-	9.3.2.2a Correction to GCF WI-081 E-UTRA MIMO DRB Test Case	9.1.0	9.2.0
2011-12	RAN#54	R5s110610	0836	-	Testcases 12.3.1, 12.3.2, 12.3.3 and 12.3.4 LTE_TDD: Addition of GCF WI-095 EUTRA RRC test case 8.2.4.9	9.1.0	9.2.0
2011-12	RAN#54	R5s110608	0837	-	LTE_TDD: Addition of GCF WI-095 EUTRA Idle Mode test case	9.1.0	9.2.0
2011-12	RAN#54	R5s110621	0838	-	6.1.2.5 LTE_TDD: Addition of GCF WI-091 EUTRA MAC testcase 7.1.5.5	9.1.0	9.2.0
2011-12	RAN#54	R5s110619	0839	-	LTE_TDD: Addition of GCF WI-091 EUTRA MAC testcase 7.1.5.3	9.1.0	9.2.0
2011-12	RAN#54	R5s110607	0840	-	Correction to GCF WI-86 EMM test case 9.2.3.3.5	9.1.0	9.2.0
2011-12	RAN#54	R5s110618	0841	-	Correction to LTE wk37 ATS	9.1.0	9.2.0
2011-12	RAN#54	R5s110616	0842	-	LTE_TDD: Addition of GCF WI-091 EUTRA Idle mode testcase 6.1.2.10	9.1.0	9.2.0

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2011-12	RAN#54	R5s110614	0843	-	LTE_TDD: Addition of GCF WI-091 EUTRA MAC testcase 7.1.7.1.6	9.1.0	9.2.0
2011-12	RAN#54	R5s110612	0844	-	LTE_TDD: Addition of GCF WI-091 EUTRA MAC testcase 7.1.7.1.5	9.1.0	9.2.0
2011-12	RAN#54	R5s110596	0845	-	Regression CR for LTE IWD_wk37	9.1.0	9.2.0
2011-12	RAN#54	R5s110594	0846	-	Addition of GCF WI-082 E-UTRA EMM testcase 9.2.3.2.1a	9.1.0	9.2.0
2011-12	RAN#54	R5s110591	0847	-	LTE_TDD: Addition of GCF WI 97 EUTRA Idle mode test case 6.2.2.7	9.1.0	9.2.0
2011-12	RAN#54	R5s110589	0848	-	LTE_TDD: Addition of GCF WI 97 EUTRA RRC test case 8.1.3.8	9.1.0	9.2.0
2011-12	RAN#54	R5s110577	0849	-	Correction to EMM test case 9.2.3.2.3	9.1.0	9.2.0
2011-12	RAN#54	R5s110643	0850	-	Addition of GCF WI 82 EMM test case 9.2.2.1.4	9.1.0	9.2.0
2011-12	RAN#54	R5s110641	0851	-	Correction to EMM test case 9.2.3.1.17	9.1.0	9.2.0
2011-12	RAN#54	R5s110639	0852	-	Addition of GCF WI 81 EUTRA MAC test case 7.1.4.14	9.1.0	9.2.0
2011-12	RAN#54	R5s110637	0853	-	Addition of GCF WI 82 EMM test case 9.3.1.12a	9.1.0	9.2.0
2011-12	RAN#54	R5s110636	0854	-	Correction of GCF WI81 EUTRA Idle Mode in test case 6.1.1.3	9.1.0	9.2.0
2011-12	RAN#54	R5s110600	0855	-	Addition of GCF WI-088 EUTRA –1xRTT InterRAT test case 6.2.2.4	9.1.0	9.2.0
2011-12	RAN#54	R5s110658	0856	-		9.1.0	9.2.0
2011-12	RAN#54	R5s110657	0857	-		9.1.0	9.2.0
2011-12	RAN#54	R5s110655	0858	-	Addition of GCF WI-086 EUTRA-UTRA Idle Mode test case 6.2.3.32	9.1.0	9.2.0
2011-12	RAN#54	R5s110653	0859	-	Addition of GCF WI-086 EUTRA-UTRA Idle Mode test case 6.2.3.31	9.1.0	9.2.0
2011-12	RAN#54	R5s110651	0860	-		9.1.0	9.2.0
2011-12	RAN#54	R5s110649	0861	-	Addition of GCF WI-086 E-UTRA EMM testcase 9.2.3.2.14	9.1.0	9.2.0
2011-12	RAN#54	R5s110647	0862	-	Addition of GCF WI-086 E-UTRA EMM testcase 9.2.2.1.10	9.1.0	9.2.0
2011-12	RAN#54	R5s110666	0863	-	Correction to GCF WI-081 EUTRA MAC Testcase 7.1.4.14	9.1.0	9.2.0
2011-12	RAN#54	R5s110602	0864	-	Removal of SRB0 from SS SRB / DRB handling functions	9.1.0	9.2.0
2011-12	RAN#54	R5s110659	0865	-	Correction to GCF WI-081 EUTRA RAB test cases 12.3.x	9.1.0	9.2.0
2011-12	RAN#54	R5s110682	0866	-	Correction to Type Def. in LTE/SAE ATS	9.1.0	9.2.0
2011-12	RAN#54	R5s110680	0867	-	LTE_TDD: Addition of GCF WI-091 EUTRA Idle mode testcase 6.1.1.3	9.1.0	9.2.0
2011-12	RAN#54	R5s110678	0868	-	LTE_TDD: Addition of GCF WI-091 EUTRA Idle mode testcase 6.1.1.4	9.1.0	9.2.0
2011-12	RAN#54	R5s110676	0869	-	LTE_TDD: Addition of GCF WI-091 EUTRA Idle mode testcase 6.1.1.2	9.1.0	9.2.0
2011-12	RAN#54	R5s110675	0870	-	Corrections to GCF WI82 ESM test case 10.5.3	9.1.0	9.2.0
2011-12	RAN#54	R5s110674	0871	-	Correction to GCF WI-081 EUTRA RRC Testcase 8.1.2.13	9.1.0	9.2.0
2011-12	RAN#54	R5s110673	0872	-	Corrections to GCF WI82 ESM test case 10.3.1	9.1.0	9.2.0
2011-12	RAN#54	R5s110645	0873	-	Corrections to GCF WI82 ESM test case 10.9.1	9.1.0	9.2.0
2011-12	RAN#54	R5s110646	0874	-	Correction to GCF WI81 Idle Mode test case 6.1.2.14	9.1.0	9.2.0
2011-12	RAN#54	R5s110688	0875	-	Correction to EMM test case 9.2.3.1.1	9.1.0	9.2.0
2011-12	RAN#54	R5s110685	0876	-	Correction required to EMM test case 9.2.3.2.1a	9.1.0	9.2.0
2011-12	RAN#54	R5s110695	0877	-	Correction to Multi-Layer test case 13.1.2	9.1.0	9.2.0
2011-12	RAN#54	R5s110697	0878	-	Correction to EUTRA MAC test case 7.1.7.1.5 and 7.1.7.1.6	9.1.0	9.2.0
2011-12	RAN#54	R5s110694	0879	-	Correction to EMM test case 9.2.2.1.3	9.1.0	9.2.0

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2011-12	RAN#54	R5s110687	0880	-	Correction to GCF WI-081 EUTRA MAC test case 7.1.3.9	9.1.0	9.2.0
2011-12	RAN#54	R5s110690	0881	-	Addition of GCF WI-086 EUTRA-UTRA Idle Mode test case 6.2.1.3	9.1.0	9.2.0
2011-12	RAN#54	R5s110696	0882	-	Correction to Idle mode test case 6.2.2.6	9.1.0	9.2.0
2011-12	RAN#54	R5s110699	0883	-	Addition of GCF WI-087 EUTRA RRC test case 8.3.3.3	9.1.0	9.2.0
2011-12	RAN#54	R5s110702	0884	-	Correction to EMM test case 9.3.1.6	9.1.0	9.2.0
2011-12	RAN#54	R5s110701	0885	-	Correction to EMM test case 9.3.1.17	9.1.0	9.2.0
2011-12	RAN#54	R5s110698	0886	-	Correction to EUTRA MAC test cases 7.1.6.1 and 7.1.6.2	9.1.0	9.2.0
2011-12	RAN#54	R5s110705	0887	-	Correction to EMM test case 9.2.3.2.14	9.1.0	9.2.0
2011-12	RAN#54	R5s110683	0888	-	Addition of GCF WI-086 EUTRA-UTRA (HSPA) RRC test case 8.4.1.4	9.1.0	9.2.0
2011-12	RAN#54	R5s110710	0889	-	Correction to EMM test case 9.2.1.1.24	9.1.0	9.2.0
2011-12	RAN#54	R5s110709	0890	-	Correction to EUTRA MAC test cases 7.1.7.1.1, 7.1.7.1.2, 7.1.7.1.3, 7.1.7.1.4, 7.1.7.1.5, 7.1.7.1.6 and 7.1.7.2.1 for LTE band 25	9.1.0	9.2.0
2011-12	RAN#54	R5s110708	0891	-	Correction to EUTRA RRC test case 8.1.2.8	9.1.0	9.2.0
2011-12	RAN#54	R5s110707	0892	-	Correction to RRC test case 8.2.4.8	9.1.0	9.2.0
2011-12	RAN#54	R5s110706	0893	-	Correction to MAC test case 7.1.2.3	9.1.0	9.2.0
2011-12	RAN#54	R5s110692	0894	-	Correction to EMM test cases 9.2.1.1.20 and 9.2.1.1.26	9.1.0	9.2.0
2011-12	RAN#54	R5s110693	0895	-	Correction to MAC test case 7.1.4.5	9.1.0	9.2.0
2011-12	RAN#54	R5s110718	0896	-	Addition of GCF WI-086 E-UTRA EMM testcase 9.2.3.2.13	9.1.0	9.2.0
2011-12	RAN#54	R5s110724	0898	-	Addition of GCF WI 88 EUTRA test case 8.3.2.6	9.1.0	9.2.0
2011-12	RAN#54	R5s110721	0899	-	Addition of GCF WI 87 EUTRA test case 8.3.2.1	9.1.0	9.2.0
2011-12	RAN#54	R5s110720	0900	-	Correction of LTE GERAN test cases	9.1.0	9.2.0
2012-03	RAN#55	R5-120721	0901	-	Routine maintenance and updates for EUTRA test model	9.2.0	9.3.0
2012-03	RAN#55	R5s110667	0971	-	Addition of GCF WI-081 E-UTRA ETWS testcase 14.1	9.2.0	9.3.0
2012-03	RAN#55	R5s110726	0970	-	Addition of GCF WI 86 EMM Test Case 9.2.3.3.1	9.2.0	9.3.0
2012-03	RAN#55	R5s110731	0960	-	Correction to GCF WI-082 EMM test case 9.2.2.1.6	9.2.0	9.3.0
2012-03	RAN#55	R5s110737	0968	-	Correction to EMM test case 9.2.2.1.6	9.2.0	9.3.0
2012-03	RAN#55	R5s110738	0969	-	Correction to EUTRA RRC test case 8.3.3.2	9.2.0	9.3.0
2012-03	RAN#55	R5s110739	0967	-	Correction to EUTRA MAC TBS test cases	9.2.0	9.3.0
2012-03	RAN#55	R5s110740	0966	-	Correction to EUTRA MAC test cases	9.2.0	9.3.0
2012-03	RAN#55	R5s110741	0965	-	Correction to GCF WI-088 Inter-RAT cell selection test cases 6.2.2.3 & 6.2.2.4	9.2.0	9.3.0
2012-03	RAN#55	R5s110742	0978	-	Types mismatch in f_UTRAN_CellInfo_GetNMO	9.2.0	9.3.0
2012-03	RAN#55	R5s110743	0974	-	Correction to EUTRA test cases to configure measurement gaps	9.2.0	9.3.0
2012-03	RAN#55	R5s110744	0964	-	Correction to EMM test cases	9.2.0	9.3.0
2012-03	RAN#55	R5s110746	0963	-	Correction to EUTRA RRC test cases 8.2.1.5 and 8.2.1.6	9.2.0	9.3.0
2012-03	RAN#55	R5s110747	0962	-	Addition of GCF WI 86,87 EUTRA test case 9.2.1.2.1b	9.2.0	9.3.0
2012-03	RAN#55	R5s110749	0977	-	Modification of template cas_RL_Modify_DPCHInfo_FDD	9.2.0	9.3.0
2012-03	RAN#55	R5s110750	0973	-	Correction to SMS over SG test cases 11.1.1 and 11.1.2	9.2.0	9.3.0

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2012-03	RAN#55	R5s110751	0972	-	Correction to SMS over SG test cases 11.1.3 and 11.1.4	9.2.0	9.3.0
2012-03	RAN#55	R5s110752	0976	-	Correction to f_UTRAN_RB_SetUp	9.2.0	9.3.0
2012-03	RAN#55	R5s110753	0913	-	Correction to calls to	9.2.0	9.3.0
2012-03	RAN#55	R5s110754	0975	-	f_EUTRA_SetSIB6_InterFreqCarrierFreqList_F8 Correction to GCF WI-086 Inter-RAT Handover testcases 8.4.1.2 &	9.2.0	9.3.0
2012-03	RAN#55	R5s110757	0914	-	8.4.1.4 Correction to f_EUTRA_TAU_Check	9.2.0	9.3.0
2012-03	RAN#55	R5s110759	0912	-	Addition of GCF WI 81 EUTRA test case 14.2	9.2.0	9.3.0
2012-03	RAN#55	R5s110761	0961	-	Addition of GCF WI 81 EUTRA test case 14.1	9.2.0	9.3.0
2012-03	RAN#55	R5s110763	0911	-	Addition of GCF WI87 EUTRA Idle Mode test case 6.2.3.1	9.2.0	9.3.0
2012-03	RAN#55	R5s110765	0910	-	Addition of EUTRA test case 8.3.1.9a	9.2.0	9.3.0
2012-03	RAN#55	R5s110767	0909	-	Addition of EUTRA test case 8.3.1.11a	9.2.0	9.3.0
2012-03	RAN#55	R5s110771	0908	-	Correction to UTRA RRC establishment cause and check of UTRA QoS params	9.2.0	9.3.0
2012-03	RAN#55	R5s110773	0907	-	Corrections to IPv6	9.2.0	9.3.0
2012-03	RAN#55	R5s110776	0924	-	Correction to LTE wk49 ATS	9.2.0	9.3.0
2012-03	RAN#55	R5s110777	0905	-	Regression CR for EUTRA EMM Testcases for D11wk49 ATS	9.2.0	9.3.0
2012-03	RAN#55	R5s110778	0906	-	Correction to GCF WI-082 EUTRA ESM Testcases 10.8.5, 10.8.6, 10.9.1	9.2.0	9.3.0
2012-03	RAN#55	R5s110779	0904	-	Correction to GCF WI-086 EUTRA Idle Mode Testcases 6.2.3.31	9.2.0	9.3.0
2012-03	RAN#55	R5s110782	0934	-	Correction to UTRAN SIB segmentation	9.2.0	9.3.0
2012-03	RAN#55	R5s110783	0933	-	Correction to GCF WI-081 EUTRA Idle Mode Testcase 6.1.2.13	9.2.0	9.3.0
2012-03	RAN#55	R5s110785	0903	-	Correction to GCF WI-081 RLC test cases 7.2.3.10 and 7.2.3.13	9.2.0	9.3.0
2012-03	RAN#55	R5s110787	0932	-	Correction to GCF WI-086 EUTRA Multi Layer Testcase 13.1.2	9.2.0	9.3.0
2012-03	RAN#55	R5s110788	0931	-	Correction to GCF WI-086 EUTRA RRC Testcase 8.4.1.4 and 8.4.12	9.2.0	9.3.0
2012-03	RAN#55	R5s110789	0930	-	Correction to GCF WI-082 EUTRA EMM Testcase 9.2.3.1.26	9.2.0	9.3.0
2012-03	RAN#55	R5s110790	0929	-	Correction to GCF WI-081 EUTRA RRC Testcase 8.3.1.7	9.2.0	9.3.0
2012-03	RAN#55	R5s110791	0928	-	Addition of GCF WI-086 E-UTRA EMM testcase 9.2.3.1.6	9.2.0	9.3.0
2012-03	RAN#55	R5s110801	0927	-	Addition of GCF WI-086 E-UTRA EMM testcase 9.2.3.3.4	9.2.0	9.3.0
2012-03	RAN#55	R5s120002	0926	-	Correction to function fl_RequestPDPContext	9.2.0	9.3.0
2012-03	RAN#55	R5s120003	0925	-	Correction to GCF WI-081 testcase 8.3.1.7	9.2.0	9.3.0
2012-03	RAN#55	R5s120006	0923	-	Correction to GCF WI-086 EUTRA RRC Testcase 8.3.3.2	9.2.0	9.3.0
2012-03	RAN#55	R5s120007	0948	-	LTE_TDD: Addition of GCF WI-091 EUTRA RRC testcase 8.2.1.5	9.2.0	9.3.0
2012-03	RAN#55	R5s120009	0947	-	Addition of GCF WI 81 EUTRA MAC test case 7.1.4.7a	9.2.0	9.3.0
2012-03	RAN#55	R5s120011	0946	-	LTE_TDD: Addition of GCF WI-091 EUTRA MAC testcase 7.1.4.7a	9.2.0	9.3.0
2012-03	RAN#55	R5s120013	0945	-	Addition of GCF WI 82 EMM Test Case 9.2.1.1.18	9.2.0	9.3.0
2012-03	RAN#55	R5s120016	0922	-	Addition of GCF WI87 EUTRA Idle Mode test case 6.2.3.14	9.2.0	9.3.0
2012-03	RAN#55	R5s120019	0921	-	Correction to EUTRA Idle Mode test case 6.2.1.3	9.2.0	9.3.0
2012-03	RAN#55	R5s120020	0920	-	Correction to EUTRA Idle Mode test case 6.1.2.13	9.2.0	9.3.0
2012-03	RAN#55	R5s120021	0919	-	Correction to EUTRA RRC test case 8.3.2.6	9.2.0	9.3.0
2012-03	RAN#55	R5s120022	0918	-	Correction to EMM test cases 9.2.2.2.2 and 9.3.2.2a	9.2.0	9.3.0

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2012-03	RAN#55	R5s120023	0917	-	Correction to MAC test case 7.1.4.12	9.2.0	9.3.0
2012-03	RAN#55	R5s120024	0915	-	Correction to EUTRA RRC test cases 8.2.1.5	9.2.0	9.3.0
2012-03	RAN#55	R5s120025	0916	-	Addition of GCF WI-087 E-UTRA PLMN Selection testcase 6.2.1.4	9.2.0	9.3.0
2012-03	RAN#55	R5s120027	0944	-	Addition of GCF WI87 EUTRA Idle Mode test case 6.2.1.6	9.2.0	9.3.0
2012-03	RAN#55	R5s120029	0943	-	Addition of GCF WI-088 EUTRA-1xRTT test case 6.2.3.10	9.2.0	9.3.0
2012-03	RAN#55	R5s120033	0942	-	Correction to EUTRA RRC test cases 8.3.1.11	9.2.0	9.3.0
2012-03	RAN#55	R5s120034	0941	-	Correction to EMM test case 9.2.3.1.4	9.2.0	9.3.0
2012-03	RAN#55	R5s120035	0940	-	Correction to RLC test case 7.2.3.8 and MAC test case 7.1.7.2.1	9.2.0	9.3.0
2012-03	RAN#55	R5s120036	0939	-	Correction to GCF WI-081 EUTRA RRC Testcase 8.2.4.4	9.2.0	9.3.0
2012-03	RAN#55	R5s120037	0982	-	Addition of GCF WI-081 EUTRA MAC test case 7.1.8.1	9.2.0	9.3.0
2012-03	RAN#55	R5s120039	0938	-	Correction to EUTRA test cases 8.3.1.9 and 8.3.1.10	9.2.0	9.3.0
2012-03	RAN#55	R5s120040	0937	-	Correction to EUTRA MAC test cases 7.1.7.2.1, 7.1.6.1 and 7.1.6.2	9.2.0	9.3.0
2012-03	RAN#55	R5s120048	0936	-	Correction to EUTRA RRC test cases 8.3.3.2 and 8.3.3.3	9.2.0	9.3.0
2012-03	RAN#55	R5s120049	0935	-	Correction to GCF WI-086 Multi-Layer test case 13.1.2	9.2.0	9.3.0
2012-03	RAN#55	R5s120050	0953	-	Correction to GERAN modules in LTE ATS_wk49	9.2.0	9.3.0
2012-03	RAN#55	R5s120051	0952	-	Correction to GCF WI-088 EUTRA-HRPD test case 6.2.2.3	9.2.0	9.3.0
2012-03	RAN#55	R5s120052	0951	-	Correction to EUTRA_Measurement_Specific_Templates in LTE ATS wk49	9.2.0	9.3.0
2012-03	RAN#55	R5s120053	0954	-	Correction to GCF WI-081 EUTRA RRC Testcase 9.2.3.1.16	9.2.0	9.3.0
2012-03	RAN#55	R5s120054	0955	-	Addition of GCF WI 81 EUTRA MAC test case 7.1.3.2	9.2.0	9.3.0
2012-03	RAN#55	R5s120056	0950	-	Correction to TLLI deletion at GPRS detach	9.2.0	9.3.0
2012-03	RAN#55	R5s120057	0949	-	Correction to GCF WI-085 Interband test case 6.1.2.5 and 8.2.4.9	9.2.0	9.3.0
2012-03	RAN#55	R5s120059	0981	-	LTE_TDD Addition of GCF WI-091 EUTRA MAC test case 7.1.8.1	9.2.0	9.3.0
2012-03	RAN#55	R5s120061	0958	-	Correction to GCF WI-082 EUTRA NAS test case 9.2.1.1.7	9.2.0	9.3.0
2012-03	RAN#55	R5s120062	0957	-	Correction to GCF WI-081 EUTRA RRC test cases 8.5.1.2 and 8.5.1.4	9.2.0	9.3.0
2012-03	RAN#55	R5s120065	0956	-	Correction to EUTRA Idle Mode test cases 6.1.1.3, 6.1.2.7	9.2.0	9.3.0
2012-03	RAN#55	R5s120067	0959	-	Correction to EMM testcase 9.2.3.3.4	9.2.0	9.3.0
2012-03	RAN#55	R5s120068	0990	-	Addition of GCF WI-086 UTRAN-EUTRA RRC test case 8.1.3.7	9.2.0	9.3.0
2012-03	RAN#55	R5s120070	0989	-	Addition of GCF WI-086 UTRAN-EUTRA Multi-Layer test case 13.1.4	9.2.0	9.3.0
2012-03	RAN#55	R5s120072	0979	-	Correction to EMM testcase 9.2.1.2.1b	9.2.0	9.3.0
2012-03	RAN#55	R5s120073	0980	-	Correction to EutraBand_Type	9.2.0	9.3.0
2012-03	RAN#55	R5s120074	0983	-	Addition of GCF WI-088 EUTRA-1xRTT RRC test case 8.1.3.10	9.2.0	9.3.0
2012-03	RAN#55	R5s120076	0987	-	Correction to ICMPv6 template in LTE/SAE ATS_12wk05	9.2.0	9.3.0
2012-03	RAN#55	R5s120077	0984	-	Correction to EMM testcases 9.2.3.1.17 and 9.2.3.1.19	9.2.0	9.3.0
2012-03	RAN#55	R5s120078	0988	-	Correction to EUTRA Idle Mode test case 6.1.1.2	9.2.0	9.3.0
2012-03	RAN#55	R5s120079	0986	-	Correction to GCF WI-082 EMM test case 9.2.1.2.3	9.2.0	9.3.0
2012-03	RAN#55	R5s120080	0985	-	Correction to GCF WI-082 ESM test case 10.8.7	9.2.0	9.3.0
2012-03	RAN#55	RP-120188	0902	-	CR to 36.523-3: Add new verified and e-mail agreed TTCN test cases in the TC lists in 36.523-3 (prose), Annex A	9.2.0	9.3.0

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2012-06	RAN#56	R5-121777	0991	-	Update of Timing parameters of E-UTRAN TDD cells	9.3.0	9.4.0
2012-06	RAN#56	R5s120082	1156	-	Correction to EUTRA RRC test case 8.3.2.6	9.3.0	9.4.0
2012-06	RAN#56	R5s120083	1155	-	Correction to EUTRA MAC testcase 7.1.4.14	9.3.0	9.4.0
2012-06	RAN#56	R5s120084	1154	-	Correction to EMM testcase 9.2.1.1.25	9.3.0	9.4.0
2012-06	RAN#56	R5s120086	1153	-	Addition of GCF WI 86 Multilayer test case 13.1.15	9.3.0	9.4.0
2012-06	RAN#56	R5s120088	1152	-	Correction to EUTRA MAC test cases 7.1.4.7a	9.3.0	9.4.0
2012-06	RAN#56	R5s120089	1150	-	Correction to EMM testcase 9.2.3.1.23	9.3.0	9.4.0
2012-06	RAN#56	R5s120090	1149	-	Correction to EUTRA Idle mode test case 6.2.3.14	9.3.0	9.4.0
2012-06	RAN#56	R5s120091	1151	-	Correction to EUTRA Idle mode test case 6.2.3.1	9.3.0	9.4.0
2012-06	RAN#56	R5s120095	1148	-	Correction to EUTRA testcases	9.3.0	9.4.0
2012-06	RAN#56	R5s120096	1147	-	Correction to EMM test case 9.2.3.2.17	9.3.0	9.4.0
2012-06	RAN#56	R5s120097	1146	-	Correction to LTE IRAT test cases	9.3.0	9.4.0
2012-06	RAN#56	R5s120098	1145	-	Correction to UTRAN Component in LTE ATS_12wk05	9.3.0	9.4.0
2012-06	RAN#56	R5s120099	1142	-	Correction to EUTRA Test Case 8.2.1.5 and 8.2.1.6	9.3.0	9.4.0
2012-06	RAN#56	R5s120100	1143	-	Correction to EUTRA EMM test case 9.2.1.2.11	9.3.0	9.4.0
2012-06	RAN#56	R5s120101	1144	-	Correction to DCI2 configuration	9.3.0	9.4.0
2012-06	RAN#56	R5s120102	1141	-	Addition of GCF WI-081 EUTRA Idle Mode test case 6.3.1	9.3.0	9.4.0
2012-06	RAN#56	R5s120104	1139	-	Correction to GCF WI-082 EMM test case 9.2.3.1.17	9.3.0	9.4.0
2012-06	RAN#56	R5s120106	1140	-	Correction to GERAN paging group calculation in LTE ATS 12wk05	9.3.0	9.4.0
2012-06	RAN#56	R5s120109	1138	-	Addition of GCF WI-082 EMM test case 9.2.3.1.9	9.3.0	9.4.0
2012-06	RAN#56	R5s120111	1136	-	Addition of GCF WI-086 EUTRA –UTRAN test case 13.1.16	9.3.0	9.4.0
2012-06	RAN#56	R5s120113	1137	-	Addition of GCF WI-086 EUTRA <>UTRA testcase 13.4.2.1	9.3.0	9.4.0
2012-06	RAN#56	R5s120115	1134	-	Addition of EUTRA Hybrid CSG Cell test case 6.4.1	9.3.0	9.4.0
2012-06	RAN#56	R5s120117	1135	-	Addition of GCF WI-086 EUTRA <>UTRA testcase 13.1.5	9.3.0	9.4.0
2012-06	RAN#56	R5s120119	1108	-	Regression CR for LTE wk09 ATS	9.3.0	9.4.0
2012-06	RAN#56	R5s120121	1133	-	Correction to TA transmission in wk09 TTCN	9.3.0	9.4.0
2012-06	RAN#56	R5s120122	1131	-	Correction to GCF WI-086 UTRAN-EUTRA test case 6.2.2.8	9.3.0	9.4.0
2012-06	RAN#56	R5s120124	1132	-	Correction to EUTRA RRC test case 8.1.1.3	9.3.0	9.4.0
2012-06	RAN#56	R5s120125	1130	-	Correction to EMM testcase 9.2.1.1.23, 9.2.3.2.4, 9.2.3.2.14,	9.3.0	9.4.0
2012-06	RAN#56	R5s120127	1126	-	9.2.3.2.2, 9.2.3.2.17 Correction to GCF WI-086 EUTRA-UTRAN test case 9.2.3.3.4	9.3.0	9.4.0
2012-06	RAN#56	R5s120129	1128	-	Correction to the implementation of SI 2 quarter message	9.3.0	9.4.0
2012-06	RAN#56	R5s120130	1129	-	Correction to WI-081 EUTRA Idle Mode Testcase 6.1.2.13	9.3.0	9.4.0
2012-06	RAN#56	R5s120132	1127	-	Correction to WI-086 EUTRA EMM Testcase 9.2.1.1.11	9.3.0	9.4.0
2012-06	RAN#56	R5s120133	1124	-	Correction to GCF WI-086 EUTRA EMM Testcase 9.2.1.2.11	9.3.0	9.4.0
2012-06	RAN#56	R5s120134	1125	-	Correction to EUTRA Auxiliary Functions in LTE/SAE ATS_12wk09	9.3.0	9.4.0
2012-06	RAN#56	R5s120135	1123	-	Correction to GCF WI-081 EUTRA MAC test cases 7.1.7.x	9.3.0	9.4.0
2012-06	RAN#56	R5s120136	1120	-	Correction to EUTRA Idle Updated Teststep	9.3.0	9.4.0

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2012-06	RAN#56	R5s120137	1122	-	Correction to GCF WI-086 EUTRA EMM Testcase 9.2.3.3.1	9.3.0	9.4.0
2012-06	RAN#56	R5s120138	1121	-	Correction to GCF WI-86 EUTRA RRC Testcase 8.4.1.2 and 8.4.1.4	9.3.0	9.4.0
2012-06	RAN#56	R5s120139	1109	-	Addition of GCF WI-086 EUTRA <>UTRA testcase 13.3.2.1	9.3.0	9.4.0
2012-06	RAN#56	R5s120141	1119	-	Correction to UTRAN function f_UTRAN_GMM_RAU	9.3.0	9.4.0
2012-06	RAN#56	R5s120142	1118	-	Correction to f_EUTRA_IdleUpdated_Step14_15	9.3.0	9.4.0
2012-06	RAN#56	R5s120143	1117	-	Correction to GCF WI-086 EUTRA-UTRAN test case 9.2.3.2.9	9.3.0	9.4.0
2012-06	RAN#56	R5s120144	1116	-	LTE_TDD: Addition of GCF WI-091 EUTRA MAC testcase 7.1.4.14	9.3.0	9.4.0
2012-06	RAN#56	R5s120146	1115	-	Addition of EUTRA Idle Mode testcase 6.1.2.7a	9.3.0	9.4.0
2012-06	RAN#56	R5s120148	1112	-	Addition of EUTRA Idle Mode testcase 6.1.2.8a	9.3.0	9.4.0
2012-06	RAN#56	R5s120150	1111	-	Addition of GCF WI-091 EUTRA Idle Mode testcase 6.1.2.9a	9.3.0	9.4.0
2012-06	RAN#56	R5s120152	1114	-	Addition of EUTRA Idle Mode testcase 6.1.1.2a	9.3.0	9.4.0
2012-06	RAN#56	R5s120154	1113	-	Addition of EUTRA Idle Mode testcase 6.1.1.3b	9.3.0	9.4.0
2012-06	RAN#56	R5s120156	1110	-	Addition of EMM EUTRA <>UTRA testcase 9.2.1.2.1d	9.3.0	9.4.0
2012-06	RAN#56	R5s120158	1106	-	Addition of EUTRA Idle Mode testcase 6.1.1.6a	9.3.0	9.4.0
2012-06	RAN#56	R5s120160	1107	-	Addition of EUTRA Idle Mode testcase 6.1.1.1b	9.3.0	9.4.0
2012-06	RAN#56	R5s120162	1105	-	Correction to EMM test case 9.2.1.2.15	9.3.0	9.4.0
2012-06	RAN#56	R5s120165	1102	-	LTE_TDD: Addition of GCF WI-097 EUTRA Idle mode test case 6.2.1.4	9.3.0	9.4.0
2012-06	RAN#56	R5s120167	1103	-	LTE_TDD: Addition of GCF WI-097 EUTRA Idle mode test case	9.3.0	9.4.0
2012-06	RAN#56	R5s120169	1104	-	6.2.2.6 LTE_TDD: Addition of GCF WI-097 EUTRA Idle mode test case 6.2.3.14	9.3.0	9.4.0
2012-06	RAN#56	R5s120173	1101	-	LTE_TDD: Addition of EUTRA Idle mode test case 6.1.1.3b	9.3.0	9.4.0
2012-06	RAN#56	R5s120175	1100	-	LTE_TDD: Addition of EUTRA Idle mode test case 6.1.2.7a	9.3.0	9.4.0
2012-06	RAN#56	R5s120178	1032	-	Baseline upgrade of LTE ATS to March-12 in Rel-10	9.3.0	9.4.0
2012-06	RAN#56	R5s120179	1099	-	LTE_TDD: Addition of GCF WI-097 EUTRA Idle mode test case 6.2.1.6	9.3.0	9.4.0
2012-06	RAN#56	R5s120181	1097	-	LTE_TDD: Addition of GCF WI-097 EUTRA Idle mode test case 6.2.2.2	9.3.0	9.4.0
2012-06	RAN#56	R5s120183	1098	-	LTE_TDD: Addition of GCF WI-097 EUTRA Idle mode test case	9.3.0	9.4.0
2012-06	RAN#56	R5s120185	1093	-	6.2.3.1 LTE_TDD: Addition of GCF WI-092 EMM test case 9.2.1.1.12	9.3.0	9.4.0
2012-06	RAN#56	R5s120187	1094	-	LTE_TDD: Addition of GCF WI-092 EMM test case 9.2.3.1.10	9.3.0	9.4.0
2012-06	RAN#56	R5s120189	1095	-	LTE_TDD: Addition of GCF WI-092 EMM test case 9.2.3.1.11	9.3.0	9.4.0
2012-06	RAN#56	R5s120191	1096	-	LTE_TDD: Addition of GCF WI-092 EMM test case 9.2.3.1.12	9.3.0	9.4.0
2012-06	RAN#56	R5s120193	1091	-	LTE_TDD: Addition of GCF WI-092 EMM test case 9.3.1.4	9.3.0	9.4.0
2012-06	RAN#56	R5s120195	1092	-	LTE_TDD: Addition of GCF WI-092 EMM test case 9.3.1.5	9.3.0	9.4.0
2012-06	RAN#56	R5s120197	1090	-	Correction to EUTRA test case 7.1.4.12	9.3.0	9.4.0
2012-06	RAN#56	R5s120198	1089	-	Addition of GCF WI 81 EUTRA MAC test case 7.1.4.2	9.3.0	9.4.0
2012-06	RAN#56	R5s120200	1088	-	Correction to EUTRA test case 7.1.3.2	9.3.0	9.4.0
2012-06	RAN#56	R5s120201	1087	-	Correction to GCF WI-081 EUTRA RRC test case 8.2.1.5	9.3.0	9.4.0
2012-06	RAN#56	R5s120202	1085	-	LTE_TDD: Addition of GCF WI-092 EMM test case 9.2.1.1.11	9.3.0	9.4.0
2012-06	RAN#56	R5s120204	1086	-	LTE_TDD: Addition of GCF WI-092 EMM test case 9.2.3.1.18	9.3.0	9.4.0

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2012-06	RAN#56	R5s120206	1084	-	Update of default bandwidth for signalling conformance tests in E-	9.3.0	9.4.0
2012-06	RAN#56	R5s120207	1083	-	UTRA band 11 + 18 Correction to GCF WI-081 RLC test case 7.2.3.21	9.3.0	9.4.0
2012-06	RAN#56	R5s120208	1082	-	Correction to EUTRA test case 8.1.3.8	9.3.0	9.4.0
2012-06	RAN#56	R5s120209	1081	-	Correction to GCF WI-085 Interband test case 8.2.4.9	9.3.0	9.4.0
2012-06	RAN#56	R5s120210	1080	-	Correction to EMM testcase 9.2.3.3.5	9.3.0	9.4.0
2012-06	RAN#56	R5s120211	1079	-	Correction to GCF WI-082 EMM test case 9.2.3.1.26	9.3.0	9.4.0
2012-06	RAN#56	R5s120212	1078	-	Correction to EMM testcase 9.2.3.2.1a	9.3.0	9.4.0
2012-06	RAN#56	R5s120213	1077	-	Correction to EMM test case 9.2.2.1.8	9.3.0	9.4.0
2012-06	RAN#56	R5s120214	1076	-	LTE_TDD: Addition of GCF WI-091 EUTRA MAC testcase 7.1.3.2	9.3.0	9.4.0
2012-06	RAN#56	R5s120216	1075	-	Correction to GCF WI-082 EMM test case 9.2.3.1.16	9.3.0	9.4.0
2012-06	RAN#56	R5s120218	1074	-	Addition of GCF WI-087 EMM testcase 9.2.3.4.1	9.3.0	9.4.0
2012-06	RAN#56	R5s120220	1073	-	Correction to the template	9.3.0	9.4.0
2012-06	RAN#56	R5s120221	1070	-	cs_508_UplinkPowerControlDedicated_Default Addition of GCF WI-087 EUTRA - GERAN test case 6.2.3.15	9.3.0	9.4.0
2012-06	RAN#56	R5s120223	1072	-	Correction to default Packet Application type	9.3.0	9.4.0
2012-06	RAN#56	R5s120224	1071	-	Correction to GCF WI-082 EMM test case 9.2.3.1.9	9.3.0	9.4.0
2012-06	RAN#56	R5s120227	1069	-	Correction to EUTRA test case 6.1.1.4	9.3.0	9.4.0
2012-06	RAN#56	R5s120228	1068	-	Addition of EMM EUTRA <>UTRA testcase 9.2.3.2.1c	9.3.0	9.4.0
2012-06	RAN#56	R5s120230	1067	-	Addition of GCF WI-082 EMM test case 9.2.3.1.20	9.3.0	9.4.0
2012-06	RAN#56	R5s120232	1066	-	Addition of GCF WI-082 EMM test case 9.2.3.2.16	9.3.0	9.4.0
2012-06	RAN#56	R5s120234	1064	-	LTE_TDD: Addition of GCF WI-097 EMM test case 9.2.1.2.5	9.3.0	9.4.0
2012-06	RAN#56	R5s120236	1063	-	LTE_TDD: Addition of GCF WI-097 EMM test case 9.2.1.2.6	9.3.0	9.4.0
2012-06	RAN#56	R5s120238	1062	-	LTE_TDD: Addition of GCF WI-097 EMM test case 9.2.1.2.7	9.3.0	9.4.0
2012-06	RAN#56	R5s120240	1061	-	LTE_TDD: Addition of GCF WI-097 EMM test case 9.2.1.2.15	9.3.0	9.4.0
2012-06	RAN#56	R5s120243	1065	-	Correction to EUTRA-HRPD test case 6.2.3.8	9.3.0	9.4.0
2012-06	RAN#56	R5s120244	1060	-	Addition of GCF WI-087 EUTRA RRC testcase 8.3.2.2	9.3.0	9.4.0
2012-06	RAN#56	R5s120246	1059	-	LTE_TDD: Addition of GCF WI-097 EUTRA RRC testcase 8.3.2.2	9.3.0	9.4.0
2012-06	RAN#56	R5s120248	1058	-	LTE_TDD: Addition of GCF WI-097 EUTRA RRC testcase 8.3.2.1	9.3.0	9.4.0
2012-06	RAN#56	R5s120250	1047	-	Correction to GCF WI-081 EUTRA test case 8.5.4.1	9.3.0	9.4.0
2012-06	RAN#56	R5s120251	1057	-	LTE_TDD: Addition of GCF WI-097 EMM test case 9.2.3.2.5	9.3.0	9.4.0
2012-06	RAN#56	R5s120253	1055	-	LTE_TDD: Addition of GCF WI-097 EMM test case 9.2.3.2.6	9.3.0	9.4.0
2012-06	RAN#56	R5s120255	1056	-	LTE_TDD: Addition of GCF WI-097 EMM test case 9.2.3.2.7	9.3.0	9.4.0
2012-06	RAN#56	R5s120257	1054	-	LTE_TDD: Addition of GCF WI-097 EMM test case 9.2.1.2.9	9.3.0	9.4.0
2012-06	RAN#56	R5s120259	1053	-	LTE_TDD: Addition of GCF WI-097 EMM test case 9.2.1.2.11	9.3.0	9.4.0
2012-06	RAN#56	R5s120261	1052	-	Correction to EMM testcase 9.2.3.2.17	9.3.0	9.4.0
2012-06	RAN#56	R5s120262	1051	-	Correction to EMM testcase 9.2.1.1.18	9.3.0	9.4.0
2012-06	RAN#56	R5s120263	1049	-	Correction to EMM testcase 9.2.2.1.10	9.3.0	9.4.0
2012-06	RAN#56	R5s120264	1050	-	Correction to EMM testcase 9.2.3.1.25, 9.2.3.1.26, 9.2.1.1.23, 9.3.1.4, 9.3.1.5 and 9.3.1.6	9.3.0	9.4.0

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2012-06	RAN#56	R5s120265	1048	-	Correction to EMM test cases 9.2.3.1.9, 9.2.1.2.1b, 9.2.2.1.4 and	9.3.0	9.4.0
2012-06	RAN#56	R5s120266	1045	-	9.2.3.2.1b Correction of GCF WI 86 Multilayer test case 13.1.2	9.3.0	9.4.0
2012-06	RAN#56	R5s120271	1046	-	Correction to GCF WI-086 EUTRA EMM Testcase 9.2.3.3.5	9.3.0	9.4.0
2012-06	RAN#56	R5s120274	1044	-	Correction to EMM Test Cases	9.3.0	9.4.0
2012-06	RAN#56	R5s120275	1043	-	LTE_TDD: Addition of EUTRA Idle mode test case 6.1.1.1b	9.3.0	9.4.0
2012-06	RAN#56	R5s120277	1042	-	LTE_TDD: Addition of EUTRA Idle mode test case 6.1.2.8a	9.3.0	9.4.0
2012-06	RAN#56	R5s120279	1041	-	LTE_TDD: Addition of EUTRA Idle mode test case 6.1.2.9a	9.3.0	9.4.0
2012-06	RAN#56	R5s120281	1039	-	LTE_TDD: Addition of EUTRA Idle mode test case 6.1.1.2a	9.3.0	9.4.0
2012-06	RAN#56	R5s120283	1040	-	LTE_TDD: Addition of EUTRA Idle mode test case 6.1.1.6a	9.3.0	9.4.0
2012-06	RAN#56	R5s120287	1038	-	Addition of GCF WI-087 EUTRA - GERAN test case 6.2.3.16	9.3.0	9.4.0
2012-06	RAN#56	R5s120289	1037	-	Correction to Timing Calculation on EUTRA Cells	9.3.0	9.4.0
2012-06	RAN#56	R5s120290	1036	-	Correction for SIB 7 default contents	9.3.0	9.4.0
2012-06	RAN#56	R5s120291	1035	-	Correction to GCF WI-082 EMM test case 9.2.3.1.16	9.3.0	9.4.0
2012-06	RAN#56	R5s120292	1034	-	LTE_TDD: Addition of EUTRA RRC test case 8.1.2.9	9.3.0	9.4.0
2012-06	RAN#56	R5s120294	1033	-	Correction to template cdr_RRC_ConnReqWith_v860ext	9.3.0	9.4.0
2012-06	RAN#56	R5s120295	1031	-	LTE_TDD: Addition of GCF WI-092 EMM test case 9.2.3.1.17	9.3.0	9.4.0
2012-06	RAN#56	R5s120297	1030	-	Correction to EUTRA MAC test case 7.1.4.10	9.3.0	9.4.0
2012-06	RAN#56	R5s120298	1029	-	Correction to GCF WI-082 EUTRA CSG Testcase 9.2.3.1.9	9.3.0	9.4.0
2012-06	RAN#56	R5s120301	1028	-	Addition of GCF WI 86 Multilayer test case 13.1.3	9.3.0	9.4.0
2012-06	RAN#56	R5s120303	1027	-	Correction for GERAN message definitions	9.3.0	9.4.0
2012-06	RAN#56	R5s120304	1026	-	Correction to GCF WI-081 EUTRA MAC testcase 7.1.8.1	9.3.0	9.4.0
2012-06	RAN#56	R5s120305	1025	-	Correction for EMM testcase 9.2.3.1.22	9.3.0	9.4.0
2012-06	RAN#56	R5s120306	1024	-	LTE_TDD: Addition of GCF WI-097 EUTRA - GERAN test case 6.2.3.15	9.3.0	9.4.0
2012-06	RAN#56	R5s120308	1023	-	Addition of GCF WI 86 Multilayer test case 13.4.2.4	9.3.0	9.4.0
2012-06	RAN#56	R5s120310	1022	-	Correction to EUTRA test case 8.3.2.2	9.3.0	9.4.0
2012-06	RAN#56	R5s120312	1021	-	Correction to GCF WI-086 EUTRA Multilayer Testcase 13.4.2.1	9.3.0	9.4.0
2012-06	RAN#56	R5s120313	1017	-	Correction to GCF WI-081 EUTRA MAC Testcase 7.1.4.12	9.3.0	9.4.0
2012-06	RAN#56	R5s120314	1018	-	Correction to GCF WI-081 EUTRA EPC testcase 9.2.1.1.2 and 9.2.2.1.8	9.3.0	9.4.0
2012-06	RAN#56	R5s120315	1019	-	Correction to GCF WI-089 EUTRA RRCTestcase 8.3.2.6	9.3.0	9.4.0
2012-06	RAN#56	R5s120316	1020	-	Correction to GCF WI-081 EUTRA MAC SPS testcase 7.1.4.2	9.3.0	9.4.0
2012-06	RAN#56	R5s120317	1015	-	Correction to GCF WI-086 EUTRA Multilayer Testcase 13.4.2.1	9.3.0	9.4.0
2012-06	RAN#56	R5s120318		-	Correction to EUTRA Idle Mode Testcase 6.1.2.8a and 6.1.2.9a	9.3.0	9.4.0
2012-06	RAN#56	R5s120320	1014	-	Correction to EMM test case 9.2.3.3.1	9.3.0	9.4.0
2012-06	RAN#56	R5s120321		-	Correction to UTRA SIB19 for IE "qRxLevMinEUTRA"	9.3.0	9.4.0
2012-06	RAN#56	R5s120322	1012	_	Correction of EUTRA Idle Mode Testcase 6.1.1.1b	9.3.0	9.4.0
2012-06	RAN#56	R5s120323	1011	-	Correction for GERAN SI2Quater message content	9.3.0	9.4.0
2012-06	RAN#56	R5s120325	1010	-	Correction to GCF WI-087 EUTRAN EMM Testcase 9.2.1.2.9	9.3.0	9.4.0

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2012-06	RAN#56	R5s120326	1009	-	Correction to GCF WI-082 EUTRA CSG Testcase 9.2.1.1.18	9.3.0	9.4.0
2012-06	RAN#56	R5s120327	1007	-	Correction of GCF WI-082 EUTRA EMM Testcase 9.2.3.2.4	9.3.0	9.4.0
2012-06	RAN#56	R5s120328	1008	-	Correction of GCF WI-086 EUTRA EMM Testcase 9.2.3.3.5	9.3.0	9.4.0
2012-06	RAN#56	R5s120329	1006	-	Addition of GCF WI-082 EUTRA CSG Testcase 9.3.1.18	9.3.0	9.4.0
2012-06	RAN#56	R5s120334	1005	-	Correction to the Band applicability of single frequency operation test cases	9.3.0	9.4.0
2012-06	RAN#56	R5s120335	1004	-	LTE_TDD: Addition of GCF WI-097 Idle mode test case 6.2.3.16	9.3.0	9.4.0
2012-06	RAN#56	R5s120338	1003	-	Correction to GCF WI-082 EUTRA CSG Testcase 9.2.1.1.18	9.3.0	9.4.0
2012-06	RAN#56	R5s120339	1001	-	Correction to GCF WI-087 EUTRA EMM Testcase 9.2.1.2.8	9.3.0	9.4.0
2012-06	RAN#56	R5s120340	1002	-	LTE_TDD: Addition of GCF WI-092 EMM test case 9.2.3.1.15	9.3.0	9.4.0
2012-06	RAN#56	R5s120342	1000	-	Correction to GCF WI-086 EUTRA Multilayer Testcase 13.1.5	9.3.0	9.4.0
2012-06	RAN#56	R5s120344	0999	-	Correction to GCF WI-081 EUTRA MAC SPS testcase 7.1.4.14	9.3.0	9.4.0
2012-06	RAN#56	R5s120345	0998	-	Correction to GCF WI-091 EUTRA RLC test cases 7.2.3.10 and	9.3.0	9.4.0
2012-06	RAN#56	R5s120346	0997	-	7.2.3.13 Correction to EMM test case 9.2.1.2.1d	9.3.0	9.4.0
2012-06	RAN#56	R5s120347	0996	-	Correction to EMM test case 9.2.1.1.7	9.3.0	9.4.0
2012-06	RAN#56	RP-120653	0995	-	CR to 36.523-3: Add new verified and e-mail agreed TTCN test	9.3.0	9.4.0
2012-06	RAN#56	R5-121779	0992	-	cases in the TC lists in 36.523-3 (prose), Annex A 36523-3 routine maintenance and updates	9.4.0	10.0.0
2012-06	RAN#56	R5-121850	0993	-	Correction to Postamble Procedure for E-UTRAN to GERAN tests	9.4.0	10.0.0
2012-06	RAN#56	R5-122121	0994	-	Add new guidelines for TC executions	9.4.0	10.0.0
2012-09	RAN#57	R5-123081	1157	-	Update the guidelines for TC executions	10.0.0	10.1.0
2012-09	RAN#57	R5-123245	1158	-	Correction to postamble procedure of EUTRAN-GERAN test cases	10.0.0	10.1.0
2012-09	RAN#57	R5-123310	1159	-	Removal of technical content in 36.523-3 v9.4.0 and substitution	10.0.0	10.1.0
2012-09	RAN#57	R5-123740	1160	-	with pointer to the next Release 36523-3: Routine maintenance and updates	10.0.0	10.1.0
2012-09	RAN#57	R5s120348	1161	-	Addition of Rel-9 EUTRA RRC test case 8.1.2.14	10.0.0	10.1.0
2012-09	RAN#57	R5s120350	1162	-	Addition of GCF WI-087 EUTRA-GERAN test case 6.2.3.21	10.0.0	10.1.0
2012-09	RAN#57	R5s120352	1163	-	LTE_TDD : Addition of GCF WI-091 EUTRA MAC Testcase	10.0.0	10.1.0
2012-09	RAN#57	R5s120354	1164	-	7.1.6.1 LTE_TDD : Addition of GCF WI-091 EUTRA MAC Testcase	10.0.0	10.1.0
2012-09	RAN#57	R5s120356	1165	-	7.1.6.2 Correction to EMM test case 9.2.3.4.1	10.0.0	10.1.0
2012-09	RAN#57	R5s120357	1166	-	Correction to GERAN paging group calculation	10.0.0	10.1.0
2012-09	RAN#57	R5s120358	1167	-	Addition of GCF WI 86 EMM test case 9.2.3.3.5a	10.0.0	10.1.0
2012-09	RAN#57	R5s120360	1168	-	Enhanced decoding of GERAN Types in LTE/SAE ATS	10.0.0	10.1.0
2012-09	RAN#57	R5s120361	1169	-	Correction to Manual PLMN Selection after Switch On in LTE/SAE	10.0.0	10.1.0
2012-09	RAN#57	R5s120366	1170	-	ATS Correction to template "cds_DL_CommonInformation_CompressedMode_FDD" in	10.0.0	10.1.0
2012-09	RAN#57	R5s120367	1171	-	LTE/SAE ATS Addition of GCF WI-082 EMM CSG test case 9.2.1.2.14	10.0.0	10.1.0
2012-09	RAN#57	R5s120369	1172	-	Correction to EUTRA MAC test case 7.1.1.2	10.0.0	10.1.0
2012-09	RAN#57	R5s120370	1173	-	Correction to EUTRA MAC test case 7.1.4.7a	10.0.0	10.1.0
2012-09	RAN#57	R5s120371	1174	-	, , , , , , , , , , , , , , , , , , , ,	10.0.0	10.1.0
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2012-09	RAN#57	R5s120372	1175	-	Addition of GCF WI-087 EUTRA testcase 8.4.3.2	10.0.0	10.1.0
2012-09	RAN#57	R5s120374	1176	-	Addition of GCF WI-087 EUTRA testcase 8.4.3.3	10.0.0	10.1.0
2012-09	RAN#57	R5s120377	1177	-	Correction to EUTRA SIB 6 content for combination C10	10.0.0	10.1.0
2012-09	RAN#57	R5s120378	1178	-	Addition of GCF WI-086 EUTRA -UTRAN test case 9.2.3.3.2	10.0.0	10.1.0
2012-09	RAN#57	R5s120380	1179	-	Correction to EMM test case 9.3.1.18	10.0.0	10.1.0
2012-09	RAN#57	R5s120381	1180	-	Addition of GCF WI 86 LTE<>UTRAN test case 9.2.3.3.3	10.0.0	10.1.0
2012-09	RAN#57	R5s120383	1181	-	Correction to Uplink F4 Frequency for EUTRA Band 5	10.0.0	10.1.0
2012-09	RAN#57	R5s120386	1182	-	LTE_TDD : Addition of GCF WI-097 EUTRA EMM Testcase 9.2.1.2.8	10.0.0	10.1.0
2012-09	RAN#57	R5s120390	1183	-	LTE_TDD : Addition of GCF WI-097 EUTRA EMM Testcase 9.2.3.2.9	10.0.0	10.1.0
2012-09	RAN#57	R5s120393	1184	-	Addition of Rel9 EUTRA RRC Testcase 8.2.1.8	10.0.0	10.1.0
2012-09	RAN#57	R5s120395	1185	-	LTE_TDD : Addition of Rel9 EUTRA RRC Testcase 8.1.2.14	10.0.0	10.1.0
2012-09	RAN#57	R5s120397	1186	-	Addition of GCF WI-086 EUTRA<>UTRA HSPA Handover Testcase 8.4.1.5	10.0.0	10.1.0
2012-09	RAN#57	R5s120399	1187	-	LTE_TDD: Addition of Rel9 EUTRA RRC Testcase 8.2.1.8	10.0.0	10.1.0
2012-09	RAN#57	R5s120401	1188	-	LTE_TDD: Addition of GCF WI-097 EUTRA test case 6.2.3.21	10.0.0	10.1.0
2012-09	RAN#57	R5s120403	1189	-	Addition of GCF WI-088 EUTRA Idle Mode Testcase 6.2.3.7	10.0.0	10.1.0
2012-09	RAN#57	R5s120405	1190	-	LTE_TDD: Addition of GCF WI-096 EUTRA test case 8.3.2.3	10.0.0	10.1.0
2012-09	RAN#57	R5s120407	1191	-	Addition of GCF WI-088 EUTRA<>CDMA200 1XRTT Testcase 6.2.3.9	10.0.0	10.1.0
2012-09	RAN#57	R5s120409	1192	-	Addition of EMM testcase 9.2.1.1.1b	10.0.0	10.1.0
2012-09	RAN#57	R5s120411	1193	-	Addition of EMM testcase 9.2.1.1.13a	10.0.0	10.1.0
2012-09	RAN#57	R5s120413	1194	-	Addition of EMM testcase 9.2.1.1.15a	10.0.0	10.1.0
2012-09	RAN#57	R5s120415	1195	-	Addition of EMM testcase 9.2.1.1.16a	10.0.0	10.1.0
2012-09	RAN#57	R5s120417	1196	-	Addition of EMM testcase 9.2.3.1.18a	10.0.0	10.1.0
2012-09	RAN#57	R5s120419	1197	-	Addition of EMM testcase 9.2.1.1.7a	10.0.0	10.1.0
2012-09	RAN#57	R5s120421	1198	-	Addition of EMM testcase 9.2.3.1.15a	10.0.0	10.1.0
2012-09	RAN#57	R5s120423	1199	-	Addition of GCF WI-087 EUTRA - GERAN test case 6.2.3.17	10.0.0	10.1.0
2012-09	RAN#57	R5s120425	1200	-	Addition of GCF WI-087 EUTRA - GERAN test case 6.2.3.18	10.0.0	10.1.0
2012-09	RAN#57	R5s120427	1201	-	Correction to GCF WI-086 EUTRA EMM Testcase 9.2.1.2.1b	10.0.0	10.1.0
2012-09	RAN#57	R5s120431	1202	-	Addition of Rel 9 EUTRA RRC Interband Testcase 8.2.4.13	10.0.0	10.1.0
2012-09	RAN#57	R5s120433	1203	-	Addition of Rel9 EUTRA RRC Interband Testcase 8.1.3.11	10.0.0	10.1.0
2012-09	RAN#57	R5s120436	1204	-	Addition of Rel-9 EUTRA-HRPD Idle Mode test case 6.2.3.7a	10.0.0	10.1.0
2012-09	RAN#57	R5s120440	1205	-	Correction to GCF WI-086 EMM test case 9.2.3.3.4	10.0.0	10.1.0
2012-09	RAN#57	R5s120442	1206	-	LTE_TDD: Addition of GCF WI-097 EMM test case 9.2.1.2.13	10.0.0	10.1.0
2012-09	RAN#57	R5s120446	1207	-	LTE_TDD: Addition of Rel9 EUTRA RRC Interband Testcase 8.1.3.11	10.0.0	10.1.0
2012-09	RAN#57	R5s120448	1208	-	LTE_TDD: Addition of Rel 9 EUTRA RRC Interband Testcase 8.2.4.13	10.0.0	10.1.0
2012-09	RAN#57	R5s120450	1209	-	Addition of Rel9 EUTRA RRC Interband Testcase 8.1.3.12	10.0.0	10.1.0
2012-09	RAN#57	R5s120452	1210	-	LTE_TDD: Addition of GCF WI-097 EMM test case 9.2.3.2.8	10.0.0	10.1.0
2012-09	RAN#57	R5s120455	1211	-	Correction to GCF WI-086 EUTRA-UTRAN Multi-layer test case 13.1.4	10.0.0	10.1.0

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2012-09	RAN#57	R5s120456	1212	-	Addition of Rel9 EUTRA RRC Interband Testcase 8.2.4.15	10.0.0	10.1.0
2012-09	RAN#57	R5s120458	1213	-	Addition of GCF WI-086 EUTRA EMM Testcase 9.2.1.2.1c	10.0.0	10.1.0
2012-09	RAN#57	R5s120461	1214	-	Correction to EMM test case 9.2.1.2.1d	10.0.0	10.1.0
2012-09	RAN#57	R5s120462	1215	-	Correction to	10.0.0	10.1.0
2012-09	RAN#57	R5s120463	1216	-	f_UTRAN_PhyChReconf_InterRatCompresseModeActivate Correction to EMM test case 9.2.3.1.4	10.0.0	10.1.0
2012-09	RAN#57	R5s120464	1217	-	Correction to EMM test case 9.2.1.1.24	10.0.0	10.1.0
2012-09	RAN#57	R5s120465	1218	-	Addition of GCF WI-088 EUTRA<>CDMA200 1XRTT RRC Testcase 8.3.2.9	10.0.0	10.1.0
2012-09	RAN#57	R5s120469	1219	-	Correction to function f_EUTRA_Capability in LTE/SAE ATS	10.0.0	10.1.0
2012-09	RAN#57	R5s120470	1220	-	Correction to usage of IP packets in EUTRA Test Mode B for IPv6-only UEs	10.0.0	10.1.0
2012-09	RAN#57	R5s120473	1221	-	Addition of Rel 9 EUTRA RRC Interband Testcase 8.2.4.14	10.0.0	10.1.0
2012-09	RAN#57	R5s120475	1222	-	Correction to GCF WI-081 EUTRA MAC DRX testcase 7.1.6.1	10.0.0	10.1.0
2012-09	RAN#57	R5s120476	1223	-	Correction for GERAN SI2Quater message content	10.0.0	10.1.0
2012-09	RAN#57	R5s120477	1224	-	Correction to EUTRA Idle mode test case 6.2.2.2	10.0.0	10.1.0
2012-09	RAN#57	R5s120478	1225	-	Correction to GCF WI-086 EMM Testcase 9.2.3.3.5	10.0.0	10.1.0
2012-09	RAN#57	R5s120479	1226	-	Correction to ESM testcases 10.8.5 and 10.8.6	10.0.0	10.1.0
2012-09	RAN#57	R5s120480	1227	-	Correction to function f_EUTRA_RmvFbdnPLMN and CSG test cases	10.0.0	10.1.0
2012-09	RAN#57	R5s120481	1228	-	Correction to Multilayer test case 13.4.2.4	10.0.0	10.1.0
2012-09	RAN#57	R5s120482	1229	-	Correction to EMM test case 9.2.3.3.2	10.0.0	10.1.0
2012-09	RAN#57	R5s120483	1230	-	Correction GCF WI-082 EUTRA EMM Testcase 9.2.3.1.23	10.0.0	10.1.0
2012-09	RAN#57	R5s120484	1231	-	Correction GCF WI-086 EUTRA EMM Testcase 9.2.3.2.9	10.0.0	10.1.0
2012-09	RAN#57	R5s120485	1232	-	Correction GCF WI-086 EUTRA Multilayer Testcase 13.1.3	10.0.0	10.1.0
2012-09	RAN#57	R5s120486	1233	-	Correction GCF WI-086 EUTRA EMM Testcase 9.2.3.2.1c	10.0.0	10.1.0
2012-09	RAN#57	R5s120487	1234	-	Correction GCF WI-081 EUTRA MAC Testcase 7.1.4.12	10.0.0	10.1.0
2012-09	RAN#57	R5s120488	1235	-	Correction to EUTRA RRC test case 8.5.4.1	10.0.0	10.1.0
2012-09	RAN#57	R5s120489	1236	-	Correction GCF WI-086 EUTRA Idle Mode Testcase 6.2.1.2	10.0.0	10.1.0
2012-09	RAN#57	R5s120490	1237	-	Addition of GCF WI-086 EUTRA-UTRAN test case 8.4.2.2	10.0.0	10.1.0
2012-09	RAN#57	R5s120492	1238	-	LTE_TDD: Addition of Rel 9 EUTRA RRC Interband Testcase 8.2.4.14	10.0.0	10.1.0
2012-09	RAN#57	R5s120494	1239	-	Correction for GERAN Packet Uplink Assignment template	10.0.0	10.1.0
2012-09	RAN#57	R5s120497	1240	-	Correction to EUTRA RRC test case 8.1.3.7	10.0.0	10.1.0
2012-09	RAN#57	R5s120498	1241	-	Addition of GCF WI-087 Multi-layer test case 13.1.7	10.0.0	10.1.0
2012-09	RAN#57	R5s120500	1242	-	Addition of EUTRA Multi-layer test case 13.1.8	10.0.0	10.1.0
2012-09	RAN#57	R5s120502	1243	-	Addition of GCF WI-087 EUTRA - GERAN test case 6.2.3.19	10.0.0	10.1.0
2012-09	RAN#57	R5s120504	1244	-	Addition of GCF WI-087 Multi-layer test case 13.1.9	10.0.0	10.1.0
2012-09	RAN#57	R5s120506	1245	-	Correction to Rel9 EUTRA RRC testcase 8.2.1.8	10.0.0	10.1.0
2012-09	RAN#57	R5s120507	1246	-	Correction to EMM test case 9.2.1.2.13	10.0.0	10.1.0
2012-09	RAN#57	R5s120508	1247	-	Correction to EMM test case 9.1.5.1	10.0.0	10.1.0
2012-09	RAN#57	R5s120509	1248	-	Addition of GCF WI-087 Multi-layer test case 13.1.10	10.0.0	10.1.0

2012-09 RAN#57 R5s120521 1254 - Addition of GCF WI-087 EUTRA - GERAN test case 6.2.3.24 10.0.0 10.1.0 2012-09 RAN#57 R5s120523 1255 - Correction to function f_SelectionExpr 10.0.0 10.1.0 10.1.0 2012-09 RAN#57 R5s120524 1256 - Addition of Rel9 EUTRA<>CDMA2000 1xRTT Testcase 6.2.3.10a 10.0.0 10.1.0 2012-09 RAN#57 R5s120527 1257 - Correction to GCF WI-087 testcase 6.2.3.16 10.0.0 10.1.0 2012-09 RAN#57 R5s120528 1258 - Correction to GCF WI-087 testcase 6.2.3.16 10.0.0 10.1.0 2012-09 RAN#57 R5s120529 1259 - Correction to GCF WI-086 EMM test case 9.2.3.2.1a 10.0.0 10.1.0 2012-09 RAN#57 R5s120531 1260 - Correction to multiLayer test case 13.1.3 10.0.0 10.1.0 2012-09 RAN#57 R5s120532 1261 - Correction to EMM test case 9.2.3.3.5a 10.0.0 10.1.0 2012-09 RAN#57 R5s120533 1262 - Correction to WI-086 EUTRA-UTRAN EMM Testcase 9.2.3.2.14 10.0.0 10.1.0 2012-09 RAN#57 R5s120533 1263 - Correction to function fl_EUTRA_CheckNoAttach_Common 10.0.0 10.1.0 2012-09 RAN#57 R5s120535 1264 - Addition of GCF WI-086 EUTRA SPA Handover 10.0.0 10.1.0 2012-09 RAN#57 R5s120551 1265 - Correction to GCF WI-086 RRC test case 8.4.1.5 10.0.0 10.1.0 2012-09 RAN#57 R5s120551 1266 - Addition of GCF WI-086 EUTRA test case 8.3.2.5 10.0.0 10.1.0 2012-09 RAN#57 R5s120554 1267 - Addition of GCF WI-086 EUTRA HSPA Handover 10.0.0 10.1.0 2012-09 RAN#57 R5s120556 1268 - LTE_TDD: Addition of GCF WI-097 EUTRA Idle Mode test case 6.2.3.8a 10.0.0 10.1.0 2012-09 RAN#57 R5s120556 1268 - LTE_TDD: Addition of GCF WI-097 EUTRA Idle Mode testcase 10.0.0 10.1.0 2012-09 RAN#57 R5s120556 1269 - LTE_TDD: Addition of GCF WI-097 EMM test case 9.2.3.2.11 10.0.0 10.1.0 2012-09 RAN#57 R5s120560 1270 - LTE_TDD: Addition of GCF WI-097 EMM test case 9.2.3.2.11 10.0.0 10.1.0 10.1.0 2012-09 RAN#57 R5s120562 1271 - LTE_TDD: Addition of GCF WI-097 EMM test case 9.2.3.2.11 10.0.0 10.1.0 10.1.0 2012-09 RAN#57 R5s120560 1270 - LTE_TDD: Addition of GCF WI-097 EMM test case 9.2.3.2.11 10.0.0 10.1.0 10.1.0 10.1.0 10.1.0 10.1.0 10.1.0 10.1.0 10.1.0 10.1.0 10.1.0 10.1.0 10.1.0 10.1.0 10.1.0 10	Date	TSG #	TSG Doc.	CR	Rev	Subject/Comment	Old	New
2012-09 RANNET RS120515 1250 - Addition of RGF WI-087 Multi-layer test case 6.2.3.20 10.0.0 10.1.0	2012-09	RAN#57	R5s120511	1249	-		10.0.0	10.1.0
2012-09 RAN#57 R5s120521 1252 Correction to GERAN Type Defs in LTE/SAE ATS 10.0.0 10.1.0	2012-09	RAN#57	R5s120515	1250	-		10.0.0	10.1.0
2012-09 RAN#57 R5s120521 1254 - Addition of GCF WI-087 EUTRA- GERAN test case 6.2.3.24 10.0.0 10.1.0	2012-09	RAN#57	R5s120517	1251	-	Addition of Rel9 EUTRA<>CDMA2000 1xRTT Testcase 6.2.3.9a	10.0.0	10.1.0
Addition of GCF Wi-087 EUTRA - GERAN test case 6.2.3.24 10.0.0 10.1.0	2012-09	RAN#57	R5s120519	1252	-	Correction to GERAN Type Defs in LTE/SAE ATS	10.0.0	10.1.0
2012-09 RAN#57 R5s120525 1255 Correction to function f. SelectionExpr 10.0.0 10.1.0 2012-09 RAN#57 R5s120524 1256 Addition of Rel9 EUTRA-CDMA2000 1xRTT Testcase 6.2.3.10a 10.0.0 10.1.0 2012-09 RAN#57 R5s120524 1256 Correction to GCF WI-087 testcase 6.2.3.16 10.0.0 10.1.0 2012-09 RAN#57 R5s120528 1258 Correction to Selection Expression for EMM test case 9.2.3.2.4 and 10.0.0 10.1.0 2012-09 RAN#57 R5s120529 1259 Correction of GCF WI-086 EMM testcase 9.2.3.2.1a 10.0.0 10.1.0 2012-09 RAN#57 R5s120531 1260 Correction to multiLayer test case 13.1.3 10.0.0 10.1.0 2012-09 RAN#57 R5s120532 1261 Correction to EMM test case 9.2.3.3.5a 10.0.0 10.1.0 2012-09 RAN#57 R5s120533 1262 Correction to WI-086 EUTRA-UTRAN EMM Testcase 9.2.3.2.14 10.0.0 10.1.0 2012-09 RAN#57 R5s120533 1262 Correction to function fi_EUTRA_CheckNoAttach_Common 10.0.0 10.1.0 2012-09 RAN#57 R5s120535 1264 Addition of GCF WI-086 EUTRA-EUTRA HSPA Handover 10.0.0 10.1.0 2012-09 RAN#57 R5s120554 1265 Correction to GCF WI-086 RRC test case 8.4.1.5 10.0.0 10.1.0 2012-09 RAN#57 R5s120555 1266 Addition of GCF WI-086 RRC test case 8.4.1.5 10.0.0 10.1.0 2012-09 RAN#57 R5s120555 1266 Addition of GCF WI-086 RRC test case 8.4.1.5 10.0.0 10.1.0 2012-09 RAN#57 R5s120556 1268 LTE_TDD. Addition of GCF WI-097 EUTRA Idle Mode test case 6.2.3.8a 10.0.0 10.1.0 2012-09 RAN#57 R5s120566 1270 LTE_TDD. Addition of GCF WI-097 EUTRA Idle Mode testcase 10.0.0 10.1.0 10	2012-09	RAN#57	R5s120520	1253	-	Correction to initial 'Power Off' MMI command in LTE/SAE ATS	10.0.0	10.1.0
RAN#57 R5s120524 1256 . Addition of Rei9 EUTRA->CDMA2000 1xRTT Testcase 6.2.3.10a 10.0.0 10.1.0	2012-09	RAN#57	R5s120521	1254	-	Addition of GCF WI-087 EUTRA - GERAN test case 6.2.3.24	10.0.0	10.1.0
2012-09 RAN#57 R5s120527 1257 Correction to GCF WI-087 testcase 6.2.3.16 10.0.0 10.1.0	2012-09	RAN#57	R5s120523	1255	-	Correction to function f_SelectionExpr	10.0.0	10.1.0
2012-09 RAN#57 R5s120528 1258 . Correction to Selection Expression for EMM test case 9.2.3.2.4 and 10.0.0 10.1.0	2012-09	RAN#57	R5s120524	1256	-	Addition of Rel9 EUTRA<>CDMA2000 1xRTT Testcase 6.2.3.10a	10.0.0	10.1.0
9.2.1.2.4	2012-09	RAN#57	R5s120527	1257	-	Correction to GCF WI-087 testcase 6.2.3.16	10.0.0	10.1.0
2012-09 RAN#57 R5s120529 1259 - Correction of GCF WI-086 EMM testcase 9.2.3.2.1a 10.0.0 10.1.0 2012-09 RAN#57 R5s120531 1260 - Correction to multiLayer test case 13.1.3 10.0.0 10.1.0 2012-09 RAN#57 R5s120532 1261 - Correction to EMM test case 9.2.3.3.5a 10.0.0 10.1.0 2012-09 RAN#57 R5s120563 1262 - Correction to WI-086 EUTRA-UTRAN EMM Testcase 9.2.3.2.14 10.0.0 10.1.0 2012-09 RAN#57 R5s120563 1263 - Correction to function fl_EUTRA_CheckNoAttach_Common 10.0.0 10.1.0 2012-09 RAN#57 R5s120565 1265 - Addition of GCF WI-086 UTRA-SEUTRA HSPA Handover 10.0.0 10.1.0 2012-09 RAN#57 R5s120555 1266 - Addition of GCF WI-086 ERC test case 8.4.1.5 10.0.0 10.1.0 2012-09 RAN#57 R5s120565 1266 - Addition of GCF WI-089 EUTRA test case 8.3.2.5 10.0.0 10.1.0 2012-09 RAN#57 R5s120565 1266 - Addition of GCF WI-089 EUTRA test case 8.3.2.5 10.0.0 10.1.0 2012-09 RAN#57 R5s120566 1268 - LTE_TDD: Addition of GCF WI-097 EUTRA Idle Mode testcase 10.0.0 10.1.0 2012-09 RAN#57 R5s120566 1269 - LTE_TDD: Addition of GCF WI-097 EUTRA Idle Mode testcase 10.0.0 10.1.0 2012-09 RAN#57 R5s120566 1270 - LTE_TDD: Addition of GCF WI-097 EUTRA Idle Mode testcase 10.0.0 10.1.0 2012-09 RAN#57 R5s120566 1270 - LTE_TDD: Addition of GCF WI-097 EMM test case 9.2.3.4.1 10.0.0 10.1.0 2012-09 RAN#57 R5s120566 1270 - LTE_TDD: Addition of GCF WI-097 EMM test case 9.2.3.4.1 10.0.0 10.1.0 2012-09 RAN#57 R5s120566 1270 - LTE_TDD: Addition of GCF WI-097 EMM test case 9.2.3.4.1 10.0.0 10.1.0 2012-09 RAN#57 R5s120566 1274 - Correction to EUTRA RRC test case 8.1.3.7 10.0.0 10.1.0 2012-09 RAN#57 R5s120566 1274 - Correction to EUTRA RRC test case 8.1.3.7 10.0.0 10.1.0 2012-09 RAN#57 R5s120567 1275 - Correction to EMM test case 9.2.3.4.1 10.0.0 10.1.0 2012-09 RAN#57 R5s120579 1276 - Correction to EUTRA SECTION ADMINIS	2012-09	RAN#57	R5s120528	1258	-		10.0.0	10.1.0
2012-09 RAN#57 R5s120532 1261 Correction to EMM test case 9.2.3.3.56 10.0.0 10.1.0	2012-09	RAN#57	R5s120529	1259	-		10.0.0	10.1.0
Name	2012-09	RAN#57	R5s120531	1260	-	Correction to multiLayer test case 13.1.3	10.0.0	10.1.0
2012-09 RAN#57 R5s120534 1263 - Correction to function fI_EUTRA_CheckNoAttach_Common 10.0.0 10.1.0 2012-09 RAN#57 R5s120535 1264 - Addition of GCF WI-086 UTRA⇔EUTRA HSPA Handover Testcase 8.4.2.4 10.0.0 10.1.0 2012-09 RAN#57 R5s120551 1265 - Correction to GCF WI-086 RRC test case 8.4.1.5 10.0.0 10.1.0 2012-09 RAN#57 R5s120552 1266 - Addition of GCF WI-089 EUTRA test case 8.3.2.5 10.0.0 10.1.0 2012-09 RAN#57 R5s120554 1267 - Addition of ReI-9 EUTRA-HRPD Idle Mode test case 6.2.3.8a 10.0.0 10.1.0 2012-09 RAN#57 R5s120556 1268 - LTE_TDD: Addition of GCF WI-097 EUTRA Idle Mode testcase 10.0.0 10.1.0 2012-09 RAN#57 R5s120556 1269 - LTE_TDD: Addition of GCF WI-097 EUTRA Idle Mode testcase 10.0.0 10.1.0 2012-09 RAN#57 R5s120560 1270 - LTE_TDD: Addition of GCF WI-097 EUTRA Idle Mode testcase 10.0.0 10.1.0 2012-09 RAN#57 R5s120566 1271 - LTE_TDD: Addition of GCF WI-097 EWTRA Idle Mode testcase 10.0.0 10.1.0 2012-09 RAN#57 R5s120566 1271 - LTE_TDD: Addition of GCF WI-097 EWTRA Idle Mode testcase 9.2.3.4.1 10.0.0 10.1.0 2012-09 RAN#57 R5s120566 1271 - LTE_TDD: Addition of GCF WI-097 EMM test case 9.2.3.4.1 10.0.0 10.1.0 2012-09 RAN#57 R5s120566 1272 - Correction to GCF WI-086 EUTRA-UTRAN test case 9.2.3.4.1 10.0.0 10.1.0 2012-09 RAN#57 R5s120566 1274 - Correction to EUTRA RRC test case 8.1.3.7 10.0.0 10.1.0 2012-09 RAN#57 R5s120566 1274 - Correction to EUTRA RRC test case 6.1.2.15 10.0.0 10.1.0 2012-09 RAN#57 R5s120568 1276 - Addition of GCF WI-089 EUTRA test case 6.2.1.1 10.0.0 10.1.0 2012-09 RAN#57 R5s120570 1277 - Addition of GCF WI-089 EUTRA test case 6.2.1.1 10.0.0 10.1.0 2012-09 RAN#57 R5s120570 1277 - Addition of GCF WI-089 EUTRA band IX Testcases 10.0.0 10.1.0 2012-09 RAN#57 R5s120576 1280 - Correction to EUTRA⇔GERAN Testcases using Multiple GERAN 10.0.0 10.1.0 2012-09 RAN#57 R5s120576 1280 - Correction to EUTRA⇔GERAN Testcases using Multiple GERAN 10.0.0 10.1.0 2012-09 RAN#57 R5s120576 1282 - Correction to EUTRA⇔GERAN Testcases 9.2.3.2.13 10.0.0 10.1.0 2012-09 RAN#57 R5s120576 1282 - Correction to GCF WI-087 EUT	2012-09	RAN#57	R5s120532	1261	-	Correction to EMM test case 9.2.3.3.5a	10.0.0	10.1.0
2012-09 RAN#57 R5s120535 1264 - Addition of GCF WI-086 UTRA <eutra -="" 10.0.0="" 10.1.0="" 1265="" 1266="" 1267="" 1268="" 1269="" 1270="" 1272="" 1273="" 1274="" 1275="" 1276="" 1277="" 1279="" 2012-09="" 6.1.2.15="" 6.2.1.1="" 6.2.3.8a="" 8.1.3.7="" 8.3.2.5="" 8.4.1.5="" 8.4.2.4="" 9.2.3.2.11="" 9.2.3.4.1="" addition="" br="" case="" correction="" emm="" eutra="" eutra-hrpd="" eutra<="" gcf="" handover="" hspa="" idle="" lte_tdd:="" mode="" of="" r5s120551="" r5s120552="" r5s120554="" r5s120556="" r5s120558="" r5s120560="" r5s120564="" r5s120565="" r5s120566="" r5s120567="" r5s120568="" r5s120570="" r5s120573="" ran#57="" rel-9="" rrc="" test="" testcase="" to="" wi-086="" wi-089="" wi-097="" wi-098=""> 2012-09 RAN#57 R5s120575 1281 - Correction to EUTRA 2012-09 RAN#57 R5s120576 1282 - Correction to EUTRA 2012-09 RAN#57 R5s120576 1281 - Correction to EUTRA 2012-09 RAN#57 R5s120579 1283 - Correction to GCF WI-087 EUTRA EMM testcase 9.2.3.2.13 10.0.0 10.1.0 2012-09 RAN#57 R5s120576 1281 - Correction to GCF WI-087 EUTRA EMM testcase 9.2.3.2.8 10.0.0 10.1.0 2012-09 RAN#57 R5s120576 1282 - Correction to GCF WI-087 EUTRA EMM testcase 9.2.</eutra>	2012-09	RAN#57	R5s120533	1262	-	Correction to WI-086 EUTRA-UTRAN EMM Testcase 9.2.3.2.14	10.0.0	10.1.0
Testcase 8.4.2.4	2012-09	RAN#57	R5s120534	1263	-	Correction to function fl_EUTRA_CheckNoAttach_Common	10.0.0	10.1.0
2012-09 RAN#57 R5s120551 1265 - Correction to GCF WI-086 RRC test case 8.4.1.5 10.0.0 10.1.0 2012-09 RAN#57 R5s120552 1266 - Addition of GCF WI-089 EUTRA test case 8.3.2.5 10.0.0 10.1.0 2012-09 RAN#57 R5s120554 1267 - Addition of ReI-9 EUTRA-HRPD Idle Mode test case 6.2.3.8a 10.0.0 10.1.0 2012-09 RAN#57 R5s120556 1268 - LTE_TDD: Addition of GCF WI-097 EUTRA Idle Mode test case 6.2.3.8a 10.0.0 10.1.0 2012-09 RAN#57 R5s120558 1269 - LTE_TDD: Addition of GCF WI-097 EUTRA Idle Mode test case 9.2.3.2.11 10.0.0 10.1.0 2012-09 RAN#57 R5s120560 1270 - LTE_TDD: Addition of GCF WI-097 EMM test case 9.2.3.4.1 10.0.0 10.1.0 2012-09 RAN#57 R5s120562 1271 - LTE_TDD: Addition of GCF WI-097 EMM test case 9.2.3.4.1 10.0.0 10.1.0 2012-09 RAN#57 R5s120561 1272 - Correction to GCF WI-086 EUTRA-UTRAN test case 9.2.3.4.1 10.0.0 1	2012-09	RAN#57	R5s120535	1264	-		10.0.0	10.1.0
2012-09 RAN#57 R5s120554 1267 - Addition of Rel-9 EUTRA-HRPD Idle Mode test case 6.2.3.8a 10.0.0 10.1.0	2012-09	RAN#57	R5s120551	1265	-		10.0.0	10.1.0
2012-09 RAN#57 R5s120558 1268 - LTE_TDD: Addition of GCF WI-097 EUTRA Idle Mode testcase 10.0.0 10.1.0 6.2.3.17 2012-09 RAN#57 R5s120558 1269 LTE_TDD: Addition of GCF WI-097 EUTRA Idle Mode testcase 10.0.0 10.1.0 62.3.18 2012-09 RAN#57 R5s120560 1270 LTE_TDD: Addition of GCF WI-097 EMM test case 9.2.3.2.11 10.0.0 10.1.0 2012-09 RAN#57 R5s120562 1271 LTE_TDD: Addition of GCF WI-097 EMM test case 9.2.3.2.11 10.0.0 10.1.0 2012-09 RAN#57 R5s120564 1272 Correction to GCF WI-097 EMM test case 9.2.3.4.1 10.0.0 10.1.0 2012-09 RAN#57 R5s120564 1272 Correction to GCF WI-086 EUTRA-UTRAN test case 9.2.2.1.10 10.0.0 10.1.0 2012-09 RAN#57 R5s120565 1273 Correction to EUTRA RRC test case 8.1.3.7 10.0.0 10.1.0 2012-09 RAN#57 R5s120566 1274 Correction to EUTRA RRC test case 6.1.2.15 10.0.0 10.1.0 2012-09 RAN#57 R5s120566 1274 Correction to EMM test case 9.2.3.4.1 10.0.0 10.1.0 2012-09 RAN#57 R5s120568 1276 Addition of GCF WI-089 EUTRA test case 6.2.1.1 10.0.0 10.1.0 2012-09 RAN#57 R5s120570 1277 Addition of GCF WI-089 EUTRA test case 6.2.1.1 10.0.0 10.1.0 2012-09 RAN#57 R5s120572 1278 Correction EUTRA<>GERAN Multilayer Testcase 10.0.0 10.1.0 2012-09 RAN#57 R5s120573 1279 Correction to EUTRA<>UTRA Band IX Testcases 10.0.0 10.1.0 2012-09 RAN#57 R5s120574 1280 Correction to EUTRA = GERAN Mestcase 9.2.3.2.13 10.0.0 10.1.0 2012-09 RAN#57 R5s120576 1281 Correction to EUTRA = GERAN Mestcase 9.2.3.2.13 10.0.0 10.1.0 2012-09 RAN#57 R5s120576 1282 Correction to EUTRA = GERAN Mestcase 9.2.3.2.8 10.0.0 10.1.0 2012-09 RAN#57 R5s120579 1283 Correction to EUTRA = GERAN Mestcase 9.2.3.2.8 10.0.0 10.1.0 2012-09 RAN#57 R5s120576 1282 Correction to EUTRA = GERAN Mestcase 9.2.3.2.8 10.0.0 10.1.0 2012-09 RAN#57 R5s120579 1283 Correction to EUTRA = GERAN Mestcase 9.2.3.2.8 10.0.0 10.1.0 2012-09	2012-09	RAN#57	R5s120552	1266	-	Addition of GCF WI-089 EUTRA test case 8.3.2.5	10.0.0	10.1.0
6.2.3.17 Corection to GCF WI-097 EUTRA Idle Mode testcase 10.0.0 10.1.0 10	2012-09	RAN#57	R5s120554	1267	-	Addition of Rel-9 EUTRA-HRPD Idle Mode test case 6.2.3.8a	10.0.0	10.1.0
2012-09 RAN#57 R5s120558 1269 - LTE_TDD: Addition of GCF WI-097 EUTRA Idle Mode testcase for the factorial forms of the factorial factorial forms of the factorial forms of the factorial factoria	2012-09	RAN#57	R5s120556	1268	-		10.0.0	10.1.0
2012-09 RAN#57 R5s120560 1270 - LTE_TDD: Addition of GCF WI-097 EMM test case 9.2.3.2.11 10.0.0 10.1.0 2012-09 RAN#57 R5s120562 1271 - LTE_TDD: Addition of GCF WI-097 EMM test case 9.2.3.4.1 10.0.0 10.1.0 2012-09 RAN#57 R5s120564 1272 - Correction to GCF WI-086 EUTRA-UTRAN test case 9.2.2.1.10 10.0.0 10.1.0 2012-09 RAN#57 R5s120565 1273 - Correction to EUTRA RRC test case 8.1.3.7 10.0.0 10.1.0 2012-09 RAN#57 R5s120566 1274 - Correction to EMM test case 9.2.3.4.1 10.0.0 10.1.0 2012-09 RAN#57 R5s120567 1275 - Correction to EMM test case 9.2.3.4.1 10.0.0 10.1.0 2012-09 RAN#57 R5s120568 1276 - Addition of GCF WI-089 EUTRA test case 6.2.1.1 10.0.0 10.1.0 2012-09 RAN#57 R5s120570 1277 - Addition of GCF WI-087 LTE<>GERAN Multilayer Testcase 10.0.0 10.1.0 2012-09 RAN#57 R5s120573 1279 - Correction EUTRA<>GERAN Testcases using Multiple GERAN	2012-09	RAN#57	R5s120558	1269	-	LTE_TDD: Addition of GCF WI-097 EUTRA Idle Mode testcase	10.0.0	10.1.0
2012-09 RAN#57 R5s120564 1272 - Correction to GCF WI-086 EUTRA-UTRAN test case 9.2.2.1.10 10.0.0 10.1.0 2012-09 RAN#57 R5s120565 1273 - Correction to EUTRA RRC test case 8.1.3.7 10.0.0 10.1.0 2012-09 RAN#57 R5s120566 1274 - Correction to applicability for test case 6.1.2.15 10.0.0 10.1.0 2012-09 RAN#57 R5s120567 1275 - Correction to EMM test case 9.2.3.4.1 10.0.0 10.1.0 2012-09 RAN#57 R5s120568 1276 - Addition of GCF WI-089 EUTRA test case 6.2.1.1 10.0.0 10.1.0 2012-09 RAN#57 R5s120570 1277 - Addition of GCF WI-087 LTE<>GERAN Multilayer Testcase 10.0.0 10.1.0 2012-09 RAN#57 R5s120572 1278 - Correction EUTRA<>GERAN Testcases using Multiple GERAN 10.0.0 10.1.0 2012-09 RAN#57 R5s120573 1279 - Correction to EUTRA<>UTRA Band IX Testcases 10.0.0 10.1.0 2012-09 RAN#57 R5s120574 1280 - Correction to GCF WI-087 EUTRA EMM testcase 9.2.3.2.13 10.0.0 10.1.0 2012-09 RAN#57 R5s120575 1281 - Correction to EMM test cases 9.3.1.4, 9.3.1.5, 9.3.1.6 10.0.0 10.1.0 2012-09 RAN#57 R5s120576 1282 - Correction for function fl_ConvertPLMN 10.0.0 10.1.0 2012-09 RAN#57 R5s120579 1283 - Correction to GCF WI-087 EUTRA EMM testcase 9.2.3.2.8 10.0.0 10.1.0 2012-09 RAN#57 R5s120579 1283 - Correction to GCF WI-087 EUTRA EMM testcase 9.2.3.2.8 10.0.0 10.1.0 2012-09 RAN#57 R5s120579 1283 - Correction to GCF WI-087 EUTRA EMM testcase 9.2.3.2.8 10.0.0 10.1.0	2012-09	RAN#57	R5s120560	1270	-		10.0.0	10.1.0
2012-09 RAN#57 R5s120565 1273 - Correction to EUTRA RRC test case 8.1.3.7 10.0.0 10.1.0 2012-09 RAN#57 R5s120566 1274 - Correction to applicability for test case 6.1.2.15 10.0.0 10.1.0 2012-09 RAN#57 R5s120567 1275 - Correction to EMM test case 9.2.3.4.1 10.0.0 10.1.0 2012-09 RAN#57 R5s120568 1276 - Addition of GCF WI-089 EUTRA test case 6.2.1.1 10.0.0 10.1.0 2012-09 RAN#57 R5s120570 1277 - Addition of GCF WI-087 LTE<>GERAN Multilayer Testcase 10.0.0 10.1.0 2012-09 RAN#57 R5s120572 1278 - Correction EUTRA<>GERAN Testcases using Multiple GERAN 10.0.0 10.1.0 2012-09 RAN#57 R5s120573 1279 - Correction to EUTRA<>UTRA Band IX Testcases 10.0.0 10.1.0 2012-09 RAN#57 R5s120574 1280 - Correction to GCF WI-087 EUTRA EMM testcase 9.2.3.2.13 10.0.0 10.1.0 2012-09 RAN#57 R5s120575 1281 - Correction to EMM test cases 9.3.1.4, 9.3.1.5, 9.3.1.6 10.0.0 10.1.0 2012-09 RAN#57 R5s120579 1283 - Correction for function fl_ConvertPLMN 10.0.0 10.1.0 2012-09 RAN#57 R5s120579 1283 - Correction to GCF WI-087 EUTRA EMM testcase 9.2.3.2.8 10.0.0 10.1.0 2012-09 RAN#57 R5s120579 1283 - Correction to GCF WI-087 EUTRA EMM testcase 9.2.3.2.8 10.0.0 10.1.0 2012-09 RAN#57 R5s120579 1283 - Correction to GCF WI-087 EUTRA EMM testcase 9.2.3.2.8 10.0.0 10.1.0 2012-09 RAN#57 R5s120579 1283 - Correction to GCF WI-087 EUTRA EMM testcase 9.2.3.2.8 10.0.0 10.1.0	2012-09	RAN#57	R5s120562	1271	-	LTE_TDD: Addition of GCF WI-097 EMM test case 9.2.3.4.1	10.0.0	10.1.0
2012-09 RAN#57 R5s120566 1274 - Correction to applicability for test case 6.1.2.15 10.0.0 10.1.0 2012-09 RAN#57 R5s120567 1275 - Correction to EMM test case 9.2.3.4.1 10.0.0 10.1.0 2012-09 RAN#57 R5s120568 1276 - Addition of GCF WI-089 EUTRA test case 6.2.1.1 10.0.0 10.1.0 2012-09 RAN#57 R5s120570 1277 - Addition of GCF WI-087 LTE<>GERAN Multilayer Testcase 10.0.0 10.1.0 2012-09 RAN#57 R5s120572 1278 - Correction EUTRA<>GERAN Testcases using Multiple GERAN 10.0.0 10.1.0 2012-09 RAN#57 R5s120573 1279 - Correction to EUTRA<>UTRA Band IX Testcases 10.0.0 10.1.0 2012-09 RAN#57 R5s120574 1280 - Correction to GCF WI-087 EUTRA EMM testcase 9.2.3.2.13 10.0.0 10.1.0 2012-09 RAN#57 R5s120575 1281 - Correction to EMM test cases 9.3.1.4, 9.3.1.5, 9.3.1.6 10.0.0 10.1.0 2012-09 RAN#57 R5s120576 1282 - Correction for function fl_ConvertPLMN 10.0.0 10.1.0 2012-09 RAN#57 R5s120579 1283 - Correction to GCF WI-087 EUTRA EMM testcase 9.2.3.2.8 10.0.0 10.1.0 2012-09 RAN#57 R5s120579 1283 - Correction to GCF WI-087 EUTRA EMM testcase 9.2.3.2.8 10.0.0 10.1.0 2012-09 RAN#57 R5s120579 1283 - Correction to GCF WI-087 EUTRA EMM testcase 9.2.3.2.8 10.0.0 10.1.0 2012-09 RAN#57 R5s120579 1283 - Correction to GCF WI-087 EUTRA EMM testcase 9.2.3.2.8 10.0.0 10.1.0 2012-09 RAN#57 R5s120579 1283 - Correction to GCF WI-087 EUTRA EMM testcase 9.2.3.2.8 10.0.0 10.1.0	2012-09	RAN#57	R5s120564	1272	-	Correction to GCF WI-086 EUTRA-UTRAN test case 9.2.2.1.10	10.0.0	10.1.0
2012-09 RAN#57 R5s120567 1275 - Correction to EMM test case 9.2.3.4.1 10.0.0 10.1.0 2012-09 RAN#57 R5s120568 1276 - Addition of GCF WI-089 EUTRA test case 6.2.1.1 10.0.0 10.1.0 2012-09 RAN#57 R5s120570 1277 - Addition of GCF WI-087 LTE<>GERAN Multilayer Testcase 10.0.0 10.1.0 2012-09 RAN#57 R5s120572 1278 - Correction EUTRA<>GERAN Testcases using Multiple GERAN 10.0.0 10.1.0 2012-09 RAN#57 R5s120573 1279 - Correction to EUTRA<>UTRA Band IX Testcases 10.0.0 10.1.0 2012-09 RAN#57 R5s120574 1280 - Correction to GCF WI-087 EUTRA EMM testcase 9.2.3.2.13 10.0.0 10.1.0 2012-09 RAN#57 R5s120575 1281 - Correction to EMM test cases 9.3.1.4, 9.3.1.5, 9.3.1.6 10.0.0 10.1.0 2012-09 RAN#57 R5s120576 1282 - Correction for function fl_ConvertPLMN 10.0.0 10.1.0 2012-09 RAN#57 R5s120579 1283 - Correction to GCF WI-087 EUTRA EMM testcase 9.2.3.2.8 10.0.0 10.1.0 2012-09 RAN#57 R5s120579 1283 - Correction to GCF WI-087 EUTRA EMM testcase 9.2.3.2.8 10.0.0 10.1.0	2012-09	RAN#57	R5s120565	1273	-	Correction to EUTRA RRC test case 8.1.3.7	10.0.0	10.1.0
2012-09 RAN#57 R5s120568 1276 - Addition of GCF WI-089 EUTRA test case 6.2.1.1 10.0.0 10.1.0 2012-09 RAN#57 R5s120570 1277 - Addition of GCF WI-087 LTE<>GERAN Multilayer Testcase 10.0.0 10.1.0 2012-09 RAN#57 R5s120572 1278 - Correction EUTRA<>GERAN Testcases using Multiple GERAN 10.0.0 10.1.0 2012-09 RAN#57 R5s120573 1279 - Correction to EUTRA<>UTRA Band IX Testcases 10.0.0 10.1.0 2012-09 RAN#57 R5s120574 1280 - Correction to GCF WI-087 EUTRA EMM testcase 9.2.3.2.13 10.0.0 10.1.0 2012-09 RAN#57 R5s120575 1281 - Correction to EMM test cases 9.3.1.4, 9.3.1.5, 9.3.1.6 10.0.0 10.1.0 2012-09 RAN#57 R5s120576 1282 - Correction for function fl_ConvertPLMN 10.0.0 10.1.0 2012-09 RAN#57 R5s120579 1283 - Correction to GCF WI-087 EUTRA EMM testcase 9.2.3.2.8 10.0.0 10.1.0 2012-09 RAN#57 R5s120579 1283 - Correction to GCF WI-087 EUTRA EMM testcase 9.2.3.2.8 10.0.0 10.1.0 2012-09 RAN#57 R5s120579 1283 - Correction to GCF WI-087 EUTRA EMM testcase 9.2.3.2.8 10.0.0 10.1.0 2012-09 RAN#57 R5s120580 1284 - LTE_TDD: Addition of EUTRA test case 8.1.3.12 10.0.0 10.1.0	2012-09	RAN#57	R5s120566	1274	-	Correction to applicability for test case 6.1.2.15	10.0.0	10.1.0
2012-09 RAN#57 R5s120570 1277 - Addition of GCF WI-087 LTE<>GERAN Multilayer Testcase 10.0.0 10.1.0 13.3.2.2 1278 - Correction EUTRA<>GERAN Testcases using Multiple GERAN 10.0.0 10.1.0	2012-09	RAN#57	R5s120567	1275	-	Correction to EMM test case 9.2.3.4.1	10.0.0	10.1.0
13.3.2.2 13.3.2.2 10.0.0 10.1.0 10.1.0 2012-09 RAN#57 R5s120575 1281 Correction to EMM test cases 9.3.1.4, 9.3.1.5, 9.3.1.6 10.0.0 10.1.0 2012-09 RAN#57 R5s120576 1282 Correction to GCF WI-087 EUTRA EMM testcase 9.2.3.2.8 10.0.0 10.1.0 2012-09 RAN#57 R5s120579 1283 Correction to GCF WI-087 EUTRA EMM testcase 9.2.3.2.8 10.0.0 10.1.0 2012-09 RAN#57 R5s120579 1283 Correction to GCF WI-087 EUTRA EMM testcase 9.2.3.2.8 10.0.0 10.1.0 2012-09 RAN#57 R5s120579 1283 Correction to GCF WI-087 EUTRA EMM testcase 9.2.3.2.8 10.0.0 10.1.0 2012-09 RAN#57 R5s120580 1284 Correction to GCF WI-087 EUTRA EMM testcase 9.2.3.2.8 10.0.0 10.1.0 2012-09 RAN#57 R5s120580 1284 LTE_TDD: Addition of EUTRA test case 8.1.3.12 10.0.0 10.1.0	2012-09	RAN#57	R5s120568	1276	-	Addition of GCF WI-089 EUTRA test case 6.2.1.1	10.0.0	10.1.0
2012-09 RAN#57 R5s120572 1278 - Correction EUTRA<>GERAN Testcases using Multiple GERAN [10.0.0] 10.1.0 2012-09 RAN#57 R5s120573 1279 - Correction to EUTRA<>UTRA Band IX Testcases 10.0.0 10.1.0 2012-09 RAN#57 R5s120574 1280 - Correction to GCF WI-087 EUTRA EMM testcase 9.2.3.2.13 10.0.0 10.1.0 2012-09 RAN#57 R5s120575 1281 - Correction to EMM test cases 9.3.1.4, 9.3.1.5, 9.3.1.6 10.0.0 10.1.0 2012-09 RAN#57 R5s120576 1282 - Correction for function fl_ConvertPLMN 10.0.0 10.1.0 2012-09 RAN#57 R5s120579 1283 - Correction to GCF WI-087 EUTRA EMM testcase 9.2.3.2.8 10.0.0 10.1.0 2012-09 RAN#57 R5s120580 1284 - LTE_TDD: Addition of EUTRA test case 8.1.3.12 10.0.0 10.1.0	2012-09	RAN#57	R5s120570	1277	-		10.0.0	10.1.0
2012-09 RAN#57 R5s120573 1279 - Correction to EUTRA<>UTRA Band IX Testcases 10.0.0 10.1.0 2012-09 RAN#57 R5s120574 1280 - Correction to GCF WI-087 EUTRA EMM testcase 9.2.3.2.13 10.0.0 10.1.0 2012-09 RAN#57 R5s120575 1281 - Correction to EMM test cases 9.3.1.4, 9.3.1.5, 9.3.1.6 10.0.0 10.1.0 2012-09 RAN#57 R5s120576 1282 - Correction for function fl_ConvertPLMN 10.0.0 10.1.0 2012-09 RAN#57 R5s120579 1283 - Correction to GCF WI-087 EUTRA EMM testcase 9.2.3.2.8 10.0.0 10.1.0 2012-09 RAN#57 R5s120580 1284 - LTE_TDD: Addition of EUTRA test case 8.1.3.12 10.0.0 10.1.0	2012-09	RAN#57	R5s120572	1278	-	Correction EUTRA<>GERAN Testcases using Multiple GERAN	10.0.0	10.1.0
2012-09 RAN#57 R5s120575 1281 - Correction to EMM test cases 9.3.1.4, 9.3.1.5, 9.3.1.6 10.0.0 10.1.0 2012-09 RAN#57 R5s120576 1282 - Correction for function fl_ConvertPLMN 10.0.0 10.1.0 2012-09 RAN#57 R5s120579 1283 - Correction to GCF WI-087 EUTRA EMM testcase 9.2.3.2.8 10.0.0 10.1.0 2012-09 RAN#57 R5s120580 1284 - LTE_TDD: Addition of EUTRA test case 8.1.3.12 10.0.0 10.1.0	2012-09	RAN#57	R5s120573	1279	-		10.0.0	10.1.0
2012-09 RAN#57 R5s120576 1282 - Correction for function fl_ConvertPLMN 10.0.0 10.1.0 2012-09 RAN#57 R5s120579 1283 - Correction to GCF WI-087 EUTRA EMM testcase 9.2.3.2.8 10.0.0 10.1.0 2012-09 RAN#57 R5s120580 1284 - LTE_TDD: Addition of EUTRA test case 8.1.3.12 10.0.0 10.1.0	2012-09	RAN#57	R5s120574	1280	-	Correction to GCF WI-087 EUTRA EMM testcase 9.2.3.2.13	10.0.0	10.1.0
2012-09 RAN#57 R5s120579 1283 - Correction to GCF WI-087 EUTRA EMM testcase 9.2.3.2.8 10.0.0 10.1.0 2012-09 RAN#57 R5s120580 1284 - LTE_TDD: Addition of EUTRA test case 8.1.3.12 10.0.0 10.1.0	2012-09	RAN#57	R5s120575	1281	-	Correction to EMM test cases 9.3.1.4, 9.3.1.5, 9.3.1.6	10.0.0	10.1.0
2012-09 RAN#57 R5s120580 1284 - LTE_TDD: Addition of EUTRA test case 8.1.3.12 10.0.0 10.1.0	2012-09	RAN#57	R5s120576	1282	-	Correction for function fl_ConvertPLMN	10.0.0	10.1.0
	2012-09	RAN#57	R5s120579	1283	-	Correction to GCF WI-087 EUTRA EMM testcase 9.2.3.2.8	10.0.0	10.1.0
2012-09 RAN#57 R5s120582 1285 - LTE_TDD: Addition of EUTRA test case 8.2.4.15 10.0.0 10.1.0	2012-09	RAN#57	R5s120580	1284	-	LTE_TDD: Addition of EUTRA test case 8.1.3.12	10.0.0	10.1.0
	2012-09	RAN#57	R5s120582	1285	-	LTE_TDD: Addition of EUTRA test case 8.2.4.15	10.0.0	10.1.0

2012-09 RANN67 R5s120686 1286 Correction to EUTRA EMM testcases 9.2.3.5.5a 0.0.0 10.1.0	Date	TSG #	TSG Doc.	CR	Rev	Subject/Comment	Old	New
22.2.1.12 and 9.2.3.1.16	2012-09	RAN#57	R5s120584	1286	-	Correction to EUTRA EMM testcase 9.2.3.3.5a	10.0.0	10.1.0
2012-09 RANNS7 R5s120586 1288 - Correction to Common IRAT NAS templates in LTE/SAE ATS 10.0.0 10.1.0 2012-09 RANNS7 R5s120587 1289 - Correction to LTE-⇒GERAN test cases 6.2.3.19 10.0.0 10.1.0 2012-09 RANNS7 R5s120580 1291 - LTE_TDD: Addition of GCF WI-097 EUTRA test case 6.2.3.20 10.0.0 10.1.0 2012-09 RANNS7 R5s120580 1291 - LTE_TDD: Addition of GCF WI-097 EUTRA test case 6.2.3.20 10.0.0 10.1.0 2012-09 RANNS7 R5s120580 1292 - LTE_TDD: Addition of GCF WI-097 Multilayer test case 13.1.7 10.0.0 10.1.0 2012-09 RANNS7 R5s120590 1292 - LTE_TDD: Addition of GCF WI-097 Multilayer test case 13.1.8 10.0.0 10.1.0 2012-09 RANNS7 R5s120600 1294 - Correction to GCF WI-097 Multilayer test case 13.1.9 10.0.0 10.1.0 2012-09 RANNS7 R5s120600 1294 - Correction to GCF WI-097 EUTRA Multilayer test case 13.1.9 10.0.0 10.1.0 2012-09 RANNS7 R5s120600 1295 - Correction to GCF WI-098 EMM test case 9.2.3.3 3 10.0.0 10.1.0 2012-09 RANNS7 R5s120604 1296 - Correction to GCF WI-098 EMM test case 9.2.3.3 3 10.0.0 10.1.0 2012-09 RANNS7 R5s120604 1296 - Correction to GCF WI-098 EMM test case 9.2.3.3 3 10.0.0 10.1.0 2012-19 RANNS7 R5s120604 1298 - Correction to GCF WI-098 EMM test case 9.2.3.3 3 10.0.0 10.1.0 2012-19 RANNS8 R5-125091 1298 - Correction to delay after RRC CONN REL in section 7.18 10.1.0 10.2.0 2012-12 RANNS8 R5-125127 1300 - Update guidelines for TC executions 10.1.0 10.2.0 2012-12 RANNS8 R5-125278 1302 - Change of default value for px_RRC_CipheringAligorithm 10.1.0 10.2.0 2012-12 RANNS8 R5-125278 1302 - Change of default value for px_RRC_CipheringAligorithm 10.1.0 10.2.0 2012-12 RANNS8 R5-125278 1302 - Change of default value for px_RRC_CipheringAligorithm 10.1.0 10.2.0 2012-12 RANNS8 R5s120613 1306 - LTE_TDD: Addition of GCF WI-091 EUTRA RRC test case 8.3.3.1 10.1.0 10.2.0 2012-12 RANNS8 R5s120613 1306 - LTE_TDD: Addition of GCF WI-091 EUTRA RRC test case 8.3.3.1 10.1.0 10.2.0 2012-12 RANNS8 R5s120613 1307 - Correction to EUTRA RRC test case 9.2.3.1.17 10.1.0 10.2.0 2012-12 RANNS8 R5s120639 1310 - Correction to EUTRA RRC test c	2012-09	RAN#57	R5s120585	1287	-		10.0.0	10.1.0
2012-09 RAN#57 R5s120588 1290 LTE_TDD: Addition of GCF WI-097 EUTRA test case 6.2.3.19 10.0.0 10.1.0	2012-09	RAN#57	R5s120586	1288	-		10.0.0	10.1.0
2012-09 RAN#57 R5s120590 1291 LTE_TDD: Addition of GCF WI-097 EUTRA test case 6.2.3.20 10.0.0 10.1.0	2012-09	RAN#57	R5s120587	1289	-	Correction to LTE<>GERAN test cases	10.0.0	10.1.0
Correction to GCF WI-097 Multilayer test case 13.1.7 10.0.0 10.1.0	2012-09	RAN#57	R5s120588	1290	-	LTE_TDD: Addition of GCF WI-097 EUTRA test case 6.2.3.19	10.0.0	10.1.0
2012-09 RAN#57 R5s120594 1293 LTE_TDD: Addition of GCF WI-097 Multilayer test case 13.1.8 10.0.0 10.1.0 2012-09 RAN#57 R5s120600 1294 Correction to GCF WI-097 EUTRA Multilayer test case 13.1.9 10.0.0 10.1.0 2012-09 RAN#57 R5s120602 1295 Correction for GERAN cell selection parameters 10.0.0 10.1.0 2012-09 RAN#57 R5s120604 1296 Correction to GCF WI-096 EMM test case 9.2.3.3.3 10.0.0 10.1.0 2012-09 RAN#57 R7s121107 1297 CR to 36.523-3. Add new verified and e-mail agreed TTCN test 10.0.0 10.1.0 2012-12 RAN#58 R5s120601 1298 Correction to System information scheduling in section 7.7.2 10.1.0 10.2.0 2012-12 RAN#58 R5s125051 1298 Correction to delay after RRC CONN REL in section 7.7.2 10.1.0 10.2.0 2012-12 RAN#58 R5s125127 1300 Update guidelines for TC executions 10.1.0 10.2.0 2012-12 RAN#58 R5s125127 1300 Update guidelines for TC executions 10.1.0 10.2.0 2012-12 RAN#58 R5s125755 1303 S6523-3: Routine maintenance and updates 10.1.0 10.2.0 2012-12 RAN#58 R5s12057 1304 Correction to Update of CF WI-091 EUTRA Idle mode testcase 10.1.0 10.2.0 2012-12 RAN#58 R5s120613 1305 LTE_TDD: Addition of GCF WI-091 EUTRA RC test case 8.3.3.1 10.1.0 10.2.0 2012-12 RAN#58 R5s120617 1308 Addition of GCF WI-091 EUTRA RC test case 8.3.3.1 10.1.0 10.2.0 2012-12 RAN#58 R5s120617 1308 Addition of GCF WI-091 EUTRA RC test case 9.2.3.2.13 10.1.0 10.2.0 2012-12 RAN#58 R5s120619 1309 LTE_TDD: Addition of GCF WI-091 EUTRA RC test case 9.3.3.1 10.1.0 10.2.0 2012-12 RAN#58 R5s120619 1309 LTE_TDD: Addition of GCF WI-091 EUTRA RC test case 9.3.3.1 10.1.0 10.2.0 2012-12 RAN#58 R5s120639 1311 Correction to EUTRA MC test case 7.1.6.1 10.1.0 10.2.0 2012-12 RAN#58 R5s120639 1311 Correction to EUTRA MC test case 7.1.6.1 10.1.0 10.2.0 2012-12 RAN#58 R5s120639 1315 Correction to EUTRA GERAN Multi-Laye	2012-09	RAN#57	R5s120590	1291	-	LTE_TDD: Addition of GCF WI-097 EUTRA test case 6.2.3.20	10.0.0	10.1.0
2012-09	2012-09	RAN#57	R5s120592	1292	-	LTE_TDD: Addition of GCF WI-097 Multilayer test case 13.1.7	10.0.0	10.1.0
2012-09	2012-09	RAN#57	R5s120594	1293	_	LTE_TDD: Addition of GCF WI-097 Multilayer test case 13.1.8	10.0.0	10.1.0
2012-09	2012-09	RAN#57	R5s120600	1294	-	Correction to GCF WI-087 EUTRA Multilayer testcase 13.1.9	10.0.0	10.1.0
2012-09	2012-09	RAN#57	R5s120602	1295	-	Correction for GERAN cell selection parameters	10.0.0	10.1.0
2012-09 RAN#57 RP-121107 1297 CR to 36.523-3: Add new verified and e-mail agreed TTCN test cases in the TC lists in 36.523-3 (prose). Annex A 10.0.0 10.1.0 10.2.0 2012-12 RAN#58 R5-125091 1298 Correction to system information scheduling in section 7.7.2 10.1.0 10.2.0 2012-12 RAN#58 R5-125093 1299 Correction to delay after RRC CONN REL in section 7.1.8 10.1.0 10.2.0 2012-12 RAN#58 R5-125127 1300 Update guidelines for TC executions 10.1.0 10.2.0 2012-12 RAN#58 R5-125133 1301 New PIXIT to minimize loopback delay 10.1.0 10.2.0 2012-12 RAN#58 R5-12578 1302 Change of default value for px_RRC_CipheringAlgorithm 10.1.0 10.2.0 2012-12 RAN#58 R5-125755 1303 36523-3: Routine maintenance and updates 10.1.0 10.2.0 2012-12 RAN#58 R5-125755 1303 36523-3: Routine maintenance and updates 10.1.0 10.2.0 2012-12 RAN#58 R5-125755 1303 36523-3: Routine maintenance and updates 10.1.0 10.2.0 2012-12 RAN#58 R5-125755 1303 Correction to UT function for "UE Switch On" in LTE/SAE ATS 10.1.0 10.2.0 6.1.1.6	2012-09	RAN#57	R5s120604	1296	-	·		
Carestin the TC lists in 36.523-3 (prose), Annex A Correction to system information scheduling in section 7.7.2 10.1.0 10.2.0					_			
2012-12 RAN#58 R5-125093 1299 Correction to delay after RRC CONN REL in section 7.18 10.1.0 10.2.0						cases in the TC lists in 36.523-3 (prose), Annex A		
2012-12 RAN#58 R5-125127 1300 Update guidelines for TC executions 10.1.0 10.2.0 2012-12 RAN#58 R5-125127 1300 New PIXIT to minimize loopback delay 10.1.0 10.2.0 2012-12 RAN#58 R5-125278 1302 Change of default value for px_RRC_CipheringAlgorithm 10.1.0 10.2.0 2012-12 RAN#58 R5-125755 1303 36523-3: Routine maintenance and updates 10.1.0 10.2.0 2012-12 RAN#58 R5s120597 1304 Correction to UT function for "UE Switch On" in LTE/SAE ATS 10.1.0 10.2.0 2012-12 RAN#58 R5s120611 1305 LTE_TDD: Addition of GCF WI-091 EUTRA Idle mode testcase 10.1.0 10.2.0 2012-12 RAN#58 R5s120613 1306 LTE_TDD: Addition of GCF WI-091 EUTRA RRC test case 8.3.3.1 10.1.0 10.2.0 2012-12 RAN#58 R5s120615 1307 Correction for GERAN initialisation functions 10.1.0 10.2.0 2012-12 RAN#58 R5s120619 1309 LTE_TDD: Addition of GCF WI-091 EUTRA RRC test case 8.3.3.1 10.1.0 10.2.0 2012-12 RAN#58 R5s120623 1310 Correction to EUTRA RRC test case 8.5.4.1 10.1.0 10.2.0 2012-12 RAN#58 R5s120623 1310 Correction to EUTRA RRC test case 8.5.4.1 10.1.0 10.2.0 2012-12 RAN#58 R5s120628 1311 Correction to EUTRA RRC test case 9.2.3.2.13 10.1.0 10.2.0 2012-12 RAN#58 R5s120628 1311 Correction to EUTRA RRC test case 9.2.3.1.17 10.1.0 10.2.0 2012-12 RAN#58 R5s120628 1311 Correction to EUTRA RC test case 7.1.3.9 10.1.0 10.2.0 2012-12 RAN#58 R5s120632 1313 Correction to EUTRA RC test case 7.1.3.9 10.1.0 10.2.0 2012-12 RAN#58 R5s120639 1316 Correction to EUTRA RAC test case 7.1.3.9 10.1.0 10.2.0 2012-12 RAN#58 R5s120639 1316 Correction to EUTRA GERAN Multi-Layer test cases 13.1.7, 13.1.8, 10.1.0 10.2.0 2012-12 RAN#58 R5s120639 1316 Correction to EUTRA-GERAN Multi-Layer test case 6.2.3.17 10.1.0 10.2.0 2012-12 RAN#58 R5s120642 1319 Correction to EUTRA-GERAN Multi-Layer test case 6.2.3.17 10.1.0 10.2.0 2012-12 RAN#58								
2012-12 RAN#58 R5-125133 1301 - New PIXIT to minimize loopback delay 10.1.0 10.2.0 10.2.0 2012-12 RAN#58 R5-12578 1302 - Change of default value for px_RRC_CipheringAlgorithm 10.1.0 10.2.0 2012-12 RAN#58 R5-125755 1303 - 36523-3: Routine maintenance and updates 10.1.0 10.2.0 2012-12 RAN#58 R5s120597 1304 - Correction to UT function for "UE Switch On" in LTE/SAE ATS 10.1.0 10.2.0 2012-12 RAN#58 R5s120611 1305 - LTE_TDD: Addition of GCF WI-091 EUTRA Idle mode testcase 10.1.0 10.2.0 61.1.6 61						•		
2012-12 RAN#58 R5-125278 1302 Change of default value for px_RRC_CipheringAlgorithm 10.1.0 10.2.0					-			
2012-12 RAN#58 R5-125755 1303 - 36523-3: Routine maintenance and updates 10.1.0 10.2.0 2012-12 RAN#58 R5-125755 1303 - Correction to UT function for "UE Switch On" in LTE/SAE ATS 10.1.0 10.2.0 2012-12 RAN#58 R5-120611 1305 - LTE_TDD: Addition of GCF WI-091 EUTRA Idle mode testcase 10.1.0 10.2.0 6.1.1.6 2012-12 RAN#58 R5-120613 1306 - LTE_TDD: Addition of GCF WI-091 EUTRA RRC test case 8.3.3.1 10.1.0 10.2.0 2012-12 RAN#58 R5-120615 1307 - Correction for GERAN initialisation functions 10.1.0 10.2.0 2012-12 RAN#58 R5-120617 1308 - Addition of GCF WI-081 EUTRA Manual CSG Testcase 6.3.5 10.1.0 10.2.0 2012-12 RAN#58 R5-120619 1309 - LTE_TDD: Addition of GCF WI-097 EMM testcase 9.2.3.2.13 10.1.0 10.2.0 2012-12 RAN#58 R5-120629 1310 - Correction to EUTRA RRC test case 8.5.4.1 10.1.0 10.2.0 2012-12 RAN#58 R5-120629 1312 - Correction to EUTRA RRC test case 9.2.3.1.17 10.1.0 10.2.0 2012-12 RAN#58 R5-120629 1312 - Correction to EUTRA MAC test case 7.1.3.9 10.1.0 10.2.0 2012-12 RAN#58 R5-120632 1313 - LTE_TDD: Addition of GCF WI-092 EMM testcase 9.3.1.6 10.1.0 10.2.0 2012-12 RAN#58 R5-120632 1313 - LTE_TDD: Addition of GCF WI-092 EMM testcase 9.3.1.6 10.1.0 10.2.0 2012-12 RAN#58 R5-120637 1315 - Correction to EUTRA MAC test case 7.1.6.1 10.1.0 10.2.0 2012-12 RAN#58 R5-120637 1315 - Correction to EUTRA MAC test case 7.1.6.1 10.1.0 10.2.0 2012-12 RAN#58 R5-120637 1315 - Correction to EUTRA-GERAN Multi-Layer test cases 13.1.7, 13.1.8, 10.1.0 10.2.0 2012-12 RAN#58 R5-120639 1317 - Correction to EUTRA-GERAN Multi-Layer test cases 6.2.3.17 10.1.0 10.2.0 2012-12 RAN#58 R5-120639 1317 - Correction to EUTRA-GERAN Idle Mode test case 6.2.3.17 10.1.0 10.2.0 2012-12 RAN#58 R5-120641 1318 - Correction to EUTRA-GERAN Idle Mode test case 6.2.3.17 10.1.0 10.2.0 2012-12 RAN#58 R5-120642 1319 - Correction to EUTRA-GERAN Idle Mode test case 6.2.3.17 10.1.0 10.2.0 2012-12 RAN#58 R5-120643 1320 - LTE_TDD: Addition of GCF WI-097 EMM testcase 9.2.3.2.14 10.1.0 10.2.0 2012-12 RAN#58 R5-120643 1320 - LTE_TDD: Addition of GCF WI-097 EMM testcase 9.2					_	, ,		
2012-12 RAN#58 R5s120597 1304 -					-	, , , , ,		
2012-12 RAN#58 R5s120611 1305 - LTE_TDD: Addition of GCF WI-091 EUTRA Idle mode testcase 10.1.0 10.2.0					-	'		
6.1.1.6					-			
2012-12 RAN#58 R5s120615 1307 - Correction for GERAN initialisation functions 10.1.0 10.2.0	2012-12	RAN#58			-	6.1.1.6		
2012-12 RAN#58 R5s120617 1308 - Addition of GCF WI-081 EUTRA Manual CSG Testcase 6.3.5 10.1.0 10.2.0	2012-12	RAN#58			-	LTE_TDD: Addition of GCF WI-091 EUTRA RRC test case 8.3.3.1	10.1.0	10.2.0
2012-12 RAN#58 R5s120619 1309 - LTE_TDD: Addition of GCF WI-097 EMM testcase 9.2.3.2.13 10.1.0 10.2.0	2012-12	RAN#58	R5s120615	1307	-	Correction for GERAN initialisation functions	10.1.0	10.2.0
2012-12 RAN#58 R5s120623 1310 -	2012-12	RAN#58	R5s120617	1308	-	Addition of GCF WI-081 EUTRA Manual CSG Testcase 6.3.5	10.1.0	10.2.0
2012-12 RAN#58 R5s120628 1311 -	2012-12	RAN#58	R5s120619	1309	-	LTE_TDD: Addition of GCF WI-097 EMM testcase 9.2.3.2.13	10.1.0	10.2.0
2012-12 RAN#58 R5s120629 1312 - Correction to EUTRA MAC test case 7.1.3.9 10.1.0 10.2.0 2012-12 RAN#58 R5s120632 1313 - LTE_TDD: Addition of GCF WI-092 EMM testcase 9.3.1.6 10.1.0 10.2.0 2012-12 RAN#58 R5s120634 1314 - Correction to EUTRA MAC test case 7.1.6.1 10.1.0 10.2.0 2012-12 RAN#58 R5s120637 1315 - Correction to EUTRA-GERAN Multi-Layer test cases 13.1.7, 13.1.8, 10.1.0 10.2.0 2012-12 RAN#58 R5s120638 1316 - Correction to EUTRA-GERAN Idle Mode test case 6.2.3.17 10.1.0 10.2.0 2012-12 RAN#58 R5s120639 1317 - Correction to EMM test case 9.2.3.3.5a 10.1.0 10.2.0 2012-12 RAN#58 R5s120641 1318 - Correction to EUTRA test cases 10.1.0 10.2.0 2012-12 RAN#58 R5s120642 1319 - Correction to function f_IPv4IPv6_IcmpEchoReply 10.1.0 10.2.0 2012-12 RAN#58 R5s12064	2012-12	RAN#58	R5s120623	1310	-	Correction to EUTRA RRC test case 8.5.4.1	10.1.0	10.2.0
2012-12 RAN#58 R5s120632 1313 - LTE_TDD: Addition of GCF WI-092 EMM testcase 9.3.1.6 10.1.0 10.2.0	2012-12	RAN#58	R5s120628	1311	-	Correction to EMM test case 9.2.3.1.17	10.1.0	10.2.0
2012-12 RAN#58 R5s120634 1314 - Correction to EUTRA MAC test case 7.1.6.1 10.1.0 10.2.0 2012-12 RAN#58 R5s120637 1315 - Correction to EUTRA-GERAN Multi-Layer test cases 13.1.7, 13.1.8, 10.1.0 10.2.0 2012-12 RAN#58 R5s120638 1316 - Correction to EUTRA-GERAN Idle Mode test case 6.2.3.17 10.1.0 10.2.0 2012-12 RAN#58 R5s120639 1317 - Correction to EMM test case 9.2.3.3.5a 10.1.0 10.2.0 2012-12 RAN#58 R5s120641 1318 - Correction to EUTRA test cases 10.1.0 10.2.0 2012-12 RAN#58 R5s120642 1319 - Correction to function f_IPv4IPv6_IcmpEchoReply 10.1.0 10.2.0 2012-12 RAN#58 R5s120643 1320 - LTE_TDD: Addition of GCF WI-097 EMM testcase 9.2.3.2.14 10.1.0 10.2.0 2012-12 RAN#58 R5s120647 1321 - Addition of EUTRA test case 6.1.2.15b 10.1.0 10.2.0	2012-12	RAN#58	R5s120629	1312	-	Correction to EUTRA MAC test case 7.1.3.9	10.1.0	10.2.0
2012-12 RAN#58 R5s120637 1315 - Correction to EUTRA-GERAN Multi-Layer test cases 13.1.7, 13.1.8, 10.1.0 10.2.0 2012-12 RAN#58 R5s120638 1316 - Correction to EUTRA-GERAN Idle Mode test case 6.2.3.17 10.1.0 10.2.0 2012-12 RAN#58 R5s120639 1317 - Correction to EMM test case 9.2.3.3.5a 10.1.0 10.2.0 2012-12 RAN#58 R5s120641 1318 - Correction to EUTRA test cases 10.1.0 10.2.0 2012-12 RAN#58 R5s120642 1319 - Correction to function f_IPv4IPv6_IcmpEchoReply 10.1.0 10.2.0 2012-12 RAN#58 R5s120643 1320 - LTE_TDD: Addition of GCF WI-097 EMM testcase 9.2.3.2.14 10.1.0 10.2.0 2012-12 RAN#58 R5s120647 1321 - Addition of EUTRA test case 6.1.2.15b 10.1.0 10.2.0	2012-12	RAN#58	R5s120632	1313	-	LTE_TDD: Addition of GCF WI-092 EMM testcase 9.3.1.6	10.1.0	10.2.0
13.1.9 and 13.1.10 2012-12 RAN#58 R5s120638 1316 -	2012-12	RAN#58	R5s120634	1314	-	Correction to EUTRA MAC test case 7.1.6.1	10.1.0	10.2.0
2012-12 RAN#58 R5s120638 1316 - Correction to EUTRA-GERAN Idle Mode test case 6.2.3.17 10.1.0 10.2.0 2012-12 RAN#58 R5s120639 1317 - Correction to EMM test case 9.2.3.3.5a 10.1.0 10.2.0 2012-12 RAN#58 R5s120641 1318 - Correction to EUTRA test cases 10.1.0 10.2.0 2012-12 RAN#58 R5s120642 1319 - Correction to function f_IPv4IPv6_IcmpEchoReply 10.1.0 10.2.0 2012-12 RAN#58 R5s120643 1320 - LTE_TDD: Addition of GCF WI-097 EMM testcase 9.2.3.2.14 10.1.0 10.2.0 2012-12 RAN#58 R5s120647 1321 - Addition of EUTRA test case 6.1.2.15b 10.1.0 10.2.0	2012-12	RAN#58	R5s120637	1315	-		10.1.0	10.2.0
2012-12 RAN#58 R5s120641 1318 - Correction to EUTRA test cases 10.1.0 10.2.0 2012-12 RAN#58 R5s120642 1319 - Correction to function f_IPv4IPv6_IcmpEchoReply 10.1.0 10.2.0 2012-12 RAN#58 R5s120643 1320 - LTE_TDD: Addition of GCF WI-097 EMM testcase 9.2.3.2.14 10.1.0 10.2.0 2012-12 RAN#58 R5s120647 1321 - Addition of EUTRA test case 6.1.2.15b 10.1.0 10.2.0	2012-12	RAN#58	R5s120638	1316	-	Correction to EUTRA-GERAN Idle Mode test case 6.2.3.17	10.1.0	10.2.0
2012-12 RAN#58 R5s120642 1319 - Correction to function f_IPv4IPv6_IcmpEchoReply 10.1.0 10.2.0 2012-12 RAN#58 R5s120643 1320 - LTE_TDD: Addition of GCF WI-097 EMM testcase 9.2.3.2.14 10.1.0 10.2.0 2012-12 RAN#58 R5s120647 1321 - Addition of EUTRA test case 6.1.2.15b 10.1.0 10.2.0	2012-12	RAN#58	R5s120639	1317	-	Correction to EMM test case 9.2.3.3.5a	10.1.0	10.2.0
2012-12 RAN#58 R5s120643 1320 - LTE_TDD: Addition of GCF WI-097 EMM testcase 9.2.3.2.14 10.1.0 10.2.0 2012-12 RAN#58 R5s120647 1321 - Addition of EUTRA test case 6.1.2.15b 10.1.0 10.2.0	2012-12	RAN#58	R5s120641	1318	-	Correction to EUTRA test cases	10.1.0	10.2.0
2012-12 RAN#58 R5s120647 1321 - Addition of EUTRA test case 6.1.2.15b 10.1.0 10.2.0	2012-12	RAN#58	R5s120642	1319	-	Correction to function f_IPv4IPv6_IcmpEchoReply	10.1.0	10.2.0
	2012-12	RAN#58	R5s120643	1320	-	LTE_TDD: Addition of GCF WI-097 EMM testcase 9.2.3.2.14	10.1.0	10.2.0
2012-12 RAN#58 R5s120649 1322 - Addition of GCF WI-086 EMM test case 9.2.3.2.1b 10.1.0 10.2.0	2012-12	RAN#58	R5s120647	1321	-	Addition of EUTRA test case 6.1.2.15b	10.1.0	10.2.0
	2012-12	RAN#58	R5s120649	1322	-	Addition of GCF WI-086 EMM test case 9.2.3.2.1b	10.1.0	10.2.0

Addition of GCF WI-151 LTE FDD-TDD Inter-mode test case	Date	TSG #	TSG Doc.	CR	Rev	Subject/Comment	Old	New
2012-12 RANNES R65120633 1324 - Addition of GCF WI-151 LTE FDD-TDD Inter-mode test case 10.1.0 10.2.0	2012-12	RAN#58	R5s120651	1323	-		10.1.0	10.2.0
2012-12 RANNES R5120655 1325 - Addition of GGF WI-151 LTE FDD-TDD Inter-mode test case 10.1.0 10.2 0 2012-12 RANNES R5120657 1326 - Correction to EUTRA MAC test case 7.1.6.2 10.1.0 10.2.0 10.2.0 10.1.2 10.2.0 10.	2012-12	RAN#58	R5s120653	1324	-	Addition of GCF WI-151 LTE FDD-TDD Inter-mode test case	10.1.0	10.2.0
2012-12 RANASS RS120657 1326 - Correction for GERAN PTC initialisation 10.1.0 10.2.0 20.12-12 RANASS RS120658 1327 - Correction to EUTRA MAC test case 7.1.6.2 10.1.0 10.2.0 20.12-12 RANASS RS120659 1328 - Correction to EUTRA InterRAT test function 10.1.0 10.2.0 20.12-12 RANASS RS120660 1329 - Correction to EUTRA InterRAT test function 10.1.0 10.2.0 20.12-12 RANASS RS120661 1330 - Addition of GCF Wi-151 LTE FDD-TDD Inter-mode test case 10.1.0 10.2.0 6.1.1.1a 20.12-12 RANASS RS120666 1332 - Correction to EUTRA InterRAT testcases 10.1.0 10.2.0	2012-12	RAN#58	R5s120655	1325	-	Addition of GCF WI-151 LTE FDD-TDD Inter-mode test case	10.1.0	10.2.0
2012-12 RAN#658 R6s120665 1328 Correction to EUTRA InterRAT test function 10.1.0 10.2.0	2012-12	RAN#58	R5s120657	1326	-		10.1.0	10.2.0
2012-12 RAN#58 R5s120660 1329 Correction to EUTRA InterRAT Testcases 10.1.0 10.2.0	2012-12	RAN#58	R5s120658	1327	-	Correction to EUTRA MAC test case 7.1.6.2	10.1.0	10.2.0
2012-12 RAN#58 R5s120661 1330 - Addition of GCF WI-151 LTE FDD-TDD Inter-mode test case (a.1.1.0) 10.2.0 (b.1.1.1a) Addition of GCF WI-151 LTE FDD-TDD Inter-mode test case (a.1.0.1.0) 10.2.0 (a.1.1.a) (b.1.1.a) (b.2.0 (a.1.1.a) (a.1.1.	2012-12	RAN#58	R5s120659	1328	-	Correction to EUTRA InterRAT test function	10.1.0	10.2.0
S.1.1.18	2012-12	RAN#58	R5s120660	1329	-	Correction to EUTRA InterRAT Testcases	10.1.0	10.2.0
2012-12 RAN#58 R5s120683 1331 Addition of GCF WI-161 LTE FDD-TDD Inter-mode test case	2012-12	RAN#58	R5s120661	1330	-		10.1.0	10.2.0
2012-12 RAN#58 R5120668 1332 - Correction to Selection Expressions in LTE/SAE ATS 10.1.0 10.2.0 2012-12 RAN#58 R5120667 1333 - Correction to EUTRA MAC Testcase 7.1.3.9 10.1.0 10.2.0 2012-12 RAN#58 R5120668 1334 - Correction to EUTRA GCF WI-086 Multilayer Testcase 13.1.3 10.1.0 10.2.0 2012-12 RAN#58 R5120669 1335 - Correction to EUTRA GCF WI-086 EMM Testcase 9.2.1.2.1b 10.1.0 10.2.0 2012-12 RAN#58 R5120670 1336 - Correction to EUTRA GCF WI-086 EMM Testcase 9.2.1.2.1b 10.1.0 10.2.0 2012-12 RAN#58 R5120671 1337 - Correction to EUTRA GCF WI-086 RRC Testcase 8.4.1.5 10.1.0 10.2.0 2012-12 RAN#58 R5120672 1338 - Correction to EUTRA GCF WI-086 RRC Testcase 8.4.1.5 10.1.0 10.2.0 2012-12 RAN#58 R5120673 1339 - Correction to Multilayer test case 13.4.2.4 10.1.0 10.2.0 2012-12 RAN#58 R5120673 1339 - Correction to f_UTRAN_CS_Fallback_WithHandover function 10.1.0 10.2.0 2012-12 RAN#58 R5120678 1340 - Addition of Rel 9 EUTRA RRC Interband Testcase 8.3.1.12 10.1.0 10.2.0 2012-12 RAN#58 R5120678 1342 - Addition of Rel 9 EUTRA RRC Interband Testcase 8.3.1.14 10.1.0 10.2.0 2012-12 RAN#58 R5120681 1343 - Addition of Rel 9 EUTRA RRC Interband Testcase 8.3.1.15 10.1.0 10.2.0 2012-12 RAN#58 R5120683 1344 - Correction to EUTRA EMM Testcase 9.2.3.1.23 and 9.2.3.2.3 10.1.0 10.2.0 2012-12 RAN#58 R5120688 1345 - Correction to EUTRA EMM Testcase 9.2.3.1.23 and 9.2.3.2.3 10.1.0 10.2.0 2012-12 RAN#58 R5120688 1345 - Correction to EUTRA EMM Testcase 9.2.3.1.23 and 9.2.3.2.3 10.1.0 10.2.0 2012-12 RAN#58 R5120688 1347 - Correction to EUTRA EMM Testcase 9.2.3.1.23 and 9.2.3.3.2 10.1.0 10.2.0 2012-12 RAN#58 R5120689 1347 - Correction to GCF WI-086 EMM Testcase 9.2.3.3.2 10.1.0 10.2.0 2012-12 RAN#58 R5120689 1349 - LTE_TDD: Addition of GCF WI-086 EMM Testcase 9.2.3.3.1 10.1.0 10.2.0 2012-12 RAN#58 R5120698 1349 - LTE_TDD: Addition of GCF WI-086 EMM test case 9.2.3.3.1 10.1.0 10.2.0 2012-12 RAN#58 R5120699 1355 - Correction to GCF WI-086 EMM test case 9.2.3.1.1 10.1.0 10.2.0 2012-12 RAN#58 R55120699 1355 - Correction to EUTRA EMM Test case 9.2.3.3.	2012-12	RAN#58	R5s120663	1331	-	Addition of GCF WI-151 LTE FDD-TDD Inter-mode test case	10.1.0	10.2.0
2012-12 RAN#58 R5s120669 1335 - Correction to EUTRA GCF WI-086 Multilayer Testcase 13.1.3 10.1.0 10.2.0 2012-12 RAN#58 R5s120670 1336 - Correction to EUTRA GCF WI-086 EMM Testcase 9.2.1.2.1b 10.1.0 10.2.0 2012-12 RAN#58 R5s120670 1336 - Correction to EUTRA Idle Mode test case 6.2.3.15 10.1.0 10.2.0 2012-12 RAN#58 R5s120671 1337 - Correction to EUTRA Idle Mode test case 6.2.3.15 10.1.0 10.2.0 2012-12 RAN#58 R5s120672 1338 - Correction to Multilayer fest case 13.4.2.4 10.1.0 10.2.0 2012-12 RAN#58 R5s120673 1339 - Correction to I_UTRAN_CS_Fallback_WithHandover function 10.1.0 10.2.0 2012-12 RAN#58 R5s120675 1340 - Addition of Rel 9 EUTRA RRC Interband Testcase 8.3.1.12 10.1.0 10.2.0 2012-12 RAN#58 R5s120677 1341 - Addition of Rel 9 EUTRA RRC Interband Testcase 8.3.1.14 10.1.0 10.2.0 2012-12 RAN#58 R5s120679 1342 - Addition of Rel 9 EUTRA RRC Interband Testcase 8.3.1.14 10.1.0 10.2.0 2012-12 RAN#58 R5s120681 1343 - Addition of Rel 9 EUTRA RRC Interband Testcase 8.3.1.15 10.1.0 10.2.0 2012-12 RAN#58 R5s120681 1343 - Addition of Rel 9 EUTRA RRC Interband Testcase 8.3.1.15 10.1.0 10.2.0 2012-12 RAN#58 R5s120681 1343 - Addition of Rel 9 EUTRA RRC Interband Testcase 8.3.1.15 10.1.0 10.2.0 2012-12 RAN#58 R5s120681 1345 - Correction to EUTRA EMM Testcase 9.2.3.1.23 and 9.2.3.2.3 10.1.0 10.2.0 2012-12 RAN#58 R5s120686 1346 - Correction to GCF WI-081 EUTRA CSG Testcase 6.3.5 10.1.0 10.2.0 2012-12 RAN#58 R5s120688 1346 - Correction to GCF WI-086 EUTRA EMM Testcase 9.2.3.3.2 10.1.0 10.2.0 2012-12 RAN#58 R5s120689 1349 - LTE_TDD: Addition of GCF WI-086 EUTRA ERM Testcase 8.4.2.2 10.1.0 10.2.0 2012-12 RAN#58 R5s120689 1350 - Addition of GCF WI-086 EUTRA EMM Test case 9.2.3.3.1 10.1.0 10.2.0 2012-12 RAN#58 R5s120699 1351 - Correction to EUTRA EMM Test case 9.2.3.1.16 10.1.0 10.2.0 2012-12 RAN#58 R5s120699 1351 - Correction to EUTRA EMM Test case 9.2.3.1.16 10.1.0 10.2.0 2012-12 RAN#58 R5s120699 1355 - Correction to EUTRA EMM Test case 9.2.3.3.3 10.1.0 10.2.0 2012-12 RAN#58 R5s120699 1355 - Correction to EUTRA EMM Test case 9.2.	2012-12	RAN#58	R5s120666	1332	-		10.1.0	10.2.0
2012-12 RAN#58 R5s120689 1335 Correction to EUTRA GCF WI-086 EMM Testcase 9.2.1.2.1b 10.1.0 10.2.0	2012-12	RAN#58	R5s120667	1333	-	Correction to EUTRA MAC Testcase 7.1.3.9	10.1.0	10.2.0
2012-12 RAN#58 R5s120670 1336 - Correction to EUTRA Idle Mode test case 6.2.3.15 10.1.0 10.2.0 2012-12 RAN#58 R5s120671 1337 - Correction to EUTRA Idle Mode test case 6.2.3.15 10.1.0 10.2.0 2012-12 RAN#58 R5s120672 1338 - Correction to EUTRA GCF WI-086 RRC Testcase 8.4.1.5 10.1.0 10.2.0 2012-12 RAN#58 R5s120673 1339 - Correction to Multilayer test case 13.4.2.4 10.1.0 10.2.0 2012-12 RAN#58 R5s120675 1340 - Addition of Rel 9 EUTRA RRC Interband Testcase 8.3.1.12 10.1.0 10.2.0 2012-12 RAN#58 R5s120677 1341 - Addition of Rel 9 EUTRA RRC Interband Testcase 8.3.1.14 10.1.0 10.2.0 2012-12 RAN#58 R5s120679 1342 - Addition of Rel 9 EUTRA RRC Interband Testcase 8.3.1.14 10.1.0 10.2.0 2012-12 RAN#58 R5s120681 1343 - Addition of Rel 9 EUTRA RRC Interband Testcase 8.3.1.15 10.1.0 10.2.0 2012-12 RAN#58 R5s120681 1344 - Correction to EUTRA EMM Testcase 9.2.3.1.23 and 9.2.3.2.3 10.1.0 10.2.0 2012-12 RAN#58 R5s120681 1345 - Correction to GCF WI-081 EUTRA CSG Testcase 6.3.5 10.1.0 10.2.0 2012-12 RAN#58 R5s120686 1347 - Correction to GCF WI-080 EUTRA SECTION TO EUTRA EMM Testcase 9.2.3.3.2 10.1.0 10.2.0 2012-12 RAN#58 R5s120686 1347 - Correction to GCF WI-080 EUTRA EMM Testcase 9.2.3.3.2 10.1.0 10.2.0 2012-12 RAN#58 R5s120686 1347 - Correction to GCF WI-080 EUTRA EMM Testcase 9.2.3.3.2 10.1.0 10.2.0 2012-12 RAN#58 R5s120686 1347 - Correction to GCF WI-080 EUTRA EMM Testcase 9.2.3.3.2 10.1.0 10.2.0 2012-12 RAN#58 R5s120686 1349 - Correction to GCF WI-080 EUTRA EMM Testcase 9.2.3.3.2 10.1.0 10.2.0 2012-12 RAN#58 R5s120686 1350 - Addition of GCF WI-080 EUTRA EMM Test case 9.2.3.1.16 10.1.0 10.2.0 2012-12 RAN#58 R5s120698 1355 - Corrections to EUTRA EMM Test case 9.2.3.1.16 10.1.0 10.2.0 2012-12 RAN#58 R5s120698 1355 - Corrections to EUTRA EMM Test case 9.2.3.1.16 10.1.0 10.2.0 2012-12 RAN#58 R5s120698 1355 - Corrections to EUTRA EMM Test case 9.2.3.3.3 10.1.0 10.2.0 2012-12 RAN#58 R5s120698 1355 - Corrections to EUTRA EMM Test case 9.2.3.3.3 10.1.0 10.2.0 2012-12 RAN#58 R5s120698 1355 - Corrections to EUTRA EMM Test case 9.2.3.3.3	2012-12	RAN#58	R5s120668	1334	-	Correction to EUTRA GCF WI-086 Multilayer Testcase 13.1.3	10.1.0	10.2.0
2012-12 RAN#58 R5s120671 1337 Correction to EUTRA GCF WI-086 RRC Testcase 8.4.1.5 10.1.0 10.2.0	2012-12	RAN#58	R5s120669	1335	-	Correction to EUTRA GCF WI-086 EMM Testcase 9.2.1.2.1b	10.1.0	10.2.0
2012-12 RAN#58 R5s120672 1338 - Correction to Multilayer test case 13.4.2.4 10.1.0 10.2.0	2012-12	RAN#58	R5s120670	1336	-	Correction to EUTRA Idle Mode test case 6.2.3.15	10.1.0	10.2.0
2012-12 RAN#58 R5s120673 1339 - Correction to f_UTRAN_CS_Fallback_WithHandover function 10.1.0 10.2.0	2012-12	RAN#58	R5s120671	1337	-	Correction to EUTRA GCF WI-086 RRC Testcase 8.4.1.5	10.1.0	10.2.0
2012-12 RAN#58 R5s120675 1340 - Addition of Rel 9 EUTRA RRC Interband Testcase 8.3.1.12 10.1.0 10.2.0 2012-12 RAN#58 R5s120677 1341 - Addition of Rel 9 EUTRA RRC Interband Testcase 8.3.1.14 10.1.0 10.2.0 2012-12 RAN#58 R5s120679 1342 - Addition of Rel 9 EUTRA RRC Interband Testcase 13.4.1.4 10.1.0 10.2.0 2012-12 RAN#58 R5s120681 1343 - Addition of Rel 9 EUTRA RRC Interband Testcase 8.3.1.15 10.1.0 10.2.0 2012-12 RAN#58 R5s120683 1344 - Correction to EUTRA EMM Testcase 9.2.3.1.23 and 9.2.3.2.3 10.1.0 10.2.0 2012-12 RAN#58 R5s120683 1345 - Correction to GCF WI-081 EUTRA CSG Testcase 6.3.5 10.1.0 10.2.0 2012-12 RAN#58 R5s120685 1346 - Correction to Idle ModeTest Cases 6.1.1.3, 6.1.1.3b and 6.2.1.4. 10.1.0 10.2.0 2012-12 RAN#58 R5s120686 1347 - Correction to GCF WI-086 UTRA EUTRA RRC Testcases 8.4.2.2 10.1.0 10.2.0 2012-12 RAN#58 R5s120689 1349 - LTE_TDD: Addition of GCF WI-097 EUTRA RRC Testcase 8.4.3.2 10.1.0 10.2.0 2012-12 RAN#58 R5s120695 1350 - Addition of GCF WI-151 LTE FDD-TDD Inter-mode test case 10.1.0 10.2.0 2012-12 RAN#58 R5s120695 1351 - Correction to EUTRA EMM Test case 9.2.3.4.1 10.1.0 10.2.0 2012-12 RAN#58 R5s120696 1352 - Correction to EUTRA EMM Test case 9.2.3.3.3 10.1.0 10.2.0 2012-12 RAN#58 R5s120696 1352 - Correction to EUTRA EMM Test case 9.2.3.3.3 10.1.0 10.2.0 2012-12 RAN#58 R5s120699 1355 - Correction to EUTRA EMM Test case 9.2.3.3.3 10.1.0 10.2.0 2012-12 RAN#58 R5s120699 1355 - Correction to EUTRA EMM Test case 9.2.3.3.3 10.1.0 10.2.0 2012-12 RAN#58 R5s120699 1355 - Corrections to EUTRA EMM Test case 9.2.3.3.3 10.1.0 10.2.0 2012-12 RAN#58 R5s120699 1355 - Corrections to EUTRA EMM Test case 9.2.3.3.3 10.1.0 10.2.0 2012-12 RAN#58 R5s120700 1356 - Addition of Rel-9 LTE Multi-layer Procedures test case 13.3.1.3 10.1.0 10.2.0 2012-12 RAN#58 R5s120700 1356 - Addition of EUTRA EMM Testcase 9.2.3.3.4 10.1.0 10.2.0 2012-12 RAN#58 R5s120700 1356 - Corrections to EUTRA EMM Testcase 9.2.3.3.4 10.1.0 10.2.0 2012-12 RAN#58 R5s120700 1356 - Corrections to EUTRA EMM Testcase 9.2.3.3.4 10.1.0 10.2.0	2012-12	RAN#58	R5s120672	1338	-	Correction to Multilayer test case 13.4.2.4	10.1.0	10.2.0
2012-12 RAN#58 R5s120697 1341 - Addition of Rel 9 EUTRA RRC Interband Testcase 8.3.1.14 10.1.0 10.2.0 2012-12 RAN#58 R5s120697 1342 - Addition of Rel 9 EUTRA RRC Interband Testcase 13.4.1.4 10.1.0 10.2.0 2012-12 RAN#58 R5s120681 1343 - Addition of Rel 9 EUTRA RRC Interband Testcase 8.3.1.15 10.1.0 10.2.0 2012-12 RAN#58 R5s120683 1344 - Correction to EUTRA EMM Testcase 9.2.3.1.23 and 9.2.3.2.3 10.1.0 10.2.0 2012-12 RAN#58 R5s120684 1345 - Correction to GCF WI-081 EUTRA CSG Testcase 6.3.5 10.1.0 10.2.0 2012-12 RAN#58 R5s120686 1347 - Correction to Idle ModeTest Cases 6.1.1.3, 6.1.1.3b and 6.2.1.4. 10.1.0 10.2.0 2012-12 RAN#58 R5s120686 1347 - Correction to GCF WI-086 UTRA EWTRA RRC Testcases 8.4.2.2 10.1.0 10.2.0 2012-12 RAN#58 R5s120688 1348 - Correction to GCF WI-086 EUTRA EMM Testcase 9.2.3.3.2 10.1.0 10.2.0 2012-12 RAN#58 R5s120698 1349 - LTE_TDD: Addition of GCF WI-097 EUTRA RRC Testcase 8.4.3.2 10.1.0 10.2.0 2012-12 RAN#58 R5s120695 1351 - Corrections to Eutra EMM Test case 9.2.3.4.1 10.1.0 10.2.0 2012-12 RAN#58 R5s120696 1352 - Corrections to Eutra EMM Test case 9.2.3.1.16 10.1.0 10.2.0 2012-12 RAN#58 R5s120697 1353 - Corrections to EUTRA EMM Test case 9.2.3.3.3 10.1.0 10.2.0 2012-12 RAN#58 R5s120698 1354 - Corrections to EUTRA EMM Test case 9.2.3.3.3 10.1.0 10.2.0 2012-12 RAN#58 R5s120699 1355 - Corrections to EUTRA EMM Test case 9.2.3.3.3 10.1.0 10.2.0 2012-12 RAN#58 R5s120699 1355 - Corrections to EMM test case 9.2.3.1.16 10.1.0 10.2.0 2012-12 RAN#58 R5s120699 1355 - Corrections to EMM test case 9.2.3.1.3 10.1.0 10.2.0 2012-12 RAN#58 R5s120700 1356 - Addition of Rel-9 LTE Multi-layer Procedures test case 13.3.1.3 10.1.0 10.2.0 2012-12 RAN#58 R5s120700 1356 - Addition of Rel-9 LTE Multi-layer Procedures test case 13.3.1.3 10.1.0 10.2.0 2012-12 RAN#58 R5s120701 1356 - Corrections to EMM test case 9.2.3.3.4 10.1.0 10.2.0 2012-12 RAN#58 R5s120702 1357 - Corrections to EMM test case 9.2.3.3.4 10.1.0 10.2.0 2012-12 RAN#58 R5s120703 1356 - Corrections to EMM test case 9.2.3.3.4 10.1.0 10.2.0 2012-12 RAN#58 R5s	2012-12	RAN#58	R5s120673	1339	-	Correction to f_UTRAN_CS_Fallback_WithHandover function	10.1.0	10.2.0
2012-12 RAN#58 R5s120679 1342 - Addition of Rel 9 EUTRA RRC Interband Testcase 13.4.1.4 10.1.0 10.2.0 2012-12 RAN#58 R5s120681 1343 - Addition of Rel 9 EUTRA RRC Interband Testcase 8.3.1.15 10.1.0 10.2.0 2012-12 RAN#58 R5s120683 1344 - Correction to EUTRA EMM Testcase 9.2.3.1.23 and 9.2.3.2.3 10.1.0 10.2.0 2012-12 RAN#58 R5s120684 1345 - Correction to GCF WI-081 EUTRA CSG Testcase 6.3.5 10.1.0 10.2.0 2012-12 RAN#58 R5s120685 1346 - Correction to Idle ModeTest Cases 6.1.1.3, 6.1.1.3b and 6.2.1.4. 10.1.0 10.2.0 2012-12 RAN#58 R5s120686 1347 - Correction to GCF WI-086 UTRA 2012-12 RAN#58 R5s120688 1348 - Correction to GCF WI-086 EUTRA EMM Testcase 9.2.3.3.2 10.1.0 10.2.0 2012-12 RAN#58 R5s120689 1349 - LTE_TDD: Addition of GCF WI-097 EUTRA RRC Testcase 8.4.3.2 10.1.0 10.2.0 2012-12 RAN#58 R5s120693 1350 - Addition of GCF WI-097 EUTRA RRC Testcase 8.4.3.2 10.1.0 10.2.0 2012-12 RAN#58 R5s120695 1351 - Corrections to Eutra EMM Test case 9.2.3.4.1 10.1.0 10.2.0 2012-12 RAN#58 R5s120696 1352 - Corrections to Eutra EMM Test case 9.2.3.1.16 10.1.0 10.2.0 2012-12 RAN#58 R5s120697 1353 - Corrections to EUTRA EMM Test case 9.2.3.3.3 10.1.0 10.2.0 2012-12 RAN#58 R5s120698 1354 - Corrections to EUTRA EMM Test case 9.2.3.3.3 10.1.0 10.2.0 2012-12 RAN#58 R5s120699 1355 - Corrections to EUTRA EMM test case 9.2.3.1.16 10.1.0 10.2.0 2012-12 RAN#58 R5s120699 1355 - Corrections to EUTRA EMM test case 9.2.3.3.3 10.1.0 10.2.0 2012-12 RAN#58 R5s120699 1355 - Corrections to EUTRA EMM test case 9.2.3.1.3 10.1.0 10.2.0 2012-12 RAN#58 R5s120700 1356 - Addition of Rel-9 LTE Multi-layer test case 13.3.1.3 10.1.0 10.2.0 2012-12 RAN#58 R5s120702 1357 - Corrections to EUTRA EMM Testcase 9.2.3.2.3 10.1.0 10.2.0 2012-12 RAN#58 R5s120703 1356 - Corrections to EUTRA EMM Testcase 9.2.3.3.4 10.1.0 10.2.0 2012-12 RAN#58 R5s120703 1356 - Corrections to EUTRA EMM Testcase 9.2.3.3.4 10.1.0 10.2.0 2012-12 RAN#58 R5s120703 1356 - Corrections to EUTRA EMM Testcase 9.2.3.3.4 10.1.0 10.2.0 2012-12 RAN#58 R5s120703 1356 - Corrections to EUTRA EMM Testcase	2012-12	RAN#58	R5s120675	1340	-	Addition of Rel 9 EUTRA RRC Interband Testcase 8.3.1.12	10.1.0	10.2.0
2012-12 RAN#58 R5s120681 1343 - Addition of Rel 9 EUTRA RRC Interband Testcase 8.3.1.15 10.1.0 10.2.0 2012-12 RAN#58 R5s120683 1344 - Correction to EUTRA EMM Testcase 9.2.3.1.23 and 9.2.3.2.3 10.1.0 10.2.0 2012-12 RAN#58 R5s120684 1345 - Correction to GCF WI-081 EUTRA CSG Testcase 6.3.5 10.1.0 10.2.0 2012-12 RAN#58 R5s120685 1346 - Correction to Idle ModeTest Cases 6.1.1.3, 6.1.1.3b and 6.2.1.4. 10.1.0 10.2.0 2012-12 RAN#58 R5s120686 1347 - Correction to GCF WI-086 UTRA EVENT OF THE PROPRIES OF THE P	2012-12	RAN#58	R5s120677	1341	-	Addition of Rel 9 EUTRA RRC Interband Testcase 8.3.1.14	10.1.0	10.2.0
2012-12 RAN#58 R5s120683 1344 - Correction to EUTRA EMM Testcase 9.2.3.1.23 and 9.2.3.2.3 10.1.0 10.2.0 2012-12 RAN#58 R5s120684 1345 - Correction to GCF WI-081 EUTRA CSG Testcase 6.3.5 10.1.0 10.2.0 2012-12 RAN#58 R5s120685 1346 - Correction to Idle ModeTest Cases 6.1.1.3, 6.1.1.3b and 6.2.1.4. 10.1.0 10.2.0 2012-12 RAN#58 R5s120686 1347 - Correction to GCF WI-086 UTRA<>EUTRA RRC Testcases 8.4.2.2 10.1.0 10.2.0 8.8.4.2.4 2012-12 RAN#58 R5s120688 1348 - Correction to GCF WI-086 EUTRA EMM Testcase 9.2.3.3.2 10.1.0 10.2.0 2012-12 RAN#58 R5s120689 1349 - LTE_TDD: Addition of GCF WI-097 EUTRA RRC Testcase 8.4.3.2 10.1.0 10.2.0 2012-12 RAN#58 R5s120693 1350 - Addition of GCF WI-151 LTE FDD-TDD Inter-mode test case 10.1.0 10.2.0 2012-12 RAN#58 R5s120695 1351 - Corrections to EUTRA EMM Test case 9.2.3.4.1 10.1.0 10.2.0 2012-12 RAN#58 R5s120696 1352 - Corrections to EUTRA EMM Test case 9.2.3.1.16 10.1.0 10.2.0 2012-12 RAN#58 R5s120697 1353 - Corrections to EUTRA EMM Test case 9.2.3.3.3 10.1.0 10.2.0 2012-12 RAN#58 R5s120699 1355 - Corrections to EMM test case 9.2.1.1.7a 10.1.0 10.2.0 2012-12 RAN#58 R5s120699 1355 - Corrections to EMM test case 9.2.1.1.7a 10.1.0 10.2.0 2012-12 RAN#58 R5s120700 1356 - Addition of Rel-9 LTE Multi-layer test case 13.3.1.3 10.1.0 10.2.0 2012-12 RAN#58 R5s120700 1356 - Addition of Rel-9 LTE Multi-layer Procedures test case 13.3.1.3 10.1.0 10.2.0 2012-12 RAN#58 R5s120700 1356 - Addition of Rel-9 LTE Multi-layer Procedures test case 13.3.1.3 10.1.0 10.2.0 2012-12 RAN#58 R5s120700 1356 - Corrections to EMM test case 9.2.3.3.4 10.1.0 10.2.0	2012-12	RAN#58	R5s120679	1342	-	Addition of Rel 9 EUTRA RRC Interband Testcase 13.4.1.4	10.1.0	10.2.0
2012-12 RAN#58 R5s120684 1345 - Correction to GCF WI-081 EUTRA CSG Testcase 6.3.5 10.1.0 10.2.0 2012-12 RAN#58 R5s120685 1346 - Correction to Idle ModeTest Cases 6.1.1.3, 6.1.1.3b and 6.2.1.4. 10.1.0 10.2.0 2012-12 RAN#58 R5s120686 1347 - Correction to GCF WI-086 UTRA≪EUTRA RRC Testcases 8.4.2.2 10.1.0 10.2.0 8.8.4.2.4 2012-12 RAN#58 R5s120688 1348 - Correction to GCF WI-086 EUTRA EMM Testcase 9.2.3.3.2 10.1.0 10.2.0 2012-12 RAN#58 R5s120689 1349 - LTE_TDD: Addition of GCF WI-097 EUTRA RRC Testcase 8.4.3.2 10.1.0 10.2.0 2012-12 RAN#58 R5s120693 1350 - Addition of GCF WI-151 LTE FDD-TDD Inter-mode test case 10.1.0 10.2.0 8.2.4.13a 2012-12 RAN#58 R5s120695 1351 - Corrections to Eutra EMM Test case 9.2.3.4.1 10.1.0 10.2.0 2012-12 RAN#58 R5s120696 1352 - Corrections to EUTRA EMM Test case 9.2.3.1.16 10.1.0 10.2.0 2012-12 RAN#58 R5s120697 1353 - Corrections to EUTRA EMM test case 9.2.3.3.3 10.1.0 10.2.0 2012-12 RAN#58 R5s120698 1354 - Corrections to EMM test case 9.2.1.1.7a 10.1.0 10.2.0 2012-12 RAN#58 R5s120699 1355 - Corrections to EMM test case 9.2.1.1.7a 10.1.0 10.2.0 2012-12 RAN#58 R5s120699 1356 - Addition of ReI-9 LTE Multi-layer test case 13.3.1.3 10.1.0 10.2.0 2012-12 RAN#58 R5s120700 1356 - Addition of ReI-9 LTE Multi-layer Procedures test case 13.3.1.3 10.1.0 10.2.0 2012-12 RAN#58 R5s120702 1357 - Corrections to EMM test case 9.2.3.2.3.4 10.1.0 10.2.0 2012-12 RAN#58 R5s120702 1357 - Corrections to EMM test case 9.2.3.3.4 10.1.0 10.2.0 2012-12 RAN#58 R5s120703 1358 - Corrections to EMM test case 9.2.3.3.4 10.1.0 10.2.0	2012-12	RAN#58	R5s120681	1343	-	Addition of Rel 9 EUTRA RRC Interband Testcase 8.3.1.15	10.1.0	10.2.0
2012-12 RAN#58 R5s120685 1346 - Correction to Idle ModeTest Cases 6.1.1.3, 6.1.1.3b and 6.2.1.4. 10.1.0 10.2.0 2012-12 RAN#58 R5s120686 1347 - Correction to GCF WI-086 UTRA 8.4.2.4 - Correction to GCF WI-086 EUTRA EMM Testcase 9.2.3.3.2 10.1.0 10.2.0 2012-12 RAN#58 R5s120689 1349 - LTE_TDD: Addition of GCF WI-097 EUTRA RRC Testcase 8.4.3.2 10.1.0 10.2.0 2012-12 RAN#58 R5s120693 1350 - Addition of GCF WI-151 LTE FDD-TDD Inter-mode test case 10.1.0 10.2.0 2012-12 RAN#58 R5s120693 1351 - Corrections to Eutra EMM Test case 9.2.3.4.1 10.1.0 10.2.0 2012-12 RAN#58 R5s120696 1352 - Corrections to EUTRA EMM Test case 9.2.3.1.16 10.1.0 10.2.0 2012-12 RAN#58 R5s120697 1353 - Corrections to EUTRA EMM test case 9.2.3.3.3 10.1.0 10.2.0 2012-12 RAN#58 R5s120698 1354 - Corrections to EMM test case 9.2.1.1.7a 10.1.0 10.2.0 2012-12 RAN#58 R5s120699 1355 - Corrections to Multi-layer test case 13.1.9 10.1.0 10.2.0 2012-12 RAN#58 R5s120700 1356 - Addition of Rel-9 LTE Multi-layer Procedures test case 13.3.1.3 10.1.0 10.2.0 2012-12 RAN#58 R5s120702 1357 - Corrections to EMM test case 9.2.3.3.4 10.1.0 10.2.0 2012-12 RAN#58 R5s120703 1358 - Corrections to EMM test case 9.2.3.3.4 10.1.0 10.2.0	2012-12	RAN#58	R5s120683	1344	-	Correction to EUTRA EMM Testcase 9.2.3.1.23 and 9.2.3.2.3	10.1.0	10.2.0
2012-12 RAN#58 R5s120686 1347 - Correction to GCF WI-086 UTRA<>EUTRA RRC Testcases 8.4.2.2 10.1.0 10.2.0 8.8.4.2.4 2012-12 RAN#58 R5s120688 1348 - Correction to GCF WI-086 EUTRA EMM Testcase 9.2.3.3.2 10.1.0 10.2.0 2012-12 RAN#58 R5s120689 1349 - LTE_TDD: Addition of GCF WI-097 EUTRA RRC Testcase 8.4.3.2 10.1.0 10.2.0 2012-12 RAN#58 R5s120693 1350 - Addition of GCF WI-151 LTE FDD-TDD Inter-mode test case 8.2.4.13a 2012-12 RAN#58 R5s120695 1351 - Corrections to Eutra EMM Test case 9.2.3.4.1 10.1.0 10.2.0 2012-12 RAN#58 R5s120696 1352 - Corrections to EUTRA EMM Test case 9.2.3.1.16 10.1.0 10.2.0 2012-12 RAN#58 R5s120697 1353 - Correction to GCF WI-086 EMM test case 9.2.3.3.3 10.1.0 10.2.0 2012-12 RAN#58 R5s120698 1354 - Corrections to EMM test case 9.2.1.1.7a 10.1.0 10.2.0 2012-12 RAN#58 R5s120699 1355 - Corrections to Multi-layer test case 13.1.9 10.1.0 10.2.0 2012-12 RAN#58 R5s120700 1356 - Addition of Rel-9 LTE Multi-layer Procedures test case 13.3.1.3 10.1.0 10.2.0 2012-12 RAN#58 R5s120702 1357 - Corrections to EUTRA EMM Testcase 9.2.3.2.3 10.1.0 10.2.0 2012-12 RAN#58 R5s120703 1358 - Corrections to EUTRA EMM Testcase 9.2.3.3.4 10.1.0 10.2.0 2012-12 RAN#58 R5s120703 1358 - Corrections to EUTRA EMM Testcase 9.2.3.3.4 10.1.0 10.2.0 2012-12 RAN#58 R5s120703 1358 - Corrections to EUTRA EMM Testcase 9.2.3.3.4 10.1.0 10.2.0	2012-12	RAN#58	R5s120684	1345	-	Correction to GCF WI-081 EUTRA CSG Testcase 6.3.5	10.1.0	10.2.0
8.8.4.2.4 8.4.2.4 2012-12 RAN#58 R5s120688 1348 - Correction to GCF WI-086 EUTRA EMM Testcase 9.2.3.3.2 10.1.0 10.2.0 2012-12 RAN#58 R5s120689 1349 - LTE_TDD: Addition of GCF WI-097 EUTRA RRC Testcase 8.4.3.2 10.1.0 10.2.0 2012-12 RAN#58 R5s120693 1350 - Addition of GCF WI-151 LTE FDD-TDD Inter-mode test case 8.2.4.13a 10.1.0 10.2.0 2012-12 RAN#58 R5s120695 1351 - Corrections to Eutra EMM Test case 9.2.3.4.1 10.1.0 10.2.0 2012-12 RAN#58 R5s120696 1352 - Corrections to EUTRA EMM Test case 9.2.3.1.16 10.1.0 10.2.0 2012-12 RAN#58 R5s120697 1353 - Corrections to GCF WI-086 EMM test case 9.2.3.3.3 10.1.0 10.2.0 2012-12 RAN#58 R5s120698 1354 - Corrections to EMM test case 9.2.1.1.7a 10.1.0 10.2.0 2012-12 RAN#58 R5s120700 1356 - Addition of Rel-9 LTE Multi-layer Procedures test case 13.3.1.3 10.1.0 10.2.0 2012-12 RAN#58 R5s120703	2012-12	RAN#58	R5s120685	1346	-	Correction to Idle ModeTest Cases 6.1.1.3, 6.1.1.3b and 6.2.1.4.	10.1.0	10.2.0
2012-12 RAN#58 R5s120688 1348 - Correction to GCF WI-086 EUTRA EMM Testcase 9.2.3.3.2 10.1.0 10.2.0 2012-12 RAN#58 R5s120689 1349 - LTE_TDD: Addition of GCF WI-097 EUTRA RRC Testcase 8.4.3.2 10.1.0 10.2.0 2012-12 RAN#58 R5s120693 1350 - Addition of GCF WI-151 LTE FDD-TDD Inter-mode test case 8.2.4.13a 10.1.0 10.2.0 2012-12 RAN#58 R5s120695 1351 - Corrections to Eutra EMM Test case 9.2.3.4.1 10.1.0 10.2.0 2012-12 RAN#58 R5s120696 1352 - Corrections to EUTRA EMM Test case 9.2.3.1.16 10.1.0 10.2.0 2012-12 RAN#58 R5s120697 1353 - Correction to GCF WI-086 EMM test case 9.2.3.3.3 10.1.0 10.2.0 2012-12 RAN#58 R5s120698 1354 - Corrections to EMM test case 9.2.1.1.7a 10.1.0 10.2.0 2012-12 RAN#58 R5s120700 1356 - Addition of Rel-9 LTE Multi-layer Procedures test case 13.3.1.3 10.1.0 10.2.0	2012-12	RAN#58	R5s120686	1347	-		10.1.0	10.2.0
2012-12 RAN#58 R5s120693 1350 - Addition of GCF WI-151 LTE FDD-TDD Inter-mode test case 10.1.0 10.2.0 8.2.4.13a	2012-12	RAN#58	R5s120688	1348	-		10.1.0	10.2.0
8.2.4.13a 2012-12 RAN#58 R5s120695 1351 - Corrections to Eutra EMM Test case 9.2.3.4.1 10.1.0 10.2.0 2012-12 RAN#58 R5s120696 1352 - Corrections to EUTRA EMM Test case 9.2.3.1.16 10.1.0 10.2.0 2012-12 RAN#58 R5s120697 1353 - Correction to GCF WI-086 EMM test case 9.2.3.3.3 10.1.0 10.2.0 2012-12 RAN#58 R5s120698 1354 - Corrections to EMM test case 9.2.1.1.7a 10.1.0 10.2.0 2012-12 RAN#58 R5s120699 1355 - Corrections to Multi-layer test case 13.1.9 10.1.0 10.2.0 2012-12 RAN#58 R5s120700 1356 - Addition of Rel-9 LTE Multi-layer Procedures test case 13.3.1.3 10.1.0 10.2.0 2012-12 RAN#58 R5s120702 1357 - Correction to EUTRA EMM Testcase 9.2.3.2.3 10.1.0 10.2.0 2012-12 RAN#58 R5s120703 1358 - Corrections to EMM test case 9.2.3.34 10.1.0 10.2.0	2012-12	RAN#58	R5s120689	1349	-	LTE_TDD: Addition of GCF WI-097 EUTRA RRC Testcase 8.4.3.2	10.1.0	10.2.0
2012-12 RAN#58 R5s120695 1351 - Corrections to Eutra EMM Test case 9.2.3.4.1 10.1.0 10.2.0 2012-12 RAN#58 R5s120696 1352 - Corrections to EUTRA EMM Test case 9.2.3.1.16 10.1.0 10.2.0 2012-12 RAN#58 R5s120697 1353 - Correction to GCF WI-086 EMM test case 9.2.3.3.3 10.1.0 10.2.0 2012-12 RAN#58 R5s120698 1354 - Corrections to EMM test case 9.2.1.1.7a 10.1.0 10.2.0 2012-12 RAN#58 R5s120699 1355 - Corrections to Multi-layer test case 13.1.9 10.1.0 10.2.0 2012-12 RAN#58 R5s120700 1356 - Addition of Rel-9 LTE Multi-layer Procedures test case 13.3.1.3 10.1.0 10.2.0 2012-12 RAN#58 R5s120702 1357 - Correction to EUTRA EMM Testcase 9.2.3.2.3 10.1.0 10.2.0 2012-12 RAN#58 R5s120703 1358 - Corrections to EMM test case 9.2.3.34 10.1.0 10.2.0	2012-12	RAN#58	R5s120693	1350	-		10.1.0	10.2.0
2012-12 RAN#58 R5s120697 1353 - Correction to GCF WI-086 EMM test case 9.2.3.3.3 10.1.0 10.2.0 2012-12 RAN#58 R5s120698 1354 - Corrections to EMM test case 9.2.1.1.7a 10.1.0 10.2.0 2012-12 RAN#58 R5s120699 1355 - Corrections to Multi-layer test case 13.1.9 10.1.0 10.2.0 2012-12 RAN#58 R5s120700 1356 - Addition of Rel-9 LTE Multi-layer Procedures test case 13.3.1.3 10.1.0 10.2.0 2012-12 RAN#58 R5s120702 1357 - Correction to EUTRA EMM Testcase 9.2.3.2.3 10.1.0 10.2.0 2012-12 RAN#58 R5s120703 1358 - Corrections to EMM test case 9.2.3.34 10.1.0 10.2.0	2012-12	RAN#58	R5s120695	1351	-		10.1.0	10.2.0
2012-12 RAN#58 R5s120698 1354 - Corrections to EMM test case 9.2.1.1.7a 10.1.0 10.2.0 2012-12 RAN#58 R5s120699 1355 - Corrections to Multi-layer test case 13.1.9 10.1.0 10.2.0 2012-12 RAN#58 R5s120700 1356 - Addition of Rel-9 LTE Multi-layer Procedures test case 13.3.1.3 10.1.0 10.2.0 2012-12 RAN#58 R5s120702 1357 - Correction to EUTRA EMM Testcase 9.2.3.2.3 10.1.0 10.2.0 2012-12 RAN#58 R5s120703 1358 - Corrections to EMM test case 9.2.3.34 10.1.0 10.2.0	2012-12	RAN#58	R5s120696	1352	-	Corrections to EUTRA EMM Test case 9.2.3.1.16	10.1.0	10.2.0
2012-12 RAN#58 R5s120699 1355 - Corrections to Multi-layer test case 13.1.9 10.1.0 10.2.0 2012-12 RAN#58 R5s120700 1356 - Addition of Rel-9 LTE Multi-layer Procedures test case 13.3.1.3 10.1.0 10.2.0 2012-12 RAN#58 R5s120702 1357 - Correction to EUTRA EMM Testcase 9.2.3.2.3 10.1.0 10.2.0 2012-12 RAN#58 R5s120703 1358 - Corrections to EMM test case 9.2.3.34 10.1.0 10.2.0	2012-12	RAN#58	R5s120697	1353	-	Correction to GCF WI-086 EMM test case 9.2.3.3.3	10.1.0	10.2.0
2012-12 RAN#58 R5s120700 1356 - Addition of Rel-9 LTE Multi-layer Procedures test case 13.3.1.3 10.1.0 10.2.0 2012-12 RAN#58 R5s120702 1357 - Correction to EUTRA EMM Testcase 9.2.3.2.3 10.1.0 10.2.0 2012-12 RAN#58 R5s120703 1358 - Corrections to EMM test case 9.2.3.34 10.1.0 10.2.0	2012-12	RAN#58	R5s120698	1354	-	Corrections to EMM test case 9.2.1.1.7a	10.1.0	10.2.0
2012-12 RAN#58 R5s120702 1357 - Correction to EUTRA EMM Testcase 9.2.3.2.3 10.1.0 10.2.0 2012-12 RAN#58 R5s120703 1358 - Corrections to EMM test case 9.2.3.34 10.1.0 10.2.0	2012-12	RAN#58	R5s120699	1355	-	Corrections to Multi-layer test case 13.1.9	10.1.0	10.2.0
2012-12 RAN#58 R5s120703 1358 - Corrections to EMM test case 9.2.3.34 10.1.0 10.2.0	2012-12	RAN#58	R5s120700	1356	-	Addition of Rel-9 LTE Multi-layer Procedures test case 13.3.1.3	10.1.0	10.2.0
	2012-12	RAN#58	R5s120702	1357	-	Correction to EUTRA EMM Testcase 9.2.3.2.3	10.1.0	10.2.0
2012-12 RAN#58 R5s120704 1359 - Addition of Rel 9 EUTRA RRC Interband Testcase 8.3.1.13 10.1.0 10.2.0	2012-12	RAN#58	R5s120703	1358	-	Corrections to EMM test case 9.2.3.34	10.1.0	10.2.0
	2012-12	RAN#58	R5s120704	1359	-	Addition of Rel 9 EUTRA RRC Interband Testcase 8.3.1.13	10.1.0	10.2.0

Date	TSG #	TSG Doc.	CR	Rev	Subject/Comment	Old	New
2012-12	RAN#58	R5s120706	1360	-	Corrections to EUTRA RRC test case 8.5.4.1	10.1.0	10.2.0
2012-12	RAN#58	R5s120707	1361	-	Corrections to EUTRA EMM test case 9.2.3.3.1	10.1.0	10.2.0
2012-12	RAN#58	R5s120708	1362	-	Corrections to EUTRA Idle Mode Test case 6.2.3.19	10.1.0	10.2.0
2012-12	RAN#58	R5s120709	1363	-	Addition of Rel-9 LTE Multi-layer Procedures test case 13.4.1.5	10.1.0	10.2.0
2012-12	RAN#58	R5s120711	1364	-	Correction to GCF WI-086 EUTRA EMM Testcase 9.2.3.3.4.	10.1.0	10.2.0
2012-12	RAN#58	R5s120713	1365	-	Addition of GCF WI-151 EUTRA FDD-TDD Testcase 8.3.1.12a	10.1.0	10.2.0
2012-12	RAN#58	R5s120715	1366	-	Corrections to EMM test case 9.2.3.3.5a	10.1.0	10.2.0
2012-12	RAN#58	R5s120719	1367	-	Correction to UTRAN functions	10.1.0	10.2.0
2012-12	RAN#58	R5s120720	1368	-	Corrections to function f_EUTRA_RmvFbdnPLMN function	10.1.0	10.2.0
2012-12	RAN#58	R5s120721	1369	-	Corrections to EMM test case 9.2.2.1.3	10.1.0	10.2.0
2012-12	RAN#58	R5s120722	1370	-	Addition of GCF WI-151 LTE FDD-TDD Inter-mode test case 8.3.1.14a	10.1.0	10.2.0
2012-12	RAN#58	R5s120724	1371	-	Correction to EMM test case 9.2.1.2.15	10.1.0	10.2.0
2012-12	RAN#58	R5s120725	1372	-	Addition of GCF WI-151 LTE FDD-TDD Inter-mode test case 8.3.1.13a	10.1.0	10.2.0
2012-12	RAN#58	R5s120727	1373	-	Corrections to IMS procedures in LTE test suite	10.1.0	10.2.0
2012-12	RAN#58	R5s120728	1374	-	Correction to EUTRA EMM test case 9.2.3.3.5	10.1.0	10.2.0
2012-12	RAN#58	R5s120738	1375	-	LTE_TDD: Addition of GCF WI-096 Idle Mode test case 6.2.1.2	10.1.0	10.2.0
2012-12	RAN#58	R5s120740	1376	-	LTE_TDD: Addition of GCF WI-096 Idle Mode test case 6.2.2.1	10.1.0	10.2.0
2012-12	RAN#58	R5s120742	1377	-	LTE_TDD: Addition of GCF WI-096 Idle Mode test case 6.2.2.8	10.1.0	10.2.0
2012-12	RAN#58	R5s120744	1378	-	LTE_TDD: Addition of GCF WI-096 Idle Mode test case 6.2.3.3	10.1.0	10.2.0
2012-12	RAN#58	R5s120746	1379	-	LTE_TDD: Addition of GCF WI-096 Idle Mode test case 6.2.3.5	10.1.0	10.2.0
2012-12	RAN#58	R5s120748	1380	-	LTE_TDD: Addition of GCF WI-096 Idle Mode test case 6.2.3.6	10.1.0	10.2.0
2012-12	RAN#58	R5s120750	1381	-	LTE_TDD: Addition of GCF WI-096 Idle Mode test case 6.2.3.13	10.1.0	10.2.0
2012-12	RAN#58	R5s120752	1382	-	LTE_TDD: Addition of GCF WI-096 Idle Mode test case 6.2.3.31	10.1.0	10.2.0
2012-12	RAN#58	R5s120754	1383	-	LTE_TDD: Addition of GCF WI-096 Idle Mode test case 6.2.3.32	10.1.0	10.2.0
2012-12	RAN#58	R5s120756	1384	-	LTE_TDD: Addition of GCF WI-096 RRC test case 8.1.3.6	10.1.0	10.2.0
2012-12	RAN#58	R5s120758	1385	-	LTE_TDD: Addition of GCF WI-096 RRC test case 8.5.2.1	10.1.0	10.2.0
2012-12	RAN#58	R5s120760	1386	-	LTE_TDD: Addition of GCF WI-096 EMM test case 9.2.1.2.1b	10.1.0	10.2.0
2012-12	RAN#58	R5s120762	1387	-	LTE_TDD: Addition of GCF WI-096 EMM test case 9.2.2.1.10	10.1.0	10.2.0
2012-12	RAN#58	R5s120764	1388	-	LTE_TDD: Addition of GCF WI-096 EMM test case 9.2.3.3.3	10.1.0	10.2.0
2012-12	RAN#58	R5s120768	1389	-	Corrections to Multi-layer test cases 13.1.7,13.1.8,13.1.9,13.1.10	10.1.0	10.2.0
2012-12	RAN#58	R5s120769	1390	-	Correction to fl_EUTRA_RRC_Procedure_Latency function	10.1.0	10.2.0
2012-12	RAN#58	R5s120770	1391	-	Correction to GCF WI-086 EUTRA<>UTRA Testcases 6.2.1.3 and 8.3.3.2	10.1.0	10.2.0
2012-12	RAN#58	R5s120771	1392	-	Correction to GCF WI-082 EUTRA Multilayer Testcase 13.3.1.2	10.1.0	10.2.0
2012-12	RAN#58	R5s120772	1393	-	Addition of Rel 9 GCF WI-151 EUTRA RRC Testcase 6.1.2.16	10.1.0	10.2.0
2012-12	RAN#58	R5s120774	1394	-	Addition of GCF WI-087 Multi layer test case 13.4.2.5	10.1.0	10.2.0
2012-12	RAN#58	R5s120776	1395	-	Addition of Rel-9 EUTRA-UTRAN RRC test case 8.1.3.6a	10.1.0	10.2.0
2012-12	RAN#58	R5s120778	1396	-	Correction to GCF WI-086 E-UTRA to UTRAN RRC test case 8.4.1.5	10.1.0	10.2.0

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2012-12	RAN#58	R5s120779	1397	-	LTE_TDD : Addition of Rel9 EUTRA Multilayer Testcase 13.3.1.3	10.1.0	10.2.0
2012-12	RAN#58	R5s120781	1398	-	LTE_TDD : Addition of Rel9 EUTRA Multilayer Testcase 13.4.1.5	10.1.0	10.2.0
2012-12	RAN#58	R5s120783	1399	-	Addition of Rel 9 RSRQ Idle Mode Testcase 6.1.2.2a	10.1.0	10.2.0
2012-12	RAN#58	R5s120785	1400	-	Addition of GCF WI-151 EUTRA FDD-TDD Intermode Testcase 6.1.2.15a	10.1.0	10.2.0
2012-12	RAN#58	R5s120787	1401	-	Correction to EMM Test Case 9.2.1.2.1d	10.1.0	10.2.0
2012-12	RAN#58	R5s120788	1402	-	Correction to GCF WI-086 EUTRA EMM Testcase 9.2.1.2.1d	10.1.0	10.2.0
2012-12	RAN#58	R5s120789	1403	-	Correction to EUTRA Idle Mode Testcase 6.1.2.9a	10.1.0	10.2.0
2012-12	RAN#58	R5s120790	1404	-	Correction to GCF WI-086 EMM test case 9.2.3.3.2	10.1.0	10.2.0
2012-12	RAN#58	R5s120791	1405	-	Corrections to EUTRA Idle Mode Test Cases	10.1.0	10.2.0
2012-12	RAN#58	R5s120793	1406	-	Correction to GCF WI-087 LTE<>GERAN Testcase 6.2.3.24	10.1.0	10.2.0
2012-12	RAN#58	R5s120797	1407	-	LTE_TDD: Addition of GCF WI-096 Idle Mode test case 6.2.3.6	10.1.0	10.2.0
2012-12	RAN#58	R5s120799	1408	-	Correction to f_UTRAN_LocationUpdate_WithoutLAUReq function	10.1.0	10.2.0
2012-12	RAN#58	R5s120800	1409	-	Correction to ESM test cases 10.8.5 and 10.8.6	10.1.0	10.2.0
2012-12	RAN#58	R5s120801	1410	-	Correction to Idle Mode test case 6.2.2.2	10.1.0	10.2.0
2012-12	RAN#58	R5s120802	1411	-	Correction to GERAN XID procedure	10.1.0	10.2.0
2012-12	RAN#58	R5s120808	1412	-	Addition of Rel9 EUTRA RRC test case 8.5.1.6	10.1.0	10.2.0
2012-12	RAN#58	R5s120810	1413	-	Corrections to EUTRA RRC test case 8.5.4.1	10.1.0	10.2.0
2012-12	RAN#58	R5s120811	1414	-	Correction to Idle Mode test case 6.2.1.1	10.1.0	10.2.0
2012-12	RAN#58	R5s120812	1415	-	Addition of GCF WI-151 EUTRA FDD-TDD Inter-mode test case 8.2.4.14a.	10.1.0	10.2.0
2012-12	RAN#58	R5s120815	1416	-	Correction to EUTRA Idle Mode Test Case 6.2.1.4	10.1.0	10.2.0
2012-12	RAN#58	R5s120817	1417	-	Addition of GCF WI-151 EUTRA FDD-TDD Inter-mode test case 8.2.4.15a.	10.1.0	10.2.0
2012-12	RAN#58	R5s120819	1418	-	Correction to f_UTRAN_CS_Fallback_WithHandover function	10.1.0	10.2.0
2012-12	RAN#58	R5s120820	1419	-	Correction to EUTRA Multi Layer test case 13.3.2.2	10.1.0	10.2.0
2012-12	RAN#58	R5s120821	1420	-	Correction to f_GetTestcaseAttrib_Eutra_Release function	10.1.0	10.2.0
2012-12	RAN#58	R5s120822	1421	-	Correction to GCF WI-081 MAC test cases 7.1.7.1.x and 7.1.7.2.1 for Band 18.	10.1.0	10.2.0
2012-12	RAN#58	R5s120823	1422	-	Correction to GCF WI-086 EUTRA RRC Testcase 8.4.1.5	10.1.0	10.2.0
2012-12	RAN#58	R5s120824	1423	-	Correction to GCF WI-087 EUTRA RRC Testcase 9.2.1.2.1b	10.1.0	10.2.0
2012-12	RAN#58	R5s120825	1424	-	Correction to GCF WI-086 EUTRA EMM Testcase 9.2.3.2.1b	10.1.0	10.2.0
2012-12	RAN#58	R5s120826	1425	-	Correction to Rel9 EUTRA Multilayer Testcase 13.3.1.3	10.1.0	10.2.0
2012-12	RAN#58	R5s120827	1426	-	Addition of Rel9 EUTRA RRC Interband Testcase 8.3.1.16.	10.1.0	10.2.0
2012-12	RAN#58	R5s120829	1427	-	Correction to GCF WI-086 EUTRA EMM Testcase 9.2.1.2.1c	10.1.0	10.2.0
2012-12	RAN#58	R5s120831	1428	-	Correction to GCF WI-086 EUTRA EMM Testcase 9.2.3.2.1c	10.1.0	10.2.0
2012-12	RAN#58	R5s120832	1429	-	Correction to GCF WI-082 EUTRA CSG Testcase 6.3.5	10.1.0	10.2.0
2012-12	RAN#58	R5s120833	1430	-	Correction to GCF WI-087 EUTRA EMM Testcase 9.2.1.2.13	10.1.0	10.2.0
2012-12	RAN#58	R5s120834	1431	-	Correction to GCF WI-086 EUTRA EMM Testcase 9.2.3.2.1b	10.1.0	10.2.0
2012-12	RAN#58	R5s120835	1432	-	Correction to GCF WI-087 EUTRA EMM Testcases 9.2.3.2.3, 9.2.1.2.1b, 9.2.3.2.1b	10.1.0	10.2.0
2012-12	RAN#58	R5s120836	1433	-	Correction to Rel 9 GCF WI-151 EUTRA RRC Testcase 6.1.2.15a	10.1.0	10.2.0

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2012-12	RAN#58	R5s120837	1434	-	Correction to GCF WI-087 EUTRA EMM Testcase 9.2.3.4.1	10.1.0	10.2.0
2012-12	RAN#58	R5s120838	1435	-	Correction to GCF WI-087 EUTRA EMM Testcase 9.2.3.1.6	10.1.0	10.2.0
2012-12	RAN#58	R5s120839	1436	-	Correction to Rel9 EUTRA Hybrid Cell Testcase 6.4.1	10.1.0	10.2.0
2012-12	RAN#58	R5s120841	1437	-	Correction to Rel 9 GCF WI-151 EUTRA RRC Testcase 6.1.1.3a	10.1.0	10.2.0
2012-12	RAN#58	R5s120842	1438	-	Correction to Testcase Release Applicability of Rel9 EUTRA	10.1.0	10.2.0
2012-12	RAN#58	R5s120843	1439	-	Testcases. LTE_TDD : Addition of Rel9 GCF WI-150 EUTRA RSRQ Idle Mode Testcase 6.1.2.2a	10.1.0	10.2.0
2012-12	RAN#58	RP-121670	1440	-	CR to 36.523-3: Add new verified and e-mail agreed TTCN test cases in the TC lists in 36.523-3 (prose), Annex A	10.1.0	10.2.0
2013-03	RAN#59	R5-130670	1441	-	36523-3: Routine maintenance and updates	10.2.0	10.3.0
2013-03	RAN#59	R5-130693	1442	-	36523-3: Introduce CA test model and ASP	10.2.0	10.3.0
2013-03	RAN#59	R5s120830	1443	-	Correction to GCF WI-087 EUTRA EMM testcase 9.2.3.3.5	10.2.0	10.3.0
2013-03	RAN#59	R5s120849	1444	-	Correction to f_UTRAN_CellInfo_SetMultiplePLMNIdentities	10.2.0	10.3.0
2013-03	RAN#59	R5s120852	1445	-	Corrections to Redirection Test Cases	10.2.0	10.3.0
2013-03	RAN#59	R5s120853	1446	-	Correction to EUTRA Idle Mode Test Case 6.2.3.13	10.2.0	10.3.0
2013-03	RAN#59	R5s120854	1447	-	LTE_TDD : Addition of Rel9 EUTRA Interband Testcase 8.3.1.12	10.2.0	10.3.0
2013-03	RAN#59	R5s120856	1448	-	LTE_TDD : Addition of Rel9 EUTRA Interband Testcase 8.3.1.14	10.2.0	10.3.0
2013-03	RAN#59	R5s120860	1449	-	Corrections to Rel9 EUTRA RRC Test case 8.3.1.16	10.2.0	10.3.0
2013-03	RAN#59	R5s120861	1450	-	Correction to GCF WI-87 EUTRA Multilayer Testcase 13.3.2.2	10.2.0	10.3.0
2013-03	RAN#59	R5s120862	1451	-	LTE_TDD : Addition of Rel9 EUTRA Interband Testcase 8.3.1.15	10.2.0	10.3.0
2013-03	RAN#59	R5s120864	1452	-	LTE_TDD : Addition of Rel9 EUTRA RRC Testcase 8.5.1.6	10.2.0	10.3.0
2013-03	RAN#59	R5s120866	1453	-	Correction to GCF WI-87 EUTRA EMM Testcase 9.2.3.3.5a	10.2.0	10.3.0
2013-03	RAN#59	R5s120867	1454	-	Corrections to EUTRA EMM Test cases	10.2.0	10.3.0
2013-03	RAN#59	R5s120868	1455	-	Correction to EUTRA WI-086 Multilayer Testcase 13.1.3	10.2.0	10.3.0
2013-03	RAN#59	R5s120869	1456	-	Correction to EUTRA RRC Test Case 8.3.1.11a	10.2.0	10.3.0
2013-03	RAN#59	R5s120870	1457	-	Correction to EUTRA RRC Test Cases 8.2.4.15 and 8.2.4.15a	10.2.0	10.3.0
2013-03	RAN#59	R5s120871	1458	-	LTE_TDD: Correction to UTRA-TDD RRC RAB Template	10.2.0	10.3.0
2013-03	RAN#59	R5s120872	1459	-	LTE_TDD: Correction to GCF WI-086 EUTRA EMM Testcase 9.2.1.2.5.9.2.1.2.6 and 9.2.1.2.7	10.2.0	10.3.0
2013-03	RAN#59	R5s120873	1460	-	LTE_TDD: Correction to GCF WI-096 EUTRA EMM Testcase 9.2.1.2.15	10.2.0	10.3.0
2013-03	RAN#59	R5s120876	1461	-	Correction to EUTRA Idle Mode Test Case 6.1.1.3a	10.2.0	10.3.0
2013-03	RAN#59	R5s120878	1462	-	Correction to EMM test case 9.2.3.2.3	10.2.0	10.3.0
2013-03	RAN#59	R5s120879	1463	-	Addition of GCF WI-150 Rel-9 EUTRA RSRQ test case 6.1.2.3a	10.2.0	10.3.0
2013-03	RAN#59	R5s120883	1464	-	Addition of GCF WI-150 Rel9 RSRQ Idle Mode Testcase 6.1.2.17	10.2.0	10.3.0
2013-03	RAN#59	R5s120885	1465	-	Correction to GCF WI-82 EUTRA EMM Testcase 9.2.1.1.23	10.2.0	10.3.0
2013-03	RAN#59	R5s120886	1466	-	Correction to GCF WI-82 EUTRA EMM Testcase 9.2.2.1.6	10.2.0	10.3.0
2013-03	RAN#59	R5s120888	1467	-	Correction to GCF WI-82 EUTRA EMM Testcase 9.2.1.1.24	10.2.0	10.3.0
2013-03	RAN#59	R5s120889	1468	-	Correction to GCF WI-87 EUTRA EMM Testcase 9.2.1.2.15	10.2.0	10.3.0
2013-03	RAN#59	R5s120890	1469	-	Correction to declarations based on XSD types in LTE Test Suite.	10.2.0	10.3.0
2013-03	RAN#59	R5s120891	1470	-	Addition of GCF WI-159 Rel-9 LTE Pre-registration at 1xRTT test case 13.4.4.1	10.2.0	10.3.0

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2013-03	RAN#59	R5s120893	1471	-	Correction to EMM Test Cases 9.2.1.1.12, 9.2.3.1.12 and 9.2.3.1.18	10.2.0	10.3.0
2013-03	RAN#59	R5s120894	1472	-	Correction to GCF WI-87 EUTRA EMM Testcase 9.2.3.1.6	10.2.0	10.3.0
2013-03	RAN#59	R5s120895	1473	-	Correction to GCF WI-81 EUTRA Idle Mode Testcase 6.1.2.9a	10.2.0	10.3.0
2013-03	RAN#59	R5s120896	1474	-	Correction to GCF WI-82 EUTRA EMM Testcase 9.2.3.1.27	10.2.0	10.3.0
2013-03	RAN#59	R5s120897	1475	-	Correction to GCF WI-86 EUTRA EMM Testcase 9.2.3.2.1c	10.2.0	10.3.0
2013-03	RAN#59	R5s120898	1476	-	Addition of GCF WI-159 Rel-9 LTE Pre-registration at 1xRTT test case 13.4.4.5	10.2.0	10.3.0
2013-03	RAN#59	R5s120900	1477	-	Correction to GCF WI-86 EUTRA EMM Testcase 9.2.3.2.1a	10.2.0	10.3.0
2013-03	RAN#59	R5s120901	1478	-	Correction to GCF WI-82 EUTRA EMM Testcase 9.2.1.2.3	10.2.0	10.3.0
2013-03	RAN#59	R5s120902	1479	-	Correction to EMM test case 9.2.2.1.3	10.2.0	10.3.0
2013-03	RAN#59	R5s120903	1480	-	Correction to SNDCP Ports in LTE<>GERAN	10.2.0	10.3.0
2013-03	RAN#59	R5s120904	1481	-	Correction to EUTRA<> UTRA Testcases	10.2.0	10.3.0
2013-03	RAN#59	R5s120905	1482	-	Addition of GCF WI-150 Rel-9 EUTRA RSRQ test case 6.1.2.18	10.2.0	10.3.0
2013-03	RAN#59	R5s120908	1483	-	Correction to EUTRA RRC test cases 8.4.3.2 and 8.4.3.3	10.2.0	10.3.0
2013-03	RAN#59	R5s120909	1484	-	Correction to EUTRA Idle Mode test case 6.2.3.31	10.2.0	10.3.0
2013-03	RAN#59	R5s120910	1485	-	Correction to GCF WI-081 EUTRA MAC Testcase 7.1.2.3	10.2.0	10.3.0
2013-03	RAN#59	R5s120911	1486	-	Correction to GCF WI-081 EUTRA RRC Testcase 8.1.2.6	10.2.0	10.3.0
2013-03	RAN#59	R5s120912	1487	-	Correction to GCF WI-156 EUTRA Interband Testcase 8.2.4.14	10.2.0	10.3.0
2013-03	RAN#59	R5s120913	1488	-	Addition of GCF WI-088 LTE-1xRTT test case 8.3.2.10	10.2.0	10.3.0
2013-03	RAN#59	R5s120915	1489	-	Addition of GCF WI-088 LTE-HRPD test case 8.3.2.8	10.2.0	10.3.0
2013-03	RAN#59	R5s120917	1490	-	Correction to EUTRA EMM Test case 9.2.3.2.12	10.2.0	10.3.0
2013-03	RAN#59	R5s120918	1491	-	Correction to GCF WI-87 EUTRA EMM Testcase 9.2.3.3.5	10.2.0	10.3.0
2013-03	RAN#59	R5s120919	1492	-	Correction to GCF WI-87 EUTRA Multilayer testcase 13.3.2.2	10.2.0	10.3.0
2013-03	RAN#59	R5s120920	1493	-	Correction to GCF WI-087 LTE<>GERAN Testcase 13.4.2.5	10.2.0	10.3.0
2013-03	RAN#59	R5s120921	1494	-	Correction to EUTRA RRC Test Case 8.2.4.15a	10.2.0	10.3.0
2013-03	RAN#59	R5s120922	1495	-	Correction to EMM test case 9.2.3.3.2	10.2.0	10.3.0
2013-03	RAN#59	R5s120923	1496	-	Correction to EMM test case 9.2.1.2.1c	10.2.0	10.3.0
2013-03	RAN#59	R5s120925	1497	-	Addition of GCF WI-150 Rel-9 EUTRA RSRQ test case 8.3.1.3a	10.2.0	10.3.0
2013-03	RAN#59	R5s120933	1498	-	Correction to EMM Test Case 9.2.3.1.17	10.2.0	10.3.0
2013-03	RAN#59	R5s120935	1499	-	Correction to GCF WI-086 UTRA<>EUTRA RRC Testcases 8.4.2.2	10.2.0	10.3.0
2013-03	RAN#59	R5s120937	1500	-	and 8.4.2.4 Correction to EUTRA RRC test case 8.1.3.7	10.2.0	10.3.0
2013-03	RAN#59	R5s120938	1501	-	Correction to EUTRA Idle Mode test case 6.2.3.3	10.2.0	10.3.0
2013-03	RAN#59	R5s120939	1502	-	Addition of GCF WI-087 EUTRA Idle Mode test case 6.2.3.23	10.2.0	10.3.0
2013-03	RAN#59	R5s120941	1503	-	Correction to EUTRA RRC test cases 8.4.2.2 and 8.4.2.4	10.2.0	10.3.0
2013-03	RAN#59	R5s120942	1504	-	Correction to GCF WI-086 EUTRA EMM testcase 9.2.3.2.13	10.2.0	10.3.0
2013-03	RAN#59	R5s120943	1505	-	Correction to function f_EUTRA_TrackingAreaUpdateFromAnotherRAT_WithoutRRCConneReq	10.2.0	10.3.0
2013-03	RAN#59	R5s120944	1506	-	Correction to f_EUTRA_TrackingAreaUpdateFromAnotherRAT_WithoutRRCConneReq	10.2.0	10.3.0

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2013-03	RAN#59	R5s120951	1507	-	LTE_TDD: Correction to RAU procedure of UTRA	10.2.0	10.3.0
2013-03	RAN#59	R5s120952	1508	-	LTE_TDD : Correction to GCF WI-096 EUTRA Idle Mode Test Case 6.2.3.4	10.2.0	10.3.0
2013-03	RAN#59	R5s120953	1509	-	LTE_TDD: Correction to RLC CONFIG in CS12.2K Scenario of UTRA	10.2.0	10.3.0
2013-03	RAN#59	R5s120954	1510	-	LTE_TDD: Corrections to DL Common Information in RB SETUP message of UTRA	10.2.0	10.3.0
2013-03	RAN#59	R5s120955	1511	-	LTE_TDD: Corrections to Physical Channel Parameters used in PS64K Scenario of UTRA	10.2.0	10.3.0
2013-03	RAN#59	R5s120956	1512	-	LTE_TDD: Corrections to Physical Channel Parameters used in CS12.2K Scenario of UTRA	10.2.0	10.3.0
2013-03	RAN#59	R5s120958	1513	-	LTE_TDD: Addition of EUTRA Multi-layer Test case 13.1.9	10.2.0	10.3.0
2013-03	RAN#59	R5s120960	1514	-	LTE_TDD: Addition of EUTRA Multi-layer Test case 13.1.10	10.2.0	10.3.0
2013-03	RAN#59	R5s120963	1515	-	Correction to EUTRA EMM Testcases 9.2.1.2.11 and 9.2.1.2.12	10.2.0	10.3.0
2013-03	RAN#59	R5s120964	1516	-	Addition of EUTRA Idle mode Test case 6.2.3.5a	10.2.0	10.3.0
2013-03	RAN#59	R5s120967	1517	-	Corrections to EUTRA-GERAN test cases 6.2.3.1 and 9.2.3.4.1	10.2.0	10.3.0
2013-03	RAN#59	R5s120968	1518	-	Correction to EMM test case 9.2.3.2.3 in Voice-Centric Mode in EUTRA-UTRAN path	10.2.0	10.3.0
2013-03	RAN#59	R5s130000	1519	-	Correction to EMM test case 9.2.2.1.10	10.2.0	10.3.0
2013-03	RAN#59	R5s130002	1520	-	LTE_TDD: Addition of EUTRA Idle Mode Test Case 6.2.3.4	10.2.0	10.3.0
2013-03	RAN#59	R5s130004	1521	-	LTE_TDD: Addition of EMM Test Case 9.2.3.2.1a	10.2.0	10.3.0
2013-03	RAN#59	R5s130006	1522	-	LTE_TDD: Addition of EMM Test Case 9.2.3.3.6	10.2.0	10.3.0
2013-03	RAN#59	R5s130008	1523	-	Correction to SIB5 definition for UTRAN-TDD (1.28 Mcps)	10.2.0	10.3.0
2013-03	RAN#59	R5s130009	1524	-	Correction to template cds_RadioBearerSetup_r9_IEs_64k_PS_TDD	10.2.0	10.3.0
2013-03	RAN#59	R5s130010	1525	-	Correction to EUTRA RRC Test Case 8.4.2.2	10.2.0	10.3.0
2013-03	RAN#59	R5s130013	1526	-	LTE_TDD: Addition of GCF WI-097 EMM test case 9.2.3.2.1b	10.2.0	10.3.0
2013-03	RAN#59	R5s130017	1527	-	LTE_TDD: Addition of GCF WI-150 Rel-9 EUTRA RSRQ test case 6.1.2.18	10.2.0	10.3.0
2013-03	RAN#59	R5s130019	1528	-	Correction to EUTRA RRC Test Case 8.4.3.3	10.2.0	10.3.0
2013-03	RAN#59	R5s130020	1529	-	Addition of Rel9 RSRQ Idle Mode Testcase 6.2.3.4a	10.2.0	10.3.0
2013-03	RAN#59	R5s130022	1530	-	LTE_TDD: Addition of GCF WI-150 Rel-9 EUTRA RSRQ test case 6.1.2.17	10.2.0	10.3.0
2013-03	RAN#59	R5s130024	1531	-	LTE_TDD : Addition of Rel9 EUTRA RSRQ Testcase 8.3.1.3a	10.2.0	10.3.0
2013-03	RAN#59	R5s130026	1532	-	LTE_TDD: Addition of GCF WI-150 Rel-9 EUTRA RSRQ test case 6.1.2.3a	10.2.0	10.3.0
2013-03	RAN#59	R5s130034	1533	-	Correction to EMM Test Case 9.2.3.2.9	10.2.0	10.3.0
2013-03	RAN#59	R5s130037	1534	-	Correction to EUTRA RRC test case 8.2.4.14a	10.2.0	10.3.0
2013-03	RAN#59	R5s130038	1535	-	Correction to f_RoutingTable_ChangeEutraCell function	10.2.0	10.3.0
2013-03	RAN#59	R5s130040	1536	-	Correction to EUTRA EMM Testcases 9.2.1.1.15, 9.2.1.1.15a,	10.2.0	10.3.0
2013-03	RAN#59	R5s130043	1537	-	9.2.1.1.16, 9.2.1.1.16a in Ipv6 LTE_TDD: Addition of GCF WI-097 EMM test case 9.2.3.2.3	10.2.0	10.3.0
2013-03	RAN#59	R5s130045	1538	-	Correction to EUTRA ICMP Echo Reply function	10.2.0	10.3.0
2013-03	RAN#59	R5s130046	1539	-	Correction to EMM test case 9.2.1.1.24	10.2.0	10.3.0
2013-03	RAN#59	R5s130050	1540	-	Correction to EUTRA-GERAN test cases 6.2.3.1 and 9.2.3.4.1	10.2.0	10.3.0
2013-03	RAN#59	R5s130051	1541	-	Correction to EUTRA RRC test case 8.3.2.9	10.2.0	10.3.0
2013-03	RAN#59	R5s130052	1542	-	Correction to Test case 8.1.3.7	10.2.0	10.3.0
2013-03	RAN#59	R5s130055	1543	-	Addition of GCF WI-151 LTE FDD-TDD Inter-mode test case 8.3.1.15a	10.2.0	10.3.0
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2013-03	RAN#59	R5s130057	1544	-	Addition of GCF WI-088 LTE-1xRTT Inter-RAT test case 8.4.7.4	10.2.0	10.3.0
2013-03	RAN#59	R5s130060	1545	-	Correction to EUTRA-GERAN test case 6.2.3.1	10.2.0	10.3.0
2013-03	RAN#59	R5s130061	1546	-	Addition of Rel9 RSRQ Idle Mode Testcase 6.2.3.3a	10.2.0	10.3.0
2013-03	RAN#59	R5s130064	1547	-	Correction to f_EUTRA_Capability function	10.2.0	10.3.0
2013-03	RAN#59	R5s130067	1548	-	Correction to EMM test case 9.1.5.1	10.2.0	10.3.0
2013-03	RAN#59	R5s130068	1549	-	Correction to LTE FDD-TDD Intermode test case 8.2.4.14a	10.2.0	10.3.0
2013-03	RAN#59	R5s130069	1550	-	Correction to EUTRA Idle Mode test case 6.1.1.1	10.2.0	10.3.0
2013-03	RAN#59	R5s130076	1551	-	Correction to EUTRA Idle Mode Test Case 6.1.2.13	10.2.0	10.3.0
2013-03	RAN#59	R5s130077	1552	-	Correction to ESM Test Case 10.4.1	10.2.0	10.3.0
2013-03	RAN#59	R5s130083	1553	-	Correction to Test case 9.2.1.2.1c	10.2.0	10.3.0
2013-03	RAN#59	R5s130084	1554	-	Addition of Rel9 EUTRA<>UTRA RSRQ RRC Testcase 8.3.2.3a	10.2.0	10.3.0
2013-03	RAN#59	R5s130088	1555	-	Correction to EUTRA RRC Test Case 8.5.4.1	10.2.0	10.3.0
2013-03	RAN#59	RP-130151	1556	-	CR to 36.523-3: Add new verified and e-mail agreed TTCN test cases in the TC lists in 36.523-3 (prose), Annex A	10.2.0	10.3.0
2013-06	RAN#60	R5-131868	1561	-		10.3.0	10.4.0
2013-06	RAN#60	RP-130618	1678	-	CR to 36.523-3: Add new verified and e-mail agreed TTCN test cases in the TC lists in 36.523-3 (prose), Annex A	10.3.0	10.4.0
2013-06	RAN#60	R5s130050	1563	-	Correction to EUTRA-GERAN test cases 6.2.3.1 and 9.2.3.4.1	10.3.0	10.4.0
2013-06	RAN#60	R5s130065	1564	-	Addition of GCF WI-151 LTE FDD-TDD Inter-mode test case 8.3.1.16a	10.3.0	10.4.0
2013-06	RAN#60	R5s130078	1565	-	Addition of Rel 9 EUTRA PWS Test cases 18.1.2	10.3.0	10.4.0
2013-06	RAN#60	R5s130081	1566	-	Addition of Rel-9 EUTRA PWS test case 18.1.1	10.3.0	10.4.0
2013-06	RAN#60	R5s130086	1567	-	LTE_TDD: Addition of GCF WI-099 Multi-RAT test case 6.2.1.1	10.3.0	10.4.0
2013-06	RAN#60	R5s130089	1568	-	Correction to EUTRA Multi-Layer Test Cases 13.1.x	10.3.0	10.4.0
2013-06	RAN#60	R5s130090	1569	-	Addition of GCF WI-159 LTE-1xRTT CSFB Handover test case 8.4.7.9	10.3.0	10.4.0
2013-06	RAN#60	R5s130092	1570	-	Correction to EMM Test Case 9.2.1.1.20	10.3.0	10.4.0
2013-06	RAN#60	R5s130094	1571	-	LTE_TDD: Addition of EMM Test Case 9.2.3.1.6	10.3.0	10.4.0
2013-06	RAN#60	R5s130097	1572	-	Addition of GCF WI-088 LTE-1xRTT CSFB Emergency Call test case 13.1.17	10.3.0	10.4.0
2013-06	RAN#60	R5s130100	1573	-	Correction to E-UTRA EMM testcases 9.2.1.1.7a, 9.2.3.1.16,	10.3.0	10.4.0
2013-06	RAN#60	R5s130103	1574	-	9.2.3.1.18 , 9.2.3.1.18a, 9.2.3.2.10 and 9.2.3.2.2 Addition of Rel 9 EUTRA PWS(CMAS) Test cases 18.1.3	10.3.0	10.4.0
2013-06	RAN#60	R5s130105	1575	-	Addition of GCF WI-088 LTE-1xRTT CSFB test case 8.4.7.3	10.3.0	10.4.0
2013-06	RAN#60	R5s130107	1576	-	Correction to handling of security capabilities in EUTRA Testcases	10.3.0	10.4.0
2013-06	RAN#60	R5s130110	1577	-	LTE_TDD: Addition of GCF WI-099 Multi-RAT test case 8.3.2.6	10.3.0	10.4.0
2013-06	RAN#60	R5s130112	1578	-	Correction to EUTRA Idle Mode Test Case 6.1.1.3a	10.3.0	10.4.0
2013-06	RAN#60	R5s130113	1579	-	Correction to 36.523 IMS preamble part with IPsec enabled	10.3.0	10.4.0
2013-06	RAN#60	R5s130116	1580	-	Correction to Security Procedure for EUTRA TDD<>TDSDMA	10.3.0	10.4.0
2013-06	RAN#60	R5s130117	1581	-	Testcases Correction to EUTRA EMM Test Case 9.2.1.2.3	10.3.0	10.4.0
2013-06	RAN#60	R5s130122	1582	-	Corrections to ESM test cases 10.3.1 and 10.9.1	10.3.0	10.4.0
2013-06	RAN#60	R5s130127	1583	-	Addition of GCF WI-151 LTE FDD-TDD Inter-mode test case	10.3.0	10.4.0
2013-06	RAN#60	R5s130129	1584	-	6.1.1.4a Correction to EUTRA RRC Test Case 8.3.2.2	10.3.0	10.4.0

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2013-06	RAN#60	R5s130131	1585	-	Correction to EMM Test Case 9.2.3.1.19	10.3.0	10.4.0
2013-06	RAN#60	R5s130132	1586	-	Correction to px_CipherAlg PIXIT type	10.3.0	10.4.0
2013-06	RAN#60	R5s130135	1587	-	Clarification for modifies of 'record of' record in TTCN3 core language	10.3.0	10.4.0
2013-06	RAN#60	R5s130137	1588	-	Correction to GCF WI-086 EUTRA Multilayer Testcase 13.1.5	10.3.0	10.4.0
2013-06	RAN#60	R5s130138	1589	-	Correction to Idle Mode Test Case 6.1.2.17	10.3.0	10.4.0
2013-06	RAN#60	R5s130140	1590	-	Correction to EUTRA RRC Test Case 8.2.4.14a	10.3.0	10.4.0
2013-06	RAN#60	R5s130141	1591	-	Correction to EUTRA RRC Test Case 8.3.1.16a	10.3.0	10.4.0
2013-06	RAN#60	R5s130142	1592	-	Correction to EUTRA RRC Test Case 8.4.2.2	10.3.0	10.4.0
2013-06	RAN#60	R5s130143	1593	-	Correction to GCF WI-082 testcase 9.3.1.6 (LTE-UTRA)	10.3.0	10.4.0
2013-06	RAN#60	R5s130144	1594	-	Correction to GCF WI-086 testcase 8.4.1.5	10.3.0	10.4.0
2013-06	RAN#60	R5s130161	1595	-	LTE_TDD: Addition of GCF WI-096 RRC test case 8.1.3.7	10.3.0	10.4.0
2013-06	RAN#60	R5s130163	1596	-	LTE_TDD: Addition of GCF WI-096 TD-LTE<>TDSDMA Testcase	10.3.0	10.4.0
2013-06	RAN#60	R5s130165	1597	-	13.4.2.4 Correction to Support of UTRAN band 19	10.3.0	10.4.0
2013-06	RAN#60	R5s130166	1598	-	Correction to EMM Test Case 9.2.3.3.2	10.3.0	10.4.0
2013-06	RAN#60	R5s130169	1599	-	Addition of Rel 9 EUTRA Multiple MO-SMS over SGs/Idle mode	10.3.0	10.4.0
2013-06	RAN#60	R5s130171	1600	-	Test case 11.1.5 Addition of Rel 9 Multiple MO-SMS over SGs / Active mode Test	10.3.0	10.4.0
2013-06	RAN#60	R5s130173	1601	-	Cases 11.1.6. Correction to GCF WI-086 EUTRA EMM Test case 9.2.3.3.2	10.3.0	10.4.0
2013-06	RAN#60	R5s130174	1602	-	Correction to GCF WI-086 EUTRA EMM Test case 9.2.3.2.1a	10.3.0	10.4.0
2013-06	RAN#60	R5s130175	1603	-	Correction to EMM Test Case 9.2.3.2.3	10.3.0	10.4.0
2013-06	RAN#60	R5s130179	1604	-	Correction to EUTRA EMM Test Cases	10.3.0	10.4.0
2013-06	RAN#60	R5s130180	1605	-	Correction to EMM Test Case 9.2.3.3.5a	10.3.0	10.4.0
2013-06	RAN#60	R5s130185	1606	-	Correction to check of establishment cause in EUTRA-UTRA Idle Irat test cases	10.3.0	10.4.0
2013-06	RAN#60	R5s130189	1607	-	Correction to EUTRA RRC Test Case 8.3.2.6	10.3.0	10.4.0
2013-06	RAN#60	R5s130190	1608	-	Addition of EUTRA Idle Mode Test Case 6.2.3.23	10.3.0	10.4.0
2013-06	RAN#60	R5s130192	1609	-	Correction for GCF WI-086 EUTRA EMM test cases 9.2.3.2.9	10.3.0	10.4.0
2013-06	RAN#60	R5s130195	1610	-	Baseline upgrade of TTCN-3 ATSs to March-13 in Rel-11	10.3.0	10.4.0
2013-06	RAN#60	R5s130201	1611	-	Addition of Rel-9 EMM test case 9.1.3.3	10.3.0	10.4.0
2013-06	RAN#60	R5s130206	1612	-	Corrections to EUTRA RRC test cases 8.2.4.14, 8.2.4.14a and 8.3.1.16a	10.3.0	10.4.0
2013-06	RAN#60	R5s130207	1613	-	Correction to EUTRA Idle Mode Test Case 6.2.3.15	10.3.0	10.4.0
2013-06	RAN#60	R5s130208	1614	-	Addition of EUTRA Idle Mode Test Case 6.2.3.1a	10.3.0	10.4.0
2013-06	RAN#60	R5s130210	1615	-	LTE_TDD: Correction of RV value for SI3, SI4 and SI5 in EUTRA TDD mode	10.3.0	10.4.0
2013-06	RAN#60	R5s130211	1616	-	LTE_TDD: Addition of GCF WI-096 test case 6.2.1.3	10.3.0	10.4.0
2013-06	RAN#60	R5s130215	1617	-	LTE_TDD: Addition of GCF WI-096 test cases 8.4.1.2	10.3.0	10.4.0
2013-06	RAN#60	R5s130217	1618	-	LTE_TDD: Addition of GCF WI-096 test cases 8.4.1.4	10.3.0	10.4.0
2013-06	RAN#60	R5s130219	1619	-	LTE_TDD: Addition of GCF WI-096 test cases 8.4.2.2	10.3.0	10.4.0
2013-06	RAN#60	R5s130221	1620	-	LTE_TDD: Addition of GCF WI-096 test cases 8.4.2.4	10.3.0	10.4.0
2013-06	RAN#60	R5s130225	1621	-	LTE_TDD: Addition of GCF WI-096 test case 9.2.3.3.1	10.3.0	10.4.0

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2013-06	RAN#60	R5s130227	1622	-	LTE_TDD: Addition of GCF WI-096 test case 9.2.3.3.2	10.3.0	10.4.0
2013-06	RAN#60	R5s130229	1623	-	LTE_TDD: Addition of GCF WI-096 test case 9.2.3.3.5	10.3.0	10.4.0
2013-06	RAN#60	R5s130237	1624	-	Correction to EUTRA RRC Test Case 8.5.4.1	10.3.0	10.4.0
2013-06	RAN#60	R5s130238	1625	-	Correction to EUTRA Multi Layer Test Case 13.4.2.5	10.3.0	10.4.0
2013-06	RAN#60	R5s130239	1626	-	Correction to EUTRA-GERAN Idle mode test case 6.2.3.1	10.3.0	10.4.0
2013-06	RAN#60	R5s130240	1627	-	Correction to EUTRA EMM test case 9.2.2.1.8	10.3.0	10.4.0
2013-06	RAN#60	R5s130241	1628	-	Additional corrections to EUTRA-GERAN Idle Mode test case 6.2.3.23 on top of R5s130190	10.3.0	10.4.0
2013-06	RAN#60	R5s130243	1629	-	LTE_TDD: Addition of GCF WI-096 test case 9.2.1.2.1d	10.3.0	10.4.0
2013-06	RAN#60	R5s130245	1630	-	LTE_TDD: Addition of GCF WI-096 test case 13.1.2	10.3.0	10.4.0
2013-06	RAN#60	R5s130250	1631	-	Correction of GCF WI-088 Inter-RAT Measurements test case 8.3.2.8	10.3.0	10.4.0
2013-06	RAN#60	R5s130251	1632	-	Correction of GCF WI-088 EUTRA-1XRTT test case 8.3.2.10	10.3.0	10.4.0
2013-06	RAN#60	R5s130252	1633	-	Renaming Condition Types in Selection Expressions	10.3.0	10.4.0
2013-06	RAN#60	R5s130253	1634	-	LTE_TDD: Addition of GCF WI-097 test case 13.3.2.2	10.3.0	10.4.0
2013-06	RAN#60	R5s130255	1635	-	Correction to EUTRA EMM Test Case 9.2.3.2.9	10.3.0	10.4.0
2013-06	RAN#60	R5s130257	1636	-	Correction to template car_G_LLC_XID_IndAny	10.3.0	10.4.0
2013-06	RAN#60	R5s130258	1637	-	Correction to GCF WI-087 EUTRA-GERAN test case 8.4.3.3	10.3.0	10.4.0
2013-06	RAN#60	R5s130259	1638	-	Correction to GCF WI 086 testcase 9.2.3.2.1b	10.3.0	10.4.0
2013-06	RAN#60	R5s130260	1639	-	Corrections to functions f_GERAN_EnterU10_MT and	10.3.0	10.4.0
2013-06	RAN#60	R5s130268	1640	-	f_GERAN_EnterU10_MO_WithoutRRConnEst Correction to EUTRA RRC Test Case 8.3.2.3	10.3.0	10.4.0
2013-06	RAN#60	R5s130269	1641	-	Correction to EUTRA RRC Test Case 8.5.4.1	10.3.0	10.4.0
2013-06	RAN#60	R5s130270	1642	-	Addition of GCF WI-151 LTE FDD-TDD Inter-mode test case 8.1.3.12a	10.3.0	10.4.0
2013-06	RAN#60	R5s130273	1643	-	Correction to EUTRA EMM Test Case 9.2.2.1.3	10.3.0	10.4.0
2013-06	RAN#60	R5s130275	1644	-	Correction to function f_EUTRA_TrackingAreaUpdateFromAnotherRAT_WithoutRRCCon neReq	10.3.0	10.4.0
2013-06	RAN#60	R5s130276	1645	-	Correction to EUTRA Idle Mode Test Case 6.2.3.3a	10.3.0	10.4.0
2013-06	RAN#60	R5s130286	1646	-	LTE_TDD: Correction to f_UTRAN_CellInfo_Init_TDD function	10.3.0	10.4.0
2013-06	RAN#60	R5s130287	1647	-	Correction to EUTRA EMM Test Case 9.2.1.2.1c	10.3.0	10.4.0
2013-06	RAN#60	R5s130292	1648	-	LTE_TDD: Addition of Rel-9 EUTRA Multi-Layer test case 13.4.1.4	10.3.0	10.4.0
2013-06	RAN#60	R5s130300	1649	-	LTE_TDD: Addition of GCF WI-096 TD-LTE<>TDSDMA Testcase 8.3.2.4	10.3.0	10.4.0
2013-06	RAN#60	R5s130302	1650	-	Addition of GCF WI-088 EUTRA<>HRPD Inter-RAT test case 8.3.3.4	10.3.0	10.4.0
2013-06	RAN#60	R5s130305	1651	-	Correction to GCF WI-081 EUTRA MAC test case 7.1.1.2	10.3.0	10.4.0
2013-06	RAN#60	R5s130307	1652	-	Correction to PDU Type Definition PAGINGRESPONSE message	10.3.0	10.4.0
2013-06	RAN#60	R5s130308	1653	-	Correction to EUTRA RRC Test Case 8.4.1.5	10.3.0	10.4.0
2013-06	RAN#60	R5s130310	1654	-	Correction to UTRAN Capability information Procedure in EUTRA Testcases	10.3.0	10.4.0
2013-06	RAN#60	R5s130312	1655	-	Correction to EUTRA Multi-layer Test Case 13.3.1.3	10.3.0	10.4.0
2013-06	RAN#60	R5s130313	1656	-	Correction to GCF WI-082 E-UTRA EMM test case 9.1.2.6	10.3.0	10.4.0
2013-06	RAN#60	R5s130314	1657	-	Correction to GCF WI-151 LTE FDD-TDD Inter-mode test case 8.1.3.12a	10.3.0	10.4.0

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2013-06	RAN#60	R5s130316	1658	-	LTE_TDD: Addition of GCF WI-096 TD-LTE<>TDSDMA Testcase	10.3.0	10.4.0
2013-06	RAN#60	R5s130318	1659	-	13.3.2.1 LTE_TDD: Addition of GCF WI-096 TD-LTE<>TDSDMA Testcase	10.3.0	10.4.0
2013-06	RAN#60	R5s130320	1660	-	9.2.1.2.1c Correction to function f_DeriveSuppEutraBandsFromPics	10.3.0	10.4.0
2013-06	RAN#60	R5s130321	1661	-	Correction to EMM TC 9.2.1.1.24	10.3.0	10.4.0
2013-06	RAN#60	R5s130322	1662	_	LTE_TDD: Addition of Rel9 TD-LTE<>TDSDMA Testcase 6.2.3.33	10.3.0	10.4.0
2013-06	RAN#60	R5s130324	1663	_	Correction to GCF WI-086 E-UTRA EMM testcase 9.2.1.2.8	10.3.0	
2013-06	RAN#60	R5s130325			Correction to the EMM Test Case 9.2.3.3.5a	10.3.0	
2013-06		R5s130326			Correction to Eutra Idle Mode TC 6.2.3.1a	10.3.0	
2013-06		R5s130327		_	Correction to manual PLMN selection test cases 6.1.1.3, 6.1.1.3a, 6.1.1.3b, 6.2.1.4, 9.2.1.1.13 and 9.2.1.1.13a	10.3.0	
2013-06	RAN#60	R5s130329		-	Correction to IXIT px_MaxNumberROHC_ContextSessions in module EUTRA_Parameters in LTE TTCN suite.	10.3.0	
2013-06	RAN#60	R5s130330		-	Correction to EUTRA RRC test case 8.1.2.8	10.3.0	
2013-06	RAN#60	R5s130331	1669	-	Correction for EUTRA RRC test case 8.1.3.7	10.3.0	10.4.0
2013-06	RAN#60	R5s130337	1670	-	Correction of RRC test case 8.5.4.1	10.3.0	10.4.0
2013-06	RAN#60	R5s130338	1671	-	LTE_TDD: Addition of GCF WI-096 EMM test case 9.2.3.3.4	10.3.0	10.4.0
2013-06	RAN#60	R5s130340	1672	-	Correction to GCF WI-086 testcase 9.2.2.2.2	10.3.0	10.4.0
2013-06	RAN#60	R5s130341	1673	-	Correction in LLC XID negotiation	10.3.0	10.4.0
2013-06	RAN#60	R5s130342	1674	-	LTE_TDD: Correction of GCF WI-096 test cases 8.4.2.2 and 8.4.2.4	10.3.0	10.4.0
2013-06	RAN#60	R5s130344	1675	-	Corrections to GCF WI-088 EUTRA<>HRPD and 1xRTT Test	10.3.0	10.4.0
2013-06	RAN#60	R5s130345	1676	-	cases 8.3.2.8 and 8.3.2.10 LTE_TDD: Correction to GCF WI-096 EUTRA test case 13.1.2	10.3.0	10.4.0
2013-06	RAN#60	R5s130347	1677	-	Local guard timer for common preamble functions	10.3.0	10.4.0
2013-06	RAN#60	R5-131068	1557	-	Update of CDMA2000 specification references: Clause 2 of TS	10.4.0	11.0.0
2013-06	RAN#60	R5-131070	1558	-	36.523-3 Update of CDMA2000 specification references: PIXIT for TS	10.4.0	11.0.0
2013-06	RAN#60	R5-131125	1559	-	36.523-3 Clarification of CA test model	10.4.0	11.0.0
2013-06	RAN#60	R5-131129		_	36523-3: Routine maintenance and updates	10.4.0	
2013-06	RAN#60	R5-131870		_	Update of CDMA2000 specification references: Annex D of TS	10.4.0	
2013-09	RAN#61	R5-133612			36.523-3 36523-3: Routine maintenance and updates	11.0.0	
2013-09	RAN#61				·	11.0.0	
		R5s130352		Ī	LTE_TDD: Addition of GCF WI-096 test case 13.1.4		
2013-09	RAN#61	R5s130356		-	LTE_TDD: Addition of GCF WI-096 test case 13.1.16	11.0.0	
2013-09	RAN#61	R5s130376		-	Improved guidance of the test operator during ETWS and CMAS test case execution	11.0.0	
2013-09	RAN#61	R5s130378		-	Correction to Generic IMS Registration procedure	11.0.0	
2013-09	RAN#61	R5s130379	1700	-	Addition of GCF WI-167 EUTRA-UTRAN Idle Mode test case 6.2.3.33	11.0.0	11.1.0
2013-09	RAN#61	R5s130382	1701	-	Corrections to EPS Attach Procedure to enable IMS Registration via NAS signalling in 36.523 Suite	11.0.0	11.1.0
2013-09	RAN#61	R5s130384	1702	-	Correction to Idle mode test cases 6.2.3.4	11.0.0	11.1.0
2013-09	RAN#61	R5s130385	1703	-	Correction to Idle mode test cases 6.2.3.4a	11.0.0	11.1.0
2013-09	RAN#61	R5s130388	1704	-	Addition of GCF WI-162 LTE-A Carrier Aggregation RRC inter-band	11.0.0	11.1.0
2013-09	RAN#61	R5s130389	1705	-	test case 8.5.1.7.2 Re-verification of EMM Test Case 9.2.3.3.4	11.0.0	11.1.0
2013-09	RAN#61	R5s130395	1706	-	Addition of LTE-A (Rel-10) Carrier Aggregation MAC test case 7.1.4.18	11.0.0	11.1.0

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2013-09	RAN#61	R5s130397	1707	-	Addition of LTE-A (Rel-10) Carrier Aggregation RRC test case	11.0.0	11.1.0
2013-09	RAN#61	R5s130400	1708	-	8.3.1.18.2 Addition of LTE-A (Rel-10) Carrier Aggregation RRC test case	11.0.0	11.1.0
2013-09	RAN#61	R5s130402	1709	-	8.3.1.17.2 Addition of LTE-A (Rel-10) Carrier Aggregation RRC test case	11.0.0	11.1.0
2013-09	RAN#61	R5s130404	1710	-	8.3.1.22.2 Addition of LTE-A (Rel-10) Carrier Aggregation RRC test case	11.0.0	11.1.0
2013-09	RAN#61	R5s130406	1711	-	8.2.2.3.2 Addition of LTE-A Carrier Aggregation RRC inter-band test case	11.0.0	11.1.0
2013-09	RAN#61	R5s130408	1712	-	8.2.2.4.2 Addition of LTE-A Carrier Aggregation RRC inter-band test case	11.0.0	11.1.0
2013-09	RAN#61	R5s130413	1713	-	Re-verification of EMM Test Case 9.2.3.4.1	11.0.0	11.1.0
2013-09	RAN#61	R5s130417	1714	-	Correction to template cr_SingleAccessCapAny in LTE ATS	11.0.0	11.1.0
2013-09	RAN#61	R5s130418	1683	-	LTE_TDD : Correction to EUTRA RRC TC 8.3.1.16	11.0.0	11.1.0
2013-09	RAN#61	R5s130419	1715	-	LTE/SAE ATS cleanup (moving "modulepar" PICS to	11.0.0	11.1.0
2013-09	RAN#61	R5s130420	1716	-	('parameters.ttcn') Correction to Eutra RRC TC 8.5.1.2	11.0.0	11.1.0
2013-09	RAN#61	R5s130422	1717	-	Addition of GCF WI-162 LTE-A Carrier Aggregation RRC handover	11.0.0	11.1.0
2013-09	RAN#61	R5s130426	1718	-	test case 8.2.4.18.2 Correction to EUTRA multi layer Test Case 13.3.1.3	11.0.0	11.1.0
2013-09	RAN#61	R5s130428	1719	-	Correction to EUTRA EMM TC 9.2.2.1.3	11.0.0	11.1.0
2013-09	RAN#61	R5s130429	1720	-	Correction to EMM test case 9.2.2.2.2	11.0.0	11.1.0
2013-09	RAN#61	R5s130431	1721	-	Correction to function f_EUTRA_ActivateAdditionalPDNOnDef()	11.0.0	11.1.0
2013-09	RAN#61	R5s130432	1722	-	Correction to RLC Explicit size for FACH configuration in UTRA	11.0.0	11.1.0
2013-09	RAN#61	R5s130433	1723	-	TDD Correction to function f_UTRAN_Init	11.0.0	11.1.0
2013-09	RAN#61	R5s130434	1724	-	Correction to testcase 9.2.3.2.3 & 9.2.3.2.1b	11.0.0	11.1.0
2013-09	RAN#61	R5s130436	1725	-	Correction to EUTRA Multi-Layer Test Case 13.1.9	11.0.0	11.1.0
2013-09	RAN#61	R5s130438	1726	-	Correction to GCF WI-082 EUTRA EMM Testcase 9.1.4.2	11.0.0	11.1.0
2013-09	RAN#61	R5s130440	1727	-	Correction to GCF WI-151 EUTRA FDD-TDD Testcase 8.3.1.13a	11.0.0	11.1.0
2013-09	RAN#61	R5s130441	1728	-	Correction to GCF WI-151 EUTRA FDD-TDD Testcase 8.3.1.16a	11.0.0	11.1.0
2013-09	RAN#61	R5s130442	1729	-	Correction to EUTRA RRC Test Case 8.2.4.14	11.0.0	11.1.0
2013-09	RAN#61	R5s130443	1730	-	Correction to GCF WI-151 EUTRA FDD-TDD Testcase 8.3.1.15a	11.0.0	11.1.0
2013-09	RAN#61	R5s130444	1731	-	Correction to EMM Test Case 9.2.3.1.6	11.0.0	11.1.0
2013-09	RAN#61	R5s130447	1684	-	LTE_TDD: Addition to GCF WI-096 EUTRA EMM test case 9.2.3.2.1c	11.0.0	11.1.0
2013-09	RAN#61	R5s130451	1732	-	Correction to GCF WI-086 EUTRA EMM Testcase 9.2.3.2.3	11.0.0	11.1.0
2013-09	RAN#61	R5s130452	1733	-	Correction to the naming convention of ASN.1 type controlChannelDRXInfoTDD128 for TD LTE<>TDSDMA testcases	11.0.0	11.1.0
2013-09	RAN#61	R5s130453	1734	-	Correction to Generic IMS Registration procedure	11.0.0	11.1.0
2013-09	RAN#61	R5s130455	1735	-	Correction to functions in f_EUTRA_Preamble_EmptyCSG_AllowedList()	11.0.0	11.1.0
2013-09	RAN#61	R5s130456	1736	-	Correction to EMM Test Cases 9.2.3.2.1b and 9.2.1.2.1b	11.0.0	11.1.0
2013-09	RAN#61	R5s130471	1737	-	GCF Priority 1 - Corrections to EUTRA RRC Test Case 8.2.4.13a	11.0.0	11.1.0
2013-09	RAN#61	R5s130479	1738	-	Correction to EMM TC 9.2.3.2.1b	11.0.0	11.1.0
2013-09	RAN#61	R5s130481	1739	-	Correction to EUTRA Idle Mode TC 6.4.1	11.0.0	11.1.0
2013-09	RAN#61	R5s130482	1740	-	Correction to EMM test cases 9.2.3.3.5 and 9.2.3.2.3	11.0.0	11.1.0
2013-09	RAN#61	R5s130483	1685	-	LTE_TDD: Addition of GCF WI-162 LTE-A Carrier Aggregation RRC intra-band test case 8.5.1.7.1	11.0.0	11.1.0

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2013-09	RAN#61	R5s130485	1686	-	LTE_TDD: Addition of GCF WI-162 LTE-A Carrier Aggregation RRC intra-band test case 8.2.2.4.1	11.0.0	11.1.0
2013-09	RAN#61	R5s130487	1687	-	LTE_TDD: Addition of GCF WI-162 LTE-A Carrier Aggregation RRC intra-band test case 8.2.2.5.1		11.1.0
2013-09	RAN#61	R5s130489	1741	-	Addition of GCF WI-162 LTE-A Carrier Aggregation RRC intra-band test case 8.5.1.7.1	11.0.0	11.1.0
2013-09	RAN#61	R5s130493	1742	-	Addition of GCF WI-162 LTE-A Carrier Aggregation RRC intra-band test case 8.2.2.5.1	11.0.0	11.1.0
2013-09	RAN#61	R5s130495	1743	-	Addition of GCF WI-154/ee1 EUTRA IMS Emergency Call test case 8.1.2.11	11.0.0	11.1.0
2013-09	RAN#61	R5s130498	1744	-	Corrections to PLMN values for UTRAN band VI	11.0.0	11.1.0
2013-09	RAN#61	R5s130501	1745	-	Correction to AddressInfo in PktDataProtoAddr	11.0.0	11.1.0
2013-09	RAN#61	R5s130502	1746	-	Correction to Test Case Selection Expressions for TC 6.2.2.5	11.0.0	11.1.0
2013-09	RAN#61	R5s130503	1747	-	Correction to f_EUTRA_508RRC_AddModRel_Scell_Common function	11.0.0	11.1.0
2013-09	RAN#61	R5s130505	1748	-	TTCN Correction in Test case 8.5.4.1 for optional IE checking in UE Capability Information	11.0.0	11.1.0
2013-09	RAN#61	R5s130506	1749	-	Correction to GCF WI-086 EUTRA Multilayer Testcase 13.4.2.1	11.0.0	11.1.0
2013-09	RAN#61	R5s130507	1750	-	Correction to Selection Expressions for SMS over SGs test cases.	11.0.0	11.1.0
2013-09	RAN#61	R5s130512	1751	-	Correction to IP Handing for EUTRA<>UTRA Testcases	11.0.0	11.1.0
2013-09	RAN#61	R5s130513	1752	-	Correction to the System Information for EUTRA Testcases	11.0.0	11.1.0
2013-09	RAN#61	R5s130520	1753	-	Correction to EUTRA Idle Mode TC 6.2.2.5	11.0.0	11.1.0
2013-09	RAN#61	R5s130521	1688	-	LTE_TDD: Addition of GCF WI-096 test case 6.2.2.5	11.0.0	11.1.0
2013-09	RAN#61	R5s130523	1689	-	LTE_TDD: Addition to GCF WI-096 EUTRA Multilayer test case 13.4.2.1	11.0.0	11.1.0
2013-09	RAN#61	R5s130527	1754	-	Addition of LTE-A ZUC test case 7.3.3.5 for FDD	11.0.0	11.1.0
2013-09	RAN#61	R5s130529	1755	-	Addition of LTE-A ZUC test case 7.3.3.6 for FDD	11.0.0	11.1.0
2013-09	RAN#61	R5s130531	1756	-	Addition of LTE-A ZUC test case 7.3.4.3 for FDD	11.0.0	11.1.0
2013-09	RAN#61	R5s130533	1757	-	Addition of LTE-A ZUC test case 9.4.5 for FDD	11.0.0	11.1.0
2013-09	RAN#61	R5s130535	1758	-	Addition of LTE-A ZUC test case 9.4.6 for FDD	11.0.0	11.1.0
2013-09	RAN#61	R5s130537	1759	-	Correction to f_UT_CheckETWS_CMAS_NoAlert	11.0.0	11.1.0
2013-09	RAN#61	R5s130538	1690	-	LTE_TDD: Addition of GCF WI-169 test case 8.1.3.6a	11.0.0	11.1.0
2013-09	RAN#61	R5s130540	1760	-	Correction to GCF WI-081 EUTRA MAC Testcase 7.1.5.1	11.0.0	11.1.0
2013-09	RAN#61	R5s130545	1761	-	Correction to LTE-GERAN test case 13.4.2.5	11.0.0	11.1.0
2013-09	RAN#61	R5s130546	1762	-	Correction to LTE-GERAN Idle Mode testcase 6.2.3.1	11.0.0	11.1.0
2013-09	RAN#61	R5s130547	1763	-	Correction to GCF WI-096 EUTRA EMM Testcase 9.2.3.2.1b	11.0.0	11.1.0
2013-09	RAN#61	R5s130548	1691	-	LTE_TDD : Addition of LTE-A ZUC test case 7.3.3.5	11.0.0	11.1.0
2013-09	RAN#61	R5s130550	1692	-	LTE_TDD : Addition of LTE-A ZUC test case 7.3.3.6	11.0.0	11.1.0
2013-09	RAN#61	R5s130552	1693	-	LTE_TDD : Addition of LTE-A ZUC test case 7.3.4.3	11.0.0	11.1.0
2013-09	RAN#61	R5s130554	1694	-	LTE_TDD : Addition of LTE-A ZUC test case 9.4.6	11.0.0	11.1.0
2013-09	RAN#61	R5s130556	1695	-	LTE_TDD : Addition of LTE-A ZUC test case 9.4.5	11.0.0	11.1.0
2013-09	RAN#61	R5s130558	1764	-	Correction to Ciphering configuration for UTRA TDD	11.0.0	11.1.0
2013-09	RAN#61	R5s130559	1765	-	Correction to DL RB0 configuration and BCCH configuration for	11.0.0	11.1.0
2013-09	RAN#61	R5s130577	1696	-	LTE_TDD: Addition of GCF WI-169 test case 6.2.3.4a	11.0.0	11.1.0
2013-09	RAN#61	R5s130587	1766	-	Addition of HeNB test case 6.3.9	11.0.0	11.1.0

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2013-09	RAN#61	R5s130589	1767	-	Correction to EMM Testcase 9.2.1.2.11	11.0.0	11.1.0
2013-09	RAN#61	RP-131108	1697	-	CR to 36.523-3: Add new verified and e-mail agreed TTCN test cases in the TC lists in 36.523-3 (prose), Annex A	11.0.0	11.1.0
2013-12	RAN#62	R5-135000	1768	-	36523-3: Routine maintenance and updates	11.1.0	11.2.0
2013-12	RAN#62	R5s130491	1769	-	Addition of GCF WI-162 LTE-A Carrier Aggregation RRC intra-band test case 8.2.2.4.1	11.1.0	11.2.0
2013-12	RAN#62	R5s130525	1770	-	Addition of LTE-A Minimization of Drive Tests (MDT)test case	11.1.0	11.2.0
2013-12	RAN#62	R5s130561	1771	-	8.6.2.1 Addition of GCF WI-086 Multi-Layer SRVCC test case 13.4.3.1	11.1.0	11.2.0
2013-12	RAN#62	R5s130563	1772	-	Addition of MDT test case 8.6.4.1	11.1.0	11.2.0
2013-12	RAN#62	R5s130566	1773	-	Addition of LTE-A Minimization of Drive Tests (MDT) test case	11.1.0	11.2.0
2013-12	RAN#62	R5s130568	1774	-	8.6.2.6 Addition of LTE-A Minimization of Drive Tests (MDT) test case	11.1.0	11.2.0
2013-12	RAN#62	R5s130577	1775	-	8.6.2.7 LTE_TDD: Addition of GCF WI-169 test case 6.2.3.4a	11.1.0	11.2.0
2013-12	RAN#62	R5s130582	1776	-	Addition of LTE MDT test case 8.6.2.4	11.1.0	11.2.0
2013-12	RAN#62	R5s130584	1777	-	Addition of LTE MDT test case 8.6.2.2	11.1.0	11.2.0
2013-12	RAN#62	R5s130589	1778	-	Correction to EMM Testcase 9.2.1.2.11	11.1.0	11.2.0
2013-12	RAN#62	R5s130591	1779	-	Addition of LTE-A Minimization of Drive Tests (MDT) test case	11.1.0	11.2.0
2013-12	RAN#62	R5s130593	1780	-	8.6.2.5 Addition of LTE MDT test case 8.6.4.2	11.1.0	11.2.0
2013-12	RAN#62	R5s130600	1781	-	Addition of GCF WI-159 EUTRA-1xRTT eCSFB test case 8.4.7.6	11.1.0	11.2.0
2013-12	RAN#62	R5s130602	1782	-	Addition of GCF WI-159 EUTRA-1xRTT eCSFB test case 8.4.7.7	11.1.0	11.2.0
2013-12	RAN#62	R5s130604	1783	-	LTE_TDD : Correction to RRC Testcase 8.4.1.4	11.1.0	11.2.0
2013-12	RAN#62	R5s130605	1784	-	LTE_TDD : Correction in	11.1.0	11.2.0
2013-12	RAN#62	R5s130606	1785	-	f_SS_DL_DPCH_ModifySRB_to_HS_DSCH function LTE_TDD: Addition to GCF WI-096 EUTRA Multilayer test case	11.1.0	11.2.0
2013-12	RAN#62	R5s130608	1786	-	13.1.3 Correction to LTE-A Carrier Aggregation test cases 8.2.2.3.x	11.1.0	11.2.0
2013-12	RAN#62	R5s130610	1787	-	Correction to EMM Test Case 9.3.1.4 and 9.3.1.5	11.1.0	11.2.0
2013-12	RAN#62	R5s130615	1788	-	Addition of LTE-A Minimization of Drive Tests (MDT) test case	11.1.0	11.2.0
2013-12	RAN#62	R5s130617	1789	-	8.6.4.6 Correction to EUTRA Idle Mode Test Case 6.2.3.1a	11.1.0	11.2.0
2013-12	RAN#62	R5s130622	1790	-	TTCN Correction in EMM test case 9.2.3.1.17	11.1.0	11.2.0
2013-12	RAN#62	R5s130623	1791	-	LTE_TDD: Addition of GCF WI-156 EUTRA RRC measurement	11.1.0	11.2.0
2013-12	RAN#62	R5s130629	1792	-	test case 8.3.1.16 Correction in Test case applicability for CA test cases	11.1.0	11.2.0
2013-12	RAN#62	R5s130631	1793	-	Addition of GCF WI-162 LTE-A Carrier Aggregation MAC test case	11.1.0	11.2.0
2013-12	RAN#62	R5s130633	1794	-	7.1.4.21 Correction of test case 7.1.5.1	11.1.0	11.2.0
2013-12	RAN#62	R5s130634	1795	-	Correction of test case 9.2.3.2.10 and 9.3.1.7a	11.1.0	11.2.0
2013-12	RAN#62	R5s130636	1796	-	Addition of Multilayer test case 13.1.2a	11.1.0	11.2.0
2013-12	RAN#62	R5s130639	1797	-	Addition of LTE-A Minimization of Drive Tests (MDT) test case	11.1.0	11.2.0
2013-12	RAN#62	R5s130641	1798	-	8.6.4.3 Correction to idle mode test case 6.2.3.1	11.1.0	11.2.0
2013-12	RAN#62	R5s130642	1799	-	Correction to RLC test case 7.2.2.3	11.1.0	11.2.0
2013-12	RAN#62	R5s130643	1800	-	Addition of (Rel-9) EUTRA RRC Measurement test case 8.3.1.23	11.1.0	11.2.0
2013-12	RAN#62	R5s130645	1801	-	Addition of (Rel-9) EUTRA RRC Measurement test case 8.3.1.25	11.1.0	11.2.0
2013-12	RAN#62	R5s130647	1802	-	Correction to Ciphering configuration for EUTRA<>UTRA	11.1.0	11.2.0
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2013-12	RAN#62	R5s130648	1803	-	Correction to GCF WI-082 EUTRA ESM Testcase 10.6.1	11.1.0	11.2.0
2013-12	RAN#62	R5s130649	1804	-	Correction to GCF WI-151 EUTRA FDD<>TDD Testcase 8.2.4.13a	11.1.0	11.2.0
2013-12	RAN#62	R5s130650	1805	-	Correction to GCF WI-151 EUTRA FDD<>TDD Testcase 8.3.1.15a	11.1.0	11.2.0
2013-12	RAN#62	R5s130651	1806	-	Correction to GCF WI-154 IMS Emergency Call over EPS / EUTRA Testcase 8.1.2.11	11.1.0	11.2.0
2013-12	RAN#62	R5s130652	1807	-	LTE_TDD: Addition of (Rel-9) EUTRA RRC Measurement test case 8.3.1.23	11.1.0	11.2.0
2013-12	RAN#62	R5s130654	1808	-	LTE_TDD: Addition of (Rel-9) EUTRA RRC Measurement test case 8.3.1.24	11.1.0	11.2.0
2013-12	RAN#62	R5s130656	1809	-	LTE_TDD: Addition of EMM test case 9.2.3.3.5a	11.1.0	11.2.0
2013-12	RAN#62	R5s130658	1810	-	LTE_TDD : Addition of Multi-layer test case 13.1.2a	11.1.0	11.2.0
2013-12	RAN#62	R5s130660	1811	-	Correction required to IMS Registration procedure	11.1.0	11.2.0
2013-12	RAN#62	R5s130661	1812	-	LTE_TDD: Correction to GCF WI-096 TD_LTE<>TDSDMA Testcase 8.4.1.4	11.1.0	11.2.0
2013-12	RAN#62	R5s130662	1813	-	LTE_TDD: Correction to GCF WI-096 TD_LTE<>TDSDMA Testcase 13.1.4	11.1.0	11.2.0
2013-12	RAN#62	R5s130663	1814	-	LTE_TDD: Addition of (Rel-9) EUTRA RRC Measurement test case 8.3.1.25	11.1.0	11.2.0
2013-12	RAN#62	R5s130665	1815	-	LTE_TDD: Addition of (Rel-9) EUTRA RRC Measurement test case 8.3.1.26	11.1.0	11.2.0
2013-12	RAN#62	R5s130667	1816	-	LTE_TDD: Addition of (Rel-9) EUTRA RRC Measurement test case 8.3.1.27	11.1.0	11.2.0
2013-12	RAN#62	R5s130669	1817	-	Addition of (Rel-9) EUTRA RRC Measurement test case 8.3.1.24	11.1.0	11.2.0
2013-12	RAN#62	R5s130671	1818	-	Addition of (Rel-9) EUTRA RRC Measurement test case 8.3.1.26	11.1.0	11.2.0
2013-12	RAN#62	R5s130676	1819	-	LTE_TDD : Addition of EMM test case 9.2.2.1.3	11.1.0	11.2.0
2013-12	RAN#62	R5s130678	1820	-	Correction in function f_UTRAN_CS_Fallback_WithHandover()	11.1.0	11.2.0
2013-12	RAN#62	R5s130680	1821	-	Correction in function f_EUTRA_SendAuthParameters() and related functions	11.1.0	11.2.0
2013-12	RAN#62	R5s130682	1822	-	Correction for applicability for SMS test cases 11.1.5 and 11.1.6	11.1.0	11.2.0
2013-12	RAN#62	R5s130683	1823	-	Correction for EUTRA Idle Mode test case 6.1.2.17	11.1.0	11.2.0
2013-12	RAN#62	R5s130688	1824	-	LTE_TDD: Addition of LTE-A Carrier Aggregation MAC test case 7.1.4.18	11.1.0	11.2.0
2013-12	RAN#62	R5s130690	1825	-	Correction to LTE-A Carrier Aggregation RRC test cases 8.3.1.18.x	11.1.0	11.2.0
2013-12	RAN#62	R5s130693	1826	-	Correction for EMM Test Case 9.2.3.4.1	11.1.0	11.2.0
2013-12	RAN#62	R5s130695	1827	-	Correction to RRC TC 8.3.1.13	11.1.0	11.2.0
2013-12	RAN#62	R5s130696	1828	-	LTE_TDD: Addition of GCF WI-162 LTE-A Carrier Aggregation MAC test case 7.1.4.21	11.1.0	11.2.0
2013-12	RAN#62	R5s130699	1829	-	Correction of GCF WI-086 E-UTRA EMM Test case 9.2.3.3.4	11.1.0	11.2.0
2013-12	RAN#62	R5s130700	1830	-	Correction to MDT test case 8.6.2.4	11.1.0	11.2.0
2013-12	RAN#62	R5s130703	1831	-	Correction for RRC test case 8.5.1.3	11.1.0	11.2.0
2013-12	RAN#62	R5s130704	1832	-	LTE_TDD: Correction in cs_TrChInfoTrCHListDL_336_148_TDD template	11.1.0	11.2.0
2013-12	RAN#62	R5s130705	1833	-	Correction to function cs_TrLogMappingPCH_FACH_PS_TDD	11.1.0	11.2.0
2013-12	RAN#62	R5s130707	1834	-	Correction to test case 9.2.1.2.1b and 9.2.1.2.1c	11.1.0	11.2.0
2013-12	RAN#62	R5s130708	1835	-	Correction to MDT test case 8.6.2.6.	11.1.0	11.2.0
2013-12	RAN#62	R5s130709	1836	-	Correction to test case 9.2.3.2.3	11.1.0	11.2.0
2013-12	RAN#62	R5s130711	1837	-	LTE_TDD: Addition of EUTRA Multi-layer test case 13.1.5	11.1.0	11.2.0
2013-12	RAN#62	R5s130713	1838	-	Correction to test case LTE-UTRA test case 6.2.3.33	11.1.0	11.2.0
2013-12	RAN#62	R5s130717	1839	-	Correction to GCF WI-151 EUTRA FDD-TDD test case 8.3.1.13a	11.1.0	11.2.0

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2013-12	RAN#62	R5s130718	1840	-	Correction to GCF WI-151 EUTRA FDD-TDD test case 8.3.1.16a	11.1.0	11.2.0
2013-12	RAN#62	R5s130720	1841	-	Correction of (Rel-9) EUTRA RRC Measurement test case 8.3.1.25	11.1.0	11.2.0
2013-12	RAN#62	R5s130721	1842	-	Correction to EUTRA EMM test case 9.2.3.2.1b	11.1.0	11.2.0
2013-12	RAN#62	R5s130722	1843	-	Correction to EUTRA EMM test case 9.2.3.2.3	11.1.0	11.2.0
2013-12	RAN#62	R5s130723	1844	-	LTE_TDD: Addition of GCF WI-169 test case 8.3.2.11	11.1.0	11.2.0
2013-12	RAN#62	R5s130725	1845	-	LTE_TDD: Addition of GCF WI-169 test case 8.3.2.3a	11.1.0	11.2.0
2013-12	RAN#62	R5s130727	1846	-	Correction of (Rel-9) EUTRA RRC Measurement test case 8.3.1.26	11.1.0	11.2.0
2013-12	RAN#62	R5s130730	1847	-	Correction to PLMN MCC conversion functions	11.1.0	11.2.0
2013-12	RAN#62	R5s130731	1848	-	Addition of LTE-A Carrier Aggregation RRC test case 8.2.4.21.2	11.1.0	11.2.0
2013-12	RAN#62	R5s130733	1849	-	Addition of (Rel-9) EUTRA RRC Measurement test case 8.3.1.27	11.1.0	11.2.0
2013-12	RAN#62	R5s130735	1850	-	Corrections to EUTRA Idle Mode Test case 6.2.1.1	11.1.0	11.2.0
2013-12	RAN#62	R5s130736	1851	-	Correction to EUTRA RRC Test case 8.1.1.6	11.1.0	11.2.0
2013-12	RAN#62	R5s130741	1852	-	Correction of Rel-9 EUTRA RRC Measurement test case 8.3.1.26	11.1.0	11.2.0
2013-12	RAN#62	R5s130744	1853	-	LTE_TDD : Addition of RRC test case 8.3.2.5	11.1.0	11.2.0
2013-12	RAN#62	R5s130745	1854	-	Correction to MDT test case 8.6.2.6	11.1.0	11.2.0
2013-12	RAN#62	R5s130748	1855	-	Addition of GCF WI-154/ee1 IMS Emergency Call over EPS test case 11.2.1	11.1.0	11.2.0
2013-12	RAN#62	R5s130752	1856	-	LTE_TDD : Addition of LTE-A CA RRC test case 8.2.2.3.1	11.1.0	11.2.0
2013-12	RAN#62	R5s130762	1857	-	Correction to GCF WI-086 EUTRA EMM Test case 9.2.3.3.5	11.1.0	11.2.0
2013-12	RAN#62	R5s130763	1858	-	Correction to GCF WI-088 EUTRA<>HRPD Inter-RAT test case 8.3.3.4	11.1.0	11.2.0
2013-12	RAN#62	R5s130772	1859	-	Correction to test case 9.2.3.2.1a	11.1.0	11.2.0
2013-12	RAN#62	R5s130773	1860	-	correction to f_UTRAN_CS_Fallback_WithRedirection_WithoutRRCConnEst	11.1.0	11.2.0
2013-12	RAN#62	R5s130774	1861	-	Correction to test case 9.2.1.2.8 and 9.2.3.2.8	11.1.0	11.2.0
2013-12	RAN#62	R5s130775	1862	-	Correction to test case 13.4.2.4	11.1.0	11.2.0
2013-12	RAN#62	R5s130777	1863	-	Correction to LTE-GERAN test cases on SNDCP and IP config	11.1.0	11.2.0
2013-12	RAN#62	R5s130778	1864	-	Correction to GCF WI-086 EUTRA Testcases 6.2.3.31 and 9.2.3.3.1	11.1.0	11.2.0
2013-12	RAN#62	R5s130782	1865	-	Addition of LTE-A Carrier Aggregation RRC Handover test cases 8.2.4.17.2	11.1.0	11.2.0
2013-12	RAN#62	R5s130784	1866	-	Addition of LTE-A Carrier Aggregation RRC Handover test cases 8.2.4.20.2	11.1.0	11.2.0
2013-12	RAN#62	R5s130786	1867	-	LTE_TDD: Addition of GCF WI-091 EUTRA Idle Mode CSG test case 6.3.1	11.1.0	11.2.0
2013-12	RAN#62	R5s130788	1868	-	Addition of LTE-A Carrier Aggregation RRC Handover test cases 8.2.4.19.2	11.1.0	11.2.0
2013-12	RAN#62	R5s130797	1869	-	Correction to common function of_UTRAN_CS_Fallback_WithHandovero	11.1.0	11.2.0
2013-12	RAN#62	R5s130807	1870	-	Correction to SRVCC test case 13.4.3.1	11.1.0	11.2.0
2013-12	RAN#62	R5s130812	1871	-	Re-verification of HeNB test case 6.3.9	11.1.0	11.2.0
2013-12	RAN#62	R5s130814	1872	-	Correction to EMM test cases 9.2.1.2.1d and 9.2.3.2.1c	11.1.0	11.2.0
2013-12	RAN#62	R5s130817	1873	-	Correction to ESM test case 10.8.7	11.1.0	11.2.0
2013-12	RAN#62	R5s130819	1874	-	LTE_TDD: Addition of EUTRA Idle Mode CSG test case 6.4.1	11.1.0	11.2.0
2013-12	RAN#62	R5s130825	1875	-	Addition of Rel-9 EUTRA RRC test case 8.3.2.11	11.1.0	11.2.0
2013-12	RAN#62	R5s130828	1876	-	Correction to RRC test case 8.5.4.1	11.1.0	11.2.0

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2013-12	RAN#62	R5s130829	1877	-	Addition of Rel-9 EUTRA Idle Mode MFBI test case 6.1.2.19	11.1.0	11.2.0
2013-12	RAN#62	R5s130831	1878	-	Addition of Rel-9 EUTRA Idle Mode MFBI test case 6.1.2.20	11.1.0	11.2.0
2013-12	RAN#62	R5s130833	1879	-	LTE_TDD : Addition of Multi-layer test case 13.1.15	11.1.0	11.2.0
2013-12	RAN#62	R5s130837	1880	-	Addition of GCF WI-156 EUTRA Idle Mode MFBI test case 6.1.2.21	11.1.0	11.2.0
2013-12	RAN#62	R5s130839	1881	-	LTE_TDD : Addition of HeNB test case 6.3.9	11.1.0	11.2.0
2013-12	RAN#62	R5s130841	1882	-	Addition of Rel-9 EUTRA RRC MFBI test case 8.2.4.22	11.1.0	11.2.0
2013-12	RAN#62	R5s130845	1883	-	Correction to LTE-A CA test case 8.2.4.17.2	11.1.0	11.2.0
2013-12	RAN#62	R5s130851	1884	-	Correction to common function	11.1.0	11.2.0
2013-12	RAN#62	R5s130852	1885	-	f_UTRAN_InterRAT_InitialiseAuthParams_Common() LTE_TDD: Addition of GCF WI-162 LTE-A Carrier Aggregation test case 8.3.1.17.1	11.1.0	11.2.0
2013-12	RAN#62	R5s130856	1886	-	Correction to MultiLayer test case 13.1.2a	11.1.0	11.2.0
2013-12	RAN#62	R5s130857	1887	-	Correction to EMM test case 9.2.3.2.3	11.1.0	11.2.0
2013-12	RAN#62	R5s130858	1888	-	Addition of EUTRA<>UTRA Hybrid CSG Cell test case 6.4.5	11.1.0	11.2.0
2013-12	RAN#62	R5s130860	1889	-	Corrections to EUTRA FDD-TDD test case 8.3.1.16a	11.1.0	11.2.0
2013-12	RAN#62	R5s130863	1890	-	Correction to EUTRA RRC Test case 8.5.4.1	11.1.0	11.2.0
2013-12	RAN#62	R5s130864	1891	-	LTE_TDD : Addition of LTE-A CA RRC test case 8.3.1.22.1	11.1.0	11.2.0
2013-12	RAN#62	R5s130866	1892	-	Addition of LTE-A CA RRC test case 8.3.1.22.1	11.1.0	11.2.0
2013-12	RAN#62	RP-131869	1893	-	CR to 36.523-3: Add new verified and e-mail agreed TTCN test cases in the TC lists in 36.523-3 (prose), Annex A	11.1.0	11.2.0
2014-03	RAN#63	R5-140787	1894	-		11.2.0	11.3.0
2014-03	RAN#63	R5-140788	1895	-	CA Enhancements: Test Model	11.2.0	11.3.0
2014-03	RAN#63	R5-141113	1896	-	Routine maintenance and updates	11.2.0	11.3.0
2014-03	RAN#63	R5s130876	1897	-	LTE_TDD : Addition of LTE-A CA RRC test case 8.3.1.18.1	11.2.0	11.3.0
2014-03	RAN#63	R5s130879	1898	-	Correction of GCF WI-087 Multilayer Testcases TC 13.1.8, 13.1.9	11.2.0	11.3.0
2014-03	RAN#63	R5s130880	1899	-	Correction to GCF WI-082 EUTRA ESM Testcase 10.6.1	11.2.0	11.3.0
2014-03	RAN#63	R5s130883	1900	-	Correction to LTE-GERAN test cases on SNDCP and IP config	11.2.0	11.3.0
2014-03	RAN#63	R5s130886	1901	-	LTE_TDD : Addition of GCF WI-082 EMM test case 9.2.3.1.15a	11.2.0	11.3.0
2014-03	RAN#63	R5s130888	1902	-	LTE_TDD : Addition of GCF WI-082 EMM test case 9.2.3.1.18a	11.2.0	11.3.0
2014-03	RAN#63	R5s130890	1903	-	Addition of RRC MDT test case 8.6.6.1	11.2.0	11.3.0
2014-03	RAN#63	R5s130895	1904	-	LTE_TDD: Addition of Rel-9 EUTRA RRC Measurement test case 8.3.1.13	11.2.0	11.3.0
2014-03	RAN#63	R5s130898	1905	-	Correction to Test Frequencies for CA Band Combinations CA_1A_18A and CA_11A_18A .	11.2.0	11.3.0
2014-03	RAN#63	R5s130899	1906	-		11.2.0	11.3.0
2014-03	RAN#63	R5s130902	1907	-	Correction of the setting of Location services indicators in all POS TCs	11.2.0	11.3.0
2014-03	RAN#63	R5s130903	1908	-		11.2.0	11.3.0
2014-03	RAN#63	R5s130904	1909	-	Correction to GCF WI-081 Multilayer SRVCC Test Case 13.4.3.1	11.2.0	11.3.0
2014-03	RAN#63	R5s130915	1910	-	Correction to Idle Mode Testcase 6.2.3.15	11.2.0	11.3.0
2014-03	RAN#63	R5s130917	1911	-	13wk43 regression CRs related to IMS Emergency Call test cases	11.2.0	11.3.0
2014-03	RAN#63	R5s130918	1912	-	Addition of EUTRA Hybrid CSG Cell test case 6.4.2	11.2.0	11.3.0
2014-03	RAN#63	R5s130920	1913	-	LTE_TDD: Addition of EUTRA Hybrid CSG Cell test case 6.4.2	11.2.0	11.3.0

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2014-03	RAN#63	R5s130922	1914	-	Addition of GCF WI-086 EUTRA <>UTRA CSG test case 6.3.3	11.2.0	11.3.0
2014-03	RAN#63	R5s130929	1915	-	Correction to GCF WI-086 EUTRA Idle Mode Testcase 6.2.3.31	11.2.0	11.3.0
2014-03	RAN#63	R5s130933	1916	-	LTE_TDD : Addition of EUTRA Idle Mode test case 6.1.2.15b	11.2.0	11.3.0
2014-03	RAN#63	R5s130935	1917	-	LTE_TDD : Addition of EUTRA Idle Mode MFBI test case 6.1.2.19	11.2.0	11.3.0
2014-03	RAN#63	R5s130937	1918	-	LTE_TDD : Addition of EUTRA Idle Mode MFBI test case 6.1.2.20	11.2.0	11.3.0
2014-03	RAN#63	R5s130939	1919	-	LTE_TDD : Addition of EUTRA RRC test case 8.3.1.9a	11.2.0	11.3.0
2014-03	RAN#63	R5s130941	1920	-	LTE_TDD : Addition of EUTRA RRC test case 8.3.1.11a	11.2.0	11.3.0
2014-03	RAN#63	R5s130943	1921	-	LTE_TDD : Addition of EUTRA Idle mode test case 6.2.3.1a	11.2.0	11.3.0
2014-03	RAN#63	R5s130946	1922	-	LTE_TDD: Addition of GCF WI-162 LTE-A Carrier Aggregation RRC test case 8.2.4.17.1	11.2.0	11.3.0
2014-03	RAN#63	R5s130949	1923	-	Correction for GCF WI-081 EUTRA MAC test case 7.1.3.6	11.2.0	11.3.0
2014-03	RAN#63	R5s130951	1924	-	Correction to GCF WI-81 EUTRA RRC latency test cases 8.2.1.5 and 8.2.1.6	11.2.0	11.3.0
2014-03	RAN#63	R5s130960	1925	-	Correction to GCF WI-162 LTE-A CA test case 8.3.1.18.2	11.2.0	11.3.0
2014-03	RAN#63	R5s130961	1926	-	LTE_TDD : Addition of EUTRA RRC MFBI test case 8.2.4.22	11.2.0	11.3.0
2014-03	RAN#63	R5s130964	1927	-	Corrections to LTE-A CA test case 8.2.4.19.2	11.2.0	11.3.0
2014-03	RAN#63	R5s130965	1928	-	Correction to QuantityConfig in Measurement Configuration of EUTRA Testcases	11.2.0	11.3.0
2014-03	RAN#63	R5s130967	1929	-	Addition of EUTRA RRC test case 8.1.3.12b	11.2.0	11.3.0
2014-03	RAN#63	R5s130969	1930	-	Correction of Rel-9 EUTRA Idle Mode MFBI test case 6.1.2.20	11.2.0	11.3.0
2014-03	RAN#63	R5s130970	1931	-	Correction to GCF WI-086 E-UTRA EMM testcase 9.2.1.2.8	11.2.0	11.3.0
2014-03	RAN#63	R5s130971	1932	-	Corrections for LTE-A week49 TTCN delivery	11.2.0	11.3.0
2014-03	RAN#63	R5s130975	1933	-	Addition of EUTRA RRC MDT test case 8.6.6.2	11.2.0	11.3.0
2014-03	RAN#63	R5s130977	1934	-	Correction to f_EUTRA_IdleUpdated_Step14_15 and test case 8.1.2.11	11.2.0	11.3.0
2014-03	RAN#63	R5s130979	1935	-	Addition of GCF WI-162 LTE-A Carrier Aggregation test case 8.4.2.7.2	11.2.0	11.3.0
2014-03	RAN#63	R5s130982	1936	-	Correction of test cases 8.2.4.14a, 8.3.1.15a and 8.3.1.16a	11.2.0	11.3.0
2014-03	RAN#63	R5s130984	1937	-	LTE_TDD: Correction of default UE_TXPWR_MAX_RACH	11.2.0	11.3.0
2014-03	RAN#63	R5s130986	1938	-	Correction of EUTRA Rel-9 Home eNB Enh test case 6.4.2	11.2.0	11.3.0
2014-03	RAN#63	R5s130987	1939	-	Correction of GCF WI-154 EUTRA Emergency Call Test Case 11.2.1	11.2.0	11.3.0
2014-03	RAN#63	R5s130988	1940	-	Addition of GCF WI-154 IMS Emergency Call over EPS test case 11.2.2	11.2.0	11.3.0
2014-03	RAN#63	R5s130989	1941	-	Addition of GCF WI-154 IMS Emergency Call over EPS test case 11.2.4	11.2.0	11.3.0
2014-03	RAN#63	R5s130991	1942	-	Correction to CA test case 8.3.1.22	11.2.0	11.3.0
2014-03	RAN#63	R5s130992	1943	-	Addition of EMM testcase 9.2.1.1.7b	11.2.0	11.3.0
2014-03	RAN#63	R5s130994	1944	-	Correction to GERAN ASP G_CLLC_XID_REQ	11.2.0	11.3.0
2014-03	RAN#63	R5s130995	1945	-	LTE_TDD : Addition of EUTRA Idle mode test case 6.3.3	11.2.0	11.3.0
2014-03	RAN#63	R5s130997	1946	-	LTE_TDD: Addition of EUTRA Idle Mode HeNB test case 6.4.5	11.2.0	11.3.0
2014-03	RAN#63	R5s131000	1947	-	Addition of GCF WI-103 Rel-8 test case 9.2.1.1.28	11.2.0	11.3.0
2014-03	RAN#63	R5s131002	1948	-	Correction of GCF WI-151 EUTRA FDD-TDD Testcase 8.3.1.12a	11.2.0	11.3.0
2014-03	RAN#63	R5s131003	1949	-	Correction of GCF WI-082 EUTRA CSG Testcase 9.2.3.2.16	11.2.0	11.3.0
2014-03	RAN#63	R5s131013	1950	-	Correction to functions f_UTRAN_ConfigureCipheringBeforeHO and f_UTRAN_ConfigureCipheringBeforeHO_SRVCC	11.2.0	11.3.0

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2014-03	RAN#63	R5s131014	1951	-	LTE_TDD: Addition of GCF WI-162 LTE-A Carrier Aggregation RRC test case 8.2.4.18.1	11.2.0	11.3.0
2014-03	RAN#63	R5s131016	1952	-	LTE_TDD: Addition of GCF WI-162 LTE-A Carrier Aggregation RRC test case 8.2.4.19.1	11.2.0	11.3.0
2014-03	RAN#63	R5s131018	1953	-	LTE_TDD: Addition of GCF WI-162 LTE-A Carrier Aggregation RRC test case 8.2.4.20.1	11.2.0	11.3.0
2014-03	RAN#63	R5s131020	1954	-	LTE_TDD: Addition of GCF WI-162 LTE-A Carrier Aggregation RRC test case 8.2.4.21.1	11.2.0	11.3.0
2014-03	RAN#63	R5s131022	1955	-	Addition of GCF WI-162 LTE-A Carrier Aggregation RRC test case 8.2.4.18.1	11.2.0	11.3.0
2014-03	RAN#63	R5s131024	1956	-	Addition of GCF WI-162 LTE-A Carrier Aggregation RRC test case 8.2.4.17.1	11.2.0	11.3.0
2014-03	RAN#63	R5s131026	1957	-	Addition of GCF WI-162 LTE-A Carrier Aggregation RRC test case 8.2.4.21.1	11.2.0	11.3.0
2014-03	RAN#63	R5s131032	1958	-	Addition of GCF WI-162 LTE-A Carrier Aggregation RRC test case 8.2.4.19.1	11.2.0	11.3.0
2014-03	RAN#63	R5s131034	1959	-	Correction to GCF WI-081 Multilayer SRVCC Test Case 13.4.3.1	11.2.0	11.3.0
2014-03	RAN#63	R5s131035	1960	-	Addition of LTE-A Minimization of Drive Tests (MDT) Testcase 8.6.2.8	11.2.0	11.3.0
2014-03	RAN#63	R5s131037	1961	-	Addition of LTE-A Minimization of Drive Tests (MDT) Testcase 8.6.6.3	11.2.0	11.3.0
2014-03	RAN#63	R5s131039	1962	-	Correction of GCF WI-162 CA test cases 8.3.1.22.1/2, 8.2.4.18.1/2 and 8.2.4.19.1/2	11.2.0	11.3.0
2014-03	RAN#63	R5s131041	1963	-	Corrections required for LTE-A Band 29.	11.2.0	11.3.0
2014-03	RAN#63	R5s131042	1964	-	Correction to EUTRA RRC Test Case 8.3.1.16a	11.2.0	11.3.0
2014-03	RAN#63	R5s140002	1965	-	Correction of test cases 13.1.7 and 13.1.9	11.2.0	11.3.0
2014-03	RAN#63	R5s140007	1966	-	LTE_TDD: Correction of Midamble Configuration	11.2.0	11.3.0
2014-03	RAN#63	R5s140009	1967	-	Correction to LTE-A Carrier-Aggregation RRC test case 8.3.1.18.x	11.2.0	11.3.0
2014-03	RAN#63	R5s140010	1968	-	Correction to LTE-A Carrier-Aggregation RRC test case 8.2.2.3.x	11.2.0	11.3.0
2014-03	RAN#63	R5s140011	1969	-	Addition of LTE-A NIMTC test case 9.2.1.1.27	11.2.0	11.3.0
2014-03	RAN#63	R5s140031	1970	-	Addition of GCF WI-154 IMS Emergency Call over EPS test case 8.1.2.12	11.2.0	11.3.0
2014-03	RAN#63	R5s140032	1971	-	Correction of GCF WI-86 EUTRA<>UTRA SRVCC test cases 13.4.3.1	11.2.0	11.3.0
2014-03	RAN#63	R5s140041	1972	-	Addition of LTE-A NIMTC test case 9.2.1.1.2a	11.2.0	11.3.0
2014-03	RAN#63	R5s140045	1973	-	Correction to GCF WI-087 EMM Test Case 9.2.3.4.1	11.2.0	11.3.0
2014-03	RAN#63	R5s140046	1974	-	Correction of test frequencies for UTRAN band VI in EUTRAN test cases	11.2.0	11.3.0
2014-03	RAN#63	R5s140072	1975	-	Correction to EUTRA EMM test cases 9.2.1.2.1b, 9.2.1.2.1c and 9.2.3.2.1b	11.2.0	11.3.0
2014-03	RAN#63	R5s140074	1976	-		11.2.0	11.3.0
2014-03	RAN#63	R5s140075	1977	-	Addition of LTE-A NIMTC test case 9.2.3.1.5a	11.2.0	11.3.0
2014-03	RAN#63	R5s140078	1978	-	Correction to EUTRA RRC Inter-RAT Measurements test case 8.3.2.2	11.2.0	11.3.0
2014-03	RAN#63	R5s140084	1979	-		11.2.0	11.3.0
2014-03	RAN#63	RP-140314	1980	-	CR to 36.523-3: Add new verified and e-mail agreed TTCN test cases in the TC lists in 36.523-3 (prose), Annex A	11.2.0	11.3.0
2014-06	RAN#64	R5-142272	1981	-	felCIC: Test Method	11.3.0	11.4.0
2014-06	RAN#64	R5-142917	1982	-	Addition of operating restrictions for EUTRA MFBI test cases	11.3.0	11.4.0
2014-06	RAN#64	R5-142919	1984	-	Correction to Postambles for E-UTRA to UTRA test for IMS de-	11.3.0	11.4.0
2014-06	RAN#64	R5-142985	1985	-	registration procedures Routine maintenance and updates	11.3.0	11.4.0
2014-06	RAN#64	R5-142987	1986	-	Addition of MFBI Band IXIT	11.3.0	11.4.0
2014-06	RAN#64	R5s130983	1987	-	Correction of test case TC_9_2_1_2_1c	11.3.0	11.4.0

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2014-06	RAN#64	R5s140020	1988	-	Addition of Rel-9 MultiLayer SRVCC test case 13.4.3.6	11.3.0	11.4.0
2014-06	RAN#64	R5s140022	1989	-	Addition of MultiLayer SRVCC test case 13.4.3.4	11.3.0	11.4.0
2014-06	RAN#64	R5s140027	1990	-	Addition of GCF WI-154 IMS Emergency Call over EPS test case	11.3.0	11.4.0
2014-06	RAN#64	R5s140043	1991	-	Addition of Rel-9 MultiLayer SRVCC test case 13.4.3.5	11.3.0	11.4.0
2014-06	RAN#64	R5s140049	1992	-	LTE_TDD: Addition of Rel-10 MDT test case 8.6.2.1	11.3.0	11.4.0
2014-06	RAN#64	R5s140051	1993	-	LTE_TDD: Addition of Rel-10 MDT test case 8.6.2.2	11.3.0	11.4.0
2014-06	RAN#64	R5s140053	1994	-	LTE_TDD: Addition of Rel-10 MDT test case 8.6.2.4	11.3.0	11.4.0
2014-06	RAN#64	R5s140055	1995	-	LTE_TDD: Addition of Rel-10 MDT test case 8.6.2.5	11.3.0	11.4.0
2014-06	RAN#64	R5s140057	1996	-	LTE_TDD: Addition of Rel-10 MDT test case 8.6.2.7	11.3.0	11.4.0
2014-06	RAN#64	R5s140059	1997	-	LTE_TDD: Addition of Rel-10 MDT test case 8.6.4.1	11.3.0	11.4.0
2014-06	RAN#64	R5s140061	1998	-	LTE_TDD: Addition of Rel-10 MDT test case 8.6.4.2	11.3.0	11.4.0
2014-06	RAN#64	R5s140063	1999	-	LTE_TDD: Addition of Rel-10 MDT test case 8.6.4.6	11.3.0	11.4.0
2014-06	RAN#64	R5s140065	2000	-	LTE_TDD: Addition of Rel-10 MDT test case 8.6.2.8	11.3.0	11.4.0
2014-06	RAN#64	R5s140067	2001	-	Addition of LTE-A Minimization of Drive Tests (MDT) Testcase	11.3.0	11.4.0
2014-06	RAN#64	R5s140069	2002	-	8.6.4.5 LTE_TDD: Addition of LTE-A Minimization of Drive Tests (MDT)	11.3.0	11.4.0
2014-06	RAN#64	R5s140073	2003	-	Testcase 8.6.4.5 Correction Correction to GCF WI-150 multilayer test case 13.4.1.5	11.3.0	11.4.0
2014-06	RAN#64	R5s140083	2004	-	Corrections of GCF WI-162 LTE-A CA inter-band test cases for	11.3.0	11.4.0
2014-06	RAN#64	R5s140094	2005	-	band combination with Band 29A Addition of GCF WI-086 EUTRA<>UTRA CSG test case 6.3.4	11.3.0	11.4.0
2014-06	RAN#64	R5s140096	2006	-	Addition of GCF WI-086 MultiLayer SRVCC test case 13.4.3.2	11.3.0	11.4.0
2014-06	RAN#64	R5s140101	2007	-	LTE_TDD: Addition of GCF WI-097 EUTRA<>GERAN test case	11.3.0	11.4.0
2014-06	RAN#64	R5s140102	2008	-	8.3.3.3 LTE_TDD: Addition of GCF WI-097 Multi-layer test case 13.4.2.5	11.3.0	11.4.0
2014-06	RAN#64	R5s140104	2009	-	Correction to EMM test case 9.3.1.18	11.3.0	11.4.0
2014-06	RAN#64	R5s140107	2010	-	Correction to GCF WI-081 RLC test case 7.2.2.4	11.3.0	11.4.0
2014-06	RAN#64	R5s140108	2011	-	Correction to LTE-GERAN Multi-layer test case 13.3.2.2	11.3.0	11.4.0
2014-06	RAN#64	R5s140109	2012	-	Correction to EMM test case 9.2.3.1.12	11.3.0	11.4.0
2014-06	RAN#64	R5s140110	2013	-	Addition of LTE-A Minimization of Drive Tests (MDT) Test case	11.3.0	11.4.0
2014-06	RAN#64	R5s140112	2014	-	8.6.2.3 LTE_TDD: Addition of LTE-A Minimization of Drive Tests (MDT)	11.3.0	11.4.0
2014-06	RAN#64	R5s140118	2015	-	Test case 8.6.2.3 Correction to EUTRA EMM Test Case 9.2.1.2.1b/ 9.2.1.2.1c	11.3.0	11.4.0
2014-06	RAN#64	R5s140119	2016	-	Correction of Test Case 9.2.3.4.1	11.3.0	11.4.0
2014-06	RAN#64	R5s140120	2017	-	LTE_TDD: Correction of Test Case 8.1.3.7	11.3.0	11.4.0
2014-06	RAN#64	R5s140129	2018	-	Addition of Rel-9 Home eNB test case 8.3.4.2	11.3.0	11.4.0
2014-06	RAN#64	R5s140131	2019	-	Addition of Rel-9 Home eNB test case 8.3.4.3	11.3.0	11.4.0
2014-06	RAN#64	R5s140138	2020	-	Correction to WI-151 RRC FDD<>TDD Test Case 8.2.4.15a	11.3.0	11.4.0
2014-06	RAN#64	R5s140139	2021	-	Addition of GCF WI-164 LTE eMBMS Test case 17.1.1	11.3.0	11.4.0
2014-06	RAN#64	R5s140144	2022	-	Correction to GCF WI-086 EMM Test Case 9.2.3.3.1	11.3.0	11.4.0
2014-06	RAN#64	R5s140145	2023	-	Correction to GCF WI-087 Idle Mode test case 6.2.3.16	11.3.0	11.4.0
2014-06	RAN#64	R5s140146	2024	-	Correction to Selection Expressions C130 and C63	11.3.0	11.4.0
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2014-06	RAN#64	R5s140147	2025	-	Addition of LTE-A Minimization of Drive Tests (MDT) Test case	11.3.0	11.4.0
2014-06	RAN#64	R5s140149	2026	-		11.3.0	11.4.0
2014-06	RAN#64	R5s140150	2027	-	Case 8.4.2.2 and 8.4.2.4 Addition of GCF WI-177 EUTRA Rel10 Inter-RAT test Case 8.6.7.1	11.3.0	11.4.0
2014-06	RAN#64	R5s140152	2028	-	LTE_TDD: Addition of Synchronisation Parameters of SYNC_UL	11.3.0	11.4.0
2014-06	RAN#64	R5s140153	2029	-	Addition of LTE-A NIMTC test case 10.5.4	11.3.0	11.4.0
2014-06	RAN#64	R5s140155	2030	-	Correction to EMM test cases 9.2.1.1.18 and 9.2.1.2.14	11.3.0	11.4.0
2014-06	RAN#64	R5s140158	2031	-	Addition of Multi-Layer SRVCC test case 13.4.3.3	11.3.0	11.4.0
2014-06	RAN#64	R5s140160	2032	-	Correction for IMS emergency call test cases	11.3.0	11.4.0
2014-06	RAN#64	R5s140161	2033	-	Corrections to Multi-Layer SRVCC test cases 13.4.3.x	11.3.0	11.4.0
2014-06	RAN#64	R5s140162	2034	-	Correction to GCF WI-082 EMM test case 9.2.1.1.7a	11.3.0	11.4.0
2014-06	RAN#64	R5s140167	2035	-	Correction to EUTRA MDT test Case 8.6.6.2	11.3.0	11.4.0
2014-06	RAN#64	R5s140169	2036	-	,	11.3.0	11.4.0
2014-06	RAN#64	R5s140170	2037	-	11.2.1 Correction to GCF WI-154 IMS Emergency Call over EPS test case	11.3.0	11.4.0
2014-06	RAN#64	R5s140179	2038	-	TTCN Correction for EUTRA EMM Test case 9.2.3.1.6	11.3.0	11.4.0
2014-06	RAN#64	R5s140181	2039	-	Correction to GCF WI-082 EMM Test Case 9.2.3.3.4	11.3.0	11.4.0
2014-06	RAN#64	R5s140182	2040	-	Correction to GCF WI-167 EUTRA Inter-RAT test case 6.2.3.3a	11.3.0	11.4.0
2014-06	RAN#64	R5s140183	2041	-	Correction to EUTRA Test Case 6.1.1.4a	11.3.0	11.4.0
2014-06	RAN#64	R5s140184	2042	-	Correction to QuantityConfig in Measurement Configuration of	11.3.0	11.4.0
2014-06	RAN#64	R5s140188	2043	-	EUTRA Testcases Correction to GCF WI-086 Multilyer SRVCC test Case 13.4.3.2	11.3.0	11.4.0
2014-06	RAN#64	R5s140189	2044	-	Correction to EUTRA Testcases	11.3.0	11.4.0
2014-06	RAN#64	R5s140190	2045	-	Addition of GCF WI-164 LTE eMBMS Test case 17.1.2	11.3.0	11.4.0
2014-06	RAN#64	R5s140192	2046	-	Addition of GCF WI-164 LTE eMBMS Test case 17.1.3	11.3.0	11.4.0
2014-06	RAN#64	R5s140195	2047	-	Addition of LTE-A NIMTC test case 6.1.1.7	11.3.0	11.4.0
2014-06	RAN#64	R5s140198	2048	-	Addition of GCF WI-162 LTE-A Carrier Aggregation test case	11.3.0	11.4.0
2014-06	RAN#64	R5s140200	2049	-	8.4.2.7.1 Addition of GCF WI-164 LTE eMBMS Test case 17.1.4	11.3.0	11.4.0
2014-06	RAN#64	R5s140202	2050	-	Correction to test frequencies for LTE FDD band 28	11.3.0	11.4.0
2014-06	RAN#64	R5s140205	2051	-	Correction to GCF WI-162 LTE-A CA Testcase 8.2.2.3.2	11.3.0	11.4.0
2014-06	RAN#64	R5s140206	2052	-	Addition of GCF WI-164 LTE eMBMS Test case 17.2.1	11.3.0	11.4.0
2014-06	RAN#64	R5s140208	2053	-	Addition of GCF WI-164 LTE eMBMS Test case 17.2.2	11.3.0	11.4.0
2014-06	RAN#64	R5s140210	2054	-	Addition of GCF WI-164 LTE eMBMS Test case 17.2.3	11.3.0	11.4.0
2014-06	RAN#64	R5s140212	2055	-	LTE_TDD: Addition of Rel-9 EUTRA RRC Interband test case	11.3.0	11.4.0
2014-06	RAN#64	R5s140214	2056	-		11.3.0	11.4.0
2014-06	RAN#64	R5s140215	2057	-	8.2.4.15a Correction to GCF WI-082 EMM test case 9.3.1.18	11.3.0	11.4.0
2014-06	RAN#64	R5s140216	2058	-	Correction to GCF WI-177 EUTRA testcase 8.6.4.4	11.3.0	11.4.0
2014-06	RAN#64	R5s140217	2059	-	Correction to GCF WI-88 EUTRA<>C2K testcase 8.3.2.8	11.3.0	11.4.0
2014-06	RAN#64	R5s140218	2060	-	Correction to GCF WI-88 EUTRA<>C2K testcase 8.3.2.10	11.3.0	11.4.0
2014-06	RAN#64	R5s140222	2061	-	Correction to GCF WI-082 EMM Test Case 9.2.3.1.16	11.3.0	11.4.0

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2014-06	RAN#64	R5s140223	2062	-	LTE_TDD : Addition of GCF WI-087 EUTRAN RRC test case	11.3.0	11.4.0
2014-06	RAN#64	R5s140225	2063	-	8.4.3.3 Correction to GCF WI-150 Multi-layer Test Case 13.4.1.5	11.3.0	11.4.0
2014-06	RAN#64	R5s140226	2064	-	Correction to GCF WI-086 EUTRA EMM Test Case 9.2.3.3.5a	11.3.0	11.4.0
2014-06	RAN#64	R5s140230	2065	-	LTE_TDD: Addition of LTE-A Minimization of Drive Tests (MDT)	11.3.0	11.4.0
2014-06	RAN#64	R5s140233	2066	-	Testcase 8.6.4.4 Correction to RACH TFS CCCH Configuration (LTE-TDSCDMA)	11.3.0	11.4.0
2014-06	RAN#64	R5s140234	2067	-	Correction to implementation of 34.229-1 Annex C.31 procedure for	11.3.0	11.4.0
2014-06	RAN#64	R5s140235	2068	-	SRVCC test case 13.4.3.6 Correction to GCF WI-167 EUTRA Rel9 SRVCC test Case 13.4.3.6	11.3.0	11.4.0
2014-06	RAN#64	R5s140240	2069	-		11.3.0	11.4.0
2014-06	RAN#64	R5s140241	2070	-	9.2.1.2.1b Correction to add CA band combination CA_1A-26A	11.3.0	11.4.0
2014-06	RAN#64	R5s140244	2071	-	LTE_TDD: Addition of LTE-A Minimization of Drive Tests (MDT)	11.3.0	11.4.0
2014-06	RAN#64	R5s140246	2072	-	Testcase 8.6.2.6 LTE_TDD: Addition of LTE-A Minimization of Drive Tests (MDT)	11.3.0	11.4.0
2014-06	RAN#64	R5s140248	2073	-	Testcase 8.6.6.1 LTE_TDD: Addition of LTE-A Minimization of Drive Tests (MDT)	11.3.0	11.4.0
2014-06	RAN#64	R5s140250	2074	-	Testcase 8.6.6.2 LTE_TDD: Addition of LTE-A Minimization of Drive Tests (MDT)	11.3.0	11.4.0
2014-06	RAN#64	R5s140252	2075	-	Testcase 8.6.6.3 Correction to EMM test case 9.2.1.2.14	11.3.0	11.4.0
2014-06	RAN#64	R5s140258	2076	-	Correction to LTE-A Carrier Aggregation test case 8.2.4.20.x	11.3.0	11.4.0
2014-06	RAN#64	R5s140259	2077	-	Correction to GCF WI-086 Multi-Layer SRVCC test case 13.4.3.2	11.3.0	11.4.0
2014-06	RAN#64	R5s140260	2078	-	Correction to GCF WI-087 EMM test case 9.2.3.3.5	11.3.0	11.4.0
2014-06	RAN#64	R5s140263	2079	-	Corrections for multilayer SRVCC test cases	11.3.0	11.4.0
2014-06	RAN#64	R5s140267	2080	-	Correction to GCF WI-86 EUTRA RRC test case 8.3.3.2	11.3.0	11.4.0
2014-06	RAN#64	R5s140268	2081	-	Correction of GCF WI-082 EUTRA EMM test case 9.1.5.1	11.3.0	11.4.0
2014-06	RAN#64	R5s140273	2082	-	Correction to f_UTRAN_RB_SetUp_PS_RAB	11.3.0	11.4.0
2014-06	RAN#64	R5s140274	2083	-	Correction to f_GetTestcaseAttrib_DICcchMsgInSeparateMacPdu	11.3.0	11.4.0
2014-06	RAN#64	R5s140277	2084	-	Addition of GCF WI-165 LTE eMBMS Test case 17.3.2	11.3.0	11.4.0
2014-06	RAN#64	R5s140279	2085	-	Correction to CSG related EMM test cases	11.3.0	11.4.0
2014-06	RAN#64	R5s140280	2086	-	Addition of GCF WI-164 LTE eMBMS Test case 17.1.5	11.3.0	11.4.0
2014-06	RAN#64	R5s140282	2087	-	Addition of GCF WI-165 LTE eMBMS Test case 17.3.1	11.3.0	11.4.0
2014-06	RAN#64	R5s140286	2088	-	Corrections for LTE<>GERAN test cases 6.2.3.1, 6.2.3.1a and	11.3.0	11.4.0
2014-06	RAN#64	R5s140287	2089	-	9.2.3.4.1 Corrections for emergency call test cases 11.2.2 and 11.2.4	11.3.0	11.4.0
2014-06	RAN#64	R5s140289	2090	-	LTE_TDD: Addition of Rel-9 Home eNB test case 8.3.4.1	11.3.0	11.4.0
2014-06	RAN#64	R5s140291	2091	-	LTE_TDD: Addition of Rel-9 Home eNB test case 8.3.4.2	11.3.0	11.4.0
2014-06	RAN#64	R5s140298	2092	-	Addition of Rel-9 EUTRA Home eNB test case 8.3.4.5	11.3.0	11.4.0
2014-06	RAN#64	R5s140300	2093	-	Correction of GCF WI-87 Testcase 6.2.3.21 for Ipv6 Over GERAN	11.3.0	11.4.0
2014-06	RAN#64	R5s140301	2094	-	Addition of GCF WI-87 LTE GERAN Test case 6.2.3.28	11.3.0	11.4.0
2014-06	RAN#64	R5s140305	2095	-	Addition of Rel-10 EPS Enhancements EPS FDD <>UTRAN test	11.3.0	11.4.0
2014-06	RAN#64	R5s140309	2096	-	Case 8.6.5.1 Correction to GCF WI-086 EUTRA RRC test cases 8.4.1.2 and	11.3.0	11.4.0
2014-06	RAN#64	R5s140310	2097	-	8.4.1.4 LTE_TDD : Addition of GCF WI-164 LTE eMBMS test case 17.1.1	11.3.0	11.4.0
2014-06	RAN#64	R5s140312	2098	-	LTE_TDD : Addition of GCF WI-164 LTE eMBMS test case 17.1.2	11.3.0	11.4.0

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2014-06	RAN#64	R5s140314	2099	-	LTE_TDD : Addition of GCF WI-164 LTE eMBMS test case 17.1.3	11.3.0	11.4.0
2014-06	RAN#64	R5s140322	2100	-	Addition of GCF WI-177 Rel-10 LTE Enhancements test case	11.3.0	11.4.0
2014-06	RAN#64	R5s140326	2101	-	9.2.3.1.20a Correction for GCF WI-086 E-UTRA EMM testcase 9.2.3.2.14	11.3.0	11.4.0
2014-06	RAN#64	R5s140332	2102	-	Correction to GCF WI-159 Pre-registration at 1xRTT testcase	11.3.0	11.4.0
2014-06	RAN#64	R5s140335	2103	-	13.4.4.1 Correction to function f_UTRAN_ConfigureIntegrityAfterHO()	11.3.0	11.4.0
2014-06	RAN#64	R5s140336	2104	-	Addition of Rel-9 EUTRA Home eNB test case 8.3.4.4	11.3.0	11.4.0
2014-06	RAN#64	R5s140340	2105	-	Correction to GCF WI-096 EUTRA TDD<>TDSDMA test case	11.3.0	11.4.0
2014-06	RAN#64	R5s140341	2106	-	8.1.3.7 Correction to GCF WI-087 EUTRA EMM testcase 9.2.3.3.5	11.3.0	11.4.0
2014-06	RAN#64	R5s140344	2107	-	Correction of GCF WI-086 EUTRA RRC test case 8.3.3.2	11.3.0	11.4.0
2014-06	RAN#64	R5s140346	2108	-	Correction to WI-103 IMS MTSI Testcase 9.2.1.1.28	11.3.0	11.4.0
2014-06	RAN#64	R5s140348	2109	-	Corrections to GCF WI-150 rel-9 multilayer test case 13.4.1.5	11.3.0	11.4.0
2014-06	RAN#64	R5s140349	2110	-	Correction to GCF WI-87 E-UTRA RRC test case 8.4.3.3	11.3.0	11.4.0
2014-06	RAN#64	R5s140352	2111	-	_	11.3.0	11.4.0
2014-06	RAN#64	R5s140354	2112	-	8.3.3.2 LTE_TDD: Addition of LTE-HSPA RRC Handover test case 8.4.1.5	11.3.0	11.4.0
2014-06	RAN#64	R5s140361	2113	-	Correction to LTE-A NIMTC test case 6.1.1.7	11.3.0	11.4.0
2014-06	RAN#64	R5s140362	2114	-	Addition of GCF WI-182 LTE-A Rel10 Enhancement EUTRA	11.3.0	11.4.0
2014-06	RAN#64	R5s140364	2115	-	FDD<>GERAN test case 8.6.7.2 LTE_TDD: Addition of GCF WI-184 LTE-A Rel10 Enhancement	11.3.0	11.4.0
2014-06	RAN#64	R5s140366	2116	-	EUTRA TDD<>GERAN test case 8.6.7.2 Correction to GCF WI-181 Rel-10 EPS Enhancements EPS FDD	11.3.0	11.4.0
2014-06	RAN#64	R5s140367	2117	-	<>UTRAN test Case 8.6.5.1 Correction of 8.3.1.13a	11.3.0	11.4.0
2014-06	RAN#64	R5s140369	2118	-	Correction to test case 9.1.5.1, Table 9.1.5.1.3.3-1: EMM	11.3.0	11.4.0
2014-06	RAN#64	R5s140370	2119	-	INFORMATION (step 1, Table 9.1.5.1.3.2-1) Addition of GCF WI-172 EUTRA<>UTRA aSRVCC Testcase	11.3.0	11.4.0
2014-06	RAN#64	R5s140372	2120	-	13.4.3.9 Addition of GCF WI-086 EUTRA-UTRAN CSG test case 6.3.7	11.3.0	11.4.0
2014-06	RAN#64	R5s140374	2121	-	Addition of EUTRA-UTRAN Rel-9 Home eNB test case 6.4.3	11.3.0	11.4.0
2014-06	RAN#64	R5s140376	2122	-	Corrections to function	11.3.0	11.4.0
2014-06	RAN#64	R5s140377	2123	-	f_EUTRA_508RRC_AddModRel_Scell_Common Addition of WI-162 LTE-A Carrier Aggregation test case 8.2.2.3.1	11.3.0	11.4.0
2014-06	RAN#64	R5s140379	2124	-	Addition of WI-162 LTE-A Carrier Aggregation test case 8.2.4.20.1	11.3.0	11.4.0
2014-06	RAN#64	R5s140381	2125	-	Addition of WI-162 LTE-A Carrier Aggregation test case 8.3.1.17.1	11.3.0	11.4.0
2014-06	RAN#64	R5s140383	2126	-	Addition of WI-162 LTE-A Carrier Aggregation test case 8.3.1.18.1	11.3.0	11.4.0
2014-06	RAN#64	R5s140385	2127	-	Addition of GCF WI-172 EUTRA<>UTRA aSRVCC Testcase	11.3.0	11.4.0
2014-06	RAN#64	R5s140392	2128	-	13.4.3.11 LTE_TDD : Addition of WI-162 LTE-A Carrier Aggregation test case	11.3.0	11.4.0
2014-06	RAN#64	R5s140394	2129	-	8.4.2.7.1 Correction to GCF WI-081 EUTRA Idle mode test case 6.3.1	11.3.0	11.4.0
2014-06	RAN#64	R5s140396	2130	-	Correction to GCF WI-087 EMM test case 9.2.3.3.5	11.3.0	11.4.0
2014-06	RAN#64	R5s140397	2131	-	Addition of LTE-A Inter-RAT MDT test case 8.6.3.1	11.3.0	11.4.0
2014-06	RAN#64	R5s140402	2132	-	Correction to GCF WI-156 EUTRA RRC test case 8.2.4.14	11.3.0	11.4.0
2014-06	RAN#64	R5s140403	2133	-		11.3.0	11.4.0
2014-06	RAN#64	R5s140404	2134	-	8.6.2.8. Addition of GCF WI-172 EUTRA<>UTRA aSRVCC Testcase	11.3.0	11.4.0
2014-06	RAN#64	R5s140406	2135	-	13.4.3.10 Addition of GCF WI-172 EUTRA<>UTRA aSRVCC Testcase	11.3.0	11.4.0
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2014-06	RAN#64	R5s140411	2136	-	Correction to applicability condition C81 for Multi-layer test case	11.3.0	11.4.0
2014-06	RAN#64	R5s140414	2137	-	13.1.4 & 13.1.5 Correction to GCF WI-082 EMM Test Case 9.2.3.1.12	11.3.0	11.4.0
2014-06	RAN#64	R5s140421	2138	-	Addition of GCF WI-172 EUTRA<>UTRA aSRVCC Testcase	11.3.0	11.4.0
2014-06	RAN#64	R5s140423	2139	-	13.4.3.14 Correction to GCF WI-156 EUTRA RRC test case 8.2.4.15a	11.3.0	11.4.0
2014-06	RAN#64	R5s140424	2140	-	Addition of Rel-10 MDT test case 8.6.2.9	11.3.0	11.4.0
2014-06	RAN#64	R5s140431	2141	-	Addition of GCF WI-172 EUTRA<>UTRA aSRVCC Testcase	11.3.0	11.4.0
2014-06	RAN#64	R5s140440	2142	-	13.4.3.16 LTE_TDD: Addition of LTE eMBMS Testcase 17.1.4	11.3.0	11.4.0
2014-06	RAN#64	R5s140442	2143	-	LTE_TDD: Addition of LTE eMBMS Testcase 17.2.1	11.3.0	11.4.0
2014-06	RAN#64	RP-140823	2144	-	CR to 36.523-3: Add new verified and e-mail agreed TTCN test	11.3.0	11.4.0
2014-09	RAN#65	R5-144219	2145	-	cases in the TC lists in 36.523-3 (prose), Annex A Routine maintenance and updates	11.4.0	11.5.0
2014-09	RAN#65	R5-144399	2146	-	Correction to the guideline of EUTRA CA test execution on Band 29	11.4.0	11.5.0
2014-09	RAN#65	R5-144678	2147	-	Correction to the calculation in Test method for RRC signalling	11.4.0	11.5.0
2014-09	RAN#65	RP-141582	2301	-	latency CR to 36.523-3: Add new verified and e-mail agreed TTCN test	11.4.0	11.5.0
2014-09	RAN#65	R5s140127	2148	-	cases in the TC lists in 36.523-3 (prose), Annex A Addition of Rel-9 Home eNB test case 8.3.4.1	11.4.0	11.5.0
2014-09	RAN#65	R5s140331	2149	-	Correction to SRVCC test case 13.4.3.2	11.4.0	11.5.0
2014-09	RAN#65	R5s140333	2150	-	Correction to GCF WI-159 Pre-registration at 1xRTT testcase	11.4.0	11.5.0
2014-09	RAN#65	R5s140412	2151	-	13.4.4.5 Addition of LTE-A Minimization of Drive Tests (MDT) Testcase	11.4.0	11.5.0
2014-09	RAN#65	R5s140427	2152	-	8.6.11.1 Correction to SRVCC testcases 13.4.3.4 and 13.4.3.5	11.4.0	11.5.0
2014-09	RAN#65	R5s140429	2153	-	Addition of GCF WI-164 eMBMS test case 17.2.4	11.4.0	11.5.0
2014-09	RAN#65	R5s140444	2154	-	Correction to GCF WI-081 EUTRA Idle mode Test Case 6.1.2.8a	11.4.0	11.5.0
2014-09	RAN#65	R5s140447	2155	-	Correction to common function in NAS Authentication module	11.4.0	11.5.0
2014-09	RAN#65	R5s140448	2156	-	LTE_TDD : Addition of GCF WI-086 EUTRA-UTRAN CSG test	11.4.0	11.5.0
2014-09	RAN#65	R5s140450	2157	-	case 6.3.7 LTE_TDD : Addition of EUTRA-UTRAN Rel-9 Home eNB test case	11.4.0	11.5.0
2014-09	RAN#65	R5s140455	2158	-	6.4.3 LTE_TDD: Addition of LTE eMBMS Testcase 17.2.2	11.4.0	11.5.0
2014-09	RAN#65	R5s140457	2159	-	LTE_TDD: Addition of LTE eMBMS Testcase 17.2.3	11.4.0	11.5.0
2014-09	RAN#65	R5s140459	2160	-	Addition of GCF WI-172 EUTRA<>UTRA aSRVCC Testcase	11.4.0	11.5.0
2014-09	RAN#65	R5s140461	2161	-	13.4.3.13 Correction of GCF WI-167 EUTRA RRC test case 8.3.2.11	11.4.0	11.5.0
2014-09	RAN#65	R5s140465	2162	-	LTE_TDD: Addition of Rel-9 Home eNB test case 8.3.4.4	11.4.0	11.5.0
2014-09	RAN#65	R5s140467	2163	-	Correction of GCF WI-167 EUTRA Inter-RAT test cases 6.2.3.4a	11.4.0	11.5.0
2014-09	RAN#65	R5s140468	2164	-	and 6.2.3.5a Correction to f_UTRAN_RB_SetUp_PS_RAB	11.4.0	11.5.0
2014-09	RAN#65	R5s140470	2165	-	Addition of Rel-10 MDT test case 8.6.1.1	11.4.0	11.5.0
2014-09	RAN#65	R5s140472	2166	-	Correction to definition of O13_Type	11.4.0	11.5.0
2014-09	RAN#65	R5s140473	2167	-	Correction of GCF WI-086 EUTRA<>UTRAN CSG test case 6.3.7	11.4.0	11.5.0
2014-09	RAN#65	R5s140474	2168	-	Correction of EUTRA-UTRAN HomeENB test case 6.4.3	11.4.0	11.5.0
2014-09	RAN#65	R5s140475	2169	-	Correction to function	11.4.0	11.5.0
2014-09	RAN#65	R5s140476	2170	-	f_UTRAN_CS_Fallback_WithRedirection_WithoutRRCConnEst. Correction to function f_SS_Config_64kPS_DCH4_RAB for	11.4.0	11.5.0
2014-09	RAN#65	R5s140477	2171	-	TD_LTE<>TDSDMA Correction to GCF WI-086 EUTRA EMM Test Case 9.2.1.2.1c	11.4.0	11.5.0

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2014-09	RAN#65	R5s140478	2172	-	Addition of GCF WI-172 EUTRA<>UTRA aSRVCC Testcase 13.4.3.15	11.4.0	11.5.0
2014-09	RAN#65	R5s140480	2173	-	Correction to IMS Emergency Call test case 11.2.5	11.4.0	11.5.0
2014-09	RAN#65	R5s140481	2174	-	Correction to GCF WI-086 UTRA<>EUTRA HSPA Handover Testcase 8.4.2.4	11.4.0	11.5.0
2014-09	RAN#65	R5s140482	2175	-		11.4.0	11.5.0
2014-09	RAN#65	R5s140483	2176	-	Correction to GCF WI-156 EUTRA RRC test case 8.2.4.15a	11.4.0	11.5.0
2014-09	RAN#65	R5s140484	2177	-	LTE_TDD: Addition of LTE eMBMS Testcase 17.1.5	11.4.0	11.5.0
2014-09	RAN#65	R5s140488	2178	-	LTE_TDD: Addition of LTE eMBMS Testcase 17.3.2	11.4.0	11.5.0
2014-09	RAN#65	R5s140492	2179	-	Correction of test cases 8.3.1.12a, 8.3.1.15, 8.3.1.16 and 8.6.4.4	11.4.0	11.5.0
2014-09	RAN#65	R5s140493	2180	-	Correction to template cr_G_AttachReq_EUTRANCap	11.4.0	11.5.0
2014-09	RAN#65	R5s140496	2181	-	Correction to Rel-9 EUTRA Home eNB test case 8.3.4.5	11.4.0	11.5.0
2014-09	RAN#65	R5s140497	2182	-	Correction to GCF WI-081 EUTRA RRC Test Case 8.2.1.5	11.4.0	11.5.0
2014-09	RAN#65	R5s140498	2183	-	Addition of WI-162 LTE-A Carrier Aggregation MAC test case 7.1.3.11.2	11.4.0	11.5.0
2014-09	RAN#65	R5s140501	2184	-	Correction for EUTRA RRC MDT re-establishment test cases	11.4.0	11.5.0
2014-09	RAN#65	R5s140503	2185	-	Correction to GCF WI-086 EUTRA RRC handover test cases 8.4.2.2 and 8.4.2.4	11.4.0	11.5.0
2014-09	RAN#65	R5s140505	2186	-	Correction to eMBMS common functions	11.4.0	11.5.0
2014-09	RAN#65	R5s140506	2187	-	Correction to SIB 6 contents for EUTRA<>UTRA test cases using UTRA Band VI	11.4.0	11.5.0
2014-09	RAN#65	R5s140507	2188	-	Addition of WI-162 LTE-A Carrier Aggregation MAC test case 7.1.3.11.1	11.4.0	11.5.0
2014-09	RAN#65	R5s140509	2189	-	Extension of EUTRA common functions for MAC test cases	11.4.0	11.5.0
2014-09	RAN#65	R5s140513	2190	-	Correction to GCF WI-087 EMM Test Case 9.2.3.4.1	11.4.0	11.5.0
2014-09	RAN#65	R5s140514	2191	-	Addition of Rel-10 elCIC test case 8.3.1.21	11.4.0	11.5.0
2014-09	RAN#65	R5s140520	2192	-	Correction of test cases 8.4.2.4	11.4.0	11.5.0
2014-09	RAN#65	R5s140526	2193	-	Correction of LTE-A Minimization of Drive Tests (MDT) Testcase 8.6.3.1	11.4.0	11.5.0
2014-09	RAN#65	R5s140527	2194	-	Correction of GCF WI-162 LTE-A CA inter-band test cases for band combination with Band 29A	11.4.0	11.5.0
2014-09	RAN#65	R5s140528	2195	-	Correction to test case applicability conditions	11.4.0	11.5.0
2014-09	RAN#65	R5s140529	2196	-	Correction to GCF WI-086 EUTRA Idle mode test case 6.2.3.31	11.4.0	11.5.0
2014-09	RAN#65	R5s140530	2197	-	Correction to LTE-IRAT test cases 8.4.2.2 and 8.4.2.4	11.4.0	11.5.0
2014-09	RAN#65	R5s140531	2198	-	Correction to GCF WI-162 LTE-A Carrier Aggregation MAC test case 7.1.3.11.1/7.1.3.11.2	11.4.0	11.5.0
2014-09	RAN#65	R5s140533	2199	-	Correction to EUTRA MDT test Case 8.6.2.3	11.4.0	11.5.0
2014-09	RAN#65	R5s140534	2200	-	Correction of LTE-A Minimization of Drive Tests (MDT) Test case 8.6.2.8	11.4.0	11.5.0
2014-09	RAN#65	R5s140535	2201	-	Correction to GCF WI-181 EUTRA EPS FDD <>UTRAN test Case	11.4.0	11.5.0
2014-09	RAN#65	R5s140537	2202	-	8.6.5.1 Correction of GCF WI-182 EUTRA FDD<>GERAN test case 8.6.7.2	11.4.0	11.5.0
2014-09	RAN#65	R5s140539	2203	-	Correction to EUTRA eMBMS function	11.4.0	11.5.0
2014-09	RAN#65	R5s140540	2204	-	f_EUTRA_SetSysinfoCombination_MBMS Correction to UE Test Loop Mode C for EUTRA eMBMS Testcases	11.4.0	11.5.0
2014-09	RAN#65	R5s140541	2205	-		11.4.0	11.5.0
2014-09	RAN#65	R5s140543	2206	-	29A Correction of EUTRA RRC Measurement test case 8.3.1.27	11.4.0	11.5.0
2014-09	RAN#65	R5s140544	2207	-	Correction to EUTRA RRC Measurement test case 8.3.3.3	11.4.0	11.5.0
2014-09	RAN#65	R5s140545	2208	-	Correction to GCF WI-082 EUTRA RRC handover test cases	11.4.0	11.5.0
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2014-09	RAN#65	R5s140546	2209	-	LTE_TDD : Correction in RRC test case 8.4.1.5 in	11.4.0	11.5.0
2014-09	RAN#65	R5s140547	2210	-	LTE_TDD<>TDSCDMA path Correction to GCF WI-081 EUTRA Idle mode test Case 6.1.1.3	11.4.0	11.5.0
2014-09	RAN#65	R5s140548	2211	-	Correction of test cases 7.1.4.5	11.4.0	11.5.0
2014-09	RAN#65	R5s140549	2212	_	Correction to GCF WI-086 EMM test case 9.2.3.3.2	11.4.0	
2014-09	RAN#65	R5s140550			Correction to EUTRA Idle Mode HeNB test case 6.4.3	11.4.0	
2014-09	RAN#65	R5s140552		-	Correction to UTRAN postamble function f_UTRAN_Postamble	11.4.0	
2014-09	RAN#65	R5s140554		-	Correction for GCF WI-086 EUTRA EMM Test case 9.2.3.1.6	11.4.0	
2014-09	RAN#65	R5s140555	2216	-	Correction in common function f_GERAN_GPRSAttach()	11.4.0	11.5.0
2014-09	RAN#65	R5s140556	2217	-	Correction of GCF WI-086 EUTRA<>UTRAN CSG test case 6.3.7	11.4.0	11.5.0
2014-09	RAN#65	R5s140557	2218	-	Correction to EUTRA Idle Mode MFBI test Case 6.1.2.21	11.4.0	11.5.0
2014-09	RAN#65	R5s140560	2219	-	Correction to EMM test case 9.2.1.1.28	11.4.0	11.5.0
2014-09	RAN#65	R5s140562	2220	-	Correction to EUTRA RRC HeNB test case 8.3.4.1	11.4.0	11.5.0
2014-09	RAN#65	R5s140563	2221	-	Correction to EUTRA RRC HeNB test case 8.3.4.4	11.4.0	11.5.0
2014-09	RAN#65	R5s140564	2222	-	Correction to EUTRA-UTRAN Multi-Layer SRVCC test case	11.4.0	11.5.0
2014-09	RAN#65	R5s140568	2223	-	13.4.3.2 Correction to EMM test case 9.2.3.1.20a	11.4.0	11.5.0
2014-09	RAN#65	R5s140570	2224	-	Correction to IMS Emergency Call over EPS test case 11.2.2	11.4.0	11.5.0
2014-09	RAN#65	R5s140572	2225	-	Correction for GCF WI-172 EUTRA<>UTRA aSRVCC Testcase	11.4.0	11.5.0
2014-09	RAN#65	R5s140573	2226	-	13.4.3.14 Correction for GCF WI-086 EUTRA<>UTRA SRVCC Testcase	11.4.0	11.5.0
2014-09	RAN#65	R5s140574	2227	-	13.4.3.2 Correction to Multi-layer test case 13.1.3	11.4.0	11.5.0
2014-09	RAN#65	R5s140575	2228	-	LTE_TDD: Addition of WI-162 LTE-A Carrier Aggregation MAC test	11.4.0	11.5.0
2014-09	RAN#65	R5s140578	2229	-	case 7.1.3.11.1 Correction for GCF WI-172 EUTRA<>UTRA aSRVCC Testcase	11.4.0	11.5.0
2014-09	RAN#65	R5s140579	2230	-	13.4.3.16 Correction for GCF WI-086 EUTRA<>UTRA SRVCC Testcase	11.4.0	11.5.0
2014-09	RAN#65	R5s140582	2231	-	13.4.3.4 Correction for GCF WI-087 EUTRA<>GERAN SRVCC Testcase	11.4.0	11.5.0
2014-09	RAN#65	R5s140583	2232	-	13.4.3.5 Correction for GCF WI-167 EUTRA<>UTRA SRVCC Testcase	11.4.0	11.5.0
2014-09	RAN#65	R5s140584	2233	-	13.4.3.6 Correction of GERAN Common function fl_GERAN_TLLI_Update	11.4.0	11.5.0
2014-09	RAN#65	R5s140585	2234	-	Correction to EUTRA eMBMS test case 17.2.4	11.4.0	11.5.0
2014-09	RAN#65	R5s140586	2235	-	Correction to EUTRA Idle Mode MFBI test Case 6.1.2.20	11.4.0	11.5.0
2014-09	RAN#65	R5s140587	2236	-	Correction for aSRVCC test cases	11.4.0	11.5.0
2014-09	RAN#65	R5s140588	2237	-	Addition of GCF WI-154 IMS Emergency Call over EPS test case	11.4.0	11.5.0
2014-09	RAN#65	R5s140589	2238	-	11.2.8 Correction for GCF WI-172 EUTRA<>UTRA aSRVCC Testcase	11.4.0	11.5.0
2014-09	RAN#65	R5s140590	2239	-	13.4.3.7 Correction for GCF WI-172 EUTRA<>UTRA aSRVCC Testcase	11.4.0	11.5.0
2014-09	RAN#65	R5s140591		_	13.4.3.9 Correction for GCF WI-172 EUTRA<>UTRA aSRVCC Testcase	11.4.0	
2014-09	RAN#65	R5s140592		_	13.4.3.10 Correction for GCF WI-172 EUTRA<>UTRA aSRVCC Testcase	11.4.0	
					13.4.3.11		
2014-09	RAN#65	R5s140593		_	Correction to EUTRA RRC MDT test case 8.6.6.2	11.4.0	
2014-09	RAN#65	R5s140594		-	Correction to EUTRA RRC HeNB test case 8.3.4.1	11.4.0	
2014-09	RAN#65	R5s140595		_	Correction for GCF WI-172 EUTRA<>UTRA aSRVCC Testcase 13.4.3.13	11.4.0	
2014-09	RAN#65	R5s140596	2245	-	Correction to EMM test case 9.2.1.1.28	11.4.0	11.5.0

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2014-09	RAN#65	R5s140601	2246	-	Correction to EUTRA RRC test cases 8.2.4.14 and 8.2.4.14a	11.4.0	11.5.0
2014-09	RAN#65	R5s140604	2247	-	Correction for GCF WI-172 EUTRA<>UTRA aSRVCC Testcase	11.4.0	11.5.0
2014-09	RAN#65	R5s140607	2248	-	LTE_TDD : Correction to EUTRAN TDD eMBMS TC 17.1.4	11.4.0	11.5.0
2014-09	RAN#65	R5s140608	2249	-	_	11.4.0	11.5.0
2014-09	RAN#65	R5s140609	2250	-	test cases Correction to EUTRAN eMBMS TC 17.3.2	11.4.0	11.5.0
2014-09	RAN#65	R5s140610	2251	-	Correction to EUTRA eMBMS function	11.4.0	11.5.0
2014-09	RAN#65	R5s140617	2252	-	f_EUTRA_SetSysinfoCombination_MBMS Correction to EUTRA Idle mode test case 6.2.3.23	11.4.0	11.5.0
2014-09	RAN#65	R5s140618	2253	-	Corrections for SS configuration in IMS voice call test cases	11.4.0	11.5.0
2014-09	RAN#65	R5s140619	2254	-	Correction to EUTRA RRC MDT test case 8.6.7.1	11.4.0	11.5.0
2014-09	RAN#65	R5s140620	2255	-	Corrections for multilayer EUTRA->GERAN SRVCC test case	11.4.0	11.5.0
2014-09	RAN#65	R5s140624	2256	-	Correction to LTE-A Carrier Aggregation MAC test cases	11.4.0	11.5.0
2014-09	RAN#65	R5s140625	2257	-	7.1.3.11.1/7.1.3.11.2 Correction to GCF WI-088 EUTRA<>1xRTT Test case 8.3.2.10	11.4.0	11.5.0
2014-09	RAN#65	R5s140626	2258	-	Correction to LTE-A Minimization of Drive Tests (MDT) test case	11.4.0	11.5.0
2014-09	RAN#65	R5s140627	2259	-	8.6.4.6 Correction to GCF WI-082 EUTRA RRC handover test case 8.4.1.5	11.4.0	11.5.0
2014-09	RAN#65	R5s140635	2260	-	Correction to multilayer aSRVCC test 13.4.3.15	11.4.0	11.5.0
2014-09	RAN#65	R5s140636	2261	-	Correction to GCF WI-151 EUTRA RRC test cases 8.2.4.14a and	11.4.0	11.5.0
2014-09	RAN#65	R5s140643	2262	-	8.3.1.16a Correction to GCF WI-081 EUTRA RRC Test Case 8.5.4.1	11.4.0	11.5.0
2014-09	RAN#65	R5s140648	2263	-	Correction to GCF WI-087 EUTRA Idle mode Test Case 6.2.3.28	11.4.0	11.5.0
2014-09	RAN#65	R5s140649	2264	-	Corrections to GCF WI-154 IMS Emergency Call test case 11.2.4	11.4.0	11.5.0
2014-09	RAN#65	R5s140650	2265	-	Correction to GCF WI-086 EUTRA EMM Testcase 9.2.3.2.1b	11.4.0	11.5.0
2014-09	RAN#65	R5s140651	2266	-	Correction of GCF WI-082 EUTRA EMM Testcase 9.1.5.1	11.4.0	11.5.0
2014-09	RAN#65	R5s140657	2267	-	Correction to GCF WI-154 IMS Emergency Call test case 11.2.5	11.4.0	11.5.0
2014-09	RAN#65	R5s140658	2268	-	Correction to WI-086 EUTRA EMM Testcase 9.2.3.3.4	11.4.0	11.5.0
2014-09	RAN#65	R5s140659	2269	-	Correction to GCF WI-086 EUTRA Multilayer Test case 13.4.2.1	11.4.0	11.5.0
2014-09	RAN#65	R5s140660	2270	-	Correction to WI-086 EUTRA EMM Testcase 9.2.3.3.1	11.4.0	11.5.0
2014-09	RAN#65	R5s140664	2271	-	Correction to EUTRA RRC test cases 8.2.4.14a, 8.2.4.15, 8.3.1.16a	11.4.0	11.5.0
2014-09	RAN#65	R5s140670	2272	-	Correction to EUTRA RRC HeNB Testcase 8.3.4.1	11.4.0	11.5.0
2014-09	RAN#65	R5s140671	2273	-	Correction to LTE-A Carrier Aggregation Handover test cases	11.4.0	11.5.0
2014-09	RAN#65	R5s140674	2274	-	8.2.4.21.x Correction to GCF WI-87 Multi-Layer SRVCC test cases 13.4.3.3	11.4.0	11.5.0
2014-09	RAN#65	R5s140675	2275	-	and 13.4.3.5 Corrections to GCF WI-154 IMS Emergency Call test cases 11.2.2	11.4.0	11.5.0
2014-09	RAN#65	R5s140677	2276	-	and 11.2.4 Corrections to GCF WI-087 EUTRA<>GERAN SRVCC test case	11.4.0	11.5.0
2014-09	RAN#65	R5s140679	2277	-	13.4.3.3 Correction to GCF WI-81 EUTRA MIMO test cases 7.1.7.1.5 and	11.4.0	11.5.0
2014-09	RAN#65	R5s140680	2278	-	7.1.7.1.6 for CAT-6 and higher categories Correction to GCF WI-81 EUTRA MIMO Testcase 7.1.7.2.1 for	11.4.0	11.5.0
2014-09	RAN#65	R5s140682	2279	-	CAT-6 and higher categories LTE TDD : Addition of MAC test case 7.1.4.2	11.4.0	11.5.0
2014-09	RAN#65	R5s140684	2280	-	LTE_TDD : Addition of Idle mode test case 6.3.5	11.4.0	11.5.0
2014-09	RAN#65	R5s140686	2281	-	Addition of GCF WI-172 multilayer aSRVCC test case 13.4.3.8	11.4.0	11.5.0
2014-09	RAN#65	R5s140688	2282	-	LTE_TDD: Correction to RRC Testcase 8.1.3.7 in LTE_TDD<>TDSCDMA path	11.4.0	11.5.0

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2014-09	RAN#65	R5s140689	2283	-	LTE_TDD : Addition of EUTRA RRC HeNB test case 8.3.4.3	11.4.0	11.5.0
2014-09	RAN#65	R5s140691	2284	-	Addition of GCF WI-162 LTE-A Carrier Aggregation MAC test case	11.4.0	11.5.0
2014-09	RAN#65	R5s140693	2285	-	7.1.9.1.1 Addition of GCF WI-162 LTE-A Carrier Aggregation MAC test case	11.4.0	11.5.0
2014-09	RAN#65	R5s140697	2286	-	7.1.9.1.2 Addition of multilayer aSRVCC test case 13.4.3.24	11.4.0	11.5.0
2014-09	RAN#65	R5s140699	2287	-	Addition of multilayer aSRVCC test case 13.4.3.26	11.4.0	11.5.0
2014-09	RAN#65	R5s140701	2288	-	Corrections to EMM test case 9.2.3.1.6 on EUTRA<>GERAN path	11.4.0	11.5.0
2014-09	RAN#65	R5s140702	2289	-	Correction to EUTRA RRC InterRAT measurement on HRPD test	11.4.0	11.5.0
2014-09	RAN#65	R5s140703	2290	-	Case 8.3.2.8 Addition of multilayer aSRVCC test case 13.4.3.27	11.4.0	11.5.0
2014-09	RAN#65	R5s140705	2291	-	Addition of multilayer aSRVCC test case 13.4.3.28	11.4.0	11.5.0
2014-09	RAN#65	R5s140707	2292	-	Correction to function f_ConfigureULGrant_MaxTBSupported	11.4.0	11.5.0
2014-09	RAN#65	R5s140710	2293	-	Correction to SRVCC test case 13.4.3.2	11.4.0	11.5.0
2014-09	RAN#65	R5s140711	2294	-	Addition of multilayer aSRVCC test case 13.4.3.25	11.4.0	11.5.0
2014-09	RAN#65	R5s140714	2295	-	Addition of multilayer aSRVCC test case 13.4.3.30	11.4.0	11.5.0
2014-09	RAN#65	R5s140716	2296	-	Addition of Rel-9 EUTRA<>UTRA Idle Mode HeNB test case 6.4.6	11.4.0	11.5.0
2014-09	RAN#65	R5s140720	2297	-	Corrections to EUTRA PDCP test case 7.3.4.1,7.3.4.2 and 7.3.4.3	11.4.0	11.5.0
2014-09	RAN#65	R5s140721	2298	-	Addition of Rel-10 EUTRA RRC elClC test case 8.3.1.19	11.4.0	11.5.0
2014-09	RAN#65	R5s140723	2299	-	LTE_TDD: Addition of GCF WI-162 LTE-A Carrier Aggregation MAC test case 7.1.9.1.1	11.4.0	11.5.0
2014-09	RAN#65	R5s140725	2300	-	Addition of GCF WI-086 EUTRA Idle Mode HeNB test case 6.3.4	11.4.0	11.5.0
2014-12	RAN#66	R5-145713	2302	-	Harmonization of CA terminology (36.523-3)	11.5.0	11.6.0
2014-12	RAN#66	R5-145754	2304	-	Routine maintenance and updates	11.5.0	11.6.0
2014-12	RAN#66	R5s140672	2305	-	Correction to SRS config dedicated for EUTRA Testcases	11.5.0	11.6.0
2014-12	RAN#66	R5s140708	2306	_	Addition of GCF WI-154 IMS Emergency Call over EPS test case 11.2.11	11.5.0	11.6.0
2014-12	RAN#66	R5s140728	2307	-	Correction to fl_EUTRA_RRC_Procedure_Latency	11.5.0	11.6.0
2014-12	RAN#66	R5s140729	2308	-	Correction to EUTRA Idle Mode HeNB test case 6.4.5	11.5.0	11.6.0
2014-12	RAN#66	R5s140730	2309	-	Corrections to EUTRA->GERAN SRVCC test cases	11.5.0	11.6.0
2014-12	RAN#66	R5s140731	2310	-	Addition of IMS emergency call test case 11.2.10	11.5.0	11.6.0
2014-12	RAN#66	R5s140733	2311	-	Addition of LTE Advanced bSRVCC test case 13.4.3.18	11.5.0	11.6.0
2014-12	RAN#66	R5s140735	2312	-	Addition of LTE Advanced bSRVCC test case 13.4.3.20	11.5.0	11.6.0
2014-12	RAN#66	R5s140737	2313	-	Addition of LTE Advanced bSRVCC test case 13.4.3.23	11.5.0	11.6.0
2014-12	RAN#66	R5s140741	2314	-	Addition of Rel-10 MDT test case 8.6.4.7	11.5.0	11.6.0
2014-12	RAN#66	R5s140743	2315	-	Addition of Rel-10 MDT test case 8.6.6.4	11.5.0	11.6.0
2014-12	RAN#66	R5s140745	2316	-	Addition of EUTRA-UTRAN Rel-9 Home eNB test case 6.4.4	11.5.0	11.6.0
2014-12	RAN#66	R5s140747	2317	-	Addition of LTE Advanced bSRVCC test case 13.4.3.21	11.5.0	11.6.0
2014-12	RAN#66	R5s140749	2318	-	Correction to GCF WI-086 EUTRA RRC Testcase 8.3.2.4	11.5.0	11.6.0
2014-12	RAN#66	R5s140750	2319	-	Addition of multilayer bSRVCC test case 13.4.3.19	11.5.0	11.6.0
2014-12	RAN#66	R5s140752	2320	-	Addition of multilayer bSRVCC test case 13.4.3.22	11.5.0	11.6.0
2014-12	RAN#66	R5s140754	2321	-	Correction to EUTRA Idle Mode test case 6.1.1.3a	11.5.0	11.6.0

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2014-12	RAN#66	R5s140757	2322	-	Addition of GCF WI-178 LTE Advanced eMBMS-SC test case 17.4.1	11.5.0	11.6.0
2014-12	RAN#66	R5s140759	2323	-	Addition of GCF WI-178 LTE Advanced eMBMS-SC test case 17.4.1a	11.5.0	11.6.0
2014-12	RAN#66	R5s140761	2324	-	Addition of GCF WI-178 LTE Advanced eMBMS-SC test case	11.5.0	11.6.0
2014-12	RAN#66	R5s140763	2325	-	17.4.5 LTE_TDD: Addition of Rel-10 MDT test case 8.6.3.1	11.5.0	11.6.0
2014-12	RAN#66	R5s140765	2326	-	LTE_TDD: Addition of Rel-10 MDT test case 8.6.4.3	11.5.0	11.6.0
2014-12	RAN#66	R5s140767	2327	-	LTE_TDD: Addition of GCF WI-183 Rel-10 MDT test case 8.6.5.1	11.5.0	11.6.0
2014-12	RAN#66	R5s140771	2328	-	Correction to EUTRA RSRQ testcases 6.1.2.17, 6.1.2.18, 6.1.2.2a,	11.5.0	11.6.0
2014-12	RAN#66	R5s140772	2329	-	6.1.2.3a, 8.3.1.25, 8.3.1.27 and 8.3.1.3a Correction to GCF WI-150 MFBI test case 6.1.2.20	11.5.0	11.6.0
2014-12	RAN#66	R5s140774	2330	-	Correction to comments tag in f_TC_8_1_3_12a_EUTRA()	11.5.0	11.6.0
2014-12	RAN#66	R5s140775	2331	-	Correction of GCF WI-162 LTE-A Carrier Aggregation test case	11.5.0	11.6.0
2014-12	RAN#66	R5s140776	2332	-	8.4.2.7.1 and 8.4.2.7.2 in Band29 Correction to EUTRA HomeNB testcase 6.4.3	11.5.0	11.6.0
2014-12	RAN#66	R5s140778	2333	-	Correction to IE "TMSI Based NRI Container"	11.5.0	11.6.0
2014-12	RAN#66	R5s140781	2334	_	Correction to EUTRA-UTRAN Idle Mode HeNB test case 6.4.6	11.5.0	11.6.0
2014-12	RAN#66	R5s140787		_	Correction to GCF WI-156 EUTRA RRC testcase 8.1.3.11	11.5.0	
2014-12	RAN#66	R5s140790		_	Corrections to EUTRA RRC test case 8.1.2.12	11.5.0	
2014-12	RAN#66	R5s140792			Corrections to IMS Emergency Call test case 11.2.4	11.5.0	
2014-12	RAN#66	R5s140793			Correction to GCF WI-086 RRC Test Case 8.3.2.4	11.5.0	
2014-12		R5s140793				11.5.0	
	RAN#66			_	LTE_TDD : Addition of Rel-10 elCIC test case 8.3.1.19		
2014-12	RAN#66	R5s140798		-	Correction to GCF WI-154 IMS Emergency call Testcase 8.1.2.11	11.5.0	
2014-12	RAN#66	R5s140799		-	Correction to EUTRA Idle Mode HeNB test case 6.4.2	11.5.0	
2014-12	RAN#66	R5s140804		-	Addition of GCF WI-159 Pre-registration at 1xRTT testcase 13.4.4.2	11.5.0	
2014-12	RAN#66	R5s140806	2343	-	Addition of GCF WI-159 EUTRA<>1xRTT Testcase 8.4.7.5	11.5.0	11.6.0
2014-12	RAN#66	R5s140808	2344	-	Addition of GCF WI-159 EUTRA<>1xRTT Testcase 8.4.7.8	11.5.0	11.6.0
2014-12	RAN#66	R5s140810	2345	-	Addition of GCF WI-159 EUTRA<>1xRTT Testcase 8.4.7.10	11.5.0	11.6.0
2014-12	RAN#66	R5s140812	2346	-	Correction to EMM test case 9.2.1.1.28	11.5.0	11.6.0
2014-12	RAN#66	R5s140814	2347	-	LTE_TDD : Addition of Rel-10 elCIC test case 8.3.1.21	11.5.0	11.6.0
2014-12	RAN#66	R5s140816	2348	-	Addition of GCF WI-178 LTE Advanced eMBMS-SC test case 17.4.4	11.5.0	11.6.0
2014-12	RAN#66	R5s140818	2349	-	LTE_TDD: Addition of LTE-A additional special subframe configuration test case 7.1.3.12	11.5.0	11.6.0
2014-12	RAN#66	R5s140821	2350	-	Addition of GCF WI-178 LTE Advanced eMBMS-SC test case	11.5.0	11.6.0
2014-12	RAN#66	R5s140823	2351	-	Addition of GCF WI-178 LTE Advanced eMBMS-SC test case	11.5.0	11.6.0
2014-12	RAN#66	R5s140825	2352	-	17.4.3a LTE_TDD : Addition of EUTRA Idle mode test case 6.2.3.23	11.5.0	11.6.0
2014-12	RAN#66	R5s140827	2353	-	LTE_TDD : Addition of Idle mode test case 6.2.3.24	11.5.0	11.6.0
2014-12	RAN#66	R5s140829	2354	-	Correction to EUTRA RRC test case 8.2.4.15a	11.5.0	11.6.0
2014-12	RAN#66	R5s140830	2355	-	LTE_TDD : Addition of EUTRA<>UTRAN Rel-9 HeNB test case	11.5.0	11.6.0
2014-12	RAN#66	R5s140832	2356	-	6.4.4 Correction to GCF WI-086 EMM Test Case 9.2.3.3.4	11.5.0	11.6.0
2014-12	RAN#66	R5s140833		-	Correction to GCF WI-162 EUTRA RRC test case 8.2.4.20.X	11.5.0	
2014-12	RAN#66	R5s140834		-	Correction to function f_EUTRA_InitSystemInformation5	11.5.0	
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2014-12	RAN#66	R5s140835	2359	-	Correction to GCF WI-172 EUTRA<>UTRA aSRVCC Testcases 13.4.3.9, 13.4.3.11, 13.4.3.16 and 13.4.3.14	11.5.0	11.6.0
2014-12	RAN#66	R5s140836	2360	-	Addition of GCF WI-178 LTE Advanced eMBMS-SC test case 17.4.8	11.5.0	11.6.0
2014-12	RAN#66	R5s140838	2361	-	Addition of GCF WI-178 LTE Advanced eMBMS-SC test case 17.4.6	11.5.0	11.6.0
2014-12	RAN#66	R5s140840	2362	-	Addition of GCF WI-178 LTE Advanced eMBMS-SC test case 17.4.2	11.5.0	11.6.0
2014-12	RAN#66	R5s140842	2363	-	Addition of GCF WI-178 LTE Advanced eMBMS-SC test case 17.4.2a	11.5.0	11.6.0
2014-12	RAN#66	R5s140845	2364	-	Correction to GCF WI-086 EUTRA RRC test case 8.3.2.4	11.5.0	11.6.0
2014-12	RAN#66	R5s140846	2365	-	Correction to GCF WI-154 IMS emergency call test case 11.2.10	11.5.0	11.6.0
2014-12	RAN#66	R5s140847	2366	-	Correction to GCF WI-154 IMS Emergency Call over EPS test case 11.2.8	11.5.0	11.6.0
2014-12	RAN#66	R5s140848	2367	-	Correction to GCF WI-081 EUTRA RRC test case 8.1.1.2	11.5.0	11.6.0
2014-12	RAN#66	R5s140849	2368	-	Correction to CA / RRC connection reconfiguration tests 8.4.2.7.X	11.5.0	11.6.0
2014-12	RAN#66	R5s140851	2369	-	LTE_TDD : Addition of EUTRA eMBMS test case 17.2.4	11.5.0	11.6.0
2014-12	RAN#66	R5s140853	2370	-	Correction to GCF WI-086 EUTRA EMM test cases 9.2.1.2.1b and 9.2.1.2.1c	11.5.0	11.6.0
2014-12	RAN#66	R5s140854	2371	-	Correction to GCF WI-154 IMS Emergency Call test case 11.2.5	11.5.0	11.6.0
2014-12	RAN#66	R5s140857	2372	-	Correction to EUTRA RRC handover Test Cases 8.4.1.2, 8.4.1.4, 8.4.1.5	11.5.0	11.6.0
2014-12	RAN#66	R5s140858	2373	-	Correction of f_EUTRA_508Check_TrackingAreaUpdating_AfterHO and f_UTRAN_GMM_RAU functions.	11.5.0	11.6.0
2014-12	RAN#66	R5s140860	2374	-	LTE_TDD: Addition of Rel-11 LTE-A eMBMS-SC test case 17.4.4	11.5.0	11.6.0
2014-12	RAN#66	R5s140862	2375	-	LTE_TDD : Addition of LTE-A eMBMS-SC test case 17.4.6	11.5.0	11.6.0
2014-12	RAN#66	R5s140864	2376	-	LTE_TDD: Addition of GCF WI-178 LTE Advanced eMBMS-SC test case 17.4.5	11.5.0	11.6.0
2014-12	RAN#66	R5s140866	2377	-	LTE_TDD : Addition of LTE-A eMBMS-SC test case 17.4.8	11.5.0	11.6.0
2014-12	RAN#66	R5s140868	2378	-	LTE_TDD: Addition of GCF WI-178 LTE Advanced eMBMS-SC test case 17.4.3	11.5.0	11.6.0
2014-12	RAN#66	R5s140870	2379	-	LTE_TDD: Addition of GCF WI-178 LTE Advanced eMBMS-SC test case 17.4.3a	11.5.0	11.6.0
2014-12	RAN#66	R5s140873	2380	-	Correction to GCF WI-154 IMS Emergency Call test case 11.2.1 and 11.2.2	11.5.0	11.6.0
2014-12	RAN#66	R5s140874	2381	-		11.5.0	11.6.0
2014-12	RAN#66	R5s140875	2382	-	Correction to GCF WI-082 EUTRA RRC handover test cases 8.4.1.2, 8.4.1.4, 8.4.1.5	11.5.0	11.6.0
2014-12	RAN#66	R5s140876	2383	-	Correction to common function f_GERAN_508CheckCampOnNewGeranCell()	11.5.0	11.6.0
2014-12	RAN#66	R5s140892	2384	-	Corrections to GCF WI-086 EMM Test cases 9.2.3.3.2 and 9.2.3.3.3	11.5.0	11.6.0
2014-12	RAN#66	R5s140893	2385	-	Correction to GCF WI-162 EUTRA MAC CA Test cases 7.1.9.1.x	11.5.0	11.6.0
2014-12	RAN#66	R5s140894	2386	-	Correction to common function f_AuthenticationInit()	11.5.0	11.6.0
2014-12	RAN#66	R5s140898	2387	-	Correction for GCF WI-087 multilayer SRVCC test case 13.4.3.3	11.5.0	11.6.0
2014-12	RAN#66	R5s140899	2388	-	Correction for GCF WI-087 multilayer SRVCC test case 13.4.3.5	11.5.0	11.6.0
2014-12	RAN#66	R5s140900	2389	-	Correction for template cr_AUTHENTICATION_FAIL_Any	11.5.0	11.6.0
2014-12	RAN#66	R5s140901	2390	-	Correction to GCF WI-086 EUTRA<>UTRA SRVCC testcases 13.4.3.4 and 13.4.3.5	11.5.0	11.6.0
2014-12	RAN#66	R5s140902	2391	-	Correction to GCF WI-172 EUTRA<>UTRA aSRVCC testcases 13.4.3.9 and 13.4.3.11	11.5.0	11.6.0
2014-12	RAN#66	R5s140903	2392	-	Correction to EUTRA bSRVCC testcases 13.4.3.20 and 13.4.3.23	11.5.0	11.6.0
2014-12	RAN#66	R5s140904	2393	-	Correction to GCF WI-172 EUTRA<>GERAN aSRVCC testcases 13.4.3.26 and 13.4.3.28	11.5.0	11.6.0
2014-12	RAN#66	R5s140906	2394	-	Correction to GCF WI-159 Pre-registration at 1xRTT testcase 13.4.4.1	11.5.0	11.6.0

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2014-12	RAN#66	R5s140907	2395	-	Addition of LTE test case 9.1.2.7	11.5.0	11.6.0
2014-12	RAN#66	R5s140910	2396	-	Correction to template	11.5.0	11.6.0
2014-12	RAN#66	R5s140913	2397	-	cr_MeasResultNeighCells_measResultListUTRA_2Entries_FDD Correction to GCF WI-082 EMM test case 9.1.5.1	11.5.0	11.6.0
2014-12	RAN#66	R5s140915	2398	-	Correction to eMBMS Rel-9 test case 17.1.3	11.5.0	11.6.0
2014-12	RAN#66	R5s140917	2399	-	Correction to GCF WI-172 EUTRA<>GERAN aSRVCC testcases	11.5.0	11.6.0
2014-12	RAN#66	R5s140918	2400	-	13.4.3.26 Correction to GCF WI-172 EUTRA<>GERAN aSRVCC testcases	11.5.0	11.6.0
2014-12	RAN#66	R5s140921	2401	-	13.4.3.28 Correction to WI-086 EUTRA Multi-layer test case 13.1.3	11.5.0	11.6.0
2014-12	RAN#66	R5s140922	2402	_	LTE_TDD: Addition of GCF WI-162 LTE-A Interband CA test case	11.5.0	11.6.0
2014-12	RAN#66	R5s140924		_	8.2.2.4.2 LTE_TDD: Addition of GCF WI-162 LTE-A Interband CA test case		11.6.0
	RAN#66				8.2.2.5.2	11.5.0	
2014-12		R5s140926		-	LTE_TDD: Addition of GCF WI-162 LTE-A Interband CA test case 8.2.4.18.2		
2014-12	RAN#66	R5s140928		-	LTE_TDD: Addition of GCF WI-162 LTE-A Interband CA test case 8.2.4.21.2		11.6.0
2014-12	RAN#66	R5s140930	2406	-	LTE_TDD: Addition of GCF WI-162 LTE-A Interband CA test case 8.3.1.22.2	11.5.0	11.6.0
2014-12	RAN#66	R5s140932	2407	-	LTE_TDD: Addition of GCF WI-162 LTE-A Interband CA test case 8.5.1.7.2	11.5.0	11.6.0
2014-12	RAN#66	R5s140936	2408	-	Correction to the function f_GERAN_LLC_XIDReset()	11.5.0	11.6.0
2014-12	RAN#66	R5s140937	2409	-	LTE_TDD: Addition of GCF WI-162 LTE-A Interband CA test case 8.2.2.3.2	11.5.0	11.6.0
2014-12	RAN#66	R5s140939	2410	-	LTE_TDD: Addition of GCF WI-162 LTE-A Interband CA test case 8.2.4.17.2	11.5.0	11.6.0
2014-12	RAN#66	R5s140941	2411	-	LTE_TDD: Addition of GCF WI-162 LTE-A Interband CA test case	11.5.0	11.6.0
2014-12	RAN#66	R5s140943	2412	-		11.5.0	11.6.0
2014-12	RAN#66	R5s140945	2413	-		11.5.0	11.6.0
2014-12	RAN#66	R5s140947	2414	-	8.3.1.17.2 LTE_TDD: Addition of GCF WI-162 LTE-A Interband CA test case	11.5.0	11.6.0
2014-12	RAN#66	R5s140949	2415	-	8.3.1.18.2 Corrections for GCF WI-154 IMS Emergency Call test case 11.2.11	11.5.0	11.6.0
2014-12	RAN#66	R5s140950	2416	-	Correction to aSRVCC test cases 13.4.3.x	11.5.0	11.6.0
2014-12	RAN#66	R5s140951	2417	-	Corrections for GCF WI-154 IMS Emergency Call test case 11.2.8	11.5.0	11.6.0
2014-12	RAN#66	R5s140952	2418	-	LTE_TDD : Addition of bSRVCC EUTRA<>GERAN testcase	11.5.0	11.6.0
2014-12	RAN#66	R5s140954	2419	-	13.4.3.22 LTE_TDD : Addition of aSRVCC EUTRA<>GERAN testcase	11.5.0	11.6.0
2014-12	RAN#66	R5s140956	2420	-	13.4.3.24 LTE_TDD : Addition of aSRVCC EUTRA<>GERAN testcase	11.5.0	11.6.0
2014-12	RAN#66	R5s140961		_	13.4.3.27		11.6.0
2014-12	RAN#66	R5s140962			Correction for multilayer bSRVCC test cases	11.5.0	
				[,		
2014-12	RAN#66	R5s140964		-	Correction in common function f_GERAN_GPRSAttach()		11.6.0
2014-12	RAN#66	R5s140965		-	Correction for GCF WI-154 IMS Emergency Call test case 11.2.5		11.6.0
2014-12	RAN#66	R5s140978		-	LTE_TDD: Addition of GCF WI-162 LTE-A Interband CA Inter-RAT test case 8.4.2.7.2		11.6.0
2014-12	RAN#66	R5s140985		-	LTE_TDD : Addition of EUTRA<>GERAN aSRVCC testcase 13.4.3.25 in TDD	11.5.0	11.6.0
2014-12	RAN#66	R5s140987	2427	-	LTE_TDD: Addition of GCF WI-172 LTE-GERAN aSRVCC test case 13.4.3.30	11.5.0	11.6.0
2014-12	RAN#66	R5s140995	2428	-	Addition of EMM test case 9.2.1.1.30	11.5.0	11.6.0
2014-12	RAN#66	R5s140998	2429	-	LTE_TDD : Addition of Rel-10 MDT test case 8.6.1.1	11.5.0	11.6.0
2014-12	RAN#66	R5s141000	2430	-	LTE_TDD : Addition of Rel-10 MDT test case 8.6.2.9	11.5.0	11.6.0

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2014-12	RAN#66	R5s141002	2431	-	LTE_TDD : Addition of Rel-10 MDT test case 8.6.4.7	11.5.0	11.6.0
2014-12	RAN#66	R5s141004	2432	-	LTE_TDD : Addition of Rel-10 MDT test case 8.6.6.4	11.5.0	11.6.0
2014-12	RAN#66	R5s141006	2433	-	Corrections for GCF WI-086 EUTRA<>GERAN SRVCC test cases 13.4.3.5	11.5.0	11.6.0
2014-12	RAN#66	R5s141007	2434	-	Corrections to multilayer SRVCC test case 13.4.3.22	11.5.0	11.6.0
2014-12	RAN#66	R5s141008	2435	-	Correction to EUTRA<>GERAN bSRVCC test cases 13.4.3.23	11.5.0	11.6.0
2014-12	RAN#66	R5s141009	2436	-	Correction to GCF WI-172 EUTRA<>GERAN aSRVCC test cases 13.4.3.26	11.5.0	11.6.0
2014-12	RAN#66	R5s141010	2437	-	Correction to GCF WI-172 EUTRA<>GERAN aSRVCC test cases 13.4.3.28	11.5.0	11.6.0
2014-12	RAN#66	R5s141014	2438	-	Addition of LTE-A Rel-11 felCIC test case 8.2.2.8	11.5.0	11.6.0
2014-12	RAN#66	R5s141016	2439	-	Correction to GCF WI-081 EUTRA RRC Testcase 8.5.4.1	11.5.0	11.6.0
2014-12	RAN#66	R5s141018	2440	-	Addition of GCF WI-178 LTE-A eMBMS-SC test case 17.4.7	11.5.0	11.6.0
2014-12	RAN#66	R5s141021	2441	-	Correction to GCF WI-154 IMS Emergency Call test case 11.2.11	11.5.0	11.6.0
2014-12	RAN#66	R5s141022	2442	-	Correction to EUTRA bSRVCC testcase 13.4.3.23	11.5.0	11.6.0
2014-12	RAN#66	R5s141023	2443	-	Correction to GCF WI-172 EUTRA<>GERAN aSRVCC testcase	11.5.0	11.6.0
2014-12	RAN#66	R5s141024	2444	-	LTE_TDD: Addition of GCF WI-87 LTE-GERAN SRVCC test case	11.5.0	11.6.0
2014-12	RAN#66	R5s141026	2445	-	13.4.3.3 LTE_TDD: Addition of GCF WI-87 LTE-GERAN SRVCC test case 13.4.3.5	11.5.0	11.6.0
2014-12	RAN#66	R5s141028	2446	-	LTE_TDD: Addition of GCF WI-167 LTE-UTRAN SRVCC test case	11.5.0	11.6.0
2014-12	RAN#66	R5s141030	2447	-	LTE_TDD: Addition of GCF WI-172 LTE-UTRAN aSRVCC test	11.5.0	11.6.0
2014-12	RAN#66	R5s141032	2448	-	case 13.4.3.9 LTE_TDD: Addition of GCF WI-172 LTE-UTRAN aSRVCC test	11.5.0	11.6.0
2014-12	RAN#66	R5s141034	2449	-	case 13.4.3.11 LTE_TDD: Addition of GCF WI-172 LTE-UTRAN aSRVCC test case 13.4.3.13	11.5.0	11.6.0
2014-12	RAN#66	R5s141036	2450	-	LTE_TDD: Addition of GCF WI-172 LTE-UTRAN aSRVCC test case 13.4.3.15	11.5.0	11.6.0
2014-12	RAN#66	R5s141038	2451	-	LTE_TDD: Addition of LTE-UTRAN bSRVCC test case 13.4.3.19	11.5.0	11.6.0
2014-12	RAN#66	R5s141040	2452	-	LTE_TDD: Addition of LTE-UTRAN bSRVCC test case 13.4.3.20	11.5.0	11.6.0
2014-12	RAN#66	R5s141043	2453	-	LTE_TDD : Addition of Rel-11 LTE-A eMBMS-SC test case 17.4.7	11.5.0	11.6.0
2014-12	RAN#66	R5s141045	2454	-	Correction to eMBMS test cases 17.1.3	11.5.0	11.6.0
2014-12	RAN#66	R5s141046	2455	-	LTE_TDD : Addition of LTE Advanced Rel-11 eMBMS-SC test case	11.5.0	11.6.0
2014-12	RAN#66	R5s141048	2456	-	LTE_TDD : Addition of LTE Advanced Rel-11 eMBMS-SC test case 17.4.2a	11.5.0	11.6.0
2014-12	RAN#66	R5s141057	2457	-	LTE_TDD : Addition of EUTRA<>GERAN bSRVCC testcase	11.5.0	11.6.0
2014-12	RAN#66	R5s141060	2458	-	LTE_TDD: Addition of LTE-GERAN bSRVCC test case 13.4.3.21	11.5.0	11.6.0
2014-12	RAN#66	R5s141099	2459	-	LTE TDD/UTRA FDD:Addition of EUTRA<>UTRA aSRVCC	11.5.0	11.6.0
2014-12	RAN#66	R5s141101	2460	-	testcase 13.4.3.7 LTE TDD/UTRA FDD:Addition of EUTRA<>UTRA aSRVCC	11.5.0	11.6.0
2014-12	RAN#66	R5s141103	2461	-	testcase 13.4.3.8 LTE TDD/UTRA FDD:Addition of EUTRA<>UTRA aSRVCC	11.5.0	11.6.0
2014-12	RAN#66	R5s141105	2462	-	testcase 13.4.3.10 LTE TDD/UTRA FDD:Addition of EUTRA<>UTRA aSRVCC testcase 13.4.3.14	11.5.0	11.6.0
2014-12	RAN#66	R5s141107	2463	-	LTE TDD/UTRA FDD:Addition of EUTRA<>UTRA aSRVCC testcase 13.4.3.16	11.5.0	11.6.0
2014-12	RAN#66	R5s141109	2464	-	LTE_TDD: Addition of GCF WI-178 LTE Advanced eMBMS-SC test case 17.4.1	11.5.0	11.6.0
2014-12	RAN#66	R5s141111	2465	-	LTE_TDD : Addition of LTE-A eMBMS-SC test case 17.4.1a	11.5.0	11.6.0
2014-12	RAN#66	R5s141132	2466	-	Correction of GCF WI-162 LTE-A Carrier Aggregation test case 8.4.2.7.1 and 8.4.2.7.2 in Band29	11.5.0	11.6.0

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2014-12	RAN#66	R5s141137	2467	-	Correction to GCF WI-087 EUTRA EMM testcase 9.2.3.3.5	11.5.0	11.6.0
2014-12	RAN#66	R5s141145	2468	-	Corrections for 2nd PDN handling in 36.523-3 test model	11.5.0	11.6.0
2014-12	RAN#66	R5s141146	2469	-	Corrections to GCF WI-172 EUTRA aSRVCC<>GERAN test case 13.4.3.30	11.5.0	11.6.0
2014-12	RAN#66	R5s141149	2470	-	Correction to the Multiple PDN handling during initial registration	11.5.0	11.6.0
2014-12	RAN#66	R5s141157	2471	-	Correction of GCF WI-086 EUTRA<>UTRA SRVCC test case 13.4.3.2	11.5.0	11.6.0
2014-12	RAN#66	R5s141158	2472	-	Correction to GERAN postamble function f_GERAN_SwitchPowerOff()	11.5.0	11.6.0
2014-12	RAN#66	R5s141160	2473	-	Correction to Rel-11 eMBMS-SC test cases 17.4.1 + 17.4.1a	11.5.0	11.6.0
2014-12	RAN#66	R5s141161	2474	-	Correction to GCF WI-179 EUTRA NIMTC test case 10.5.4	11.5.0	11.6.0
2014-12	RAN#66	R5s141164	2475	-	Correction to f_UTRAN_CellInfo_SetPLMNIdentity for Band VI	11.5.0	11.6.0
2014-12	RAN#66	R5s141165	2476	-	LTE_TDD: Addition of Rel-11 LTE-A felCIC test case 8.2.2.8	11.5.0	11.6.0
2014-12	RAN#66	R5s141167	2477	-	Addition of Rel-11 LTE-A eMDT test case 8.6.8.1	11.5.0	11.6.0
2014-12	RAN#66	R5s141169	2478	-	LTE_TDD : Addition of Rel-11 LTE-A eMDT test case 8.6.8.1	11.5.0	11.6.0
2014-12	RAN#66	R5s141171	2479	-	Addition of Rel-11 LTE-A eMDT test case 8.6.8.2	11.5.0	11.6.0
2014-12	RAN#66	R5s141173	2480	-	LTE_TDD: Addition of Rel-11 LTE-A eMDT test case 8.6.8.2	11.5.0	11.6.0
2014-12	RAN#66	R5s141175	2481	-	Addition of Rel-11 LTE-A eMDT test case 8.6.8.3	11.5.0	11.6.0
2014-12	RAN#66	R5s141177	2482	-	LTE_TDD: Addition of Rel-11 LTE-A eMDT test case 8.6.8.3	11.5.0	11.6.0
2014-12	RAN#66	R5s141179	2483	-	Addition of Rel-11 LTE-A eMDT test case 8.6.2.3a	11.5.0	11.6.0
2014-12	RAN#66	R5s141182	2484	-	LTE_TDD: Addition of Rel-11 LTE-A eMDT test case 8.6.2.3a	11.5.0	11.6.0
2014-12	RAN#66	R5s141189	2485	-	Addition of Rel-11 LTE-A eMDT test case 8.6.6.7	11.5.0	11.6.0
2014-12	RAN#66	R5s141191	2486	-	LTE_TDD: Addition of Rel-11 LTE-A eMDT test case 8.6.6.7	11.5.0	11.6.0
2014-12	RAN#66	R5s141193	2487	-	Addition of Rel-11 LTE-A eMDT test case 8.6.6.5	11.5.0	11.6.0
2014-12	RAN#66	R5s141195	2488	-	LTE_TDD: Addition of Rel-11 LTE-A eMDT test case 8.6.6.5	11.5.0	11.6.0
2014-12	RAN#66	R5s141203	2489	-	Correction to function fl_CheckTimingInfoOneTTI	11.5.0	11.6.0
2014-12	RAN#66	R5s141204	2490	-	Correction to the template cs_UE_CapabilityEnqAll	11.5.0	11.6.0
2014-12	RAN#66	R5s141205	2491	-	Correction to EUTRA SRVCC Testcases 13.4.3.4 and 13.4.3.5	11.5.0	11.6.0
2014-12	RAN#66	R5s141206	2492	-	Correction to GCF WI-154 IMS Emergency TCs 8.1.2.11	11.5.0	11.6.0
2014-12	RAN#66	R5s141211	2493	-	Correction to GCF WI-082 EMM test case 9.2.1.1.7	11.5.0	11.6.0
2014-12	RAN#66	R5s141213	2494	-	LTE_TDD: Correction to WI-091 testcase 8.2.1.5 and 8.2.1.6	11.5.0	11.6.0
2014-12	RAN#66	R5s141214	2495	-	Addition of GCF WI-179 EUTRA NIMTC Testcase 6.1.1.7a	11.5.0	11.6.0
2014-12	RAN#66	R5s141218	2496	-	Correction to SRVCC and aSRVCC failure test cases	11.5.0	11.6.0
2014-12	RAN#66	R5s141220	2497	-	Correction to f_UTRAN_UE_CapabilityInformation() function	11.5.0	11.6.0
2014-12	RAN#66	R5-145714	2303	-	Band 30: Guidance on test execution	11.6.0	12.0.0
2014-12	RAN#66	RP-142065	2498	-	CR to 36.523-3: Add new verified and e-mail agreed TTCN test cases in the TC lists in 36.523-3 (prose), Annex A	11.6.0	12.0.0
2015-03	RAN#67	R5-150123	2499	-	Routine maintenance for TS 36.523-3	12.0.0	12.1.0
2015-03	RAN#67	R5-150356	2500	-	rSRVCC Test Model	12.0.0	12.1.0
2015-03	RAN#67	RP-150334	2625	-	CR to 36.523-3: Add new verified and e-mail agreed TTCN test cases in the TC lists in 36.523-3 (prose), Annex A	12.0.0	12.1.0
2015-03	RAN#67	R5s140966	2501	-	Correction to GCF WI-177 EUTRA MDT Test cases 8.6.4.5	12.0.0	12.1.0

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2015-03	RAN#67	R5s141159	2502	-	Correction to test case 9.1.5.1, function fl_TC_9_1_5_1_Body() in NAS_EMMInformation.ttcn	12.0.0	12.1.0
2015-03	RAN#67	R5s141198	2503	-	Addition of Rel-11 LTE-A eMDT test case 8.6.4.8	12.0.0	12.1.0
2015-03	RAN#67	R5s141200	2504	-	LTE_TDD: Addition of Rel-11 LTE-A eMDT test case 8.6.4.8	12.0.0	12.1.0
2015-03	RAN#67	R5s141219	2505	-	Corrrection to function f_GERAN_CreatePhyCombinedCellControlCh	12.0.0	12.1.0
2015-03	RAN#67	R5s141228	2506	-	Addition of Rel-11 EUTRA RRC eMDT test case 8.6.2.10	12.0.0	12.1.0
2015-03	RAN#67	R5s141230	2507	-	LTE_TDD: Addition of Rel-11 EUTRA RRC eMDT test case 8.6.2.10	12.0.0	12.1.0
2015-03	RAN#67	R5s141233	2508	-	Addition of GCF WI-162 EUTRA RRC Carrier Aggregation test case 8.2.4.16.1	12.0.0	12.1.0
2015-03	RAN#67	R5s141235	2509	-	Addition of GCF WI-162 LTE-A Carrier Aggregation RRC test case 8.2.4.16.2	12.0.0	12.1.0
2015-03	RAN#67	R5s141239	2510	-	LTE_TDD: Addition of GCF WI-191 LTE-A additional special subframe configuration test case 7.1.3.13	12.0.0	12.1.0
2015-03	RAN#67	R5s141241	2511	-	Correction to common function f_GetTestcaseAttrib_DICcchMsgInSeparateMacPdu() for eMDT test cases	12.0.0	12.1.0
2015-03	RAN#67	R5s141245	2512	-	Addition of LTE-A Carrier Aggregation test case 8.2.4.23.2	12.0.0	12.1.0
2015-03	RAN#67	R5s141247	2513	-	Addition of LTE-A (Rel-11) Carrier Aggregation test case 8.2.2.5.3	12.0.0	12.1.0
2015-03	RAN#67	R5s141249	2514	-	Addition of LTE-A (Rel-11) Carrier Aggregation test case 8.2.4.17.3	12.0.0	12.1.0
2015-03	RAN#67	R5s141251	2515	-	Addition of LTE-A (Rel-11) Carrier Aggregation test case 8.2.4.21.3	12.0.0	12.1.0
2015-03	RAN#67	R5s141253	2516	-	Addition of LTE-A (Rel-11) Carrier Aggregation test case 8.3.1.17.3	12.0.0	12.1.0
2015-03	RAN#67	R5s141255	2517	-	Addition of LTE-A (Rel-11) Carrier Aggregation test case 8.3.1.18.3	12.0.0	12.1.0
2015-03	RAN#67	R5s141257	2518	-	Addition of LTE-A (Rel-11) Carrier Aggregation test case 8.3.1.22.3	12.0.0	12.1.0
2015-03	RAN#67	R5s141259	2519	-	Addition of LTE-A (Rel-11) Carrier Aggregation test case 8.5.1.7.3	12.0.0	12.1.0
2015-03	RAN#67	R5s141261	2520	-	Addition of LTE-A (Rel-11) Carrier Aggregation test case 8.2.2.3.3	12.0.0	12.1.0
2015-03	RAN#67	R5s141263	2521	-	Addition of LTE-A (Rel-11) Carrier Aggregation test case 8.2.2.4.3	12.0.0	12.1.0
2015-03	RAN#67	R5s141265	2522	-	Addition of LTE-A (Rel-11) Carrier Aggregation test case 8.2.4.23.3	12.0.0	12.1.0
2015-03	RAN#67	R5s141267	2523	-	LTE_TDD: Addition of GCF WI-156 MFBI Idle Mode test case 6.1.2.21	12.0.0	12.1.0
2015-03	RAN#67	R5s141269	2524	-	LTE_TDD: Addition of LTE-A Enhanced Minimization of Drive Tests (eMDT) Testcase 8.6.11.1	12.0.0	12.1.0
2015-03	RAN#67	R5s141271	2525	-		12.0.0	12.1.0
2015-03	RAN#67	R5s141275	2526	-	Addition of LTE-A Carrier Aggregation test case 8.2.4.23.1	12.0.0	12.1.0
2015-03	RAN#67	R5s141277	2527	-	LTE_TDD : Correction to GCF WI-086 EUTRA RRC test case 8.1.3.7	12.0.0	12.1.0
2015-03	RAN#67	R5s141278	2528	-	Addition of Rel-11 LTE-A Carrier Aggregation MAC test case 7.1.9.1.3	12.0.0	12.1.0
2015-03	RAN#67	R5s141280	2529	-	Addition of Rel-11 LTE-A Carrier Aggregation RRC test case 8.2.4.16.3	12.0.0	12.1.0
2015-03	RAN#67	R5s141282	2530	-	Addition of Rel-11 LTE-A Carrier Aggregation test case 8.2.4.18.3	12.0.0	12.1.0
2015-03	RAN#67	R5s141284	2531	-	Addition of Rel-11 LTE-A Carrier Aggregation test case 8.2.4.20.3	12.0.0	12.1.0
2015-03	RAN#67	R5s141288	2532	-	Addition of LTE-A (Rel-11) CA Handover from UTRAN test case 8.4.2.7.3	12.0.0	12.1.0
2015-03	RAN#67	R5s141292	2533	-	Addition of Rel-11 LTE-A eMDT test case 8.6.2.12	12.0.0	12.1.0
2015-03	RAN#67	R5s141294	2534	-	LTE_TDD: Addition of Rel-11 LTE-A eMDT test case 8.6.2.12	12.0.0	12.1.0
2015-03	RAN#67	R5s141297	2535	-	Addition of Rel-11 LTE-A eMDT test case 8.6.4.9	12.0.0	12.1.0
2015-03	RAN#67	R5s141299	2536	-	LTE_TDD: Addition of Rel-11 LTE-A eMDT test case 8.6.4.9	12.0.0	12.1.0
2015-03	RAN#67	R5s141301	2537	-	Addition of Rel-11 LTE-A eMDT test case 8.6.6.6	12.0.0	12.1.0

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2015-03	RAN#67	R5s141303	2538	-	LTE_TDD: Addition of Rel-11 LTE-A eMDT test case 8.6.6.6	12.0.0	12.1.0
2015-03	RAN#67	R5s141305	2539	-	Addition of Rel-11 LTE-A eMDT test case 8.6.8.5	12.0.0	12.1.0
2015-03	RAN#67	R5s141307	2540	-	Addition of Rel-11 LTE-A eMDT test case 8.6.8.6	12.0.0	12.1.0
2015-03	RAN#67	R5s141309	2541	-	LTE_TDD: Addition of Rel-11 LTE-A eMDT test case 8.6.8.6	12.0.0	12.1.0
2015-03	RAN#67	R5s141311	2542	-	Addition of Rel-11 LTE-A eMDT test case 8.6.2.11	12.0.0	12.1.0
2015-03	RAN#67	R5s141313	2543	-	LTE_TDD: Addition of Rel-11 LTE-A eMDT test case 8.6.2.11	12.0.0	12.1.0
2015-03	RAN#67	R5s141317	2544	-	Correction to GCF WI-081 EUTRA RRC test case 8.5.1.4 and WI-082 EMM test case 9.2.3.1.9a	12.0.0	12.1.0
2015-03	RAN#67	R5s141319	2545	-	Addition of LTE-A Carrier Aggregation test case 8.2.4.23.1	12.0.0	12.1.0
2015-03	RAN#67	R5s141324	2546	-	Correction to function fl_IP_AddrServers_Stop	12.0.0	12.1.0
2015-03	RAN#67	R5s141325	2547	-	Correction to Importing of Parameters in UTRAN_RAB_Functions for LTE, POS and IMS test suites	12.0.0	12.1.0
2015-03	RAN#67	R5s141327	2548	-	Correction to GCF WI-082 EUTRA ESM Test cases 10.4.1	12.0.0	12.1.0
2015-03	RAN#67	R5s141331	2549	-	LTE_TDD : Correction to EUTRA MAC TDD-SSC test cases 7.1.3.12, 7,1,3,12a, 7.1.3.13, 7.1.3.13a	12.0.0	12.1.0
2015-03	RAN#67	R5s141332	2550	-	Correction to common function f_GERAN_SwitchPowerOff()	12.0.0	12.1.0
2015-03	RAN#67	R5s141334	2551	-	Correction to WI-086 EUTRA Multi-layer test cases 13.1.2, 13.1.2a, 13.1.3, 13.1.15	12.0.0	12.1.0
2015-03	RAN#67	R5s141338	2552	-	Correction of LTE-A Carrier Aggregation test cases 8.3.1.18.x	12.0.0	12.1.0
2015-03	RAN#67	R5s141339	2553	-	Addition of GCF WI-154 IMS Emergency Call test case 11.2.3	12.0.0	12.1.0
2015-03	RAN#67	R5s141345	2554	-	Correction of GCF WI-154 IMS Emergency Call over EPS test case 11.2.1	12.0.0	12.1.0
2015-03	RAN#67	R5s141349	2555	-	Correction to f_EUTRA_CA_InitFrequenciesInterBand() function for CA_3A-7A_Rev band combination	12.0.0	12.1.0
2015-03	RAN#67	R5s141352	2556	-	Correction of GCF WI-178 LTE-A eMBMS-SC test case 17.4.3	12.0.0	12.1.0
2015-03	RAN#67	R5s141354	2557	-	Correction of GCF WI-178 LTE-A eMBMS-SC test case 17.4.7	12.0.0	12.1.0
2015-03	RAN#67	R5s141358	2558	-	Correction of GCF WI-178 LTE-A eMBMS-SC test case 17.4.1	12.0.0	12.1.0
2015-03	RAN#67	R5s141361	2559	-	Correction to EUTRA multilayer aSRVCC test case 13.4.3.28	12.0.0	12.1.0
2015-03	RAN#67	R5s141362	2560	-	Correction to EUTRA bSRVCC testcases 13.4.3.19	12.0.0	12.1.0
2015-03	RAN#67	R5s141363	2561	-	Correction to function f_SS_HS_DSCH_PDSCH_Cfg_DPCH_Modify_TDD	12.0.0	12.1.0
2015-03	RAN#67	R5s141364	2562	-	Correction of GCF WI-178 LTE-A eMBMS-SC test case 17.4.2	12.0.0	12.1.0
2015-03	RAN#67	R5s141365	2563	-	LTE_TDD : Correction to Multilayer test case 13.4.2.4	12.0.0	12.1.0
2015-03	RAN#67	R5s141366	2564	-	Correction of GCF WI-150 MFBI Testcase 6.1.2.20	12.0.0	12.1.0
2015-03	RAN#67	R5s141367	2565	-	Correction of QCI value in EPS bearer context no.2	12.0.0	12.1.0
2015-03	RAN#67	R5s141368	2566	-	Addition of Rel-8 EUTRA Idle Mode LTE<>GERAN test case 6.2.3.29	12.0.0	12.1.0
2015-03	RAN#67	R5s141371	2567	-	Correction to LTE-A CA test cases 8.2.4.16.x, 8.2.4.18.3 and 8.2.4.20.3	12.0.0	12.1.0
2015-03	RAN#67	R5s141372	2568	-	Correction to EUTRA<>UTRA bSRVCC testcase 13.4.3.20	12.0.0	12.1.0
2015-03	RAN#67	R5s141373	2569	-	Correction to LTE-A CA test case 7.1.9.1.3	12.0.0	12.1.0
2015-03	RAN#67	R5s141374	2570	-	Correction to GCF WI-164 eMBMS test case 17.1.3	12.0.0	12.1.0
2015-03	RAN#67	R5s141375	2571	-	Addition of GCF WI-103 ESM test case 10.4.2	12.0.0	12.1.0
2015-03	RAN#67	R5s141384	2572	-	Correction to LTE-GERAN aSRVCC test cases 13.4.3.26 & 13.4.3.28	12.0.0	12.1.0
2015-03	RAN#67	R5s141385	2573	-	LTE_TDD : Addition of GCF WI-172 LTE-GERAN aSRVCC test case 13.4.3.26	12.0.0	12.1.0
2015-03	RAN#67	R5s141387	2574	-	LTE_TDD : Addition of GCF WI-172 LTE-GERAN aSRVCC test case 13.4.3.28	12.0.0	12.1.0

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2015-03	RAN#67	R5s141389	2575	-	Corrections to coordinate XID and IPv6 procedures	12.0.0	12.1.0
2015-03	RAN#67	R5s141393	2576	-	Correction to multilayer bSRVCC test case 13.4.3.21	12.0.0	12.1.0
2015-03	RAN#67	R5s141394	2577	-	Correction to EUTRA RRC Inter-mode test case 8.2.4.15a	12.0.0	12.1.0
2015-03	RAN#67	R5s141395	2578	-	Addition of Rel-11 LTE-A CA MAC test case 7.1.3.11.3	12.0.0	12.1.0
2015-03	RAN#67	R5s141397	2579	-	LTE_TDD: Addition of Rel-11 LTE-A eMDT test case 8.6.8.5	12.0.0	12.1.0
2015-03	RAN#67	R5s141399	2580	-	Corrections to IMS emergency call test case 11.2.5	12.0.0	12.1.0
2015-03	RAN#67	R5s141400	2581	-	Correction to GCF WI-082 SMS over SGs test cases 11.1.3, 11.1.4, 11.1.5, 11.1.6	12.0.0	12.1.0
2015-03	RAN#67	R5s150001	2582	-	Updates to multi-PDNs implementation for CDMA2000-related procedures	12.0.0	12.1.0
2015-03	RAN#67	R5s150003	2583	-	Addition of Rel-8 EUTRA Idle Mode LTE<>GERAN test case 6.2.3.26	12.0.0	12.1.0
2015-03	RAN#67	R5s150005	2584	-	Addition of EMM test case 9.2.1.1.29	12.0.0	12.1.0
2015-03	RAN#67	R5s150007	2585	-	LTE_TDD: Addition of LTE-A Carrier Aggregation MAC test case 7.1.9.1.2	12.0.0	12.1.0
2015-03	RAN#67	R5s150009	2586	-	Correction to GCF WI-086 EMM test case 9.2.3.3.1	12.0.0	12.1.0
2015-03	RAN#67	R5s150010	2587	-	Correction to GCF WI-081 Idle mode test cases 6.1.1.4, 6.1.1.6 and 6.1.1.6a.	12.0.0	12.1.0
2015-03	RAN#67	R5s150019	2588	-	Correction to LTE-GERAN test case 6.2.3.1a	12.0.0	12.1.0
2015-03	RAN#67	R5s150026	2589	-	Correction of GCF WI-178 LTE-A eMBMS-SC test case 17.4.1, 17.4.1a, 17.4.3, 17.4.3a 17.4.4	12.0.0	12.1.0
2015-03	RAN#67	R5s150031	2590	-	Corrections for LTE test case execution with IMS-enabled device	12.0.0	12.1.0
2015-03	RAN#67	R5s150034	2591	-	Correction to EUTRA test cases 8.2.4.14a and 8.2.4.15	12.0.0	12.1.0
2015-03	RAN#67	R5s150036	2592	-	Corrections for eMDT test case 8.6.2.3a and 8.6.2.10	12.0.0	12.1.0
2015-03	RAN#67	R5s150037	2593	-	Correction to LTE-A Carrier Aggregation Enhancement test cases	12.0.0	12.1.0
2015-03	RAN#67	R5s150038	2594	-	Implementation of Prose CR R5-145793	12.0.0	12.1.0
2015-03	RAN#67	R5s150053	2595	-	Corrections to IMS emergency call test case 11.2.3	12.0.0	12.1.0
2015-03	RAN#67	R5s150057	2596	-	Corrections to EUTRA Testcases with IMS enabled UE	12.0.0	12.1.0
2015-03	RAN#67	R5s150062	2597	-	Addition of EUTRA DRX Testcase 7.1.6.3	12.0.0	12.1.0
2015-03	RAN#67	R5s150066	2598	-	LTE_TDD:Addition of EUTRA DRX Testcase 7.1.6.3	12.0.0	12.1.0
2015-03	RAN#67	R5s150070	2599	-	Correction to GCF WI-162 LTE-A CA test cases 7.1.9.1.x	12.0.0	12.1.0
2015-03	RAN#67	R5s150071	2600	-	Correction to GCF WI-087 EUTRA EMM test case 9.2.1.2.1b	12.0.0	12.1.0
2015-03	RAN#67	R5s150074	2601	-	Correction for IP_PTC for IMS-enabled UEs	12.0.0	12.1.0
2015-03	RAN#67	R5s150076	2602	-	Addition of Rel-11 LTE-A eMDT test case 8.6.4.10	12.0.0	12.1.0
2015-03	RAN#67	R5s150078	2603	-	LTE_TDD: Addition of Rel-11 LTE-A eMDT test case 8.6.4.10	12.0.0	12.1.0
2015-03	RAN#67	R5s150081	2604	-	Correction to GCF WI-159 LTE<> 1xRTT testcase 13.4.4.1	12.0.0	12.1.0
2015-03	RAN#67	R5s150082	2605	-	Multi-PDN related correction to EUTRA RRC test case 8.1.2.8	12.0.0	12.1.0
2015-03	RAN#67	R5s150089	2606	-	Correction of GCF WI-178 LTE Advanced eMBMS-SC test case 17.4.2 & 17.4.2a	12.0.0	12.1.0
2015-03	RAN#67	R5s150090	2607	-	Correction of GCF WI-178 LTE Advanced eMBMS-SC test case 17.4.7	12.0.0	12.1.0
2015-03	RAN#67	R5s150092	2608	-	Addition of RFT-117 EUTRA MFBI Testcase 6.2.3.35	12.0.0	12.1.0
2015-03	RAN#67	R5s150096	2609	-	LTE_TDD: Addition of LTE-A Carrier Aggregation test case 8.2.2.4.3	12.0.0	12.1.0
2015-03	RAN#67	R5s150098	2610	-	LTE_TDD: Addition of LTE-A Carrier Aggregation test case 8.2.2.5.3	12.0.0	12.1.0
2015-03	RAN#67	R5s150100	2611	-	LTE_TDD:Addition of LTE-A Carrier Aggregation test case 8.2.4.18.3	12.0.0	12.1.0

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2015-03	RAN#67	R5s150102	2612	-	LTE_TDD: Addition of LTE-A Carrier Aggregation test case 8.3.1.17.3	12.0.0	12.1.0
2015-03	RAN#67	R5s150104	2613	-	LTE_TDD: Addition of LTE-A Carrier Aggregation test case 8.3.1.18.3	12.0.0	12.1.0
2015-03	RAN#67	R5s150106	2614	=	LTE_TDD: Addition of LTE-A Carrier Aggregation test case 8.3.1.22.3	12.0.0	12.1.0
2015-03	RAN#67	R5s150108	2615	-	LTE_TDD:Addition of LTE-A Carrier Aggregation test case 8.5.1.7.3	12.0.0	12.1.0
2015-03	RAN#67	R5s150113	2616	-	LTE_TDD: Addition of LTE-A Carrier Aggregation MAC test case 7.1.9.1.3	12.0.0	12.1.0
2015-03	RAN#67	R5s150118	2617	-	Further correction for LTE TC execution with IMS-enabled devices	12.0.0	12.1.0
2015-03	RAN#67	R5s150119	2618	-	LTE_TDD: Addition of Rel-11 LTE_CA_enh test case 8.4.2.7.3	12.0.0	12.1.0
2015-03	RAN#67	R5s150121	2619	-	Addition of GEA4 and A5/4 ciphering algorithms	12.0.0	12.1.0
2015-03	RAN#67	R5s150122	2620	-	Correction of GCF WI-87 EUTRA<>GERAN Testcase 6.2.3.28	12.0.0	12.1.0
2015-03	RAN#67	R5s150123	2621	-	Correction of GCF WI-87 EUTRA<>GERAN Testcase 6.2.3.29	12.0.0	12.1.0
2015-03	RAN#67	R5s150133	2622	-	LTE_TDD:Addition of GCF WI-172 TD_LTE<>TDSCDMA Testcase 13.4.3.9	12.0.0	12.1.0
2015-03	RAN#67	R5s150135	2623	-	LTE_TDD:Addition of GCF WI-172 TD_LTE<>TDSCDMA Testcase 13.4.3.11	12.0.0	12.1.0
2015-03	RAN#67	R5s150137	2624	-	LTE_TDD:Addition of GCF WI-172 TD_LTE<>TDSCDMA Testcase 13.4.3.13	12.0.0	12.1.0

History

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