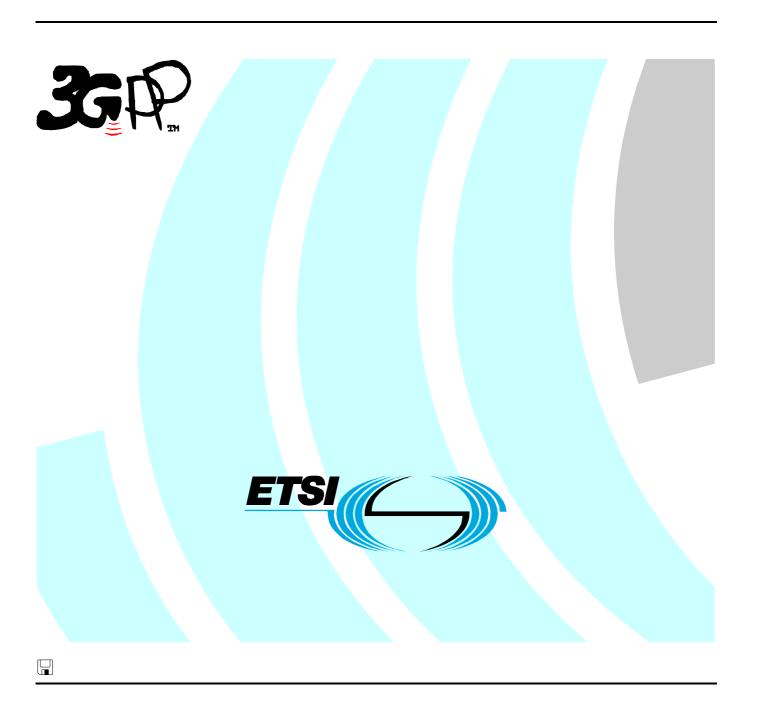
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Foreword

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

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

Version x.y.z

where:

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

Introduction

The present document is part 3 of a multi-part conformance test specification for UE. The specification contains a TTCN2 design frame work and the detailed test specifications in TTCN for UE at the Uu interface.

3GPP TS 34.123-1 [1]: "User Equipment (UE) conformance specification; Part 1: Protocol conformance specification".

3GPP TS 34.123-2 [2]: "User Equipment (UE) conformance specification; Part 2: Implementation Conformance Statement (ICS) proforma specification".

3GPP TS 34.123-3: "Abstract Test Suite (ATS)" (the present document).

1 Scope

The present document specifies the protocol conformance testing in TTCN for the 3GPP User Equipment (UE) at the Uu interface.

The present document is the 3rd part of a multi-part test specification, 3GPP TS 34.123. The following TTCN test specification and design considerations can be found in the present document:

- the overall test suite structure;
- the testing architecture;
- the test methods and PCO definitions:
- the test configurations;
- the design principles, assumptions, and used interfaces to the TTCN tester (System Simulator);
- TTCN styles and conventions;
- the partial PIXIT proforma;
- the TTCN.MP and TTCN.GR forms for the mentioned protocols tests.

The Abstract Test Suites designed in the document are based on the test cases specified in prose (3GPP TS 34.123-1 [1]).

The present document is valid for UE implemented according to 3GPP Release 1999, 3GPP Release 4, 3GPP Release 5 or 3GPP Release 6.

2 References

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

- References are either specific (identified by date of publication, edition number, version number, etc.) or non-specific.
- For a specific reference, subsequent revisions do not apply.
- For a non-specific reference, the latest version applies. In the case of a reference to a 3GPP document (including a GSM document), a non-specific reference implicitly refers to the latest version of that document *in the same Release as the present document*.
 - For a Release 1999 UE, references to 3GPP documents are to version 3.x.y, when available.
 - For a Release 4 UE, references to 3GPP documents are to version 4.x.y, when available.
 - For a Release 5 UE, references to 3GPP documents are to version 5.x.y, when available.
 - For a Release 6 UE, references to 3GPP documents are to version 6.x.y, when available.
- [1] 3GPP TS 34.123-1: "User Equipment (UE) conformance specification; Part 1: Protocol conformance specification".
- [2] 3GPP TS 34.123-2: "User Equipment (UE) conformance specification; Part 2: Implementation Conformance Statement (ICS) proforma specification".
- [3] 3GPP TS 34.108: "Common test environments for User Equipment (UE) conformance testing".
- [4] 3GPP TS 34.109: "Terminal logical test interface; Special conformance testing functions".
- [5] 3GPP TR 21.905: "Vocabulary for 3GPP specifications".

[6]	3GPP TS 23.003: "Numbering, addressing and identification".
[7]	3GPP TS 23.101: "General UMTS architecture".
[8]	3GPP TS 24.007: "Mobile radio interface signalling layer 3; General aspects".
[9]	3GPP TS 24.008: "Mobile radio interface layer 3 specification; Core network protocols; Stage 3".
[10]	3GPP TS 24.011: "Point-to-Point (PP) Short Message Service (SMS) support on mobile radio interface".
[11]	3GPP TS 24.012: "Short Message Service Cell Broadcast (SMSCB) support on the mobile radio interface".
[12]	3GPP TS 25.214: "Physical layer procedures (FDD)".
[13]	3GPP TS 25.224: "Physical layer procedures (TDD)".
[14]	3GPP TS 25.301: "Radio interface protocol architecture".
[15]	3GPP TS 25.303: "Interlayer procedures in connected mode".
[16]	3GPP TS 25.304: "User Equipment (UE) procedures in idle mode and procedures for cell reselection in connected mode".
[16a]	3GPP TS 25.306: "UE Radio Access capabilities"
[17]	3GPP TS 25.321: "Medium Access Control (MAC) protocol specification".
[18]	3GPP TS 25.322: "Radio Link Control (RLC) protocol specification".
[19]	3GPP TS 25.323: "Packet Data Convergence Protocol (PDCP) specification".
[20]	3GPP TS 25.324: "Broadcast/Multicast Control (BMC)".
[21]	3GPP TS 25.331: "Radio Resource Control (RRC) protocol specification".
[22]	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)".
[23]	3GPP TS 27.007: "AT command set for 3G User Equipment (UE)".
[24]	3GPP TS 27.060: "Packet domain; Mobile Station (MS) supporting Packet Switched services".
[25]	3GPP TS 33.102: "3G security; Security architecture".
[26]	3GPP TS 51.010-1: "Mobile Station (MS) conformance specification; Part 1: Conformance specification".
[27]	ETSI TR 101 666 (V1.0.0): "Information technology; Open Systems Interconnection Conformance testing methodology and framework; The Tree and Tabular Combined Notation (TTCN) (Ed. 2++)".
[28]	ITU-T Recommendation X.691 (1997) "Information technology - ASN.1 encoding rules: Specification of Packed Encoding Rules (PER)".
[29]	ISO/IEC 8824 (all parts): "Information technology - Abstract Syntax Notation One (ASN.1)".
[30]	IETF RFC 2507: "IP Header Compression".
[31]	3GPP TS 45.002: "Multiplexing and multiple access on the radio path". 3GPP TS 05.02: "Digital cellular telecommunications system (Phase 2+); Multiplexing and multiple access on the radio path".

[32]	3GPP TS 44.060: "General Packet Radio Service (GPRS); Mobile Station (MS) - Base Station System (BSS) interface; Radio Link Control/Medium Access Control (RLC/MAC) protocol". 3GPP TS 04.60: "Digital cellular telecommunications system (Phase 2+); General Packet Radio Service (GPRS); Mobile Station (MS) - Base Station System (BSS) interface; Radio Link Control/Medium Access Control (RLC/MAC) protocol".
[33]	3GPP TS 44.064: "Mobile Station - Serving GPRS Support Node (MS-SGSN) Logical Link Control (LLC) layer specification".
[34]	3GPP TS 23.038: "Alphabets and language-specific information".
[35]	3GPP TS 23.040: "Technical realization of Short Message Service (SMS)".
[36]	3GPP TS 23.041: "Technical realization of Cell Broadcast Service (CBS)".
[37]	ETSI ETR 141: "Methods for Testing and Specification (MTS); Protocol and profile conformance testing specifications; The Tree and Tabular Combined Notation (TTCN) style guide".
[38]	ETSI TR 101 101: "Methods for Testing and Specification (MTS); TTCN interim version including ASN.1 1994 support [ISO/IEC 9646-3] (Second Edition Mock-up for JTC1/SC21 Review)".
[39]	ITU-T Recommendation X.680: "Information technology - Abstract Syntax Notation One (ASN.1): Specification of basic notation".
[40]	3GPP TS 25.211: "Physical channels and mapping of transport channels onto physical channels (FDD)".
[41]	ISO/IEC 9646 (all parts): "Information technology - Open Systems Interconnection - Conformance testing methodology and framework".
[42]	3GPP TS 44.006: "Mobile Station - Base Stations System (MS - BSS) Interface Data Link (DL) layer specification".
[43]	3GPP TS 44.018: "Mobile radio interface layer 3 specification; Radio Resource Control (RRC) protocol". 3GPP TS 04.18: "Digital cellular telecommunications system (Phase 2+); Mobile radio interface layer 3 specification; Radio Resource Control (RRC) protocol".
[44]	3GPP TR 25.925: "Radio interface for Broadcast/Multicast Services".
[45]	ITU-T Recommendation O.153: "Basic parameters for the measurement of error performance at bit rates below the primary rate".
[46]	IETF RFC 1144: "Compressing TCP/IP headers for low-speed serial links".
[47]	ITU-T Recommendation V.42bis: "Data compression procedures for data circuit-terminating equipment (DCE) using error correction procedures".
[48]	ITU-T Recommendation V.44: "Data compression procedures".
[49]	3GPP TS 44.008: "Mobile radio interface layer 3 specification". 3GPP TS 04.08: "Digital cellular telecommunications system (Phase 2+); Mobile radio interface layer 3 specification".
[50]	3GPP TS 24.080: "Mobile radio interface layer 3 supplementary services specification; Formats and coding".
[51]	3GPP TS 29.002: "Mobile Application Part (MAP) specification".
[52]	ITU-T Recommendation Q.773: "Signalling System No. 7 - Transaction Capabilities Formats and Encoding".
[53]	ITU-T Recommendation X.880: "Information Technology - Remote Operations: Concepts, Model and Notation".

- [54] IETF RFC 3095: "RObust Header Compression (ROHC): Framework and four profiles: RTP, UDP, ESP, and uncompressed".
- [55] 3GPP TS 34.022: "Radio Link Protocol (RLP) for circuit switched bearer and teleservices".

3 Definitions and abbreviations

3.1 Definitions

For the purposes of the present document, the terms and definitions given in 3GPP TS 34.123-1 [1] apply.

3.2 Abbreviations

For the purposes of the present document, the abbreviations given in 3GPP TS 34.123-1 [1], 3GPP TS 24.008 [9], 3GPP TS 25.331 [21] and TR 101 666 [27] apply.

4 Requirements on the TTCN development

A number of requirements are identified for the development and production of TTCN specification for 3GPP UE at Uu interface.

- 1. Top-down design, following 3GPP TS 34.123-1 [1], 3GPP TS 34.108 [3] and 3GPP TS 34.109 [4].
- 2. A unique testing architecture and test method for testing all protocol layers of UE.
- 3. Uniform TTCN style and naming conventions.
- 4. Improve TTCN readability.
- 5. Using TTCN-2++ (TR 101 666 [27]) for R99, Release 4, Release 5 and Release-6, avoid the use of the TTCN 2 features TTCN 3 does not support.
- 6. TTCN specification feasible, implementable and compilable.
- 7. Test cases shall be designed in a way for easily adaptable, upwards compatible with the evolution of the 3GPP core specifications and the future Releases.
- 8. The test declarations, data structures and data values shall be largely reusable.
- 9. Modularity and modular working method.
- 10. NAS ATS should be designed being independent from the radio access technologies.
- 11. Minimizing the requirements of intelligence on the emulators of the lower testers. Especially the functionality of the RRC emulator in the TTCN tester should be reduced and simplified, the behaviours should be standardized as the TTCN RRC test steps in the TTCN modular library.
- 12. Giving enough design freedom to the test equipment manufacturers.
- 13. Maximizing reuse of ASN.1 definitions from the relevant core specifications.

In order to fulfil these requirements and to ensure the investment of the test equipment manufacturers having a stable testing architecture for a relatively long period, a unique testing architecture and test method are applied to the 3GPP UE protocol tests.

5 ATS structure

The total TTCN specification for the UE testing is structured in a number of separate layered ATSs. The number of ATS being produced corresponds to the number of the 3GPP core specifications referred. The separation of ATSs reduces the size of ATSs. The layer-specific test preambles and test data can be confined to one test suite and parallel development of test suites can be facilitated. The separation of ATSs enables also easily to follow the evolution of the core specifications.

- NAS ATSs:
 - 1) GSM MAP L3 ATS including MM, CC, GMM, SM test groups;
 - 2) SMS ATS;
 - 3) A-GPS ATS
- AS ATSs:
 - 1) RRC ATS including Singlecell and multicell test group;
 - 2) RLC ATS;
 - 3) MAC ATS;
 - 4) BMC ATS;
 - 5) PDCP ATS;
 - 6) RAB ATS;
 - 7) IR_U ATS;
 - 8) HSD_ENH ATS (Rel-5 or later);
 - 9) HSU_ENH ATS (Rel-6 or later).

5.1 Modularity

The modular TTCN approach is used for the development of the 3GPP ATS specification work. Three modules, BasicM, RRC_M and L3M are installed.

5.1.1 Module structure

The module structure is shown in figure 1.

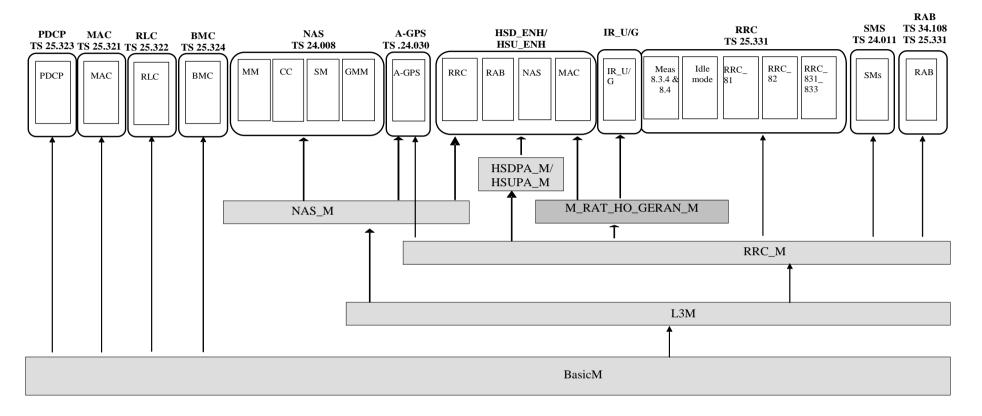


Figure 1: Module structure

The BasicM (**Basic M**odule) is a minimum module commonly for the layer 2 and layer 3 testing. The L3M (**L**ayer **3 M**odule) contains all the items to be shared by the RRC, NAS,SMS, RAB, IR_U/G, A-GPS, HSD_ENH and HSU_ENH ATSs. NAS is applied to the NAS, A-GPS, HSD_ENH and HSU_ENH ATSs. The RRC_M is a module containing common object for RRC, RAB, IR_U/G, SMS, A-GPS, HSD_ENH and HSU_ENH ATSs.

5.1.2 Contents of the modules

The BasicM module includes objects related to the RRC, the layer 2 and the physical layer. It includes also all test steps needed by the layer 2 and layer 3 test cases for configurations and all objects related to the definition of the steps:

- Common test steps and default test steps defined as generic procedures in 3GPP TS 34.108 [3];
- RRC declarations related to the steps: types, timers, PDU types, ASP type, PCOs, TSOs, constants;
- Related ICS and IXIT parameters needed for testing and respectively defined in 3GPP TS 34.123-2 [2] and the present document;
- Defaults constraints based on the default message contents defined in 3GPP TS 34.108 [3];
- MMI PCO and ASPs;
- All TTCN objects related to the SS configuration, e.g. PCOs, declaration of the components.

The L3M module includes the NAS configuration steps and all related TTCN objects:

- Common test steps and default test steps defined as generic procedures in 3GPP TS 34.108 [3];
- NAS declarations related to these steps: types, PDU, ASP, PCOs, TSOs, constants;
- Related ICS and IXIT parameters needed for testing and respectively defined in 3GPP TS 34.123-2 [2] and the present document;
- Default constraints based on the default message contents defined in 3GPP TS 34.108 [3].

The RRC_M module includes the RRC steps common to RRC and RAB test cases and all related TTCN objects.

5.1.3 Example of a working platform

Figure 2 shows the working platform for the user that is writing the SMS test cases.

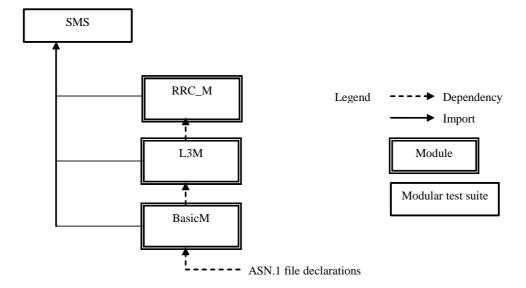


Figure 2: An example of working platform for SMS

6 Test method and testing architecture

6.1 Test method

The distributed single party test method is used for the UE testing. The lower tester configures the emulator and communicates with the UE under test via the emulator. An upper tester interfaces UE as (E)MMI.

All common parts in 3GPP TS 34.108 [3], 3GPP TS 34.109 [4] and 3GPP TS 34.123-2 [2] are developed in a TTCN library including the declarations, default constraints, preambles and postambles. They have the following characteristics:

- Very complex;
- Worked in different layers;
- Including data representing the radio parameters for SS setting and the data representing the UE capabilities (PICS parameters);
- Including the generic procedures to bring the UE into certain test states or a test mode (C-plane);
- Setting RABs at U-plane and SRBs in C-plane;
- Being used by every test cases no matter which layer the test case belongs to;
- No affect on the test verdict of PASS or FAIL.

The layer-specific test cases have the characteristics:

- relatively simple and straight forward;
- having narrow test scope and test purposes;
- test scenarios in a single layer (one PCO);
- assigning the test verdict.

6.2 Testing architecture

A unique testing architecture is shown in figure 3.

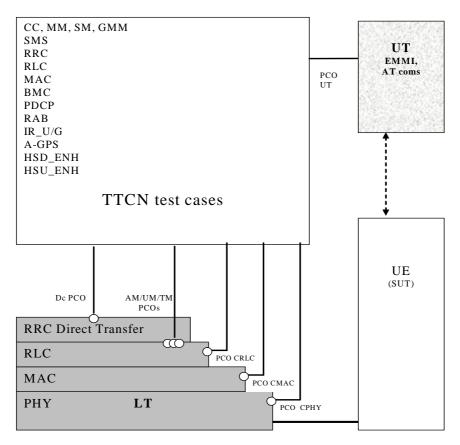


Figure 3: A unique testing architecture

6.2.1 Lower Tester (LT)

The Lower Tester (LT) provides the test means for the execution of the test cases for CC, SM, MM, GMM, SMS, RRC, RLC, MAC, PDCP, BMC, RAB, IR_U/G, A-GPS, HSD_ENH or HSU_ENH. The LT provides also the RLC, MAC and PHY emulators to communicate with the UE. The configuration and initialization of the emulators are control by the TTCN via ASPs.

6.2.2 Configuration and initialization

A number of TTCN test steps are designed for the generic setting.

- 1) Configuration of L1 of the tester, such as the cells, Physical channels and common transport channels via CPHY-PCO, configuration of MAC via CMAC-PCO and configuration of RLC layer via CRLC-PCO.
- 2) Sending system information via TR-PCO.
- 3) Establishment RRC connection via AM or UM-PCO.
- 4) Assigning a radio bearer via AM-PCO.
- 5) MM/GMM registration via Dc-PCO.
- 6) Establishment of a CS call or a PDP context via Dc-PCO.
- 7) Setting security parameters and control of integrity via CRLC- and ciphering via CRLC- and CMAC-PCO.

6.2.3 Upper Tester (UT)

An Upper Tester (UT) exists in the test system. The UT interfaces toward UE with any optional EMMI (3GPP TS 34.109 [4], clause 7). TTCN communicates with the UT by passing coordination primitives via a Ut PCO. The primitives can either contain AT commands aiming at the automatic tests, or some informal commands as MMI, in order to request the UE for certain actions and to provide simple means for observations of UE.

6.2.4 TTCN

TTCN is used as specification language based on TR 101 666 [27] (TTCN 2++). The importation of ASN.1 modules and modular TTCN are two of the most important features used in the design of the ATSs.

The TTCN test suites have been designed to maximize the portability from the language TTCN 2 to TTCN 3.

6.2.5 Model extension

If a test case needs to handle a concurrent situation two or more LTs can be configured at the same time. The following test scenarios identified may require multiple testers in the test configuration.

6.2.6 Multiplexing of RLC services

For the RRC and NAS testing, the TTCN RRC test steps (on RB1 and RB2) and the RRC emulator (on RB3 and RB4 for the NAS messages) share the same service access point (AM SAP). The RLC emulator shall provide separate message queues (buffers) for the TTCN RRC test steps and the RRC emulator for the TTCN NAS test cases, according to the signalling radio bearer identities.

6.3 NAS test method and architecture

6.3.1 Test configuration

The NAS test method is shown in figure 4.

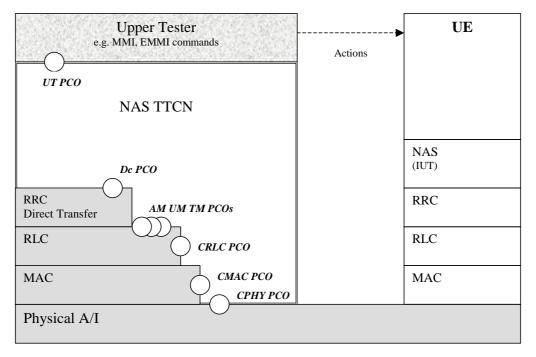


Figure 4: NAS testing architecture

The single layer distributed test method is used.

The Point of Control and Observation (PCO) are defined as the Dc (Dedicated control) SAP. The NAS test verdicts are assigned depending on the behaviours observed at the PCO.

The TTCN tester provides the NAS TTCN test cases and steps with a simple RRC direct transfer function which buffers the NAS PDU data, converts the data from the NAS TTCN table format into ASN.1, or in reverse way, and delivers all lower layer services of AM-SAP for RB3 and RB4.

The NAS TTCN test cases make also intensively use of the RRC TTCN test steps, in order to:

- Configure, initialize and control the L2 emulator;
- Initialize the UE for testing.

The RRC test steps, which are called by the NAS test cases or steps, interface with the RLC PCOs (UM, AM and TR), the control PCOs CRLC, CMAC and CPHY.

The General control (Gc) SAP and the Notification (Nt) SAP are not applied. Messages exchanged via these SAPs will be replaced with the corresponding RRC TTCN test steps.

The Ut PCO (so called logical interface [4]) is served as the interface to the UE EMMI to allow a remote control of operations, which have to be performed during execution of a test case such as to switch the UE on/off, initiate a call, etc.

6.3.2 Routing UL NAS massages in SS

The UL NAS messages are embedded in RRC messages INITIAL / UL DIRECT TRANSFER. In the UE test, the received UL NAS messages can either be routed to the Dc PCO and verified at the NAS message level, or routed to AM PCO and verified at the RRC message level.

- 1) RBid =3 at the SS side indicates that the UL NAS high priority messages to be routed to Dc PCO. RB3 applies to RRC_DataInd/Req.
- 2) RBid=-16 at the SS side indicates the received messages to be routed to RLC AM PCO. RB-16 applies to RLC_DataInd/Req.

The RB3 and RB-16 do not coexist. The TTCN writer uses the MAC and RLC reconfigurations to re-map the RB and the corresponding logical channels. If RB3 has been configured, but a test case needs to re-map the logical channel from RB3 to RB-16 the following way is to replace RB3 with RB-16.

- CMAC_CONFIG_REQ (reconfiguration, RB-16).

Re-mapping on RB-16 which appears in the transport channel and logical channel mapping list.

- CRLC CONFIG REQ (reconfiguration, RB-16).

RB-16 appears in the routing info, in order to replace the original mapping on RB3.

Mapping from RB-16 to RB3 is done in the reverse way.

6.4 RRC and RAB test method and architecture

6.4.1 Test configuration

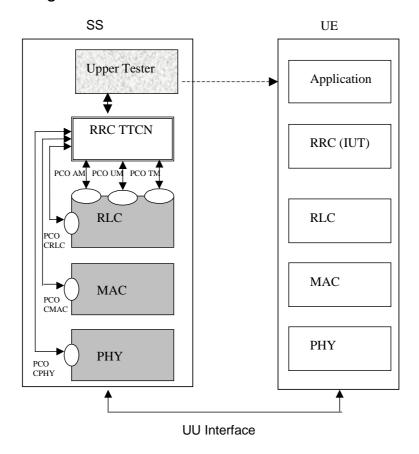


Figure 5: RRC testing architecture

The single layer distributed test method is used.

The PCOs are defined as the AM (Acknowledged Mode), UM (Unacknowledged Mode) and TM (Transparent Mode) SAPs. The RRC test verdicts are assigned depending on the behaviours observed at the PCO. The RRC TTCN interface also with the control PCOs CRLC, CMAC and CPHY, for the configuration, initialization and control of the System Simulator.

The RRC TTCN test cases also make use of the NAS TTCN test steps in order to:

- Bring UE to Idle state;
- Bring UE to state U10.

The NAS test steps, which are called by the RRC test cases or steps, interface with the Dc PCO.

The Ut PCO (so called logical interface [4]) is served as the interface to the UE EMMI to allow a remote control of operations, which have to be performed during execution of a test case such as to switch the UE on/off, initiate a call, etc.

According to 3GPP TS 25.331 [21], clause 12.1.1, the encoding of RRC PDUs is obtained by applying UNALIGNED PER to the abstract syntax value as specified in ITU-T Recommendation X.691 [28]. The two tables below show the declaration of the encoding rule and an example of the use in the definition of an RRC PDU.

Table 1: PER_Unaligned Encoding Rule

Encoding Rule Name	PER_Unaligned
Reference	ITU-T Recommendation X.691 [28]
Default	
Comments	Packet encoding rules (ITU-T Recommendation X.691 [28]) unaligned
	and with adapted padding

Table 2: Definition of the RRC ASN.1 DL_DCCH_Message type by reference

PDU Name	DL_DCCH_Message
PCO Type	DSAP
Type Reference	DL-DCCH-Message
Module Identifier	Class-definitions
Enc Rule	PER_Unaligned
Enc Variation	

6.4.2 RAB test method

6.4.2.1 Sending data on the same TTI

The RAB test requires a specific test method to send the test data on the same TTI. The TFC restriction method is used in this case. A specific TFC subset is allowed to ensure the test data are sent on different RBs on the same TTI. The downlink restriction can be used to ensure that the SS uses a specific TFC for transmission of data, by only allowing the "No data" TFC, and the "desired" TFC. It may also be necessary to include one or more "signalling only" TFCs to allow signalling to occur. The uplink restriction can be used to verify that the UE has used a specific TFC. Any data received by the SS using a forbidden TFCI shall be discarded.

6.4.2.2 Sending continuous data on consecutive TTIs

The RBS ATS is developed using the tabular TTCN notation. In order to test of multiple-RB combinations and simultaneous signalling, the SS shall be capable of sending continues test data in every TTI using the downlink transport format combination under test. A specific TSO is designed to request the SS sending continuous data. The information about the number of RLC SDUs and their sizes for each RAB will be provided to the system simulator through TSO.

6.5 RLC test method and architecture

6.5.1 Testing architecture

Figure 6 illustrates a typical realization of the RLC ATS.

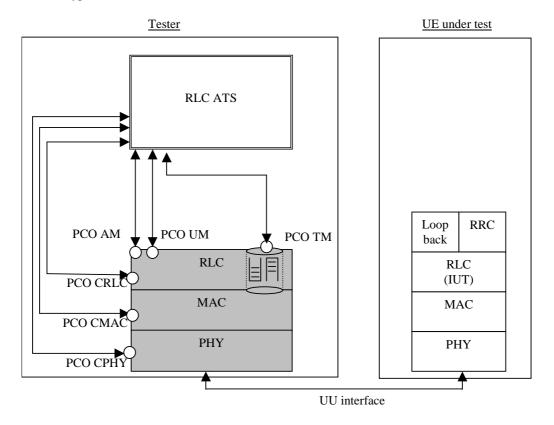


Figure 6: RLC ATS single party test method

The single party test method is used for RLC testing.

Separation of TTCN test cases from the configuration of the tester and initialization of the UE is achieved by using test steps. For each RLC test case, common test steps will be used to perform the configuration of the tester and the appropriate generic setup procedures as described in 3GPP TS 34.108 [3]. These test steps will make use of PCOs AM, UM, TM, CRLC, CMAC, and CPHY.

Three PCOs are provided at the top of the RLC emulation in the tester, one corresponding to each of the available RLC modes: acknowledged, unacknowledged, and transparent. Routing information for different radio bearers used at these PCOs will be provided in ASP parameters.

The queues shown in the RLC emulation in figure 6 indicate that normal RLC transmit and receive buffering will be used to isolate the TTCN test suite from the real time issues involved if messages are sent directly to the MAC layer.

The RLC TTCN test cases make also use of the NAS TTCN test steps in order to bring UE to Idle state. The NAS test steps, which are called by the RLC test cases or steps, interface with the Dc PCO.

6.5.2 Test method

Figure 7 illustrates an example configuration for downlink UM testing. Uplink and AM tests will use similar configurations. A Tr-Entity is established on the tester side using a CRLC-CONFIG-REQ. A corresponding UM-Entity is created in the UE by sending a Radio Bearer Setup PDU. RLC PDUs are specified in the TTCN test suite, and sent to TM PCO. These PDUs shall be carefully designed so that the Tr-Entity will not perform any segmentation. The system simulator is responsible for direct encoding the abstract representation of transmitted PDUs into a bitstring to be sent by the Transmitting Tr entity. Direct encoding is performed by concatenation of all of the present fields in the abstract representation. It is the TTCN author's responsibility to ensure that the PDU is valid. To test reassembly in the UE side, the segmentation must be explicitly coded in TTCN. To test various aspects of the RLC header (e.g. sequence numbering, length indications, etc.), the RLC header must be explicitly coded in TTCN. Ciphering will not be tested using this approach, and will be disabled in the UE UM Entity.

The segmentation block in the SS Tr-entity is shown in grey to indicate that the functionality is present in the SS, but the test cases shall be carefully designed to ensure that segmentation is not used in the SS Tr-entity for RLC testing.

The deciphering block in the UE UM-entity is shown in grey to indicate that the functionality may be present in the UE, but shall be disabled for RLC testing.

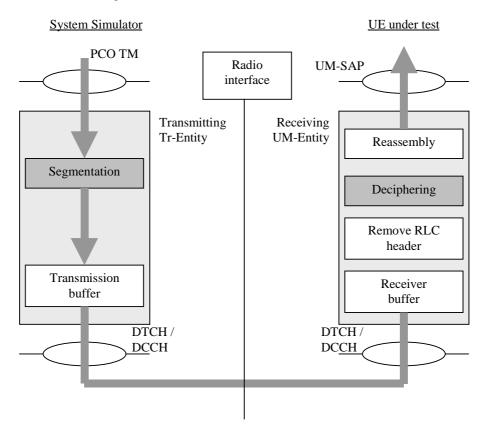


Figure 7: Example configuration for downlink RLC UM testing

The TFCS used for RLC testing must guarantee that Tr mode segmentation will not occur. This is to prevent transmission of more than one Tr PDU per TTI.

All RLC tests that require uplink data will make use of the UE test loop mode 1 defined in 3GPP TS 34.109 [4]. The UE test loop mode 1 function provides all Upper Tester (UT) functionality required, so an UT PCO is not required for RLC tests. Test Loop mode 1 is only available in the user plane, so all RLC tests will be performed in the user plane, using DTCH and DCCH logical channels mapped to DCH transport channels.

Ciphering will be disabled for all RLC test cases. Ciphering will be tested implicitly by other test cases that have ciphering enabled.

Figure 8 illustrates an example configuration for uplink UM testing, and reception of an example UMD PDU. Figure 9 illustrates an example configuration for uplink AM testing, reception of an example STATUS_PDU, and the use of the superFields and superFieldsRec fields.

The ciphering and deciphering blocks in the UE RLC entities are shown in grey to indicate that the functionality may be present in the UE, but shall be disabled for RLC testing.

The reassembly blocks in the SS Tr-entities are shown in grey to indicate that the functionality is present in the SS, but the test cases shall be carefully designed to ensure that reassembly is not used in the SS Tr-entity for RLC testing.

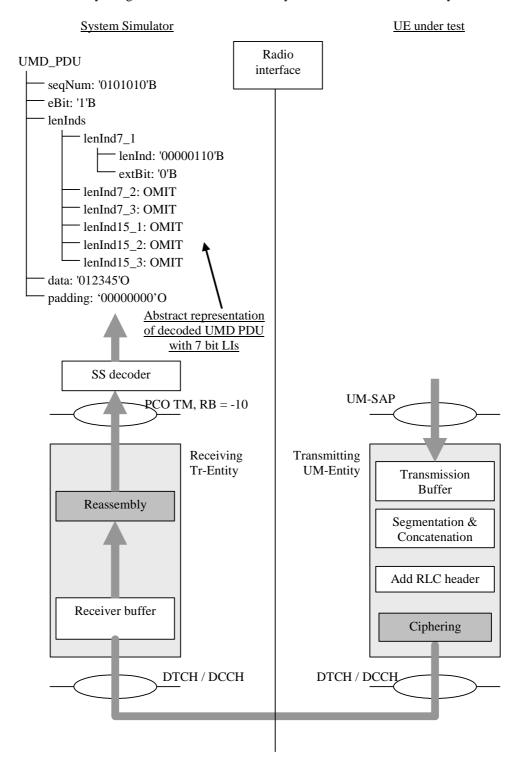


Figure 8: Example configuration for uplink RLC UM testing

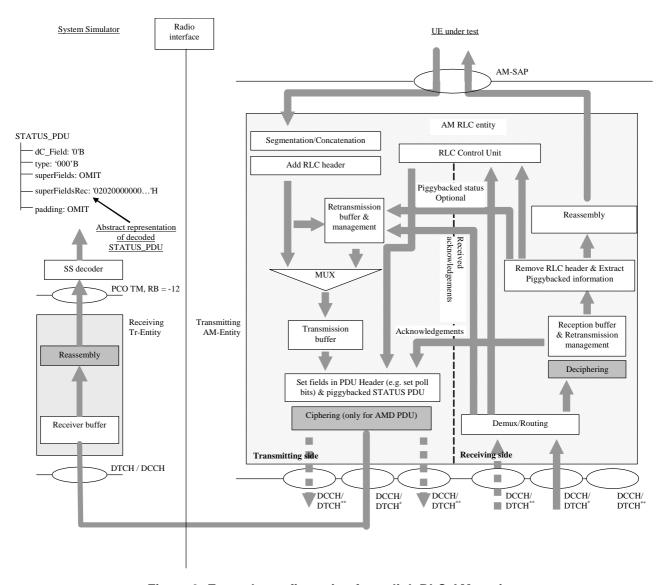


Figure 9: Example configuration for uplink RLC AM testing

Uplink data uses a similar approach to downlink, but the received data must be decoded in the correct way, depending on the current UE configuration. In the example in figure 8, the SS must decode the data received at the TM PCO into an abstract representation of the structure defined in the TTCN for a UMD_PDU, using 7 bit length indicators. This structure is then compared with an abstract representation of the expected data to see if the receive event is successful. Refer to TR 101 666 [27], clause B.5.2.10 for more information.

For RLC testing, the following RB Ids are used within the system simulator, depending on the RLC mode, and length indicator size being simulated.

RLC mode	LI Size	RB Id
UM	7	-10
UM	15	-11
AM	7	-12
AM	15	-13

The SS decoder can use the RB Id to determine which abstract structure to create during the decode process. The SS decoder must also understand the RLC peer-to-peer protocol enough to determine which fields are present.

EXAMPLE 1: The semantics of LI extension bits must be known to determine how many LIs are present.

EXAMPLE 2: The contents of the LIs must be interpreted to determine how many octets of data, and how many octets of padding are present.

The SUFI list and any subsequent padding in a received STATUS_PDU or PiggyBackedSTATUS_PDU shall be decoded as a HEXSTRING, and put in the 'superFieldsRec' field of the abstract representation of the STATUS PDU. The "superFields" and "padding" fields shall be omitted for received STATUS PDUs. This is illustrated in figure 9.

As in downlink testing, the TFCS must be defined to guarantee that the Tr entity does not perform any reassembly. This is to prevent reception of more than one Tr PDU per TTI so that the TTCN does not need to manage possible interleaving problems due to multiple PDUs received at the same time (i.e. they may be placed on the PCO queue in any order).

6.5.2.1 Handling SUFIs in TTCN

The SUFIs are a very flexible set of information elements contained in the RLC protocol. The order of the fields varies, the existence of a field may depend upon the presence of another one. A field can be present multiple times. For matching received SUFIs, it is convenient to define the SUFIs as a HEXSTRING which is treated by a TSO **o_SUFI_Handler**.

Depending upon which SUFIs and which aspects of SUFIs are to be checked, the TSO is provided with the information (SUFI_Params) on what checking it is expected to perform. If the check is successful the result TRUE will be returned, otherwise FALSE. Additionally the TSO will return an object which is structured as the SUFIs used in transmission (SuperFields). This will allow to make use of information received and needed to establish SUFIs to be transmitted.

The input parameters to **o_SUFI_Handler** to be used as checking criteria are collected in tabular data structure **SUFI_Params** which is filled each time before the TSO is called. These data are to allow the checking of the presence and the value of SUFIs. All entries shall be set to well-defined values if these are to be used by **o_SUFI_Handler**. As a principle values specifically set are used as criteria for checking, values omitted are used as AnyOrOmit values. The resulting SUFI list is established by **o_SUFI_Handler** and can be retrieved in the data structure returned by the TSO. Details have to be defined in the TSO itself.

Tasks o SUFI Handler has to perform:

- Transfer the SUFIs received into the structure of SuperFields; this is the SUFI list structure existing today.
- If multiple occurrences of SUFI are found then use the **last** one to fill the SuperFields structure. The LIST SUFI is an exception: multiple SUFIs may be used to transfer the complete LIST information.
- Check for all parameters in SUFI_Params set to a specific expected value that one of the SUFIs using this value is present and that the value received matches the specific expected value.
- Check that if SUFIs are received for which an expected value of Any is specified, the SUFI is consistent if that SUFI is received.
- Check that if SUFIs are received for the presence of which no entry is specified in SUFI_Params, the SUFI is consistent.
- Check that sequence numbers are in the range between LB and UB if specific values are set.

Entries in **SUFI_Params**.

Element Name	Significance	Comment
LB	Lower bound of sequence number range	Lowest SN for checking SNs acknowledged
UB	Upper bound of sequence number range	Highest SN for checking SNs acknowledged
WSN_presence	Window Size SUFI present	To check the presence of the Window Size SUFI
MRW_presence	Move Receive Window SUFI present	To check the presence of the MRW SUFI
Nack1	SN of 1 st PDU negatively acknowledged	For the NackList to check SN to be negatively acknowledged
Nack2	SN of 2 nd PDU negatively acknowledged	For the NackList to check SN to be negatively acknowledged
Nack3	SN of 3 rd PDU negatively acknowledged	For the NackList to check SN to be negatively acknowledged

More entries may be required in the future if specific SUFI field values are to be checked. The concept allows to add more fields easily.

6.5.2.2 Void

6.6 SMS test method and architecture

6.6.1 SMS CS test method and architecture

The test method used for SMS CS tests is the same as the NAS test method, see clause 6.3, and the same ASPs, see clause 7.1.2.

6.6.2 SMS PS test method and architecture

The test method used for SMS PS tests is the same as the NAS test method, see clause 6.3, and the same ASPs, see clause 7.1.2.

6.6.3 SMS Cell broadcasting test method and architecture

The test method used for SMS CB tests is the same as the BMC test method, see clause 6.8, and the same ASPs, see clause 7.3.1.1.

6.7 MAC test method and architecture

6.7.1 Testing architecture

Figure 10 illustrates a typical realization of the MAC ATS.

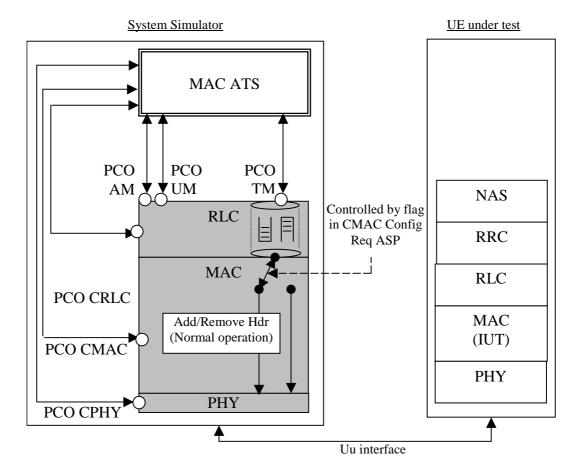


Figure 10: MAC ATS single party test method

6.7.2 Test method

The single party test method is used for MAC testing.

Separation of TTCN test cases from the configuration of the tester and initialization of the UE is achieved by using test steps. For each MAC test case, common test steps will be used to perform the configuration of the tester and the appropriate generic setup procedures as described in 3GPP TS 34.108 [3]. These test steps will make use of PCOs AM, UM, TM, CRLC, CMAC, and CPHY.

Three PCOs are provided at the top of the RLC emulation in the tester, one corresponding to each of the available RLC modes: acknowledged, unacknowledged, and transparent. Routing information for different radio bearers used at these PCOs will be provided in ASP parameters.

The queues shown in the RLC emulation in figure 8 indicate that normal RLC transmit and receive buffering will be used to isolate the TTCN test suite from the real time issues involved if messages are sent directly to the MAC layer.

A flag is required within the CMAC Config Req to indicate that the SS MAC emulation must not add or remove any MAC header information, even if header fields should be present according to the configured channels. This flag shall allow control of the MAC header on a per logical channel basis. For example, it shall be possible to configure 4 DCCHs and a DTCH mapped to a DCH, such that the MAC will add / remove header information for the DCCHs, but not for the DTCH.

The MAC TTCN test cases make also use of the NAS TTCN test steps in order to bring UE to Idle state. The NAS test steps, which are called by the MAC test cases or steps, interface with the Dc PCO.

For MAC testing, the following RB Ids are used for the high priority NAS RB within the system simulator depending on the MAC configuration being simulated.

RB Id	Simulated configuration
-14	DCCH mapped to FACH
-15	DCCH mapped to DCH
-18	CCCH mapped to FACH

The SS decoder can use the RB Id to determine which MAC header fields are present, and create the appropriate abstract structure during the decode process. The SS decoder must understand enough of the MAC peer-to-peer protocol to determine which fields are present.

For example, the semantics of the UE Id Type field must be known to determine how many bits should be present in the UE Id field.

The MAC PDUs for MAC testing will always contain an AM RLC PDU (data or status) using 7 bit length indicators. See the RLC test method for further information on the SS decoder requirements for RLC PDUs.

Ciphering shall be disabled for all MAC tests.

6.7.2.1 Abnormal decoding situations

If the SS decoder cannot convert the received data into the supported structure, the SS shall terminate the test case immediately and indicate that a test case error has occurred.

6.7.2.2 MAC_es/e test method (Rel-6 or later)

MAC test method for MAC_es/e is depictured in the following figure. In the UE side the RLC entity is AM mode, in the SS the mode of RLC in downlink direction is TM, the AM mode functions are implemented in TTCN. In the uplink direction, only the mapping between RB identity and logical channel identity (i.e. the sS_rlc_Info in RBInfo is OMITTED) is configured in the RLC entity, the RLC entity passes any data block received on the logical channel to the RB identified by tsc_RB_DTCH_E_DCH_MAC(value is -20), tsc_RB_DTCH_E_DCH_MAC1(-21), or tsc_RB_DTCH_E_DCH_MAC2(-22). Whenever a RLC pdu received through one of the specified RB identifiers, the TTCN shall generate a RLC ack for it and send it on the downlink direction.

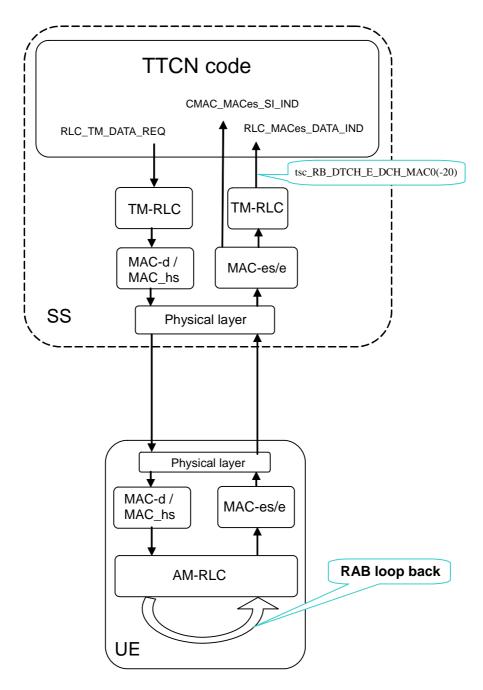


Figure 11: MAC_es/e testing model

6.8 BMC test method and architecture

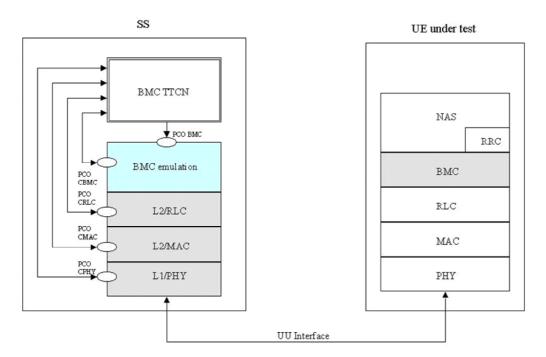


Figure 12: BMC testing architecture single party method

6.8.1 BMC test architecture

The single party test method is used for BMC testing, i.e. it does not exist an Upper Tester. BMC emulation is used as shown in figure 12. The BMC emulation makes use of two PCOs. The CBMC PCO is defined, to pass configuration information for a BMC entity. The BMC PCO is defined for BMC message data transfer.

Separation of TTCN test cases from the configuration of the tester and initialization of the UE is achieved by using test steps. For BMC test cases, common test steps and newly defined test steps for BMC configuration will be used to perform the configuration of the tester and on UE side. These test steps make use of PCOs, CRLC, CMAC, and CPHY.

The UE shall be able to activate and deactivate a certain CB MessageID according CB data to be sent while testing.

BMC messages are sent in BMC message blocks on the CTCH. For sending BMC messages (BMC Scheduling Message (Level 2, DRX) and BMC CBS Message) a configuration in downlink direction shall be performed to map the CTCH (RB#30) onto the FACH - S-CCPCH.

6.8.2 BMC test method

For BMC testing, only PS Cell Broadcast Service as distributed BMC service is applied. CBS Messages and BMC Schedule Messages are only sent in downlink direction. No uplink is used for BMC testing. The BMC test data with necessary CBS information shall be given by PIXIT parameter with a description of the indication on the display.

This test method uses BMC primitives as defined in 3GPP TS 25.324 [20]. There are two level of BMC scheduling, Level 1 for CTCH configuration and Level 2 for DRX. The BMC scheduling information is conveyed to both BMC and MAC layer.

Level 1 scheduling is used configure the CTCH on the S-CCPCH. For BMC testing Release 99 (FDD), the Level 1 scheduling parameter M_{TTI} contains one radio frame in the TTI of the FACH used for CTCH. Therefore, only Level 1 scheduling information N (period of CTCH allocation on S-CCPCH) and K (CBS frame offset to synchronize to the SFN cycle (0 to 4 095 frames per cycle)) are necessary to configure the CTCH onto the S-CCPCH.

The Level 1 scheduling is done in the SS MAC layer, therefore this information is given by using the primitive "CMAC_BMCscheduling_REQ" to inform the MAC on SS side about K and N. The Level 1 scheduling information, K and N, is broadcast as system information in SIB 5 and SIB 6. After having performed the CTCH configuration as Level 1 scheduling, the SS is configured to send BMC messages and the UE has to listen to each CTCH for a BMC message.

Segmentation of BMC messages is performed by RLC in UM. A RLC segment shall contain BMC message payload as configured in RB#30 with a maximum number of 57 octets. The 57 octets payload is used to calculate the BMC inband scheduling Level 2 in the BMC TTCN (TSO).

If only one CB data as BMC CBS message is sent and repeated for a BMC test case, Level 1 scheduling is adequate, i.e. no BMC Scheduling Message (Level 2) is needed. Therefore, no level 2 scheduling information are included in the "CMAC_BMCscheduling_REQ" primitive. If more then one BMC CBS message are transmitted and repeated, BMC scheduling Level 2 message shall be performed.

Level 2 scheduling is used to predict the sent event of the next BMC message blocks and the BS index contents.

BMC scheduling Level 2 predicts exactly, which information is contained on a certain CTCH block set with an aligned Block Set index number and how many spare CTCH blocks are given as offset, before the next BMC message block will be sent. Figure 13 shows an example, how the message flow shall be done for BMC scheduling Level 2.

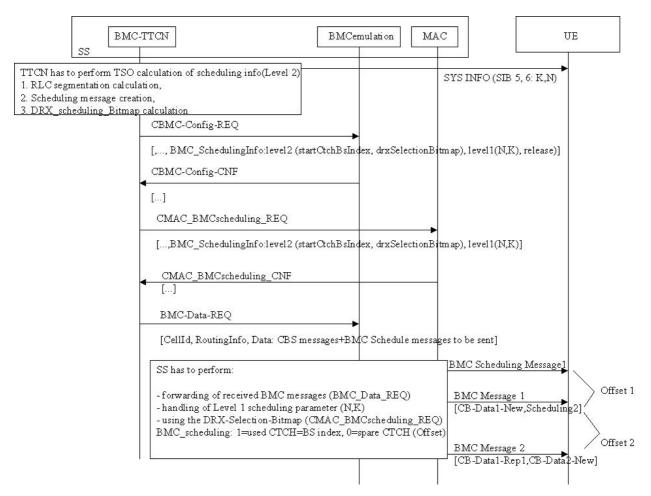


Figure 13: BMC Scheduling

The BMC test method makes use of the primitive: "BMC-Data-REQ" to transmit the BMC Messages to RLC. If BMC Scheduling Level 2 is used, an entire BMC message, including BMC CBS PDUs and a BMC Schedule PDU, to be transmitted is created by the BMC TTCN and forwarded to the BMC emulation. The transmission of BMC PDU is confirmed through the primitive BMC-Data-CNF. The segmentation of the BMC PDU is done at the RLC layer.

According to the K and N value, the MAC layer at SS side determines the CTCH blocks for the BMC use. The CTCH blocks are indexed ($i=1\dots 256$). If BMC DRX is needed, the BMC scheduling Level 2 information figures out the occupancy / spare of the available CTCH blocks by using a DRX_Selection_Bitmap. In the bitmap each bit, set to '1', corresponds to an actually available CTCH block belonging to the DRX period for the SS transmission. The all occupied consecutive CTCH blocks constitutes a BMC DRX period, whilst the consecutive spared blocks indicate the DRX offset as spare CTCH slot.

Following the DRX_Selection_Bitmap, the segmented BMC messages are transmitted. Each "BMC-Data-REQ" primitive has its own aligned "CMAC_BMCscheduling _REQ" primitive, where all BMC scheduling information is predicted. An initial CTCH block index is given (startCtchBsIndex) as a start index offset.

An octet string is defined whereas each bit describes one assigned CTCH block, i.e. one BS index on the S-CCPCH.

Bitmap value:

- 1 (binary) = indicates a used/occupied BS index (CTCH frame, with a payload size of 57 octets) to send BMC message segments for a message block.
- 0 (binary) = indicates a spare BS index, i.e. unused CTCH frame, to give an UE supporting DRX the necessary information.

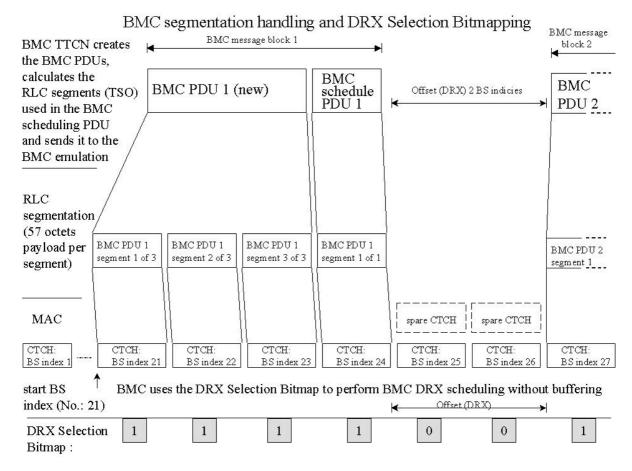


Figure 14: BMC DRX scheduling: segmentation handling

6.9 PDCP test

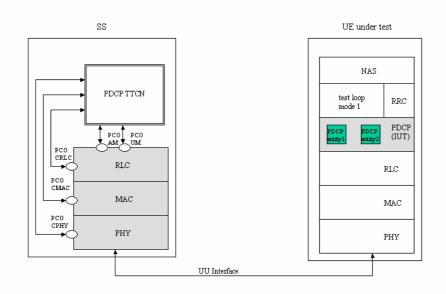


Figure 15: PDCP testing architecture 1: single party test method, with test loop mode 1

6.9.1 PDCP test architecture

The single party test method is used for PDCP testing. All PDCP tests that require uplink data will make use of the UE test loop mode 1 defined in 3GPP TS 34.109 [4]. Test Loop mode 1 is only available in the user plane, so all PDCP tests will be performed in the user plane, using the same logical channels mapped to transport channels as defined in RLC test cases, except for test case, clause 7.3.2.2.4, where a configuration of combined radio bearers used only for this test case is defined.

Separation of TTCN test cases from the configuration of the tester and initialization of the UE is achieved by using test steps. For PDCP test cases, common test steps and newly defined test steps for PDCP configuration will be used to perform the configuration of the tester and the appropriate generic setup procedures as described in 3GPP TS 34.108 [3] and in clause 7.4 of 3GPP TS 34.123-1 [1]. These test steps will make use of PCOs RLC AM, RLC UM, CRLC, CMAC, and CPHY.

The PDCP TTCN test cases make also use of the NAS TTCN test steps in order to setup a PS session.

For PDCP testing, the IP Header Compression protocol as described in RFC 2507 [30] is used as optimization method. The IP header compression and decompression mechanisms as described in RFC 2507 [30] is not part of PDCP TTCN. PDCP testing make use of uncompressed, compressed and decompressed TCP/IP header packets of a certain packet stream and uncompressed, compressed and decompressed UDP/IP header packets of a certain generation. This parameters are given as test parameter (PIXIT information).

PDCP testing includes transmission/reception of compressed/decompressed IP header packets, PDCP sequence numbering while lossless SRNS relocation and PID assignment rules as well as PDCP configuration tests as described in 3GPP TS 25.323 [19], Release 99. It does not test optimization specific protocol behaviour as error recovery and packet reordering as described in RFC 2507 [30].

6.9.2 PDCP test method

For PDCP testing, the RB test mode is used with test loop mode 1. After establishing a PS session with RB in RLC UM or/and AM, the UE is configured to support a negotiated PDCP configuration. UDP/IP header packets are used as Non-TCP/IP header packets as PDCP test data.

There are different input parameter as PIXIT values necessary for PDCP testing.

For TCP/IP header packets, uncompressed TCP/IP header packets shall be defined as PIXIT input parameter. In addition, there are the corresponding RFC 2507 [30] FULL_HEADER packet, COMPRESSED_TCP packet and COMPRESSED_TCP_NONDELTA packet given for each TCP/IP header packet as PIXIT information.

For UDP/IP header packets, uncompressed UDP/IP header packets shall be defined as PIXIT input parameter. In addition, there are the corresponding RFC 2507 [30] FULL_HEADER packet and COMPRESSED_NON_TCP packet given for each UDP/IP header packet as PIXIT information.

To check the use of certain PID values assigned to IP compressed header types, a given IP header packet (PIXIT) will be sent to the UE. The UE shall return a appropriate valid IP header packet type, which corresponds to the previous sent IP header packet. The usage of valid compressed/uncompressed IP header packets shall be checked by comparing the given PIXIT IP header packet types for each IP header packet previously sent.

The IP header packet order as described in RFC 2507 [30] shall be applied within a test case.

If for example an TCP/IP header packet of type "COMPRESSED_TCP" shall be sent, the TTCN uses the given TCP/IP header packet (PIXIT) for transmission to the UE. The UE shall decompress the received packets appropriate, afterwards it will be returned by the loop back entity and it shall be sent by applying IP header compression rules as described in RFC 2507 [30] and as configured. Then, the SS receives returned IP header packets and compares it with all valid IP header packets given as PIXIT parameter corresponding to the previously sent IP header packet. It is checked, whether or not the IP header packet with assigned PID is valid and a configured PDCP PDU where used for transmission. In this way, it is checked, that the UE performs IP header compression as configured and is able to assign the correct PID values.

6.10 Multi-RAT Handover Test Model

6.10.1 Overview

The test model is shown in figure 16. The SS in the model consists of UTRAN emulation part and GERAN emulation part, GERAN emulation part includes protocol emulation modules for GSM CS services and protocol emulation modules for GPRS service. Protocol stack L1 (GERAN), L2 is for GSM CS service function emulation, protocol stack L1, RLC/MAC, LLC, SNDCP is for GPRS service function emulation. SNDCP emulation model and relevant PCO's can be removed if "traffic channel gets through" is not tested.

L1 (GERAN) provides necessary physical layer functionality for both GSM and GPRS. A control PCO and a set of ASP's are defined for configuring and controlling its protocol behaviour required in the test cases. L1 (GERAN) provides services to L2 and RLC/MAC emulation modules, the interfaces between them are not specified in this test model, it is implementation dependent and shall follow the relevant GSM and GPRS specifications.

L2 emulates necessary GSM L2 protocol functionality used in testing. A data PCO and a set of ASP's are defined for this module and used for transmitting and receiving layer 3 signalling messages and use data. The definition of the PCO and these ASP's are based on the logical channel concept of GSM specification. A control PCO and related ASP's are also defined for L2, they are used to introduce abnormal layer 2 behaviour required by the test purposes.

RLC/MAC is emulation module for GPRS Radio Link Control/Medium Access Control protocol. Two PCO's and related ASP's are defined for the module. Control PCO is used to set TBF and assign physical resources to it, actual physical resources (packet channels) are created by L1 (GERAN) ASP's beforehand. Data PCO is for transmitting and receiving RLC control messages (RLC control block). Before any RLC data or control block, except RLC control block on PCCCH or PRACH, or PBCCH, is sent (or received) a proper TBF shall be configured. In addition RLC/MAC module provides service to LLC emulation module, the interface between them is determined by implementation and shall be compliant with relevant core specification.

LLC performs GPRS Logical Link Control protocol emulation. Its data PCO and ASP's are used for exchange GMM signalling messages between TTCN and the UE under test. The current defined ASP's on control PCO are subset of the primitives defined in core specification, they are used to assign, un-assign TLLI and ciphering parameters, or get status report.

6.10.2 ASP function description

6.10.2.1 Identities

- Within the SS, a cell is identified by cell identifier (cellId), which is of TTCN type CellId (INTEGER).
- Within a cell, a basic physical channel is identified by physical channel identifier (physicalChId), which is of TTCN type PhysicalChId (INTEGER). In multislot configuration a basic physical channel is identified by physical channel identifier (physicalChId) and timeslot, which is of TTCN type TN (INTEGER).
- Within a physical channel, logical channel is identified by logical channel type (g_LogicChType), which is of TTCN type G_LogicChType (INTEGER). When multiple logical channels of same type are carried by (mapped to) the same basic physical channel, they are differentiated by sub-channel number (subChannel), which is of TTCN type SubChannelNumber (INTEGER).
- At the top boundary of L2 emulation module two service access points (SAP) are available, they are identified by SAPI. SAPI=3 is used for short message service; SAPI=0 is used for L3 signalling messages and user data.

EXAMPLE: If G_L2_DATA_REQ ASP has the following parameter setting:

- cellId = tsc CellA;
- $sAPI = tsc_SAPI_0$;
- physicalChId = tsc_PhyCh0;
- g_LogicChType = tsc_SDCCH4; and
- sunChannel = tsc_SubChannel1;

it sends PDU on the SDCCH4(1) logical channel which is carried by the physical channel tsc_PhyCh0 in cell A.

6.10.2.2 Cell configuration and control

In GSM each base station has a base station identity code BSIC, it consists of network colour code and base station colour code (NCC + BCC). BSIC is continuously broadcasted on the SCH channel, and it shall be used as the training sequence code for broadcast and common control channels.

In the test model the function of G_CL1_CreateCell_REQ ASP is to create a cell and pass parameter BSIC to it. This ASP establishes the cell identifier which shall be used in the ASP's related to this cell.

This is the first step to configure L1 (GERAN) emulation module of the SS.

6.10.2.3 L1 (GERAN) configuration and control

Configuration and control functions identified for L1 (GERAN) of a cell are:

- creation of basic physical channels;
- creation of multislot configuration;
- release of basic physical channel;
- modifications of channel mode, ciphering parameters and transmission power level;
- reporting of L1 header of SACCH channel;
- pickup a frame in near future, which can carry L3 message.

6.10.2.3.1 Basic physical channel configuration

A basic physical channel uses a combination of frequency and time domain resources, therefore, the definition of a particular basic physical channel consists of a description in the frequency domain and a description in the time domain. In time domain the resource is called Time Slot, there are 8 time slots in one frame, numbered from 0 to 7. In frequency domain a basic physical channel may use only one frequency or may use multiple frequencies in frequency hopping.

Basic physical channel carrying FCCH + SCH + BCCH + CCCH (PCH, AGCH, RACH) or FCCH + SCH + BCCH + CCCH + SDCCH4 logical channels shall be located in time slot 0, and uses single frequency (non-hopping). The basic physical channel carrying additional BCCH, CCCH (PCH, AGCH, RACH) logical channels shall be located in time slot 2, 4, 6 and uses the same single frequency as the frequency used by the physical channel carrying FCCH, SCH.

GSM specification defines 24 permitted combinations of different logical channels, which can be mapped on to a basic physical channel. The combination defines which logical channels are carried by a basic physical channel, and it is also an indication of which modulation (GMSK or 8PSK) is used for the basic physical channel.

Training Sequence Code (TSC) is another parameter needed by physical channel. Common control and broadcast channel have to use BCC as its TSC.

Dedicated control channel and dedicated traffic channel need more parameters to configure. Parameter "Channel Mode" is needed to specify channel coding (therefore the user data rate). Ciphering related parameters are required to define the ciphering behaviour of the channel.

Common control channels need parameters to configure where in the 51-multiframe paging and access grant blocks are located.

Transmission power level is provided as per physical channel parameter, power level of each physical channel can be controlled independently.

The function of ASP G_CL1_CreateBasicPhyCh_REQ is to create a basic physical channel which has the required property defined by all the parameters mentioned above.

In the process of L1 (GERAN) configuration, calling the ASP is the next step after calling G_CL1_CreateCell_REQ.

6.10.2.3.2 Multislot configuration for circuit or packet switched channels

Multislot configuration for circuit switched connection consists of multiple circuit switched traffic channels, in L1 point of view these traffic channels are independent basic physical channels with the same frequency parameters (ARFCN or MA, MAIO, HSN) and the same training sequence code but located in different time slots, one of the basic physical channels is the main channel of the configuration carrying the main signalling (FACCH, SACCH, IACCH) for the configuration. The main channel shall be bi-directional channel and with channelCombanition TCH/F+FACCH/F+SACCH/M or E-TCH/F+E-IACCH/F+E-FACCH/F+E-SACCH/M. When transmitting user data (not signalling message) stream is divided into substreams, each substream is transmitted independently on a channel in the configuration. At the receiving side all substreams are combined back to user stream.

According to the test model creation of a multislot configuration for circuit switched connection needs two ASP calls. Firstly, G_L1_CreatedBasicPhyCh_REQ is called to establish the main channel, then G_L1_CreateMultiSlotConfig_REQ is called to allocate more timeslots to the channel established by the previous ASP. A substream of a multislot configuration is identified with the physicalChId and timeslot.

Multislot configuration for packet switched connection consists of multiple PDCHs which can carry PDTCH/Us or PDTCH/Ds. All these PDCHs use the same frequency parameters (ARFCN or MA, MAIO, HSN) and the same training sequence code, but are located on different timeslots.

Similarly, a multislot configuration for packet switched connection is created with two ASP calls. First G_L1_CreatedBasicPhyCh_REQ is called to establish the first PDCH channel, then G_L1_CreateMultiSlotConfig_REQ is called to allocate more timeslots to the channel established by the previous ASP. All data ASP on packet data channel use physicalChId and timeslot to address the physical channels.

6.10.2.3.3 Frame in the near future

ASP G_CL1_ComingFN_REQ is defined to request L1 (GERAN) return the reduced frame number (FN modulo 42432) which is far enough in the future from current frame number and is able to carry L3 message on the specified channel. "far enough" means that there is enough time left for TTCN to prepare a L3 message to be sent on that frame. When calculating startingTime, this ASP could be useful. The starting time usually is set to a frame number in a time distance from current frame number. TTCN writer can use G_CL1_ComingFN_REQ to get a frame number in the future then add a certain number of frames as time distance to it and use the result as the value for startingTime.

6.10.2.3.4 L1 header

The layer 1 header of SACCH from UE to network carries information of timing advance and UE uplink transmission power level, verifying L1 header contents is required in some test cases, ASP G_CL1_L1Header_REQ and G_CL1_L1Header_CNF are defined for fulfilling this requirement.

6.10.2.4 L2 configuration and control

For normal operation there is no parameter configurable in L2. Some abnormal L2 behaviours are required in test cases. In the test model two ASP's are currently defined to introduce abnormal L2 behaviour. When creating a dedicated channel the initial SACCH header is set to the values in powerLevel and timingAdvance fields of DedCH_Info.

6.10.2.4.1 Don't response to some handover access bursts

In non-synchronized handover procedure UE/MS, having received handover command, sends handover access bursts on the target channel repeatedly till it receives PHYSICAL INFORMATION message from network or T3124 times out. Normally network replies PHYSICAL INFORMATION as soon as it receives handover access burst. Some test cases require that the SS ignores several incoming handover access bursts then responses to the one that follows. ASP G_CL2_HoldPhyInfo_REQ is defined for fulfilling this requirement. It is used together with and before a data ASP sending PHYSICAL INFORMATION message. When SS receives the G_CL2_HoldPhyInfo_REQ, it does not transmit the PHYSICAL INFORMATION message until n handover access bursts have been received.

6.10.2.4.2 No UA reply to SABM

GSM L2 protocol is adapted from LAPD (HDLC subset). The multiframe operation mode is established through exchange of supervisory frame SABM and unnumbered frame UA between peer entities, and SABM is always sent by UE/MS, UA is always sent by network. UE/MS will repeatedly transmit SABM till it receives UA or retransmission counter is reached. Some handover test cases require that the SS does not response to the incoming SABM, so handover fails. G_CL2_NoUAforSABM_REQ is used for such purpose, it commands the SS not to send UA response to the UE when SABM is received.

6.10.2.5 System Information sending

There are 17 different SYSTEM INFORMATION messages on BCCH and 4 different SYSTEM INFORMATION messages on SACCH defined for circuit switched services in GSM specification. In a particular test case not all of them are required. SYSTEM INFORMATION messages on BCCH shall be broadcasted periodically by the SS, SYSTEM INFORMATION TYPE 5, 6 and optionally 5bis and 5ter messages shall be sent on SACCH by the SS when nothing else has to be sent on that channel.

G_L2_SYSINFO_REQ is defined to deliver a SYSTEM INFORMATION message and its type SysInfoType to the SS, SS shall store the SYSTEM INFORMATION and transmit it periodically according to the scheduling rules specified in 3GPP TS 45.002 [31], clause 6.3.1.3. SYSTEM INFORMATION message newly delivered shall override the same type SYSTEM IFORMATION message previously stored in the SS.

SYSTEM INFORMATION message type 18, 19, 20 are scheduled by scheduling information in SYSTEM INFORMATION type 9. ASP for scheduling these messages has not been defined yet because these messages are not required in current test cases.

6.10.2.6 Paging

Paging message for a particular UE/MS shall be sent on the right CCCH_GROUP (or PCCCH_GROUP) and PAGING_GROUP which are determined by IMSI of the UE/MS and other parameters. In the test model TTCN code is responsible to calculate the value of CCCH_GROUP (or PCCCH_GROUP) and the value of PAGING_GROUP.

TTCN selects the right channel according to the value of CCCH_GROUP (or PCCCH_GROUP), then PAGING REQUEST message and the value of PAGING_GROUP are passed to the SS by using:

- ASP G_L2_Paging_REQ in case of UE/MS in idle mode or the UE/MS not supporting SPLIT_PG_CYCLE on CCCH when it is in GPRS attached mode and PCCCH is absent; or
- G_RLC_ControlMsg_REQ in case of UE/MS supporting 3GPP TS 45.002 [31], clause 6.5.6, when it is in GPRS attached mode and PCCCH is present.

The SS shall determine the position where the paging block is located using the value PAGING_GROUP and other CCCH (or PCCCH) parameters configured by G_CL1_CreateBasicPhyCH_REQ, then send the PAGING REQUEST message according the parameter pagingMode in the ASP:

- send the message on the paging block determined by PAGING_GROUP if pagingMode = "normal paging";
- send the message on the paging block determined by PAGING_GROUP and the "next but one" position on the PCH or in the third block period on PCCCH where paging may occur (PPCH) if pagingMode = "extended paging";
- send the message on all paging blocks if pagingMode ="paging reorganization".

6.10.2.7 Generic procedures for GPRS signalling

Two channel combinations are applied to configure a GERAN cell for the GPRS signalling:

- The channel combinations 5 + 13, (FCCH + SCH + BCCH + CCCH + SDCCH/4(0..3) + SACCH/C4(0..3)) + (PBCCH+PCCCH+PDTCH/F+PACCH/F+PTCCH/F), are considered as default at the interRAT tests.
- The channel combinations 5 + 11, (FCCH + SCH + BCCH + CCCH + SDCCH/4(0..3) + SACCH/C4(0..3)) + (PDTCH/F+PACCH/F), are applied to the clause 42.4.7.

The following generic procedures show the usages of GPRS ASP's for the GPRS generic attach procedures, the generic cell change order within a TBF and the GSM ciphering procedure.

6.10.2.7.1 GPRS generic attach procedures and ciphering mode control

6.10.2.7.1.1 GPRS attach procedure in channel combinations 5 and 13

Direction	ASP	message	Comments
SS	G_CL1_CreateCell_REQ		Create the cell
SS	G_CL1_CreateBasicPhyCh_REQ		Create the physical channel
			combination 5 for
			FCCH+SCH+BCCH+CCCH+SDCCH/
66	C CI 1 Croots Bosis Bhy Ch DEO		4(03)+SACCH/C4(03) Create the physical channel
SS	G_CL1_CreateBasicPhyCh_REQ		combination 13 for
			PDTCH/F+PACCH/F+PTCCH/F
SS -> MS	G L2 SYSINFO REQ	SYSTEM INFORMATION	Broadcast system information
		TYPE1, SYSTEM	messages : SI 1~4; SI 13
		INFORMATION TYPE2,	_
		SYSTEM INFORMATION	
		TYPE2quater, SYSTEM	
		INFORMATION TYPE3,	
		SYSTEM INFORMATION TYPE4, SYSTEM	
		INFORMATION TYPE13	
SS	G_CRLC_CreateRLC_MAC_REQ		Create RLC/MAC emulation entity
SS	G_CLLC_CreateLLE_REQ		Create LLC emulation entity
SS	MMI_CmdReq		Power on the UE/MS

Direction	ASP	message	Comments
MS-> SS	G_L2_ACCESS_IND	CHANNEL REQUEST	DAGIL TRE ALEL A SE
SS	C CDI C III TDE Confin DEO		RACH, TBF establishment with Establishment Cause = one phase packet access. Set up uplink TBF in RLC/MAC entity
33	G_CRLC_UL_TBF_Config_REQ		in SS, this TBF is corresponding to what indicated in IMMEDIATE ASSIGNMENT.
SS -> MS	G_L2_UNITDATA_REQ	IMMEDIATE ASSIGNMENT	Assign the uplink resources (uplink TBF) to MS. Polling bit and Starting Time are set
MS -> SS	G_RLC_ControlMsg_IND	PACKET CONTROL ACKNOWLEDGEMENT	
SS	G_CLLC_ Assign_REQ		Assign TLLI, ciphering key and algorithm. The ciphering algorithm = "ciphering not used". The value of ciphering key shall be the one generated in the following authentication procedure. If there is no user data traffic in acknowledged mode before authentication procedure the ciphering algorithm may be set to one of the GPRS ciphering algorithm, and the late G_CLLC_Assign_REQ shall be not used.
MS -> SS	G_LLC_UNITDATA_IND	ATTACH REQUEST	MS uses the assigned uplink TBF to transmit the L3 message to SS, the SS manages the operation of the TBF without TTCN intervention and releases the TBF automatically according the countdown procedure. The SS reassembles the received data blocks into the L3 message and passes it to the LLC DATA PCO G LLC.
SS	G_CRLC_DL_TBF_Config_REQ		Set up downlink TBF in RLC/MAC entity in SS
SS -> MS SS -> MS	G_L2_Paging_REQ G_LLC_UNITDATA_REQ	IMMEDIATE ASSIGNMENT AUTHENTICATION AND CIPHERING REQUEST	Downlink TBF establishment
MS-> SS	G_L2_ACCESS_IND	CHANNEL REQUEST	RACH, TBF establishment with Establishment Cause = one phase packet access.
SS	G_CRLC_UL_TBF_Config_REQ		Set up uplink TBF in RLC/MAC entity in SS, this TBF is corresponding to what indicated in IMMEDIATE ASSIGNMENT.
SS -> MS	G_L2_UNITDATA_REQ	IMMEDIATE ASSIGNMENT	Assign the uplink resources (uplink TBF) to MS. Polling bit and Starting Time are set
MS -> SS	G_RLC_ControlMsg_IND	PACKET CONTROL ACKNOWLEDGEMENT	
SS MS -> SS	G_CLLC_ Assign_REQ G_LLC_UNITDATA_IND	AUTHENTICATION AND CIPHERING RESPONSE	Assign TLLI, if changed
SS	G_CLLC_ Assign_REQ		Keep TLLI unchanged, ciphering algorithm = one of the GPRS ciphering algorithm. The value of ciphering key shall be the one generated in the authentication procedure. If no user data traffic in acknowledged mode before authentication procedure, this ASP is not needed.

Direction	ASP	message	Comments
SS	G_CRLC_DL_TBF_Config_REQ		Set up downlink TBF in RLC/MAC
SS -> MS SS -> MS	G_L2_Paging_REQ G_LLC_UNITDATA_REQ	IMMEDIATE ASSIGNMENT ATTACH ACCEPT	entity in SS Downlink TBF establishment SS uses the established downlink TBF to transmit the L3 message to
			MS, the SS manages the operation of the TBF without TTCN intervention and releases the TBF automatically after all data blocks of the L3 message are transmitted
MS-> SS	G_L2_ACCESS_IND	CHANNEL REQUEST	DAGU TDE
			RACH, TBF establishment with Establishment Cause = one phase packet access.
SS	G_CRLC_UL_TBF_Config_REQ		Set up uplink TBF in RLC/MAC entity in SS
SS -> MS	G_L2_UNITDATA_REQ	IMMEDIATE ASSIGNMENT	Assign the uplink resources (uplink TBF) to MS. Polling bit and Starting Time are set
MS -> SS	G_RLC_ControlMsg_IND	PACKET CONTROL ACKNOWLEDGEMENT	
SS	G_CLLC_ Assign_REQ		Assign new TLLI
MS -> SS	G_LLC_UNITDATA_IND	ATTACH COMPLETE	MS uses the assigned uplink TBF to transmit the L3 message to SS, the
			SS manages the operation of the TBF without TTCN intervention and
			releases the TBF automatically
SS	G_CRLC_DeleteRLC_MAC_REQ		according the countdown procedure Release resources in the SS for RLC/MAC emulation entity
SS	G_CLLC_DeleteLLE_REQ		Release resources in the SS for LLC emulation entity
SS	G_CL1_DeleteChannel_REQ		Release SS resources of channel combination 13
SS	G_CL1_DeleteChannel_REQ		Release SS resources of channel combination 5
SS	G_CL1_DeleteCell_REQ		

6.10.2.7.1.2 GPRS attach procedure in channel combinations 5 and 11

Direction	ASP	message	Comments
SS	G_CL1_CreateCell_REQ		Create the cell
SS	G_CL1_CreateBasicPhyCh_REQ		Create the physical channel combination 5 for FCCH+SCH+BCCH+CCCH+SDCCH/4(03)+SACCH/C4(03)
SS	G_CL1_CreateBasicPhyCh_REQ		Create the physical channel combination 11 for PBCCH+PCCCH+PDTCH+PACCH
SS -> MS	G_L2_SYSINFO_REQ	SYSTEM INFORMATION TYPE1, SYSTEM INFORMATION TYPE2, SYSTEM INFORMATION TYPE2quater, SYSTEM INFORMATION TYPE3, SYSTEM INFORMATION TYPE4, SYSTEM INFORMATION TYPE13	Broadcast system information messages: SI 1~4; SI 13

Direction	ASP	message	Comments
SS -> MS	G_L2_SYSINFO_REQ	SYSTEM INFORMATION	Broadcast system information
SS SS -> MS	G_CRLC_CreateRLC_MAC_REQ G_RLC_PSI_REQ	TYPE1, SYSTEM INFORMATION TYPE2, SYSTEM INFORMATION TYPE2quater, SYSTEM INFORMATION TYPE3, SYSTEM INFORMATION TYPE4, SYSTEM INFORMATION TYPE13 PACKET SYSTEM INFORMATION TYPE1, PACKET SYSTEM INFORMATION TYPE2, PACKET SYSTEM INFORMATION TYPE3, PACKET SYSTEM INFORMATION TYPE3, PACKET SYSTEM INFORMATION TYPE3bis, PACKET SYSTEM INFORMATION TYPE3bis, PACKET SYSTEM INFORMATION TYPE5	messages: SI 1~4; SI 13 Create RLC/MAC emulation entity Broadcast packet system information messages: PSI 1~3bis and if measurement order tests PSI5
SS	G_CLLC_CreateLLE_REQ		Create LLC emulation entity
SS MS-> SS	MMI_CmdReq G_RLC_ACCESS_IND	PACKET CHANNEL REQUEST	Power on the UE/MS PRACH, TBF establishment with MM procedure
SS	G_CRLC_UL_TBF_Config_REQ		Set up uplink TBF in RLC/MAC entity in SS, this TBF is corresponding to what indicated in PACKET UPLINK ASSIGNMENT next
SS -> MS	G_RLC_ControlMsg_REQ	PACKET UPLINK ASSIGNMENT	Assign the uplink resources (uplink TBF) to MS. S/P bit set
MS-> SS	G_RLC_ControlMsg_IND	PACKET CONTROL ACKNOWLEDGEMENT	,
SS	G_CLLC_ Assign_REQ		Assign TLLI, ciphering key and algorithm. The ciphering algorithm = "ciphering not used". The value of ciphering key shall be the one generated in the following authentication procedure. If there is no user data traffic in acknowledged mode before authentication procedure the ciphering algorithm may be set to one of the GPRS ciphering algorithm, and the late G_CLLC_Assing_REQ shall be not used.
MS -> SS	G_LLC_UNITDATA_IND	ATTACH REQUEST	MS uses the assigned uplink TBF to transmit the L3 message to SS, the SS manages the operation of the TBF without TTCN intervention and releases the TBF automatically according the countdown procedure. The SS reassembles the received data blocks into the L3 message and passes it to the LLC DATA PCO G_LLC.
SS	G_CRLC_DL_TBF_Config_REQ		Set up downlink TBF in RLC/MAC
SS -> MS	G_RLC_ControlMsg_REQ	PACKET DOWNLINK ASSIGNMENT	entity in SS Downlink TBF establishment S/P bit is set
MS-> SS	G_RLC_ControlMsg_IND	PACKET CONTROL ACKNOWLEDGEMENT	
SS -> MS	G_LLC_UNITDATA_REQ	AUTHENTICATION AND CIPHERING REQUEST	
MS-> SS	G_RLC_ACCESS_IND	PACKET CHANNEL REQUEST	PRACH, TBF establishment with MM procedure

Direction	ASP	message	Comments
SS	G_CRLC_UL_TBF_Config_REQ		Set up uplink TBF in RLC/MAC entity
			in SS, this TBF is corresponding to what indicated in PACKET UPLINK ASSIGNMENT next
SS -> MS	G_RLC_ControlMsg_REQ	PACKET UPLINK ASSIGNMENT	Assign the uplink resources (uplink TBF) to MS. S/P bit is set
MS-> SS	G_RLC_ControlMsg_IND	PACKET CONTROL ACKNOWLEDGEMENT	
SS MS -> SS	G_CLLC_ Assign_REQ G_LLC_UNITDATA_IND	AUTHENTICATION AND	Assign TLLI, if changed
SS		CIPHERING RESPONSE	Koon TI I Lunchanged ainhering
33	G_CLLC_ Assign_REQ		Keep TLLI unchanged, ciphering algorithm = one of the GPRS ciphering algorithm. The value of ciphering key shall be the one generated in the authentication procedure. If no user data traffic in acknowledged mode before authentication procedure, this ASP is not needed.
SS	G_CRLC_DL_TBF_Config_REQ		Set up downlink TBF in RLC/MAC entity in SS
SS -> MS	G_RLC_ControlMsg_REQ	PACKET DOWNLINK ASSIGNMENT	Downlink TBF establishment S/P bit is set.
MS-> SS	G_RLC_ControlMsg_IND	PACKET CONTROL ACKNOWLEDGEMENT	
SS -> MS	G_LLC_UNITDATA_REQ	ATTACH ACCEPT	SS uses the established downlink TBF to transmit the L3 message to MS, the SS manages the operation of the TBF without TTCN intervention and releases the TBF automatically after all data blocks of the L3 message are transmitted
MS-> SS	G_RLC_ACCESS_IND	PACKET CHANNEL REQUEST	PRACH, TBF establishment with MM procedure
SS	G_CRLC_UL_TBF_Config_REQ		Set up uplink TBF in RLC/MAC entity in SS
SS -> MS	G_RLC_ControlMsg_REQ	PACKET UPLINK ASSIGNMENT	Assign the uplink resources (uplink TBF) to MS. S/P bit is set
MS-> SS	G_RLC_ControlMsg_IND	PACKET CONTROL ACKNOWLEDGEMENT	,
SS	G_CLLC_ Assign_REQ		Assign new TLLI, ciphering key and algorithm unchanged
MS -> SS	G_LLC_UNITDATA_IND	ATTACH COMPLETE	MS uses the assigned uplink TBF to transmit the L3 message to SS, the SS manages the operation of the TBF without TTCN intervention and releases the TBF automatically according the countdown procedure
SS	G_CRLC_DeleteRLC_MAC_REQ		Release resources in the SS for RLC/MAC emulation entity
SS	G_CLLC_DeleteLLE_REQ		Release resources in the SS for LLC emulation entity
SS	G_CL1_DeleteChannel_REQ		Release SS resources of channel combination 11
SS	G_CL1_DeleteChannel_REQ		Release SS resources of channel combination 5
SS	G_CL1_DeleteCell_REQ		CONTRACTOR O

6.10.2.7.2 Cell change order within a TBF

6.10.2.7.2.1 Cell change order procedure in channel combinations 5 and 13

Direction	ASP	message	Comments
SS	G_CL1_CreateCell_REQ		
SS	G_CL1_CreateBasicPhyCh_REQ		Create the physical channel combination 5 for FCCH+SCH+BCCH+CCCH+SDCC H/4(03)+SACCH/C4(03)
55	G_CL1_CreateBasicPhyCh_REQ		Create the physical channel combination 13 for PDTCH/F+PACCH/F+PTCCH/F
SS -> MS	G_L2_SYSINFO_REQ	SYSTEM INFORMATION TYPE1, SYSTEM INFORMATION TYPE2, SYSTEM INFORMATION TYPE2quater, SYSTEM INFORMATION TYPE3, SYSTEM INFORMATION TYPE4, SYSTEM INFORMATION TYPE13	Broadcast system information messages: SI 1~4; SI 13
SS	G_CRLC_CreateRLC_MAC_REQ		Create RLC/MAC emulation entity
SS SS	G_CLLC_CreateLLE_REQ G_CLLC_ Assign_REQ		Create LLC emulation entity Assign TLLI, ciphering key and algorithm
MS			MS is GPRS attached, PDP
			context activated, then trigger MS to send two SNDCP PDU on LLC SAPI 3, each with 500 bytes user data.
MS-> SS	G_L2_ACCESS_IND	CHANNEL REQUEST	RACH, TBF establishment with Establishment Cause = one phase packet access.
SS	G_CRLC_UL_TBF_Config_REQ		Set up uplink TBF in RLC/MAC entity in SS, this TBF is corresponding to what indicated in the next IMMEDIATE ASSIGNMENT. The USFRate is set to 5 USF per second.
SS -> MS	G_L2_UNITDATA_REQ	IMMEDIATE ASSIGNMENT	Assign the uplink resources (uplink TBF) to MS
MS -> SS	G_LLC_UNITDATA_IND	User data on SAPI 3, the first SNDCP PDU	The TBF shall not be in countdown process
SS -> MS	G_RLC_ControlMsg_REQ	PACKET MEASUREMENT ORDER	This is within the TBF established above, which is in the process handling the second SNDCP PDU REPORT_TYPE = 1
MS -> SS	G_RLC_ControlMsg_IND	PACKET MEASUREMENT REPORT	MS sends the PACKET MEASUREMENT REPORT
SS -> MS	G_RLC_ControlMsg_REQ	PACKET CELL CHANGE ORDER	This is within the TBF established above what follows are in UTRAN cell, not
			present here

6.10.2.7.2.2 Cell change order procedure in channel combinations 5 and 11

Direction	ASP	message	Comments
SS SS	G_CL1_CreateCell_REQ G_CL1_CreateBasicPhyCh_REQ		Create the physical channel combination 5 for FCCH+SCH+BCCH+CCCH+SDCC H/4(03)+SACCH/C4(03)
SS	G_CL1_CreateBasicPhyCh_REQ		Create the physical channel combination 11 for PBCCH+PCCCH+PDTCH+PACCH
SS -> MS	G_L2_SYSINFO_REQ	SYSTEM INFORMATION TYPE1, SYSTEM INFORMATION TYPE2, SYSTEM INFORMATION TYPE2quater, SYSTEM INFORMATION TYPE3, SYSTEM INFORMATION TYPE4, SYSTEM INFORMATION TYPE13	Broadcast system information messages: SI 1~4; SI 13
SS SS -> MS	G_CRLC_CreateRLC_MAC_REQ G_RLC_PSI_REQ	PACKET SYSTEM INFORMATION TYPE1, PACKET SYSTEM INFORMATION TYPE2, PACKET SYSTEM INFORMATION TYPE3, PACKET SYSTEM INFORMATION TYPE3bis, PACKET SYSTEM INFORMATION TYPE5	Create RLC/MAC emulation entity Broadcast packet system information messages : PSI 1~3bis, and PSI 5
SS SS MS	G_CLLC_CreateLLE_REQ G_CLLC_ Assign_REQ		Create LLC emulation entity Assign TLLI, ciphering key and algorithm MS is GPRS attached, PDP context activated, then trigger MS to send two SNDCP PDU on LLC SAPI 3,
MS-> SS	G_RLC_ACCESS_IND	PACKET CHANNEL REQUEST	each with 500 bytes user data. PRACH, TBF establishment with one phase or two phase access
SS -> MS	G_RLC_ControlMsg_REQ	PACKET UPLINK ASSIGNMENT	PCCCH, Single block allocation
MS -> SS	G_RLC_ControlMsg_IND	PACKET RESOURCE REQUEST	
SS	G_CRLC_UL_TBF_Config_REQ		Set up uplink TBF in RLC/MAC entity in SS, this TBF is corresponding to what indicated in PACKET UPLINK ASSIGNMENT next. The USFRate is set to 5 USF per second.
SS -> MS	G_RLC_ControlMsg_REQ	PACKET UPLINK ASSIGNMENT	Assign the uplink resources (uplink TBF) to MS
MS -> SS	G_LLC_UNITDATA_IND	User data on SAPI 3, the first SNDCP PDU	The TBF shall not be in countdown process
SS -> MS	G_RLC_ControlMsg_REQ	PACKET MEASUREMENT ORDER	This is within the TBF established above, which is in the process handling the second SNDCP PDU REPORT_TYPE = 0
MS -> SS	G_RLC_ControlMsg_IND	PACKET ENHANCED MEASUREMENT REPORT	MS sends control message
SS -> MS	G_RLC_ControlMsg_REQ	PACKET CELL CHANGE ORDER	This is within the TBF established above what follows are in UTRAN cell, not present here

6.10.2.8 Generic configuration procedure for GSM ciphering mode control

Direction	ASP	message	Comments
			Other necessary configuration ASP's
SS	G_CL1_CreateBasicPhyCh_REQ		Create a dedicated physical channel, e.g. combination 1 with ciphering not started: This ASP download Kc and ciphering algorithm to the SS with startingCiph = 0 in cipherMode. If there is no authentication procedure before CIPHERING MODE COMMAND, the value of Kc in this ASP shall be the one generated in previous authentication procedure, otherwise the value of Kc shall be the one generated by forthcoming authentication procedure.
			Any other signalling message sending/receiving or configuration ASP's
SS	G_CL1_CipheringControl_REQ		rcvCipherMode ='1', the SS starts ciphering on receiving
SS	G_CL1_CipheringControl_CNF		
SS -> MS	G_L2_DATA_REQ	CIPHERING MODE COMMAND	Sent without ciphering
SS			Before this point both transmitting and receiving in the SS are not ciphered.
MS -> SS	G_L2_DATA_IND	CIPHERING MODE COMPLETE	After receiving this message the SS shall start ciphering on transmitting, The CIPHERING MODE COMPLETE is ciphered Any signalling message or user data sending/receiving in ciphered mode

6.10.2.9 L|H bits convention and bit padding in DL

6.10.2.9.1 GERAN DL RLC/MAC message bit padding

The length of a GPRS RLC/MAC control messages is an integer number of RLC/MAC control blocks. Padding bits are necessary to fill the message up to the desired length. The padding bits may be the 'null' string. Otherwise, the padding bits starts with bit '0', followed by "spare padding". The padding sequence used for "spare padding" in the present document, is a repetition of octet '00101011', starting on an octet boundary.

In the TTCN a specific encoding variation - encoding rule 1 - is defined according to the rules described above. This shall be used in the definition of the message itself. No 'padding bits' field will be defined in the TTCN. The implementation shall ensure that after encoding the message contents defined in the TTCN, the remainder of the message shall be filled with 'padding bits'.

6.10.2.9.2 GSM DL message spare padding

A number of GPRS information elements are defined in the rest octets of certain GSM DL messages, for instance, IA Rest Octets, SI 2quater Rest Octets, SI 3 Rest Octets, SI 4 Rest Octets, SI 13 Rest Octets, etc. These rest octets were filled in a repetition of bit padding '00101011' or '2B'O, starting on an octet boundary to a certain length.

In the TTCN, a second encoding variation - encoding rule 2 - shall be used in the definition of the message itself, which shall be of a fixed length (always 23 octets). No "spare padding" field will be defined in the TTCN. The implementation shall ensure that after encoding the message contents defined in the TTCN, the remainder of the message, up to the defined fixed length, shall be filled with "spare padding".

6.10.2.9.3 L | H convention in rest octets of GSM DL messages

A number of GPRS information elements are defined in the rest octets of certain GSM DL messages. The special notations "L" and "H" are used to denote respectively the bit's logical value corresponding to the padding spare bit for that position, and the other value. The actual value of the bit transmitted by SS therefore depends upon its position within the octet - this involves counting bits.

In the TTCN a third encoding variation - encoding rule 3 - is defined for this purpose. This encoding variation is applied to those specific TTCN Rest Octets definitions which contain the L|H convention.

6.10.2.9.4 Spare Bits

Where the IE definition of RLC/MAC blocks contains bits defined to be 'spare bits', these bits shall set to the value '0' by the TTCN writers, according to the defined length indicator.

6.10.2.9.5 GSM System Information messages on SACCH

Certain GSM System Information messages, for instance, SI 5 and SI 6 are sent as a B4 frame on the SACCH. These messages are defined in 3GPP 44.006 [42], clause 8.8.3, to have a maximum of 19 octets.

In the TTCN a fourth encoding variation - encoding rule 4 - shall be used in the definition of the message itself. The implementation shall ensure that after encoding the message contents defined in the TTCN, the remainder of the message, up to the fixed length of 19 octets, shall be filled with "spare padding".

6.10.2.9.6 GSM Measurement Information messages on SACCH

The GSM Measurement Information message is sent as a Bter UI frame on the SACCH. This messages is defined in 3GPP 44.006 [42], clause 8.8.3 to have a maximum of 21 octets.

In the TTCN a fifth encoding variation - encoding rule 5 - shall be used in the definition of the message itself. The implementation shall ensure that after encoding the message contents defined in the TTCN, the remainder of the message, up to the fixed length of 21 octets, shall be filled with "spare padding".

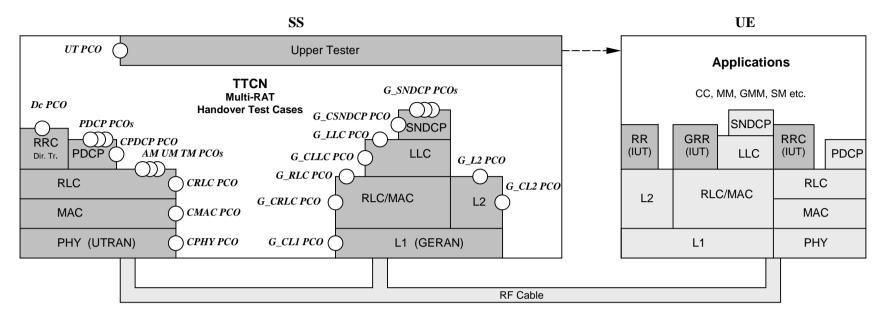
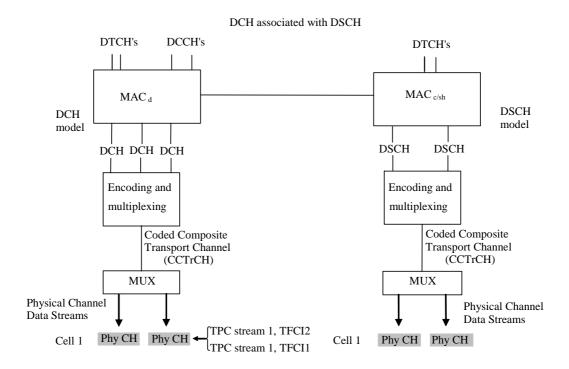


Figure 16: The model of multi-RAT handover testing

6.11 DCH-DSCH model (R99 or Rel-4)

The model illustrates the relationship between various channels from logical channel to physical channels. DCH are associated with DSCH.



TFC11 indicates the DCH specific TFC and TFC12 indicates the DSCH specific TFC and also the PDSCH channelisation code(s)

Figure 17: Associated DCH-DSCH model

The model associating DCH with DSCH enable in the SS:

- to define DSCH transport channel;
- to define TFCI(field2) for DSCH;
- to configure PDSCH;
- to define DSCH-RNTI value.

6.12 DCH with HS-DSCH model (FDD, Rel-5 or later)

The test model illustrates the relationship between various channels from logical channels to physical channels. All DCH are associated with a single HS-DSCH.

DCH associated with HS-DSCH

DTCH's C/T DTCH's DCCH's MUX MUX MAC-d flow MAC-d flow MAC_d MAC hs **DCH** HS-DSCH model model DCH DCH DCH HS-DSCH Decoding Encoding and Encoding and multiplexing multiplexing Encoding Coded Composite Coded Composite Transport Channel Transport Channel PhyCh (CCTrCH) (CCTrCH) mapping PhyCh mapping PhyCh mapping Physical Channel Physical Channel Data Streams Data Streams DPCH's → Phy CH Phy CH HS-DPCCH Cell 1 HS-SCCH's Phy CH Phy CH ← HS-PDSCH's Cell 1 DPCH's → Phy CH Phy CH Cell 2

Figure 18: Associated DCH with HS-DSCH model

Associating DCH with HS-DSCH, the model enables in the SS:

- to define MAC-hs and multiplexing of logical channels DTCHs onto MAC-d flows;
- to configure HS-DSCH transport channel and MAC-d flows;
- to configure HS-PDSCHs and HS-SCCHs;
- to define the H-RNTI value.

6.12a DCH with HS-DSCH model for 1.28 Mcps TDD (Rel-5 or later)

DCH associated with HS-DSCH

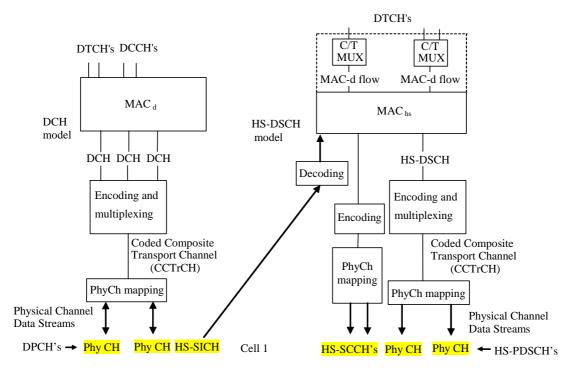


Figure 19: Associated DCH with HS-DSCH model for 1.28Mcps TDD

Associating DCH with HS-DSCH, the model enables in the SS:

- to define MAC-hs and multiplexing of logical channels DTCHs onto MAC-d flows;
- to configure HS-DSCH transport channel and MAC-d flows;
- to configure HS-PDSCHs and HS-SCCHs;
- to define the H-RNTI value.

6.13 E-DCH model (Rel-6 or later)

The E-DCH model illustrates the relationship between various channels from logical channel to physical channels. In this model the TTCN writer can:

- define MAC-e/es and multiplexing of logical channels onto MAC-d flows;
- configure E-DCH transport channel and MAC-d flows;
- configure E-DPDCH, E-DPCCH, E-HICH, E-RGCH and E-AGCH.

MAC-es and the served RLC are cell-independent and are configured by using the cell-id = -1. During reconfigurations, cell changes and state transitions, the relevant counters in the RLC are maintained.

For the reason of simplicity, the E-DCH testing model does not shown the relation between E-DCH and related DCH and HS-DPCH, however the TTCN writer shall understand that the E-DCH active set is a subset of the DCH active set, when configuring E-DCH in the SS the TTCN writer shall keep this requirement respected.

During the active set updating (soft handover), the test case configurations may involve more than one cell. Those cells are under the control of the same Node B (intra-node) or under several Node B's (inter-node). For the signalling testing no macro diversity is required in the SS. In such test configurations only one E-DPDCH is necessary to be configured (together with corresponding E-DCH) for each Node B. Preferably, the E-DPDCH in the serving E-DCH cell controlled by the serving Node B is chosen for the configuration. In the inter-node soft handover cases, the E-DPDCH in a Non-serving RL cell of another Node B may require to be configured, instead of the one in the serving E-DCH cell. When the configuration involves several Node B's only one MAC-e (Node B) is necessary to be connected to the MAC-es. All possible connections are represented by dashed line and the preferable connection is the connection between MAC-es and the Node B controlling the serving E-DCH cell.

Since the UL-DPCH is needed as reference channel for the E-DPCCH the UL-DPCH is configured in every cell where an E-DCH is configured (i.e. in serving and non-serving cell). In order to simplify the implementation and to avoid macro diversity in all non-serving cells the UL-DPCH is configured without the associated transport channel configuration, i.e. the physical channel is not connected to MAC-d.

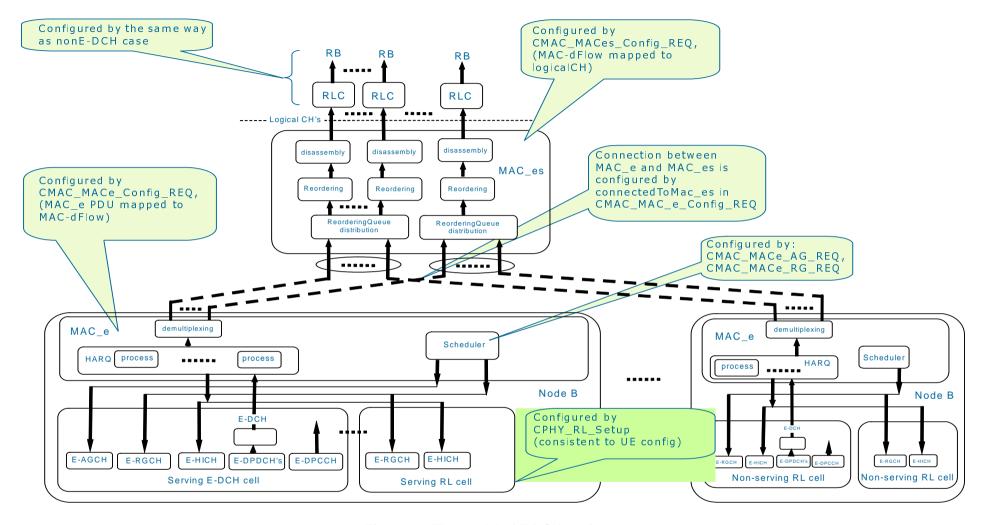


Figure 20: The model of E-DCH testing

6.14 MBMS model (Rel-6 or later)

The MBMS test model illustrates the relationship between various channels, from logical channel to physical channels applied to the MBMS test. The MBMS-dedicated stand-alone SCCPCH, MICH, MAC-m, MCCH, MSCH and MTCH are configured by the TTCN.

During softcombining, MTCHs which have the same logical channel identity but in different cells are connected to the same UM RLC.

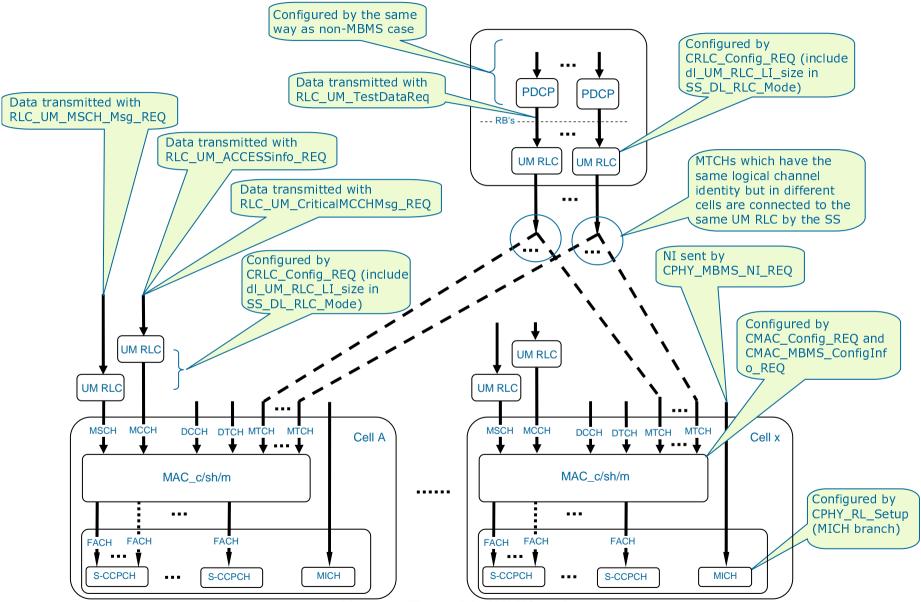


Figure 21: The model of MBMS testing

6.14.1 MBMS RLC test model

For RLC tests the MCCH critical messages can be sent as a DL sequence of PER encoded UM RLC PDUs in RLC TR mode. To achieve this, additionally to the normal UM radio bearer on MCCH, a TR radio bearer is configured with a negative RB Id. Both DL RBs are mapped onto the same logical channel but shall be used mutually exclusively.

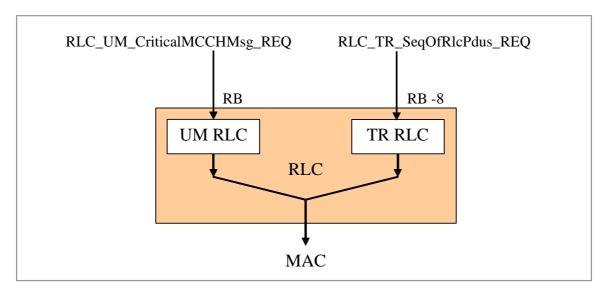


Figure 22: test model for MCCH scheduling using TM RLC entity

When changing from UM to TR the care should be taken on the sequence numbers used in the RLC PDUs. That can be achieved by querying the SN from SS with CRLC_SequenceNumber_REQ. When changing back to UM the RLC may continue with the sequence number following the last sequence number used before changing to TR mode. That implies, the UM part of the RLC in SS does not need to take care of the UM PDUs sent in TR mode. The UE will regard it as PDU lost.

To support re-synchronization the 'specialLI' of the RLC_UM_CriticalMCCHMsg_REQ following TR mode can be set to TRUE.

7 PCO and ASP definitions

7.1 NAS PCO and ASP definitions

7.1.1 NAS PCO Definitions

Table 3: Dc PCO Type Declarations

PCO Type Declarations		
PCO Type	Dc_SAP	
Role	LT	
Comments	The PCO type for NAS testing	

Table 4: Dc PCO Declarations

PCO Declarations		
PCO Name	Dc	
PCO Type	Dc_SAP	
Role	LT	
Comments	Carry transmission and reception of NAS messages	

7.1.2 Primitives used at Dc PCO

The Dc PCO is used to transmit and receive NAS (MM, CC, SM, SS) messages. Two categories of primitives are operated at the Dc PCO:

- RRC_DataReq for transmission of a NAS PDU;
- RRC DataInd for reception of a NAS PDU.

These primitives are declared in TTCN tabular form, see Table 21.

Table 5: Primitives used at the Dc PCO

Primitive	Parameters	Use
RRC_DataInd	Cell identity	The ASP is used to indicate the receipt of a NAS
	INTEGER (-31 32)	message using acknowledged operation
	LogicChGSM	
	SapId	
	CN domain id	
	START	
	NAS message	
RRC_DataReq	Cell identity	The ASP is used to request the transmission of a NAS
	INTEGER (-31 32)	message using acknowledged operation
	LogicChGSM	
	SapId	
	CN domain id	
	NAS message	

The RB Identity and CN domain parameters defined in the primitives are mandatory for UTRAN and not applicable for GERAN.

The START parameter is mandatory in INITIAL DIRECT TRANSFER; each time when it is received the new START shall be downloaded to the SS to reinitialize counters-C and counters-I.

The LogicChGSM and SapId parameters are mandatory for GERAN and not applicable for UTRAN. They are defined because they may be used for future TTCN test cases.

Except the initial, uplink and downlink direct transfer procedures, the NAS TTCN specification uses the TTCN test steps to realize all RRC functions for testing. The single layer test concept is kept for the NAS tests.

A simple RRC emulation shall be maintained for the NAS tests. It has four functions:

- Emulate the three direct transfer procedures.
- Convert the NAS downlink messages defined in 3GPP TS 24.008 [9] in table format to the NAS message in ASN.1 octet string specified in 3GPP TS 25.331 [21]. Convert the NAS uplink message in the reverse way.
- PER encoding and decoding.
- Have the integrity protection.

RB3 and RB4 are specifically used for the NAS signalling. When an uplink message entered the receiving buffer at AM-SAP from the RLC emulation, either an RRC test step if running will take it out; or the RRC emulation if running will pick the received message from the buffer. Activation of any RRC test steps and activation of any NAS test steps at the same time shall be excluded in TTCN (no concurrency between them).

7.2 Ut PCO and ASP definitions

7.2.1 Ut PCO Declarations

The Ut PCO is served as the interface to the UE EMMI for remote control of operations, which have to be performed during execution of a test case such as to switch the UE on/off, initiate a call, etc.

Table 6: Declaration of the uppertester PCO type

PCO Type Declarations	
PCO Type	MMI
Role	UT
Comments	The PCO type for MMI or EMMI of the upper tester

Table 7: Declaration of the Ut PCO

PCO Declarations	
PCO Name	Ut
PCO Type	MMI
Role	UT
Comments	Carry transmission commands and reception of results for the upper tester

7.2.2 Primitives used at Ut PCO

The Ut PCO is used to indicate to the upper tester actions and to receive the acknowledgement of these actions. The AT commands are used wherever the suitable commands exist within 3GPP TS 27.007 [23], 3GPP TS 27.005 [22] and 3GPP TS 27 060 [24]. An MMI command is used, when AT commands does not exit for the action to performed. The primitives used at the Ut PCO, are declared in TTCN tabular form, see the table 21.

Table 8: Primitives used at the Ut PCO

Primitive	Parameters	Use
AT_CmdReq	Command: IA5String SMS_BlockMode: HEXSTRING	Request an AT command to the upper tester.
AT_CmdInd	Command: IA5String SMS_BlockMode: HEXSTRING	Indication of a result from the upper tester.
AT_CmdCnf	Result: BOOLEAN ResultString: IA5String SMS_BlockMode: HEXSTRING	Return a positive or negative result from the command previously sent. Both the Boolean result and String parameter are optional.
MMI_CmdReq	Command: IA5String	Request a command to the upper tester.
MMI_CmdCnf	Result: BOOLEAN ResultString: IA5String	Return a positive or negative result from the command previously sent. The String parameter is optional.

The AT_CmdReq primitive for sending AT commands is mostly used to trigger electronically an uplink access, such as initiating of a call, attaching or detaching, starting packet data transfer etc. The MMI_ primitive is defined mainly for observation of some test events via a test operator, such as checking DTMF tone or checking called party number, etc.

The AT_CmdInd primitive for receiving AT commands is mostly used to transfer unsolicited result codes from the UE to the lower tester.

The SMS_BlockMode parameter is used to control and observe the Block mode procedure for SMS. This parameter is not yet used; it is defined for future development. The Command and SMS_BlockMode parameters are mutually exclusive

For the Command in the AT_CmdReq and AT_CmdInd primitives, the verbose format is used as defined in 3GPP TS 27.007 [23]. For the Command in MMI_CmdReq, just a descriptive IA5 string line, like "Check DTMF tone" is used.

7.3 RRC PCO and ASP definitions

7.3.1 AM/UM/TM PCO and ASP definitions

7.3.1.1 SAP and PCO for data transmission and reception

Table 9: Declaration of the RRC PCO Type

PCO Type Definition	
PCO Type DSAP	
Role	LT
Comment	DATA transmission and reception

Table 10: PCO TM declaration

PCO Type Definition	
PCO Name	TM
PCO Type	DSAP
Role	LT
Comment	Carry Transparent Mode RLC PDU

Table 11: PCO AM declaration

PCO Type Definition	
PCO Name	AM
PCO Type	DSAP
Role	LT
Comment	Carry Acknowledged Mode RLC PDU

Table 12: PCO UM declaration

PCO Type Definition	
PCO Name	UM
PCO Type	DSAP
Role	LT
Comment	Carry Unacknowledged Mode RLC PDU

Table 13: PCO BMC declaration

PCO Type Definition	
PCO Name	BMC
PCO Type	DSAP
Role	LT
Comment	Provide Unacknowledged Mode BMC data transmission service

7.3.2 Control PCO and ASP

7.3.2.1 SAP and PCO for control primitives transmission and reception

Table 14: SAP declaration

PCO Type Definition	
PCO Type	CSAP
Role	LT
Comment	Control primitives transmission and reception

Table 15: PCO CPHY

PCO Definition	
PCO Name	CPHY
PCO Type	CSAP
Role	LT
Comment	Control Physical Layer

Table 16: PCO CRLC

PCO Definition	
PCO Name	CRLC
PCO Type	CSAP
Role	LT
Comment	Control RLC Layer

Table 17: PCO CMAC

PCO Definition	
PCO Name	CMAC
PCO Type	CSAP
Role	LT
Comment	Control MAC Layer

Table 18: PCO CBMC

PCO Definition		
PCO Name	CBMC	
PCO Type	CSAP	
Role	LT	
Comment	Control BMC Layer	

Table 19: External Asn1 Codec declaration

PCO Type Definition	
PCO Type ExternalAsn1Codec	
Role	LT
Comment	Control decoder primitives transmission and reception

Table 20: PCO CCodec

PCO Definition		
PCO Name CCodec		
PCO Type	Type ExternalAsn1Codec	
Role	LT	
Comment	Control asn.1 CONTAINING decoder	

7.3.2.2 Control ASP Type Definition

7.3.2.2.1 CPHY_AICH_AckModeSet

ASN.1 ASP Type Definition			
Type N	Name	CPHY_AICH_AckModeSet_REQ	
PCO 1	Гуре	CSAP	
Comn	nent	To request for setting of AICH Acknowledge Mode	
	Type Definition		
SEQUENCE }	{ cellId routingI: ratType aICH_Mode	RatType,	

ASN.1 ASP Type Definition			
Type Name	CPHY_AICH_A	AckModeSet_CNF	
PCO Type	PCO Type CSAP		
Comment	Comment To confirm setting of AICH Acknowledge Mode		
	Type Definition		
	cellId routingInfo	<pre>INTEGER(063), RoutingInfo</pre>	

ASN.1 Type Definition		
Type Name AICH_Mode		AICH_Mode
Comment		Normal operation: The AICH will operate as normal, and will acknowledge or negatively acknowledge on all UE RACH transmission attempts, appropriately. No Acknowledge: The AICH shall not transmit acknowledge or Negative Acknowledge on all UE RACH transmission attempts. Negative Acknowledge: The AICH shall transmit Negative Acknowledge on all UE RACH transmission attempts
		Type Definition
ENUMERATED }	{ normal noAck negACK	(0), (1), (2)

7.3.2.2.2 CPHY_Cell_Config

ASN.1 ASP Type Definition				
Type Name	9	CPHY_Cell_Config_CNF		
PCO Type	PCO Type CSAP			
Comment	Comment To confirm to setup the cell parameter			
Type Definition				
SEQUENCE { ce }	llId	INTEGER(063)		

	ASN.1 ASP Type Definition		
Type Name		CPHY_Cell_Config_REQ	
PCO.	Туре	CSAP	
Comment		defined as the number of behind or in advance, in interpretations are valid The primary scrambling 16*primaryScramblingC The unit of dLTxAttenua	the unit of sfnOffset is frame number. The sfnOffset is of frames the SFN shall be shifted, i.e. the frames lagging a comparison to a system reference time. The both for the test. code number of the cell is
		Тур	pe Definition
SEQUENCE	cellTxPor dLTxAtte	- yInfo cramblingCode_SS	<pre>INTEGER(063), INTEGER(038399), INTEGER(04095), FrequencyInfo, INTEGER(0511), CellTxPowerLevel, INTEGER(030 123), FrequencyBandFDD</pre>

ASN.1 Type Definition		
Type Name	CellTxPowerLevel	
Comment	tests. The real total of the individual ph	owerLvI is a default setting and is used for the most signalling I cell DL Tx power level equals to the sum of the DL Tx power ysical channels configured. verLvI applies to e.g. the idle mode tests in a non-default multient.
		Type Definition
CHOICE {		
	CellTxPowerLvl llTxPowerLvl	NULL, DL_TxPower

ASN.1 Type Definition		
Type Name	FrequencyBandFDD	
Comment	The frequency band indicator indicates how to interpret the radio frequency broadcast.	
Type Definition		
CHOICE { frequencyBand frequencyBand }	± + · · · ·	

7.3.2.2.3 CPHY_Cell_Release

ASN.1 ASP Type Definition			
Type Name	CPHY_Cell_Release_CNF		
PCO Type	CSAP		
Comment	The confirmation to the CPHY_Cell_Release_Req		
	Type Definition		
SEQUENCE {	SEQUENCE {		
soft_Res			
cell_ID_	List SEQUENCE (SIZE (18)) OF INTEGER(063) cell IDs		

ASN.1 ASP Type Definition		
Type Name	CPHY_Cell_Release_REQ	
PCO Type	CSAP	
Comment	 This Primitive with "Soft_Reset" flag ON gives a common known starting point/state of SS for a test case. The SS performs the following whenever it receives this primitive with "Soft_Reset" flag ON: Releases all configured Channels and cells (if any) irrespective of Cell ID list IE. Releases the associated Memory Buffers (if any). Cancels all active timers (if any) With "Soft_Reset" flag OFF: Releases cells listed in IE Cell_ID_List and associated configured Channels (if any) Releases the Memory Buffers(if any) associated with Cells listed in IE Cell_ID_List Cancels all active timers (if any) associated with Cells listed in IE Cell_ID_List. 	
Type Definition		
<pre>sequence {</pre>	et BOOLEAN, List SEQUENCE (SIZE (18)) OF INTEGER(063) cell IDs	

7.3.2.2.3a CPHY_Cell_TimingAdjust

tbd

7.3.2.2.3b CPHY_Detect_TFCI

ASN.1 ASP Type Definition			
Type Nam	e	CPHY_DetectTFCI_CNF	
PCO Type	9	CSAP	
Comment	t	To confirm to CPHY_DetetTFCI_REQ	
	Type Definition		
SEQUENCE {			
CE	ellId	<pre>INTEGER(063)),</pre>	
ro	outingIr	nfo RoutingInfo	
}			

	ASN.1 ASP Type Definition		
Type Name	CPHY_DetectTFCI_REQ		
PCO Type	CSAP		
Comment	To set the mode of the SS for detecting whether the specified list of TFCI values occurred. Usage: At the SS initialization, the default mode is stop. When the mode is set to start, the SS shall detect whether the specified list of TFCI values (tfci_List) happens on the specified uplink physical channel. When happened the SS generates a CPHY_TFCI_Detected_IND and stop further detection. Otherwise keeps monitoring until a CPHY_DetectTFCI_REQ with mode = stop received.		
	Type Definition		
SEQUENCE {	<pre>ENUMERATED{start(0), stop(1)},</pre>		

ASN.1 ASP Type Definition		
Type N	Name	CPHY_TFCI_Detected_IND
PCO T	Туре	CSAP
Comment		To indicate the TFCI value specified in the CPHY_DetectTFCI_REQ has been detected.
		Type Definition
SEQUENCE }	{ cellId routingI: tfciValu	<i>y</i> ,

ASN.1 Type Definition			
Type Name	Type Name TFCI_List		
Comment			
Type Definition			
EQUENCE (SIZE (11024)) OF INTEGER (01023)			

7.3.2.2.4 CPHY_Ini

ASN.1 ASP Type Definition		
Type Name	Type Name CPHY_Ini_REQ	
PCO Type	CSAP	
Comment	Request to initialize the test	
	Type Definition	
ENUMERATED {		
<pre>defaultRadioEnvironment(0),</pre>		
nonDefaultMultiCell(1)		
}		

ASN.1 ASP Type Definition			
Type Name	CPHY_Ini_CNF		
PCO Type	CSAP		
Comment	Confirm the test initialization		
	Type Definition		
SEQUENCE { confi:	mation NULL		

7.3.2.2.5 CPHY_Cell_TxPower_Modify

ASN.1 ASP Type Definition		
Type Name	е	CPHY_Cell_TxPower_Modify_CNF
PCO Type		CSAP
Comment	t	To confirm to change the DL power
		Type Definition
SEQUENCE { ce }	ellId	INTEGER(063)

ASN.1 ASP Type Definition			
Type Name		CPHY_Cell_TxPower_Modify_REQ	
PCO 1	Гуре	CSAP	
Comn		To request to change the DL power	
		If the Tx attenuation level value is set to 123, the cell becomes a non-suitable off	
		cell (CPICH_Ec ≤ -122 dBm/3.84 MHz of an off cell).	
		Type Definition	
SEQUENCE	{		
	cellId	INTEGER(063),	
	dLTxAtte	nuationLevel INTEGER(040 123)	
}			

7.3.2.2.6 CPHY_Frame_Number

ASN.1 ASP Type Definition		
Type Name	CPHY_Frame_Number_CNF	
PCO Type	CSAP	
Comment	To return the requested connection frame number. The routingInfo indicates a physical channel.	
	Type Definition	
SEQUENCE {	5 ,	

	ASN.1 ASP Type Definition		
Type N	lame	CPHY_Frame_Number_REQ	
PCO T	уре	CSAP	
Comment		To request the physical layer to return a connection frame number on which the next message can be sent at the specified PCO on the specified logical channel. The return frame number shall leave time from current frame number in order to leave some execution time for TTCN preparing next message. The routingInfo indicates a physical channel	
		Type Definition	
SEQUENCE }	{ cellId routingIn	INTEGER(063), nfo RoutingInfo	

7.3.2.2.6a CPHY_SFN (Rel-6 or later)

ASN.1 ASP Type Definition		
Type I	Name	CPHY_SFN_CNF
PCO '	Туре	CSAP
Comment		To return the requested system frame number of the cell. The routingInfo indicates the P-CCPCH physical channel. In MBMS the MICH Connection Frame Number (CFN) corresponds to the Cell SFN of the frame in which the start of the S-CCPCH frame is located. Type Definition
GEOTIENIGE	ſ	Type Definition
SEQUENCE }	{ cellId routingIr currentSF	5 ,

ASN.1 ASP Type Definition			
Type I	Name	CPHY_SFN_REQ	
PCO '	Туре	CSAP	
Comment		To request the physical layer to return the current SFN of the cell. The routingInfo indicates the P-CCPCH physical channel. In MBMS the MICH Connection Frame Number (CFN) corresponds to the Cell SFN of the frame in which the start of the S-CCPCH frame is located. The timing of S-CCPCH relative to P-CCPCH can be configured as timingOffSet in steps of 256 chips.	
	Type Definition		
SEQUENCE	{ cellId routingIn	INTEGER(063), fo RoutingInfo	

7.3.2.2.6b CPHY_MBMS_MICH_q (Rel-6 or later)

ASN.1 ASP Type Definition				
Type Name		CPHY_MBMS_MICH_q_CNF		
PCO Type		CSAP		
Comment		To confirm CPHY_MBMS_MICH_q_REQ. The routingInfo indicates the MICH physical channel.		
Type Definition				
SEQUENCE }	{ cellId routingI	INTEGER(063), nfo RoutingInfo		

ASN.1 ASP Type Definition				
Type Name		CPHY_MBMS_MICH_q_REQ		
PCO Type		CSAP		
Comment		To request the physical layer to transmit MBMS notification Indicators on the MICH physical channel. The transmission shall start on the SFN specified by the parameter mICHCFN and be continued for one modification period indicated by parameter modiCoefficent. The routingInfo indicates the MICH physical channel. The notification indicators to be transmitted are specified by the parameter indicatorList.		
		Type Definition		
SEQUENCE	{ cellId routingI: mICHCFN modiPeri indicato	MICH_CFN, odCoefficent INTEGER(710),		

ASN.1 Type Definition			
Type Name	MBMS_q_List		
Comment	The maximum number of notification indicators per frame for the nn18 alternative		
	is 18.		
	The maximum number of notification indicators per frame for the nn36 alternative		
	is 36.		
	The maximum number of notification indicators per frame for the nn72 alternative		
	is 72.		
	The maximum number of notification indicators per frame for the nn144		
	alternative is 144		
	Type Definition		
CHOICE {			
	Q_List18,		
	Q_List36,		
	Q_List72,		
nn144	Q_List144		
}			

ASN.1 Type Definition		
Type Name	Q_List18	
Comment	This type is a list which holds 128 or 256 or 512 or 1024 values of ListOf18q, each value of ListOf18q is also a list of (118) values of INTEGER. The first value of ListOf18q is corresponding to the MICH frame which starts the modification period, the second value of ListOf18q is corresponding to the next MICH frame in the modification period and so on, the last value of ListOf18q is corresponding to the last MICH frame of the modification period. Be noted that for different modification period configurations the number of values of ListOf18q are different and shall match the configuration. The SS sets the bits {b0,, b287} of the MICH frame according to the INTEGER values in the ListOf18q corresponding to the MICH frame. (see TS25.211 subclause 5.3.3.15)	
	Type Definition	
CHOICE {		
fRM128	SEQUENCE SIZE((128)) OF ListOf18q,	
fRM256	SEQUENCE SIZE((256)) OF ListOf18q,	
fRM512	SEQUENCE SIZE((512)) OF ListOf18q,	
fRM1024 }	SEQUENCE SIZE((1024)) OF ListOf18q	

ASN.1 Type Definition		
Type Name	ListOf18q	
Comment	This type holds (118) values of the 'q' for a MICH frame which MICH CFN = the SFN of the P-CCPCH radio frame during which the start of the MICH radio frame occurs The values of q are calculated by TTCN according to formula:	
	$q = \left[((C \times (\mathrm{NI} \oplus ((C \times SFN) \bmod G)))) \bmod G) \times \frac{Nn}{G} \right]$ where: G = 2 ¹⁶ , C = 25033; NI = Notification Indicator (065535) is computed by the TTCN for each TMGI according to the formula: $NI = (TMGI + \left \lfloor TMGI / G \right \rfloor) \bmod G \text{ where G} = 2^{16};$	
	the number of TMGI could be 1 to 18; SFN = the SFN of the P-CCPCH radio frame during which the start of the MICH radio frame occurs; Nn = the number of notification indicators per frame:	
Type Definition		
SEQUENCE (SIZE(118)) OF INTEGER (017)	

ASN.1 Type Definition				
Type Name		Q_List36		
Comment		This type is a list which holds 128 or 256 or 512 or 1024 values of ListOf36q, each value of ListOf36q is also a list of (136) values of INTEGER. The first value of ListOf36q is corresponding to the MICH frame which starts the modification period, the second value of ListOf36q is corresponding to the next MICH frame in the modification period and so on, the last value of ListOf36q is corresponding to the last MICH frame of the modification period. Be noted that for different modification period configurations the number of values of ListOf36q are different and shall match the configuration. The SS sets the bits {b0,, b287} of the MICH frame according to the INTEGER values in the ListOf36q corresponding to the MICH frame. (see TS25.211 subclause 5.3.3.15)		
		Type Definition		
CHOICE	{			
	fRM128	SEQUENCE (SIZE(128)) OF ListOf36q,		
1	fRM256	SEQUENCE (SIZE(256)) OF ListOf36q,		
1	fRM512	SEQUENCE (SIZE(512)) OF ListOf36q,		
}	fRM1024	SEQUENCE (SIZE(1024)) OF ListOf36q		

ASN.1 Type Definition		
Type Name	ListOf36q	
Comment	This type holds (136) values of the 'q' for a frame which MICH CFN = the SFN of the P-CCPCH radio frame during which the start of the MICH radio frame occurs The values of q are calculated by TTCN according to formula:	
	$q = \left[((C \times (NI \oplus ((C \times SFN) \mod G)))) \mod G) \times \frac{Nn}{G} \right]$	
	where: G = 2 ¹⁶ , C = 25033;	
	NI = Notification Indicator (065535) is computed by the TTCN for each TMGI	
	according to the formula:	
	$NI = (TMGI + \lfloor TMGI / G \rfloor) \mod G$ where $G = 2^{16}$;	
	the number of <i>TMGI</i> could be 1 to 36;	
	SFN = the SFN of the P-CCPCH radio frame during which the start of the MICH	
	radio frame occurs;	
	Nn = the number of notification indicators per frame:	
Type Definition		
SEQUENCE (SIZE(136	SEQUENCE (SIZE(136)) OF INTEGER (035)	

ASN.1 Type Definition		
Type Name	Q_List72	
Comment	This type is a list which holds 128 or 256 or 512 or 1024 values of ListOf72q, each value of ListOf72q is also a list of (172) values of INTEGER. The first value of ListOf72q is corresponding to the MICH frame which starts the modification period, the second value of ListOf72q is corresponding to the next MICH frame in the modification period and so on, the last value of ListOf72q is corresponding to the last MICH frame of the modification period. Be noted that for different modification period configurations the number of values of ListOf72q are different and shall match the configuration. The SS sets the bits {b0,, b287} of the MICH frame according to the INTEGER values in the ListOf72q corresponding to the MICH frame. (see 3GPP TS 25.211 [40] subclause 5.3.3.15)	
Type Definition		
CHOICE {		
fRM128	SEQUENCE (SIZE(128)) OF ListOf72q,	
fRM256	SEQUENCE (SIZE(256)) OF ListOf72q,	
fRM512	SEQUENCE (SIZE(512)) OF ListOf72q,	
fRM1024	SEQUENCE (SIZE(1024)) OF ListOf72q	

ASN.1 Type Definition	
Type Name	ListOf72q
Comment	This type holds (172) values of the 'q' for a frame which MICH CFN = the SFN of the P-CCPCH radio frame during which the start of the MICH radio frame occurs The values of q are calculated by TTCN according to formula:
	$q = \left[((C \times (NI \oplus ((C \times SFN) \mod G)))) \mod G) \times \frac{Nn}{G} \right]$
	where: $G = 2^{16}$, $C = 25033$;
	NI = Notification Indicator (065535) is computed by the TTCN for each TMGI according to the formula:
	$NI = (TMGI + \lfloor TMGI / G \rfloor) \mod G$ where $G = 2^{16}$;
	the number of <i>TMGI</i> could be 1 to 72;
	SFN = the SFN of the P-CCPCH radio frame during which the start of the MICH
	radio frame occurs;
	Nn = the number of notification indicators per frame:
Type Definition	
SEQUENCE (SIZE(172)) OF INTEGER (071)	

ASN.1 Type Definition		
Type Name	Q_List144	
Comment	This type is a list which holds 128 or 256 or 512 or 1024 values of ListOf144q, each value of ListOf144q is also a list of (1144) values of INTEGER. The first value of ListOf144q is corresponding to the MICH frame which starts the modification period, the second value of ListOf144q is corresponding to the next MICH frame in the modification period and so on, the last value of ListOf144q is corresponding to the last MICH frame of the modification period. Be noted that for different modification period configurations the number of values of ListOf144q are different and shall match the configuration. The SS sets the bits {b0,, b287} of the MICH frame according to the INTEGER values in the ListOf144q corresponding to the MICH frame. (see 3GPP TS 25.211 [40] subclause 5.3.3.15)	
	Type Definition	
CHOICE {		
fRM128	SEQUENCE (SIZE(128)) OF ListOf144q,	
fRM256	SEQUENCE (SIZE(256)) OF ListOf144q,	
fRM512	SEQUENCE (SIZE(512)) OF ListOf144q,	
fRM1024	SEQUENCE (SIZE(1024)) OF ListOf144q	

ASN.1 Type Definition	
Type Name	ListOf144q
Comment	This type holds (1144) values of the 'q' for a frame which MICH CFN = the SFN of the P-CCPCH radio frame during which the start of the MICH radio frame occurs The values of q are calculated by TTCN according to formula:
	$q = \left[((C \times (NI \oplus ((C \times SFN) \mod G))) \mod G) \times \frac{Nn}{G} \right]$ where: G = 2 ¹⁶ , C = 25033;
	where: $G = 2^{-1}$, $C = 25033$; NI = Notification Indicator (065535) is computed by the TTCN for each TMGI according to the formula: $NI = (TMGI + \lfloor TMGI/G \rfloor) \mod G \text{ where } G = 2^{16};$
	the number of <i>TMGI</i> could be 1 to 144; SFN = the SFN of the P-CCPCH radio frame during which the start of the MICH radio frame occurs; Nn = the number of notification indicators per frame:
Type Definition	
SEQUENCE (SIZE(1144)) OF INTEGER (0143)	

ASN.1 Type Definition		
Type Name	MICH_CFN	
Comment	Subclause 9.2.1.46a of TS 25.433	
Type Definition		
INTEGER (04095)		

7.3.2.2.6c CPHY_MBMS_NI (Rel-6 or later)

ASN.1 ASP Type Definition			
Type Name	CPHY_MBMS_NI_CNF		
PCO Type	CSAP		
Comment	To confirm CPHY_MBMS_NI_REQ. The routingInfo indicates the MICH physical		
	channel.		
Type Definition			
SEQUENCE {	SEQUENCE {		
cellId	<pre>INTEGER(063),</pre>		
routingInfo RoutingInfo			
}			

	ASN.1 ASP Type Definition		
Type Name	CPHY_MBMS_NI_REQ		
PCO Type	CSAP		
	To request the physical layer to transmit MBMS Notification Indicators on the MICH physical channel. The transmission shall start on the SFN specified by the parameter startingTime and be continued for one modification period indicated by parameter modiPeriodCoefficent. The routingInfo indicates the MICH physical channel. The notification indicators to be transmitted are specified by the parameter indicatorList. If value of invert is TRUE, all notification indicators Nq are set to '0' and all other indicators are set to '1'.		
	Type Definition		
SEQUENCE { cellId routingInfo startingTime modiPeriodCod nIList invert }			

ASN.1 Type Definition		
Type Nan	ne	MBMSIndicatorList
Commer	nt	The TTCN calculates Notification Indicator (NI, 065535) for each TMGI according to the formula: $NI = \left(TMGI + \left\lfloor TMGI / G \right\rfloor\right) \bmod G \text{ where } G = 2^{16} \text{ and sends these NI to the SS by}$
		the MBMSIndicatorList;
		The SS shall calculate the q values for every MICH frame of a modification period according to formula:
		$q = \left\lfloor ((C \times (NI \oplus ((C \times SFN) \mod G)))) \mod G) \times \frac{Nn}{G} \right\rfloor$
		where: G = 2 ¹⁶ , C = 25033;
		SFN = the SFN of the P-CCPCH radio frame during which the start of the MICH
		radio frame occurs;
		Nn = the number of notification indicators per frame:
		Then the SS sets the bits {b0,, b287} of the MICH frame according to the
		calculated q values which corresponds to the MICH frame. (see
		3GPP TS 25.211 [40] subclause 5.3.3.15)
		Type Definition
CHOICE {		
		(SIZE(118)) OF SEQUENCE { nI INTEGER (065535)},
		(SIZE(136)) OF SEQUENCE { nI INTEGER (0 65535)},
		(SIZE(172)) OF SEQUENCE { nI INTEGER (0 65535)},
nn144 S	SEQUENCE	(SIZE(1144)) OF SEQUENCE { nI INTEGER (0 65535)}

7.3.2.2.7 CPHY_Out_of_Sync

ASN.1 ASP Type Definition			
Type N	Name	CPHY_Out_of_Sync_IND	
PCO Type CSAP		CSAP	
Comment		To report that the physical channel synchronization (in FDD mode, sync with uplink DPCCH) was lost as detected by the SS receiver.	
	Type Definition		
SEQUENCE }	{ cellId routingI	INTEGER(063), nfo RoutingInfo	

7.3.2.2.8 CPHY_PRACH_Measurement

ASN.1 ASP Type Definition			
Type N	Type Name CPHY_PRACH_Measurement_CNF		
PCO T	PCO Type CSAP		
Comm	Comment To Confirm PRACH Measurement Req		
	Type Definition		
SEQUENCE }	{ cellId routingI	INTEGER(063), nfo RoutingInfo	

ASN.1 ASP Type Definition			
Type N	Type Name		
PCO 1	Гуре	CSAP	
Comn	nent	To request for Start or Stop of PRACH Measurements to be done every PRACH	
	PREAMBLE or MESSAGE received.		
Type Definition			
SEQUENCE }	{ cellId routingI: ratType pRACH_Me.	INTEGER(063), info RoutingInfo, RatType, assurementInd PRACH_MeasurementInd	

ASN.1 Type Definition		
Type Name	PRACH_MeasurementInd	
Comment	StartMeas: The SS shall start the sending PRACH parameters Measurement report on CPHY PCO, for each PRACH Preamble or MESSAGE received from the UE by primitive CPHY_PRACH_Measurement_Report_IND on CPHY PCO. StopMeas: The SS shall stop sending of PRACH parameters Measurement report on CPHY PCO, for each PRACH Preamble or MESSAGE received from the UE by primitive CPHY_PRACH_Measurement_Report_IND on CPHY PCO.	
	Type Definition	
<pre>ENUMERATED { startMea stopMeas }</pre>	,	

ASN.1 ASP Type Definition		
Type Name	CPHY_PRACH_Measurement_Report_IND	
PCO Type	CSAP	
Comment	SS indicates a PRACH parameters measurement report for each PRACH	
	Preambles or MESSAGE received from the UE	
	Type Definition	
SEQUENCE {		
cellId	INTEGER(063),	
routing	Info RoutingInfo,	
ratType	RatType,	
measure	mentReport PRACH_MeasurementReport	
}		

	ASN.1 Type Definition			
Type N	Type Name PRACH_MeasurementReport		urementReport	
Comn	nment			
	Type Definition			
SEQUENCE }		H_AcessSlot H_Signature	INTEGER (014), INTEGER (015) OPTIONAL	

7.3.2.2.9 CPHY_RL_Modify

ASN.1 ASP Type Definition				
Type Na	Type Name CPHY_RL_Modify_CNF			
PCO T	PCO Type CSAP			
Comm	Comment To confirm to modify the Radio Link			
		Type Definition		
SEQUENCE {		INTEGER(063), nfo RoutingInfo		

ASN.1 ASP Type Definition			
Type Name	CPHY_RL_Modify_REQ		
PCO Type	CSAP		
Comment	To request to modify the R	adio Link	
	HardHandover (PhysicalCh	hannelReconfig)	
	ChannelizationCodeChang	ge	
	FrequencyChange		
	PhysicalChannelModifyFor	rTrCHReconfig	
	CompressedMode(PhysicalChannelReconfig)		
	Re_Synchronized HardHandover		
	Softhandover		
	Type I	Definition	
SEQUENCE {			
cell	Id INT	TEGER(063),	
	3	utingInfo,	
ratT		Type,	
modifyMessage		nyRlModifyReq	
}			

ASN.1 Type Definition		
Type Name	CphyRlModifyReq	
Comment		
	Type D	Definition
SEQUENCE {		
activationTime	SS_Activ	vationTime,
physicalChannelIn	nfo	
CHOICE {		
	-	<pre>Dpch_CompressedModeStatusInfo,</pre>
secondary	yCCPCHInfo Seco	ondaryCCPCHInfo,
pRACHInfo	PRAC	CHInfo,
dPCHInfo		HInfo,
dPCHInfo	_	HInfo_r50rLater, Rel-5 or later
hS_PDSCH		PDSCHInfo_r50rLater, Rel-5 or later
e_DPCHIn	-	E_DPCH_Info, Rel-6 or later
e_AGCHIni	-	E_AGCH_Info, Rel-6 or later
e_HICHInfo		E_HICH_Info, Rel-6 or later
e_RGCHInfo		E_RGCH_Info, Rel-6 or later
mBMS_MICHInfo		S_MICHConfigurationInfo_r6 Rel-6 or later
},		
trchConfigToFollow		BOOLEAN DEFAULT TRUE
}		

ASN.1 Type Definition			
Type Name	SS_ActivationTime		
Comment			
Type Definition			
CHOICE {	CHOICE {		
activationCFN ActivationTime,			
activateNow	NULL		
}			

7.3.2.2.10 CPHY_RL_Release

ASN.1 ASP Type Definition			
Type Name	CPHY_ RL_Release_CNF		
PCO Type	CSAP		
Comment	PHY emulator confirms that a specified physical channel has been released.		
Type Definition			
SEQUENCE {			

ASN.1 ASP Type Definition			
Type Name	CPHY_RL_Release_REQ		
PCO Type	CSAP		
Comment	To request to release the Radio Link		
	Type Definition		
SEQUENCE {	INTEGER(063), gInfo RoutingInfo, tionTime SS_ActivationTime		

7.3.2.2.11 CPHY_RL_Setup

ASN.1 ASP Type Definition			
Type Na	Type Name CPHY_RL_Setup_CNF		
PCO Ty	PCO Type CSAP		
Comme	Comment To confirm to setup the Radio Link		
		Type Definition	
SEQUENCE	SEQUENCE { cellid		
}	routingIn	nfo RoutingInfo	

ASN.1 ASP Type Definition			
Type Name	CPHY_RL_Setup_REQ		
PCO Type	CSAP		
Comment	To request to setup the associated transport channels and the Radio Link itself.		
	Type Definition		
SEQUENCE { cellId routingI ratType setupMes	RatType,		
}	op.i, i.i.zoodp.ioq		

```
ASN.1 Type Definition
     Type Name
                        CphyRISetupReq
      Comment
                        To request to setup the Radio Link
                                            Type Definition
SEQUENCE
         physicalChannelInfo
                                           CHOICE
                                             PrimaryCPICHInfo,
             primaryCPICHInfo
              secondaryCPICHInfo
                                               SecondaryCPICHInfo,
                                               PrimarySCHInfo,
              primarySCHInfo
              secondarySCHInfo
                                              SecondarySCHInfo,
              primaryCCPCHInfo
                                               PrimaryCCPCHInfo,
              secondaryCCPCHInfo
                                              SecondaryCCPCHInfo,
             pRACHInfo
                                               PRACHInfo,
             pICHInfo
                                               PICHInfo,
              aICHInfo
                                               AICHInfo,
              dPCHInfo
                                               DPCHInfo,
             pDSCHInfo
                                               PDSCHInfo,
              dPCHInfo_r5
                                               DPCHInfo_r5OrLater, -- Rel-5 or later
             hS_PDSCHInfo
                                               {\tt HS\_PDSCHInfo\_r5OrLater}, \ {\tt --} \ {\tt Rel-5} \ {\tt or} \ {\tt later}
                                             SS_E_DPCH_Info, -- Rel-6 or later
SS_E_AGCH_Info, -- Rel-6 or later
SS_E_HICH_Info, -- Rel-6 or later
SS_E_RGCH_Info, -- Rel-6 or later
              e_DPCHInfo
              e_AGCHInfo
              e_HICHInfo
              e_RGCHInfo
              mBMS MICHInfo
                                               MBMS MICHConfigurationInfo r6 -- Rel-6 or later
    },
         activationTime
                                          SS ActivationTime,
                                                             DEFAULT TRUE
         trchConfigToFollow
                                          BOOLEAN
```

	ASN.1 Type Definition			
Type N	Type Name PrimaryCPICHInfo			
Comr	Comment			
	Type Definition			
SEQUENCE }		er_PCPICH sityIndicator	DL_TxPower_PCPICH, BOOLEAN	

```
ASN.1 Type Definition

Type Name SecondaryCPICHInfo

Comment

Type Definition

SEQUENCE {

scramblingCode INTEGER(0..15),
dl_ChannelizationCode SF512_AndCodeNumber,
dl_TxPower

DL_TxPower

}
```

ASN.1 Type Definition					
Type Name	PrimarySCHInfo				
Comment					
	Type Definition				
SEQUENCE {					
tstdIndi	cator BOOLEAN,				
dl_TxPow	er DL_TxPower				
}					

	ASN.1 Type Definition				
Type I	e Name SecondarySCHInfo				
Comi	Comment				
	Type Definition				
SEQUENCE }	{ tstdIndi dl_TxPow	,			

	ASN.1 Type Definition				
Type I	Type Name PrimaryCCPCHInfo				
Comi	ment				
	Type Definition				
SEQUENCE	{				
	sttd_Ind	dicator BOOLEAN,			
dl_TxPower		ver DL_TxPower			
}					

		ASN.1 Type Definition
Type Name	SecondaryCCPC	HInfo
Comment	6 dB, 0.25 dB pe mbms_softComb When configuring	werOffsetOfTFCI_PO1 and powerOffsetOfPILOT_PO3 is 0 dB to r step. TimingOffset is present when L1-combination applies g SCCPCH for MBMS 'positionFixedOrFlexible' shall be set to CPCHSlotFormat shall be chosen to the one without pilot bits
	,	Type Definition
SEQUENCE { scramblingCo dl_Channeliz sCCPCHSlotFo timingOffset positionFixe sttd_Indicat dl_TxPower powerOffsetO powerOffsetO	ationCode rmat dOrFlexible or fTFCI_PO1	INTEGER(015), SF256_AndCodeNumber, SCCPCHSlotFormat, INTEGER (0149), PositionFixedOrFlexible, BOOLEAN, DL_TXPOWER, INTEGER (024), INTEGER (024),
<u> </u>	bTimingOffset	MBMS_SoftComb_TimingOffset OPTIONALRel-6 or later

	ASN.1 Type Definition					
Type Name	PRACHInfo					
Comment						
	Type Definition	1				
SEQUENCE { fdd_tdd	CHOICE {					
},	ENCE { preambleSignature spreadingFactorForDataPart preambleScramblingCode puncturingLimit accessSlot ENCE {	AvailableSignatures, SF_PRACH, PreambleScramblingCodeWordNumber, PuncturingLimit, AvailableSubChannelNumbers				
}	timeSlot spreadingCode midambleCode	TimeSlot, SpreadingCode, MidambleCode,				

	ASN.1 Type Definition			
Type I	Name	PICHInfo		
Comi	ment			
			Type Definition	
SEQUENCE	{			
	pichinfo		PICH_Info,	
	dl_TxPow	er	PICH_PowerOffset,	
	sccpchId	associated	INTEGER (031)	
}		_		

	ASN.1 Type Definition				
Type I	Name	AICHInfo			
Comr	ment				
	Type Definition				
SEQUENCE	{				
	aichinfo		AICH_Info,		
	dl_TxPow	er	AICH_PowerOffset		
}					

	ASN.1 Type Definition				
Type I	Type Name DPCHInfo				
Comi	Comment At least one of the fields shall be present.				
	Type Definition				
SEQUENCE }	{ ul_DPCHI dl_DPCHI		L_DPCH_Info L_DPCHInfo	OPTIONAL, OPTIONAL	

	ASN.1 Type Definition			
Type I	Name	DL_DPCHInfo		
Comr	ment			
			Type Definition	
SEQUENCE	_	nInformation InfoPerRL mation	DL_CommonInformation, DL_DPCH_InfoPerRL, RL_Information	

	ASN.1 Type Definition				
Type N	Type Name HS_DPCCHInfo				
Comr	ment				
	Type Definition				
SEQUENCE		titionFactor epetitionFactor	CQI_RepetitionFactor, ACK_NACK_repetitionFactor		

	ASN.1 Type Definition				
Type I	Name	DL_DPCHInfo_r5			
Comr	ment	Applicable Rel-5 o	or later		
	Type Definition				
SEQUENCE		nInformation InfoPerRL mation	DL_CommonInformation_r5, DL_DPCH_InfoPerRL_r5, RL_Information		

ASN.1 Type Definition				
Type Name	DL_TxPower_PCPICH			
Comment	Comment Absolute Tx Power of PCPICH			
Type Definition				
INTEGER (-6030)				

ASN.1 Type Definition		
Type Name	DL_TxPower	
Comment	Downlink Tx Power relative to PCPICH	
Type Definition		
INTEGER (-35+15)		

ASN.1 Type Definition		
Type Name	SCCPCHSlotFormat	
Comment	Comment Reference to 3GPP TS25.211 [Error! Reference source not found.]	
Type Definition		
INTEGER (017)		

	ASN.1 Type Definition
Type Name	PDSCHInfo
Comment	
	Type Definition
SEQUENCE {	
fdd_tdd	CHOICE {
fdd	SEQUENCE {
	pdsch_CodeMapping PDSCH_CodeMapping
	},
tdd	SEQUENCE {
	pdsch_Identity PDSCH_Identity,
	pdsch_Info PDSCH_Info,
	pdsch_PowerControlInfo PDSCH_PowerControlInfo OPTIONAL
	},
	},
dl_TxPower	DL_TxPower
}	

ASN.1 Type Definition				
Type Na	me DPCHInfo_r5OrLater			
Commo	ent App	licable Rel-5 or later		
	Pre upli upli In th con Thre	Applicable Rei-5 of later At least one of the first two fields ul_DPCHInfo or dl_DPCHInfo shall be present. Presence of hs_DPCCHInd means that the HS-DPCCH shall be configured in the uplink DPCH. If hs_DPCCHInd is absent no HS-DPCCH shall be configured in the uplink DPCH, or the configured HS-DPCCH shall be removed in the modify ASP. In the active set which has radio links from more than one cell the HS-DPCCH is configured only in the HS-DSCH serving cell. Three combinations are valid: ul_DPCH_Info only, dl_DPCHInfo only and		
	[ui_L	DPCH_Info + hs_DPCCHInd		
CHOICE {		Type Defin	iitioii	
	JENCE {			
			OPTIONAL,	
}, r6	SEQUENCE { ul_DPCHInfo dl_DPCHInfo hs_DPCCHInd	DL_DPCHInfo_r6	OPTIONAL,	
_	SEQUENCE {}, SEQUENCE {}			

ASN.1 Type Definition			
Type Name	Type Name DL_DPCHInfo_r6		
Comment Applicable Rel-5 or later. For SS reconfiguration from DL-DPCH to F-DPCH and vice versa the dl_CommonInformation shall include the defaultDPCH_OffsetValue as additional information for SS even when this is not included in the corresponding RRC message sent to the UE and the timing is maintained.			
	T	ype Definition	
dl_Dpch_	nInformation InfoPerRL dl_DPCH_InfoPerRL dl_FDPCH_InfoPerRL }, mation	DL_CommonInformation_r6, CHOICE {	

	ASN.	1 Type Definition	
Type Name H	IS_PDSCHInfo_r5Orl	Later	
Comment A	Applicable Rel-5 or later		
	When CHY_RL_Setup_REQ is called with CHOICE of hS_PDSCHInfo		
		SCCH shall be configured in SS.	
		CH related parameters are passed to the SS implicitly by	
H	ISDSCH_physical_la		
		er of HS-DSCH codes can be received by UE.	
	- Minimum inter-T		
		er of bits of an HS-DSCH transport block within an	
	HS-DSCH TTI.	and the second bits!	
		soft channel bits".	
	iSDSCH_pnysicai_La f CQI value.	ayer_category is also used for interpretation of the meaning	
O		ype Definition	
CHOICE {	I	ype Delillidon	
r5 SEQUENCE {			
hSDSCHPhysical	LayerCategory	HSDSCH_physical_layer_category,	
h_RNTI		H_RNTI,	
dlHSPDSCHInfor sttd Indicator		DL_HSPDSCH_Information, BOOLEAN.	
hs SCCH TxPowe		DL TxPower offset related to CPICH	
]	-	DI_INIONGI OTIDGE TOTACCA CO CITCH	
r6 SEQUENCE {			
hSDSCHPhysical	LayerCategory	HSDSCH_physical_layer_category,	
h_RNTI dlHSPDSCHInfor		H_RNTI,	
sttd Indicator		DL_HSPDSCH_Information_r6, BOOLEAN,	
hs SCCH TxPowe		DL TxPower offset related to CPICH	
},		_	
spare1 SEQUENCE {			
spare2 SEQUENCE {	[}		
}			

ASN.1 Type Definition				
Type Name	SS_E_DPCH_Info			
Comment	Rel-6 or later.			
	If there is an UL-DPCH configured in the cell the E-DPCH shall use the same			
	scramblingCodeType and scramblingCode as the UL-DPCH			
	Type Definition			
SEQUENCE {				
e_DPCCH_Info	E_DPCCH_Info,			
e_DPDCH_Info	e_DPDCH_Info			
scramblingCodeTyp	pe ScramblingCodeType OPTIONAL,			
scramblingCode	<pre>UL_ScramblingCode OPTIONAL,</pre>			
tti	E_DCH_TTI OPTIONAL,			
edch_PhysicalLaye	erCategory INTEGER (116)			
}				

```
ASN.1 Type Definition
     Type Name
                         SS_E_AGCH_Info
      Comment
                         Rel-6 or later.
                                           Type Definition
SEQUENCE {
                                       E_AGCH_Information,
         e_AGCHInfo
         tti
                                      E_DCH_TTI,
                                      INTEGER (0..255)
         e_AGCH_PowerOffset
                                 -- Range and Step are FFS (25.433, 9.2.2.13If)
-- Offset relative to P-CPICH,
         e_RNTI_Primary
e_RNTI_Secondary
                                      E_RNTI OPTIONAL,
E_RNTI OPTIONAL
```

ASN.1 Type Definition			
Type Name	SS_E_RGCH_Info		
Comment	Rel-6 or later.		
	Type Definition		
SEQUENCE {	E_RGCH_Information, E_DCH_TTI, Offset INTEGER (0255) Range and Step are FFS (25.433, 9.2.2.13Ie) Offset relative to P-CPICH		

ASN.1 Type Definition			
Type Name	RL_Information		
Comment	The range for powerOffsetOfTPC_PO2 and powerOffsetOfTFCI_PO1 and powerOffsetOfPILOT_PO3 is 0 dB to 6 dB, 0,25 dB per step. The IE cfnTgtSfnFrameOffset is applied when adding another RL or moving the UE to another cell in DCH state in the timing-maintained hard handover or in the softhandover. The cfnTgtSfnFrameOffset is defined as being the time difference between the CFN and the SFN of the cell in which the RL is to be added. The use of cfnTgtSfnFrameOffset and DOFF (Default DPCH Offset Value) is mutually exclusive. The IE cfnTgtSfnFrameOffset is omitted when configuring the 1 st RL, or configuring the RL in the timing re-initialized hard handover where the required synchronization information is provided in defaultDPCH_offsetValue in DL_CommonInformation. In addition, TmTgt value is provided to dpch_FrameOffset in DL_DPCH_InfoPerRL_r5 or DL_DPCH_InfoPerRL_r6 as CFNchipOffset_Tgt. TmTgt can be observed by the UE, or calculated by the TTCN. If it is calculated, TmTgt = (DOFF*512 + 38400 + TCell_Ref - TCell_Tgt) Mod 38400		
	Тур	pe Definition	
sequence { powerOffsetO powerOffsetO powerOffsetO dl_TxPower dl_TxPowerMa dl_TxPowerMi cfnTgtSfnFra }	fTPC_P02 fPILOT_P03 : x : n :	INTEGER (024), INTEGER (024), INTEGER (024), DL_TxPower, DL_TxPower, DL_TxPower, CfnTgtSfnFrameOffset	OPTIONAL

ASN.1 Type Definition		
Type Name	CfnTgtSfnFrameOffset	
Comment	 The observedValue is provided if the UE reads SFN when measuring "Cell synchronization information" and sends it to the SS in MEASUREMENT REPORT message. The OFF value in IE COUNT-C-SFN frame difference is applied to the observedValue. If the synchronization between the target cell and the reference cell is calculated the calculatedAbsoluteValue is applied. Depending upon how to interpret SfnOffset two valid calculations exist. If SfnOffset is interpreted as the frames lagging behind: calculated_sfnLagging = (((4096 * 38400) + SfnOffset_Ref * 38400 + TCell_Ref + DOFF*512 - (SfnOffset_Tgt * 38400 + TCell_Tgt)) mod (256 * 38400)) / 38400 If SfnOffset is interpreted as the frames in advance: calculated_sfnInAdvance = (((4096 + SfnOffset_Tgt - SfnOffset_Ref) * 38400 + TCell_Ref + DOFF*512 - TCell_Tgt) mod (256 * 38400)) / 38400 The formula can be further simplified in the default condition if SfnOffset_Ref and TCell_Ref are equal to 0: calculated_sfnLagging = (((4096 * 38400)) + DOFF*512 - (SfnOffset_Tgt * 38400 + TCell_Tgt)) mod (256 * 38400)) / 38400 calculated_sfnInAdvance = ((DOFF*512 + SfnOffset_Tgt * 38400 - TCell_Tgt) Mod (256 * 38400)) / 38400 calculated_sfnInAdvance = (calculated_sfnLagging + 2* SfnOffset_Tgt) mod 256 calculated_sfnInAdvance = (calculated_sfnInAdvance + (4096 - SfnOffset_Tgt) * 2) mod 256 The TTCN provides calculated_sfnLagging. 	
	Type Definition	
SEQUENCE { referenceCel	lid INTEGER(063),	
cfnFrameOffs		
observed	INTEGER (0255),	
calculat }	ed INTEGER (0255) }	

7.3.2.2.12 CPHY_Sync

ASN.1 ASP Type Definition		
Type Name	CPHY_Sync_IND	
PCO Type	CSAP	
Comment	To indicate that physical channel synchronization (in FDD mode, sync with DPCCH) has been achieved.	
	Type Definition	
SEQUENCE {		
cell	Id INTEGER(063),	
rout	ingInfo RoutingInfo	

7.3.2.2.12a CPHY_HS_DPCCH_AckNack (Rel-5 or later)

ASN.1 ASP Type Definition		
Type Name	CPHY_HS_DPCCH_AckNack_CNF	
PCO Type	CSAP	
Comment	Comment Applicable Rel-5 or later	
	To Confirm CPHY_HS_DPCCH_AckNack_REQ	
	Type Definition	
SEQUENCE {		
cellId	INTEGER(063)	
}		

	ASN.1 ASP Type Definition				
Type I	Name CPHY_	HS_DPCCH_AckNack_REQ			
PCO '	Type CSAP				
Comi	To requ HARQ	Ible Rel-5 or later uest for start or stop reporting Ack/Nack received on the HS-DPCCH for the process hARQProcessId. nitialization the SS is at the "sTOPRep" state without reporting any ck			
		Type Definition			
SEQUENCE	{ cellId ratType ackNackReportRe hARQProcessId	INTEGER(063), RatType, eq AckNackReportReq, INTEGER(07)			

ASN.1 Type Definition			
Type Name	AckNackReportReq		
Comment	Applicable Rel-5 or later		
	startRep: The SS shall start reporting the HARQ-ACK information received on HS-DPCCH by primitive CPHY_HS_DPCCH_AckNack_IND on CPHY PCO. stopRep: The SS shall stop reporting.		
	Type Definition		
<pre>ENUMERATED {</pre>			

ASN.1 ASP Type Definition			
Type Name	CPHY_HS_DPCCH_AckNack_IND		
PCO Type	CSAP		
Comment	Applicable Rel-5 or later		
	SS reportes the HARQ-ACK information received on HS_DPCCH,		
	each received Ack/Nack generates a CPHY_HS_DPCCH_AckNack_IND		
	Type Definition		
SEQUENCE {			
cellId	INTEGER(063),		
ratType	RatType,		
hARQ_ACK	Info $= \text{ENUMERATED } \{ \text{ack}(0), \text{nack } (1) \},$		
hARQProc	essId INTEGER(07)		
}			

7.3.2.2.12b CPHY_HS_DPCCH_CQI (Rel-5 or later)

ASN.1 ASP Type Definition				
Type Na	ame	CPHY_HS_DPCCH_CQI_CNF		
PCO Ty	уре	CSAP		
Commo	ent	Applicable Rel-5 or later		
		To Confirm CPHY_HS_DPCCH_CQI_REQ		
		Type Definition		
SEQUENCE	{			
,	cellId	INTEGER(063)		
}				

	ASN.1 ASP Type Definition				
Type Name		CPHY_HS_DPCCH_CQI_REQ			
PCO '	Туре	CSAP			
Comment		Applicable Rel-5 or later To enable the SS to start reporting N times of the CQI value received on the HS- DPCCH. After N times the SS stops reporting. N is specified in numberOfReports. At the SS initialization reporting of CQI values is disabled			
		Type Definition			
SEQUENCE }	{ cellId ratType numberOfF	INTEGER(063), RatType, Reports INTEGER(132)			

ASN.1 ASP Type Definition				
Type Name	CPHY_HS_DPCCH_CQI_IND			
PCO Type	CSAP			
Comment	Applicable Rel-5 or later			
	SS generates the indication when a CQI value is received on HS_DPCCH after invocation of ASP CPHY_HS_DPCCH_CQI_REQ and before the numberOfReports is reached. This ASP is used for verifying whether the UE has configured the HS-DSCH and starts reception of HS-DSCH (3GPP TS 25.331 [21], clause 8.6.6.34).			
	Type Definition			
SEQUENCE {	INTEGER(063), RatType, INTEGER (030)			

7.3.2.2.12c CPHY_HS_DSCH_CRC_Mode (Rel-5 or later)

ASN.1 ASP Type Definition					
Type Name	CPHY_HS_DSCH_CRC_Mode_CNF				
PCO Type	CSAP				
Comment	Applicable Rel-5 or later				
	Confirm a previous CPHY_HS_DSCH_CRC_Mode_REQ being successful.				
	Type Definition				
SEQUENCE {	SEQUENCE {				
cellId INTEGER(-163),					
routingInfo	RoutingInfo				
}					

	ASN.1 ASP Type Definition				
Type Name		CPHY_HS_DSCH_CRC_Mode_REQ			
PCO Ty	уре	CSAP			
Comm	ent	Applicable Rel-5 or later			
		To set the CRC calculation mode for HS-DSCH.			
		If mode = normal, the SS generates the correct CRC.			
		If mode = erroneous, the SS generates any wrong CRC value which is different			
		from the correct one on the specified MACdFlow.			
		As default, the normal mode is applied. When the HS-DSCH first configured or			
		reconfigured the SS enters the normal CRC calculation mode.			
		Type Definition			
SEQUENCE	{				
cellId		INTEGER(-163),			
routingIn		9 .			
mac_dFlow					
mode		<pre>ENUMERATED {normal(0), erroneous(1)}</pre>			
}					

7.3.2.2.13 CPHY_TrCH_Config

ASN.1 ASP Type Definition			
Type Name CPHY_TrCH_Config_CNF			
PCO 1	Гуре	CSAP	
Comn	nent	To confirm to configure the transport channel	
		Type Definition	
SEQUENCE }	{ cellId routingI	INTEGER(063), nfo RoutingInfo	

ASN.1 ASP Type Definition				
Type N	Name	CPHY_TrCH_Config_REQ		
PCO Type		CSAP		
Comr	nent	To request to configure the transport channel		
		Type Definition		
SEQUENCE	{ cellId routingI: ratType trchConf. configMe	RatType, igType TrchConfigType,		

ASN.1 Type Definition				
Type Name	CphyTrchConfigReq			
To request to configure the transport channel. The same TFCS information should be provided to the PHY and MAC layers at all times. When a CPHY_TrCH_Config_REQ is used to configure the PHY layer, a corresponding CMAC_Config_REQ should be sent to the MAC layer to ensure that the configuration is consistent. HS-DSCH MAC-d flows or E-DCH MAC-d flows shall be separately configured whilst the ulconnectedTrCHList, ulTFCS, dlconnectedTrCHList and dlTFCS are omitted. For configuring MBMS if the default TFCS used in the RRC message the dLTFTS shall use the 'complete' CHOICE in 'ExplicitTFCS-Configuration ' IE and the TFCS configuration shall be in line with clauses 14.10.1.1/14.10.1.2 of 3GPP TS 25.331 [21].				
	Type Definition			
tro ul_ tra ulTFCS dlconnected tro dl_	TransportChannelType SS_UL_TransportChannelType, InsportChannelInfo CommonOrDedicatedTFS TFCS OPTIONAL, ITCHList SEQUENCE (SIZE (0maxTrCH)) OF SEQUENCE { InsportChannelInfo CommonOrDedicatedTFS TFCS OPTIONAL, ITCHList SEQUENCE (SIZE (0maxTrCH)) OF SEQUENCE { InsportChannelInfo CommonOrDedicatedTFS TransportChannelType SS_DL_TransportChannelType, InsportChannelInfo CommonOrDedicatedTFS			
dlTFCS hsDSCHMacdF e_DCHMacdFl }				

ASN.1 Type Definition				
Ту	pe Name	RoutingInfo		
C	omment	To route between	each channels.	
			Type Definition	
CHOICE	{ physicalChan transportChan logicalChann	nnelIdentity	INTEGER TransportChannelIdent LogicalChannelIdentit	1,
<pre>rB_Identity cn_DomainIdentity }</pre>		INTEGER CN_DomainIdentity	{-3132},	

ASN.1 Type Definition			
Type Name		RatType	
Comment		To select route between each channels.	
Type Definition			
ENUMERATED }	{ fdd (0),	tdd (1)	

	ASN.1 Type Definition		
Type Name	CommonOrDedicatedTFS		
Comment	Transport Format Set		
	Type Definition		
SEQUENCE {			
tti	CHOICE {		
tti10	CommonOrDedicatedTF_InfoList,		
tti20	CommonOrDedicatedTF InfoList,		
tti40	CommonOrDedicatedTF InfoList,		
tti80	CommonOrDedicatedTF InfoList,		
dynamic	CommonOrDedicatedTF InfoList DynamicTTI		
},			
semistaticTF_Ir	formation SemistaticTF_Information		
}			

ASN.1 Type Definition				
Type Name CommonOrDedicatedTF_InfoList				
Comment	Transport Format Set			
Type Definition				
SEQUENCE (SIZE (1maxTF)) OF CommonOrDedicatedTF_Info				

ASN.1 Type Definition			
Type Name	CommonOrDedicatedTF_Info		
Comment	Transport Format Set		
Type Definition			
<pre>SEQUENCE { tb_Size numberOfTbSizeLi logicalChannelLi }</pre>	~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~		

ASN.1 Type Definition				
Type Name	Type Name CommonOrDedicatedTF_InfoList_DynamicTTI			
Comment	Transport Format Set for TDD mode			
Type Definition				
<pre>sequence { tb_Size numberOfTbSizeLi logicalChannelLi }</pre>				

ASN.1 Type Definition			
Type Name	Type Name TrchConfigType		
Comment	Comment		
Type Definition			
CHOICE {			

ASN.1 Type Definition				
Type Name	HS_DSCHMACdFlows			
	Applicable Rel-5 or later Within the ACK/NACK repetition period indicated by ackNackRepetitionFactor the			
	SS shall not transmit MAC-hs PDU's on HS-PDSCH.			
	Type Definition			
SEQUENCE {				
harqInfo		HARQ_Info	OPTIONAL,	
addOrReconfM		SS_AddOrReconfMAC_dFlow	OPTIONAL,	
ackNackRepetitionFactor ACK_NACK_repetitionFactor OPTIONAL				

ASN.1 Type Definition				
Type Name	SS_AddOrReconfMAC_dFlow			
Comment	Applicable Rel-5 or later			
Type Definition				
SEQUENCE {				
	<pre>mac_hs_AddReconfQueue_List</pre>			
	mac_hs_AddReconfQueue SS_MAC_hs_AddReconfQueue} OPTIONAL,			
mac_hs_DelQueue_List				
	mac_hsQueueId INTEGER(07)} OPTIONAL			
}				

ASN.1 Type Definition			
Type Name	SS_MAC_hs_AddReconfQueue		
Comment	Applicable Rel-5 or later		
The priority of PriorityQueue shall set according to the priority of logical cl which is mapped on to this priority queue.			
Note: the range of priority of PriorityQueue is from 0 to 7 and 0 is the priority.			
	DiscardTimer defines the time (unit ms) to live for a MAC-hs SDU starting from the instant of its arrival into an HSDPA Priority Queue. The SS shall use this information to discard out-of-data MAC-hs SDUs from the HSDPA Priority Queues.		
	Type Definition		
SEQUENCE {			
mAChsAddReconfQu	eue MAC_hs_AddReconfQueue,		
logicalChannelLi	SEQUENCE OF LogicalChannelIdentity, logical channels mapping onto the priority queue which is specified in maChsAddReconfQueue		
priority	INTEGER(07),		
discardTimer	ENUMERATED {		
v20(0), v40(1), v60(2), v80(3), v100(4), v120(5), v140(6), v160(7), v180(8), v200(9),			
v250(10), v300(11), v4	00(12), v500(13), v750(14), v1000(15), v1250(16), v1500(17), v1750(18), v20		
00(19),v2500(20),v30	00(21), v3500(22),v4000(23),v4500(24),v5000(25), v7500(26) } OPTIONAL		

ASN.1 Type Definition				
Type Name	E_DCHMACdFlov	VS		
Comment	Rel-6 or later			
Type Definition				
SEQUENCE {				
tti		E_DCH_TTI,		
harq_Info		ENUMERATED {rv0 (0), rvtable (1)},		
addReconf_MA	C_d_FlowList	E_DCH_AddReconf_MAC_d_FlowList OPTIONAL		
}				

7.3.2.2.14a CPHY_UL_PowerModify

		ASN.1 ASP Type Definition	
Type Name CF		CPHY_UL_PowerModify_CNF	
PCO Type		CSAP	
Comment		To confirm the increase/decrease in UE uplink DPCH power transmission or send	
		the TPC commands as instructed.	
		Type Definition	
SEQUENCE	{ cellId routingI	INTEGER(063), nfo RoutingInfo	
}			

	A	SN.1 ASP Type Definition	
Type Name CPHY_UL_PowerModify_REQ		verModify_REQ	
PCO Type CSAP			
Comment	value given in d maximum or mi transmission po For routing Info For IE ul_DPCH given. SS can u Ul_UE_TxPowe increase/decrea	To request increase/decrease in the UE uplink DPCH transmission by the delta value given in dB, from the existing transmission level or make UE to transmit at maximum or minimum power level. It is assumed that the UE UL DPCH transmission power level is set to -20 dbm by default at beginning of each test. For routing Info the DI DPCH Physical channel ID shall be used. For IE ul_DPCH_Id, the physical channel ID of associated UL DPCH shall be given. SS can use it or neglect it. UI_UE_TxPower gives either the value in dB, by which SS shall increase/decrease the uplink transmission power of UE from the existing transmission power, when this primitive is called or Start transmission of TPC	
		Type Definition	
SEQUENCE { cellId routingInfo ul_DPCH_Id ul_UE_Tx_Power }		<pre>INTEGER(063), RoutingInfo, INTEGER(031), Ul_UE_Tx_Power</pre>	

	ASN.1 Type Definition			
Ту	pe Name	UI_UE_Tx_Power		
Choice delta gives the value in dB, by which the existing UE UL DPCH transmission power level is to be increased or decreased. After reaching the desired level SS shall make UE to maintain this new transmission power level. With Choice maxMin, and ENUM 'tpc_Up' selection, SS shall start transmitting TPC commands on the DL DPCCH, as '1' every slot so as to ask UE to increase the transmission power. With Choice maxMin, and ENUM 'tpc_Down' selection, SS shall start transmitted transmission power. With Choice maxMin, and ENUM 'tpc_Maintain' selection, SS will start transmitting TPC commands on the DL DPCCH, as alternate '0' and '1' in		transmission power level is to be increased or decreased. After reaching the new desired level SS shall make UE to maintain this new transmission power level. WithChoice maxMin, and ENUM 'tpc_Up' selection, SS shall start transmitting TPC commands on the DL DPCCH, as '1' every slot so as to ask UE to increase the transmission power. With Choice maxMin, and ENUM 'tpc_Down' selection, SS shall start transmitting TPC commands on the DL DPCCH, as '0' every slot so as to ask UE to decrease the transmission power. With Choice maxMin, and ENUM 'tpc_Maintain' selection, SS will start		
		Type Definition		
CHOICE }	{ deltaINTEGER maxMin	<pre>(-6463) ENUMERATED{ tpc_Up(0), tpc_Down(1), tpc_Maintain(2) }</pre>		

7.3.2.2.14 CPHY_TrCH_Release

ASN.1 ASP Type Definition				
Type Name	CPHY_TrCH_Release_REQ			
PCO Type	CSAP			
Comment	To request to release the Radio Link			
	Type Definition			
SEQUENCE {	5 11 '			
}	_			

ASN.1 ASP Type Definition			
Type Name	CPHY_TrCH_Release_CNF		
PCO Type	CSAP		
Comment	To confirm to release the Radio Link		
	Type Definition		
SEQUENCE {	INTEGER(063), nfo RoutingInfo		

7.3.2.2.15 CMAC_BMC_Scheduling

ASN.1 ASP Type Definition				
Type N	Type Name CMAC_BMC_Scheduling_CNF			
PCO T	PCO Type CSAP			
Comm	Comment To confirm the BMC scheduling.			
		Type Definition		
SEQUENCE }	SEQUENCE { cellId			

	ASN.1 ASP Type Definition				
Type Name	CMAC_BMC_Sche	eduling_REQ			
PCO Type	CSAP				
Comment	Send the BMC sch	Send the BMC scheduling information to the MAC.			
	Type Definition				
	cellId routingInfo ratType schedulingInfo	<pre>INTEGER(063), RoutingInfo, RatType, BMC_SchedulingInfo</pre>			

	ASN.1 Type Definition				
Type Name		BMC_SchedulingInfo			
Comn	nent				
	Type Definition				
SEQUENCE }	{ level1In: level2In:				

	ASN.1 Type Definition				
Type Name		BMC_Schedulin	BMC_SchedulingLevel2Info		
Comment					
	Type Definition				
SEQUENCE }	{ starCtch drxSelec	BsIndex tionBitmap	INTEGER (1256) OCTET STRING	DEFAULT 1,	

	ASN.1 Type Definition					
Type Name		BMC_SchedulingLevel1Info				
Comment		0 ≤ K ≤ N-1 (3GPP TS 25.331 [21], clause 8.5.16)				
	Type Definition					
SEQUENCE }	{ ctchAllo cbsFrame	cationPeriod Offset		(1256), (0255)	N K	

7.3.2.2.16 CMAC_Ciphering_Activate

ASN.1 ASP Type Definition			
Type Name	CMAC_Ciphering_Activate_CNF		
PCO Type CSAP			
Comment	To confirm to activate or inactivate the ciphering		
	Type Definition		
SEQUENCE {	SEQUENCE {		
cellId INTEGER(-163),			
routingI	nfo RoutingInfo		

	ASN.1 ASP Type Definition				
Type Name	CMAC_Ciphering_Activate_REQ				
PCO Type	CSAP				
Comment	To request to start or restart downlink ciphering or uplink deciphering. The physicalChannelIdentity of DPCH applies to routingInfo. Initialize the 20 MSB of HFN component of COUNT-C to the START value stored. If the value of incHFN is set to "NotInc" the SS initializes the remaining LSBs of HFN component in COUNT-C to zero and the SS shall not increment HFN part of COUNT-C at every CFN cycle. If the value of incHFN is set to "IncPerCFN_Cycle" the SS initializes the remainingLSBs of HFN component in COUNT-C accordingly. If it is absent the SS initialize the LSBs of HFN component in COUNT-C to zero, increments the HFN component in COUNT-C by one and then starts the increment HFN part of COUNT-C at every CFN cycle.				
	Type Definition				
_	INTEGER(-163), RoutingInfo, RatType, nIdentity CN_DomainIdentity, gModeInfo CipheringModeInfo, Increment Mode				

ASN.1 Type Definition			
Type Name	Type Name Increment_Mode		
Comment			
Type Definition			
ENUMERATED {incPerCF	N Cycler(0), notInc(1), incByOne IncPerCFN Cycle(2)}		

7.3.2.2.16a CMAC_FACH_MeasOccas

ASN.1 ASP Type Definition				
Type N	lame	CMAC_FACH_MeasOccas_CNF		
PCO T	уре	CSAP		
Comm	nent	To confirm to config FACH Measurement Occasions		
		Type Definition		
SEQUENCE }	{ cellId routingI	INTEGER(063), nfo RoutingInfo		

ASN.1 ASP Type Definition			
Type Name	CMAC_FACH_MeasOccas_REQ		
PCO Type	CSAP		
Comment	To request MAC layer to configure FACH Measurement Occasions (FMO). If IE "Inter-frequency FDD measurement indicator" is set to TRUE, the UE will start inter-frequency FMO at the activationTime. If this IE is set to FALSE, the UE inter-frequency FMO will be stopped at the activation Time. For the FDD test, the IE "Inter-frequency TDD measurement indicator" is set to FALSE. If IE "Inter-RAT measurement indicators" is included, the UE will start inter-RAT FMO at the activationTime. If this IE is omitted, the UE inter-RAT FMO will be stopped at the activation Time. largest_TTI_Number is the TTI (in number of 10ms frames) of the FACH having		
	Type Definition		
fMO larg	IId INTEGER(063), ingInfo RoutingInfo, FACH_MeasurementOccasionInfo, INTEGER(18), ivationTime SS_ActivationTime		

7.3.2.2.17 CMAC_Config

ASN.1 ASP Type Definition		
Type Name	CMAC_Config_CNF	
PCO Type	CSAP	
Comment	For MAC emulator to report that a previous attempt to setup, reconfigure or release a logical channel is successful.	
	Type Definition	
SEQUENCE {	Id INTEGER(-163), ingInfo RoutingInfo	

ASN.1 ASP Type Definition			
Type Name	Type Name CMAC_Config_REQ		
PCO Type	CSAP		
Comment	Comment To request to configure MAC entity. Setup is used for creation of the MAC instances or the MAC resources. Release is used for free the all MAC resource The reconfiguration is to change the MAC parameters, it is not the MAC modification.		
	Type Definition		
rat	lId tingInfo Type figMessage setup reconfigure release	<pre>INTEGER(-163), RoutingInfo, RatType, CHOICE { CmacConfigReq, CmacConfigReq, SS_ActivationTime</pre>	

ASN.1 Type Definition			
Type Name	Type Name CmacConfigReq		
Comment To request to configure MAC		ure MAC	
Type Definition			
uE_In trCHI		SS_ActivationTime, UE_Info, TrCHInfo, TrCH_LogCHMappingList1	

ASN.1 Type Definition			
Type Name	UE_Info		
Comment	DSCH is configured	I_DSCH_RNTI is 16 bits, used either for C-RNTI or DSCH-RNTI. if the physical channel in CMAC_config_REQ is a PDSCH. s applied. At the MAC-hs configuration both u_RNTI and IT are omitted.	
	Type Definition		
SEQUENCE {	U_RNTI C_RNTI	OPTIONAL, OPTIONAL	

	ASN.1 Type Definition
Type Name	TrCH_LogCHMappingList1
Comment	maxulTrCH = maxdlTrCH = 16
	Type Definition
dlconnectedTr trch trCH dlconnectedMi	TransportChannelIdentity, LogCHMappingList TrCH_LogCHMappingList } OPTIONAL, CCHList SEQUENCE (SIZE (1maxdlTrCH)) OF SEQUENCE { d TransportChannelIdentity, LogCHMappingList TrCH_LogCHMappingList } OPTIONAL,

ASN.1 Type Definition			
Type Name	TrCH_LogCHMappingList		
Comment	maxLogCHperTrCH = 15		
Type Definition			
SEQUENCE (SIZE	(1maxLogCHperTrCH)) OF	TrCH LogicalChannelMapping	

ASN.1 Type Definition		
Type Name	TrCHInfo	
Comment	The same TFCS information should be provided to the PHY and MAC layers at all times. When a CMAC_Config_REQ is used to configure the MAC layer, a corresponding CPHY_TrCH_Config_REQ should be sent to the PHY layer to ensure that the configuration is consistent. For MAC-hs configuration: When ulconnectedTrCHList, ulTFCS, dlconnectedTrCHList and dlTFCS are omitted this ASP configures an MAC-hs entity.	
	Type Definition	
SEQUENCE { ulconnectedT trch tran ulTFCS dlconnectedT trch trch dtransportCha	id TransportChannelIdentity, sportChannelInfo CommonOrDedicatedTFS } OPTIONAL, TFCS OPTIONAL, rCHList SEQUENCE (SIZE (1maxdlTrCH)) OF SEQUENCE { id TransportChannelIdentity,	
hsDSCHMacdFl	,	

ASN.1 Type Definition			
Type Name	TrCH_LogicalChannelMapping		
Comment	When used for logical channel to MAC_d flow mapping		
	dl_LogicalChannelMapping shall be chosen,		
	Type Definition		
SEQUENCE {			
logicalChannel_M	apping CHOICE {		
ul LogicalChannelMapping SS UL LogicalChannelMapping,			
dl_L	ogicalChannelMapping SS_DL_LogicalChannelMapping		
	},		
rB_Identity	INTEGER (-3132) OPTIONAL,		
<pre>cn_DomainIdentit; }</pre>	y CN_DomainIdentity OPTIONAL		

ASN.1 Type Definition		
Type Name	SS_UL_LogicalChannelMapping	
Comment	If the macHeaderManipulation field is 'NormalMacHeader', then data received on the transport channel supporting this logical channel shall have it's MAC header inspected to determine the appropriate routing, and removed as normal. The MAC SDU shall be passed to the appropriate logical channel. If the macHeaderManipulation field is 'OmitMacHeader', then data received on the transport channel supporting this logical channel shall have it's MAC header inspected to determine the appropriate routing, but the MAC layer shall not remove the MAC header. Thus the entire MAC PDU shall be passed to the appropriate logical channel, and the MAC header can be checked by the TTCN.	
	Type Definition	
SEQUENCE { macHeaderManipulul_TransportChan logicalChannelId logicalChannelTy }	nelType SS_UL_TransportChannelType, entity LogicalChannelIdentity,	

		ASN.1 Type Definition
Type Name	SS_DL_LogicalC	
Comment	If the macHeade on this logical che sent to lower lay If the macHeade this logical chanul logical channel typresent. This allo individual fields i When used for E "configured" acc When the logical	rManipulation field is 'NormalMacHeader', then data transmitted lannel shall have an appropriate MAC header added before it is ers for transmission. rManipulation field is 'OmitMacHeader', then data transmitted on the shall not have any MAC header information added, even if the type and mapping indicates that there should be a MAC header ows the entire MAC PDU to be specified in the TTCN, so in the MAC header can be modified. OTCH mapping to MAC_d flow, rlc_SizeList shall choose ording to the configured mAChsAddReconfQueue values. I channel is MTCH, the logicalChannelIdentity shall be consistent icalChIdentity in MBMS_PTM_RBInformation_N and
		Type Definition
SEQUENCE {		,,
macHeaderManipul dlTransportChann logicalChannelId logicalChannelTy rlc_SizeList allSizes configur explicit mac_LogicalChann	elType entity pe ed List	MAC_HeaderManipulation, SS_DL_TransportChannelType, LogicalChannelIdentity, LogicalChannelType, CHOICE {

ASN.1 Type Definition		
Type Name	SS_UL_TransportChannelType	
Comment		
	Type Definition	
ENUMERATED {		
dch (0),		
rach (1),		
cpch (2),		
usch (3),		
edch (4)	Rel-6 or later	
}		

ASN.1 Type Definition		
Type Name	MAC_LogicalChannelPriority	
Comment		
Type Definition		
INTEGER (18)		

```
ASN.1 Type Definition

Type Name | SS_DL_TransportChannelType |
Comment | Type Definition |

ENUMERATED {
    dch (0),
    fach (1),
    bch (2),
    pch (3),
    dsch (4),
    hsdsch (5) -- Rel-5 or later
}
```

```
ASN.1 Type Definition
      Type Name
                          LogicalChannelType
       Comment
                                                Type Definition
ENUMERATED {
     bCCH
                (0),
     pCCH
cCCH
               (1),
               (2),
     \mathtt{cTCH}
               (3),
     dCCH
               (4),
               (5),
     dTCH
     sHCCH
               (6),
                        -- Rel-6 or later
-- Rel-6 or later
-- Rel-6 or later
               (7),
     mTCH
               (8),
(9)
     mCCH
     mSCH
```

ASN.1 Type Definition		
Type N	ame	MAC_HeaderManipulation
Comm	ent	
Type Definition		
ENUMERATED	{	
		acHeader (0), Header (1)
}	Omiteracin	icade1 (1)

7.3.2.2.17a CMAC_MAChs_TFRCconfigure (Rel-5 or later)

ASN.1 ASP Type Definition		
Type Name	CMAC_MAChs_TFRCconfigure_CNF	
PCO Type	CSAP	
Comment	Applicable Rel-5 or later	
	Confirm a previous CMAC_MAChs_TFRCconfigure_REQ being successful.	
Type Definition		
SEQUENCE {		
cellId	INTEGER(-163)	
}		

ASN.1 ASP Type Definition		
Type Name	CMAC_MAChs_TFRCconf	
PCO Type	CSAP	
Comment	+ noOfChannelizationCode If explicitlyConfigured is se parameter values specified resources. If sS_Configured is selecte dynamically select the suita "channelizationCodeOffset tbSizeIndexOnHS_SCCH"	ection in the MAC-hs entity, channelizationCodeOffset es shall not be great than 16. elected in tfrcConfigMode, the SS shall use all the doconfigure a correct transport format and radio ed, the parameter value range is specified. SS shall able values for the parameters "modulationScheme", ", "noOfChannelizatonCodes ", "redundancyVersion" and "hs_PDSCH_TxPower" y category and CQI information reported by the UE.
		Definition
channeli noOfChan tbSizeIn minimumI redundan hs_PDSCH sS_Configure minChann maxNoOfC	onScheme sationCodeOffset nelisationCodes dexOnHS_SCCH nterTTIinterval cyVersions _TxPower }, d SEQUENCE { elisationCodeOffset channelisationCodes SCH_TxPower }	ModulationScheme, INTEGER (115), INTEGER (115), INTEGER (063), INTEGER (13), RedundancyVersionList, DL_TxPower default offset related to p-CPICH or s-CPICH INTEGER (114), INTEGER (115), DL_TxPower default offset related to p-CPICH or s-CPICH
activationTime }	}, SS_Activati	onTime

ASN.1 Type Definition	
Type Name	RedundancyVersionList
Comment	Gives the Redundancy and constellation version coding sequence (Xrv) to be used for every transmission / retransmission. The SIZE (number of Xrv elements in there) of the SEQUENCE implies the number of HARQ transmission / retransmissions to be required.
Type Definition	
SEQUENCE (SIZE (18)) OF INTEGER (07)

ASN.1 Type Definition	
Type Name	ModulationScheme
Comment	
Type Definition	
ENUMERATED {qpsk (0), qam16 (1)}	

ASN.1 ASP Type Definition		
Type Name	CMAC_MAChs_HARQprocAsign_CNF	
PCO Type	CSAP	
Comment	Applicable Rel-5 or later	
	Confirm a previous CMAC_MAChs_HARQprocAsign_REQ being successful.	
Type Definition		
SEQUENCE {		
cellId	INTEGER(-163)	
}		

ASN.1 ASP Type Definition			
Type N	lame	CMAC_MAChs_HARQprocAsign_REQ	
PCO 1	Гуре	CSAP	
Comment		Applicable Rel-5 or later To assign a HARQ process handling the next MAC-hs PDU transmission. This ASP provides TTCN the ability to select an HARQ process serving the next MAC-hs PDU which follows the ASP. After successful transmission the MAC-hs returns back to normal operation. In the normal operation a suitable HARQ process is selected by HARQ entity in the MAC-hs to serve the MAC-hs PDU without TTCN intervening.	
Type Definition			
SEQUENCE }	{ cellId harqProce	INTEGER(-163), ssId INTEGER(07)	

ASN.1 ASP Type Definition		
Type Name	CMAC_MAChs_Reset_CNF	
PCO Type	CSAP	
Comment	Applicable Rel-5 or later	
	Confirm a previous CMAC_MAChs_Reset_REQ being successful.	
Type Definition		
SEQUENCE {		
cellId }	INTEGER(-163)	

ASN.1 ASP Type Definition		
Type Name	CMAC_MAChs_Reset_REQ	
PCO Type	CSAP	
Comment	Applicable Rel-5 or later	
	To reset the MAC-hs entity.	
Type Definition		
SEQUENCE {		
cellId	INTEGER(-163)	
}		

7.3.2.2.17b CMAC_MACe_Config (Rel-6 or later)

ASN.1 ASP Type Definition		
Type Name	CMAC_MACe_Config_CNF	
PCO Type	CSAP	
Comment	Confirm a previous CMAC_MACe_Config_REQ being successful.	
Type Definition		
SEQUENCE {		
nodeB_Id	INTEGER(063)	
[}		

```
ASN.1 ASP Type Definition
     Type Name
                      CMAC_MACe_Config_REQ
     PCO Type
Comment
                      CSAP
                                        Type Definition
SEQUENCE
    nodeB_Id
                          INTEGER(0..63),
    configMessage
                          CHOICE {
                              setup MACeConfig,
reconfig MACeConfig,
                                           NULL,
                              reset
                              release
                                           SS_ActivationTime
                                  }
```

ASN.1 Type Definition		
Type Name	MACeConfig	
	If the macHeaderManipulation field is 'NormalMacHeader' in ddiMappingList, then data received on the E-DCH (MAC_e PDU) shall have it's MAC header inspected to de-multiplex and to determine the appropriate routing, and the MACes PDU shall be passed to the MAC_es together with the relevant DDI, N, CFN and subframe number. If the macHeaderManipulation field is 'OmitMacHeader', then data received on the E-DCH (MAC_e PDU) shall have it's MAC header inspected to de-multiplex and to determine the appropriate routing, then the MAC_e layer shall delivery the MAC-es PDU, SI and the related CFN, subframe number to the MAC_es entity. connectedToMAC_es field is used to provide the possibility that the E-DCH-MACdFlows from only one MAC_e entity are connected to the MAC_es entity in the inter node B soft handover test cases. The IEs ddiMappinglist and e_DCHMacdFlows can be OMITted when changing the serving cell MAC-e without modification of MAC-e configurations. It will be applied in EDCH SHO.	
Type Definition		
SEQUENCE {		
activationTime ddiMappinglist	SS_ActivationTime, DDI MappingList OPTIONAL,	
e DCHMacdFlows	E_DCHMACdFlows OPTIONAL,	
connectedToMAC_es		

7.3.2.2.17c CMAC_MACe_NodeB_CellMapping (Rel-6 or later)

ASN.1 ASP Type Definition		
Type Name	CMAC_MACe_NodeB_CellMapping_CNF	
PCO Type	CSAP	
Comment	Confirm a previous CMAC_MACe_NodeB_CellMapping_REQ being successful.	
Type Definition		
SEQUENCE {		
nodeB_Id	INTEGER(063)	
}		

ASN.1 ASP Type Definition		
Type Name	CMAC_MACe_NodeB_CellMapping_REQ	
PCO Type	CSAP	
	To put a set of cells under the control of a MAC_e entity indicated by nodeB_Id, which is configured by CMAC_MAC_e_Config_REQ. This ASP establishes the routing relation between E-DCH related channels in these cells with a MAC_e entity. A cell is mapped to only one NodeB, and the cellId allocation is unique in a test.	
Type Definition		
<pre>SEQUENCE { nodeB_Id celllist }</pre>	INTEGER(063), SEQUENCE OF INTEGER (063)	

7.3.2.2.17d CMAC_MACes_Config (Rel-6 or later)

ASN.1 ASP Type Definition		
Type Name	CMAC_MACes_Config_CNF	
PCO Type	CSAP	
Comment	Confirm a previous CMAC_MACes_Config_REQ being successful. cellId=-1.	
Type Definition		
SEQUENCE {		
cellId	INTEGER(-163)	
]}		

ASN.1 ASP Type Definition		
Type Name	CMAC_MACes_Config_REQ	
PCO Type	CSAP	
Comment	This ASP is used for creating and configuring, reconfiguring, resetting or releasing an MAC_es, a cell / nodeB-independent entity in the SS. cellId=-1.	
Type Definition		
SEQUENCE { cellId	INTEGER(-163),	
configMessag setup reconfig reset release	e CHOICE { MACesConfig,	

ASN.1 Type Definition		
Type I	pe Name MACesConfig	
		E-DCH_MACd_Flows.
		Type Definition
SEQUENCE }	{ activation ddiMapping macTestMod	plist DDI_MappingList,

ASN.1 Type Definition		
Type Name	DDI_MappingList	
Comment	Comment	
Type Definition		
SEQUENCE (SIZE (13	1)) OF DDI_Mapping	

ASN.1 Type Definition			
Type Name	DDI_Mapping		
Comment	Both SRBs and RBs can be m MAC header manipulation (ma logical channels to be mapped 'NormalMacHeader' mode while 'NormalMacHeader' or in 'Omit If more than one UL RLC PDU logicalChannelIdentity), the diffrom the DDI value in this table If the value of macHeaderMan received on the E-DCH MACd MAC header inspected to deterormal. The MACes SDU shall If the value of macHeaderMan received on the E-DCH MACd MAC header inspected to deterormal the value of macHeaderMan received on the E-DCH MACd MAC header inspected to deterormal shall deliver the MAC-es HARQ process identity to the action of the sale was a shall deliver the MAC-es HARQ process identity to the sale was a	I size is configured for the RB (represent by ferent sizes will use subsequent DDI values starting e. ipulation field is 'NormalMacHeader', then data flows supporting this logical channel shall have its rmine the appropriate routing, and removed as I be passed to the appropriate logical channel. ipulation field is 'OmitMacHeader', then data flows supporting this logical channel shall have it's rmine the appropriate routing, then the MAC_es SDU, SI and the related CFN, subframe number, appropriate logical channel. The TTCN receives DATA_IND, then these fields can be checked by the I=10ms;	
	Type Defi	nition	
logicalo e_DCH_M# ddi rlc_PDU_	erManipulation ChannelIdentity AC_d_FlowIdentity SizeList InSchedulingInfo	MAC_HeaderManipulation, LogicalChannelIdentity, E_DCH_MAC_d_FlowIdentity, DDI, RLC_PDU_SizeList, BOOLEAN,	
<pre>mac_LogicalChannelPriority logicalChannelType rB_Identity }</pre>		MAC_LogicalChannelPriority, LogicalChannelType, INTEGER (-3132) OPTIONAL	

7.3.2.2.17e CMAC_MACe_AG (Rel-6 or later)

ASN.1 ASP Type Definition		
Type Name	CMAC_MACe_AG_CNF	
PCO Type	CSAP	
Comment	Confirm a previous CMAC_MACe_AG_REQ being successful.	
Type Definition		
SEQUENCE {		
nodeB_Id	INTEGER(063)	
]}		

ASN.1 ASP Type Definition			
Type N	lame CMAC_MAC	Ce_AG_REQ	
PCO T	ype CSAP		
Comm	nent The hARQP	rocld shall be converted to the nearest CFN (and subframe number if	
	TTI = 2 ms)	by the SS, and the Absolute Grant is sent in that CFN (and subframe	
	number if TT	T = 2 ms)	
	Type Definition		
SEQUENCE	{ nodeB_Id grantType absoluteGrantValue absoluteGrantScope hARQProcId	<pre>INTEGER(063), ENUMERATED {primary(0), secondary(1)}, BIT STRING(SIZE(5)), BIT STRING(SIZE(1)), INTEGER (07),</pre>	
}	activationTime	SS_ActivationTime	

7.3.2.2.17f CMAC_MACe_AckNack (Rel-6 or later)

ASN.1 ASP Type Definition		
Type Name CMAC_MACe_AckNack_CNF		
PCO Type CSAP		
Comment	To Confirm CMAC_e_AckNack_REQ	
Type Definition		
SEQUENCE { nodeB_Id }	INTEGER(063)	

ASN.1 ASP Type Definition		
Type Nam	ame CMAC_MACe_AckNack_REQ	
PCO Type	e CSAP	
process hARQProcld. The harqProcld, between 0 to 3 for 10 ms TTI or 0 to 7 for 2 msTTI, is applied to the configuration for the normal / nack mode. If the special -1 is used, all active HARQ processes (03 for 10 ms TTI and 07 for will be configured according to ackNackFunction.		rocld, between 0 to 3 for 10 ms TTI or 0 to 7 for 2 msTTI, is individually the configuration for the normal / nack mode. If the special hARQProcld all active HARQ processes (03 for 10 ms TTI and 07 for 2 ms TTI)
Type Definition		
h <i>l</i>	odeB_Id ARQProcId ckNackFunction	INTEGER(063), INTEGER (-1 07), AckNackFunction

ASN.1 Type Definition		
Type Name AckNackFunction		
Comment	normal: put the HARQ process in normal operation mode, it generats the ACK or NACK according to whether the received TB block can be decoded correctly and delivery the correctly decoded data to higher layer. When the MAC_e is configured the HARQ process is in normal operation mode. nack: put the HARQ process in the special operation mode in which the HARQ process always sends NACK for the received TB block till the number of the retransmissions reaches the number indicated in this field. The HARQ process is back to the normal operation mode after the number is reached or received a normal mode request. Except each received TB shall be passed to higher layer, other operations are the same as a real NACK occured.	
Type Definition		
CHOICE {	NULL, E_DCH_MAC_d_FlowMaxRetrans	

7.3.2.2.17g CMAC_MACe_E_TFC_Restriction (Rel-6 or later)

ASN.1 ASP Type Definition			
Type Name CMAC_MACe_E_TFC_Restriction_CNF			
PCO Type	CSAP		
Comment For MAC emulator to report that a previous attempt of restricting TFCs have successful.			
	Type Definition		
SEQUENCE { nodeB_Id }	INTEGER(063)		

ASN.1 ASP Type Definition			
Type Name	Type Name CMAC_MACe_E_TFC_Restriction_REQ		
PCO Type	CSAP		
Comment	To request to configure MACe entity. The field restrictAllowedTFCs is provided to allow the E-TFCI to be restricted. The IE fullE_TFCS will be used to remove any previous E_TFCS restriction configured.		
	Type Definition		
SEQUENCE {			
nodeB_Id restrictAllo	INTEGER (063), wedTFCs CHOICE {		

ASN.1 Type Definition		
Type Name E_TFCS_Restriction		
	The E_TFCS restriction is a list of E-TFCIs, and can be used to verify that the UE has used a specific TFC. Any data received by the SS using a forbidden TFCI shall be discarded.	
Type Definition		
SEQUENCE OF INTEGER	(0127)	

7.3.2.2.17h CMAC_MACe_RG (Rel-6 or later)

ASN.1 ASP Type Definition			
Type Name	CMAC_MACe_RG_CNF		
PCO Type	CSAP		
Comment	Confirm a previous CMAC_MACe_RG_REQ being successful.		
Type Definition			
SEQUENCE {			
nodeB_Id	INTEGER(063)		
}			

		ASN.1 ASP Type Definition		
Type N	Name CMAC_N	CMAC_MACe_RG_REQ		
PCO 1	CSAP			
Comr	For non-serving RL the value for relativeGrant is limited to 'down' and 'hold'. The SS shall convert the hARQProcId to the nearest CFN (and subframe number if TTI = 2 ms) by the SS and send the Relative Grant in that CFN (and subframe number if TTI = 2 ms)			
		Type Definition		
SEQUENCE }	{ nodeB_Id relativeGrant hARQProcId activationTime	<pre>INTEGER(063), ENUMERATED{up(0), down(1), hold(2)}, INTEGER (07), SS_ActivationTime</pre>		

7.3.2.2.17i CMAC_MACes_SI_IND

ASN.1 ASP Type Definition				
Type Name	CMAC_MACes_	CMAC_MACes_SI_IND		
PCO Type	CSAP			
Comment	This ASP is used for MACes delivering scheduling information in MAC_es testing. cellId=-1.			
	If the SI was sent alone in a MAC-e PDU or sent together with other MAC-es PDU in a MAC-e PDU but without a special DDI associated the value of specialDDIpresense is set to absent;			
		t together with other MAC-es PDU in a MAC-e PDU with a		
		63) associated the specialDDIpresence is set to present.		
Type Definition				
SEQUENCE {				
cellId		INTEGER(-163),		
cfn		INTEGER (0255),		
subframe		INTEGER (04 7), 04 when TTI=2ms, 7 when		
TTI=10ms				
specialDDIpr	esence	<pre>ENUMERATED {absent (0), present (1)},</pre>		
uePowerHeadRoom		BIT STRING (SIZE(5)),		
totalE_DCHBu	fferStatus	BIT STRING (SIZE(5)),		
highestPrior	ityLogChBS	BIT STRING (SIZE(4)),		
highestPrior	ityLogChId	BIT STRING (SIZE(4))		

7.3.2.2.17j CMAC_MACes_SI_Config (Rel-6 or later)

ASN.1 ASP Type Definition			
Type Name CMAC_MACes_SI_Config_CNF			
PCO Type	CSAP		
Comment Applicable Rel-6 or later			
	To Confirm CMAC_MACes_SI_Config_REQ, cellId=-1.		
Type Definition			
SEQUENCE {			
cellId	INTEGER(-163)		
}			

ASN.1 ASP Type Definition			
Type Name	CMAC_MACes_SI_Config_REQ		
PCO Type	CSAP		
Comment	Applicable Rel-6 or later		
	To configure the SS to enable / disable to report the reception of Scheduling Information in MAC-Es PDU's via primitive CMAC_MACes_SI_IND. At the SS initialization, the default mode is SI reporting disabled. cellId=-1.		
	Type Definition		
<pre>sequence { cellId sI_reportEna }</pre>	<pre>INTEGER(-163), ble</pre>		

7.3.2.2.17k CMAC_MBMS_ConfigInfo (Rel-6 or later)

ASN.1 ASP Type Definition			
Type Name CMAC_MBMS_ConfigInfo_CNF			
PCO.	PCO Type CSAP		
Comment To confirm CMAC_MBMS_ConfigInfo_REQ. The routingInfo indicates the physical channel which carries logical channel of type: MCCH, MSCH.			
		Type Definition	
SEQUENCE }	{ cellId routingI	INTEGER(063), nfo RoutingInfo	

		ASN.1 ASP Type Definition
Type Name CMAC_MBMS_ConfigInfo_REQ		C_MBMS_ConfigInfo_REQ
PCO	Type CSAF	
To provide the SS MCCH or MSCH configuration information. The routingInfo indicates the physical channel which carries logical channel of type: MCCH of MSCH. This ASP shall be called after the ASP CMAC_Config_REQ used for MCCH of MSCH configuration.		tes the physical channel which carries logical channel of type: MCCH or H. ASP shall be called after the ASP CMAC_Config_REQ used for MCCH or
		Type Definition
SEQUENCE }	{ cellId routingInfo mCCH_ConfigInf mSCH_ConfigInf	

7.3.2.2.18 CMAC_PAGING_Config

ASN.1 ASP Type Definition				
Type I	Type Name CMAC_PAGING_Config_CNF			
PCO.	PCO Type CSAP			
Comr	Comment To confirm to setup the paging message			
	Type Definition			
SEQUENCE {		INTEGER(063), nfo RoutingInfo		

ASN.1 ASP Type Definition			
Type Name CMAC_PAGING_Config_REQ		Config_REQ	
PCO Type	PCO Type CSAP		
Comment	Comment To request MAC layer to send the Paging message on the specified configuration		
Type Definition			
SEQUENCE {	<pre>cellId routingInfo ratType configMessage</pre>	<pre>INTEGER(063), RoutingInfo, RatType, CmacPagingConfigReq</pre>	

```
ASN.1 Type Definition
     Type Name
                      CmacPagingConfigReq
     Comment
                                        Type Definition
SEQUENCE
             pI_BitMapInfo
                                  CHOICE {
                                      BIT STRING (SIZE (18)),
BIT STRING (SIZE (36)),
                 e18
                 e36
                 e72
                                       BIT STRING (SIZE (72)),
                 e144
                                       BIT STRING (SIZE (144))
                                           },
                               INTEGER
                                  INTEGER {3..9},
SEQUENCE (SIZE (6..15)) OF Digit,
             dRX_CycleLength
             iMSI
             t_pich_T_sccpch
                                  BOOLEAN
                                                    -- T_pich>T_sccpch then FALSE
```

7.3.2.2.19 CMAC_Restriction

ASN.1 ASP Type Definition				
Type I	Name	CMAC_Restriction_CNF		
PCO Type		CSAP		
Comment		For MAC emulator to report that a previous attempt of restricting TFCs have been successful.		
Type Definition				
SEQUENCE }	{ cellId routingI	INTEGER(-163), nfo RoutingInfo		

ASN.1 ASP Type Definition			
Type Name	CMAC_Restriction_REQ		
PCO Type	CSAP		
Comment	To request to configure MAC entity. The field restrictAllowedTFCs is provided to allow the UL and/or DL SS TFCS to be restricted for a specific transport channel. This information only needs to be sent to the MAC layer, since it is the MAC layer's responsibility to determine the set of valid TFCs each TTI.		
Type Definition			
SEQUENCE {			
cellId	INTEGER (-163),		
routingInfo	RoutingInfo,		
ratType	RatType,		
restrictAllo	wedTFCs TFC_Restriction		

ASN.1 Type Definition				
Type Name	TFC Restriction			
Comment	This type is used to specify the allowed TFCs within the current TFCS. A TFC restriction is applicable until a subsequent TFC restriction is applied. TFC restrictions are not cumulative, so each TFC restriction completely replaces the previous TFC restriction. The downlink restriction can be used to ensure that the SS uses a specific TFC for transmission of data, by only allowing the 'No data' TFC, and the 'desired' TFC. It may also be necessary to include one or more 'signalling only' TFCs to allow signalling to occur. The uplink restriction can be used to verify that the UE has used a specific TFC. Any data received by the SS using a forbidden TFCI shall be discarded.			
	Type Definition			
SEQUENCE { ulTFCI_Restriction				
Detailed Comments	 The SS MAC layer shall not use a restrictednon-allowed TFC for DL. The SS MAC layer shall not use a TFC that requires the SS RLC layer to provide padding PDUs (3GPP TS 25.322 [18]) In the case that there is data pending on one or more RLC entities, but not enough to use one of the allowed TFCs: The SS MAC layer shall use the 'No data' TFC until there is enough data in the RLC to use another allowed TFC. The SS RLC layer shall buffer the data until there is enough data in the RLC entities for the MAC layer to use an allowed TFC other than the 'No data' TFC for transmission of the data. The TTCN author is responsible for ensuring: The SDU discard function is not configured for TM and UM entities in the UE, and is configured to no_discard for AM entities in the UE. That RLC SDUs that are expected to be sent in the same TTI (due to a TFC restriction) are sent as quickly as possible to minimize the number of 'no data' TFCs used by the MAC layer, and the amount of buffering that must be performed by the RLC layer. requirements for uplink: e SS shall discard all data received using a restricted non-allowed TFC. 			

7.3.2.2.20 CMAC_SecurityMode_Config

ASN.1 ASP Type Definition			
Type Name	Type Name CMAC_SecurityMode_Config_CNF		
PCO Type CSAP		CSAP	
Comment		To confirm to configure the MAC security mode	
	Type Definition		
SEQUENCE { ce }	ellId	INTEGER(-163)	

ASN.1 ASP Type Definition			
Type Name	CMAC_SecurityMode_Config_REQ		
PCO Type	CSAP		
Comment	To request to configure the MAC security mode.		
	If there are several CMAC_Ciphering_Activate_REQ follow this ASP, the SS shall		
	take a serial of specified actions on the same contents in this ASP at the		
	activation time indicated in each CMAC_Ciphering_Activate_REQ.		
	Type Definition		
SEQUENCE {			
cellId	INTEGER(-163),		
macCiphe	ringInfo SecurityInfo		
}			

7.3.2.2.21 CMAC_SequenceNumber

ASN.1 ASP Type Definition					
Type I	Type Name CMAC_Sequence_Number_CNF				
PCO Type CSAP		CSAP			
Comr	nent	To return the requested counter sequence number on MAC-d DCH. The			
	physicalChannelIdentity of DPCH applies to routingInfo.				
	Type Definition				
SEQUENCE	<pre>{ cellId routingI: count_C_! count_C_!</pre>	MSB_UL COUNT_C_MSB ,			

ASN.1 ASP Type Definition					
Type N	Type Name CMAC_SequenceNumber_REQ				
PCO Type CSAP					
Comment To request the MAC layer to return current counter see		To request the MAC layer to return current counter sequence numbers. The			
	physicalChannelIdentity of DPCH applies to routingInfo.				
		Type Definition			
SEQUENCE	SEQUENCE {				
cellId		INTEGER(-163),			
routingInfo		nfo RoutingInfo			
}	}				

7.3.2.2.22 CMAC_SYSINFO_Config

ASN.1 ASP Type Definition			
Type Nar	ne	CMAC_SYSINFO_Config_CNF	
PCO Type CSAP		CSAP	
Commer	Comment To confirm to setup the system information block		
Type Definition			
SEQUENCE {	SEQUENCE {		
cellId		INTEGER(063),	
routingI		nfo RoutingInfo	
}			

ASN.1 ASP Type Definition					
Type Name	CMAC_SYSINFO	D_Config_REQ			
PCO Type	CSAP				
Comment	To request MAC	layer to send the BCCH message on the specified configuration.			
	Type Definition				
SEQUENCE {	cellId routingInfo ratType configMessage	<pre>INTEGER(063), RoutingInfo, RatType, CmacSysinfoConfigReq</pre>			

ASN.1 Type Definition				
Type Name C	CmacSysinfoConfigReq			
Comment				
	Type Definition			
SEQUENCE {				
sg_REP	INTEGER (212), Repetition period is the sq REP-th power of 2.			
sg_POS	INTEGER (02047),			
bcch_Modificat	The position of each segment is 2 * sg_POS. cionTime BCCH_ModificationTime OPTIONAL			

7.3.2.2.22a CRLC_Bind_TestData_TTI

ASN.1 ASP Type Definition				
Type Name	CRLC_Bind_TestData_TTI_CNF			
PCO Type	CSAP			
Comment	To confirm the request of binding subsequent data sending			
	RLC_TR_TestDataReq on the different DL RBs in the same TTI.			
	Type Definition			
SEQUENCE {				
cellId	INTEGER(-163),			
result	<pre>ENUMERATED{failure(0), success(1)}</pre>			
}				

		ASN.1 ASP Type Definition		
Type Na	ame	CRLC_Bind_TestData_TTI_REQ		
PCO Ty	PCO Type CSAP			
those radio bearers which follow subsequently this CRLC_Bind_TestData_TTI_REQ and have 'numOfDiffRb' different RB IDs. Having received the number 'numOfDiffRb' of RLC_TR_TestDataReq, the SS RLC sends the test data on those RBs in the same TTI according to the allow		different DL RBs in the same TTI. On the request, the transmission of the test data is temporarily suppressed on those radio bearers which follow subsequently this CRLC_Bind_TestData_TTI_REQ and have 'numOfDiffRb' different RB IDs.		
		Type Definition		
SEQUENCE { }	cellId numOfDiff	INTEGER(-163), Rb INTEGER(26) Number of different RB IDs		

7.3.2.2.22b CRLC_BindTestDataInOneMAChs_PDU (Rel-5 or later)

ASN.1 ASP Type Definition			
Type Name	CRLC_BindTestDataInOneMAChs_PDU_CNF		
PCO Type	CSAP		
Comment	To confirm the request of binding subsequent data sending RLC_TR/UM/AM_TestDataReq on the specified RB mapped on HS-DSCH in the same MAChs PDU.		
	Type Definition		
SEQUENCE { cellId routingInfo result }	<pre>INTEGER(-163), RoutingInfo,</pre>		

ASN.1 ASP Type Definition				
Type Name	CRLC_BindTestDataInOne	CRLC_BindTestDataInOneMAChs_PDU_REQ		
PCO Type	CSAP			
Comment	on the specified RB mappe On the request, the transm radio bearers till 'numOfSD	To request of binding subsequent data sending RLC_TR/UM/AM_TestDataReq on the specified RB mapped on HS-DSCH in the same Mac-HS PDU. On the request, the transmission of the test data is temporarily suppressed on the radio bearers till 'numOfSDU's' are received by RLC layer on the Radio Bearer. After receiving all SDU's the RLC layer submits to MAC such that all of them are sent in one MAC-Hs PDU.		
	Type I	Definition		
	INTEGER (-163),			
routingInfo numOfSDUs }	RoutingInfo, INTEGER	RB ID desired to be given Number of RLC SDU's		

7.3.2.2.23 CRLC_Ciphering_Activate

ASN.1 ASP Type Definition			
Type Name	Type Name CRLC_Ciphering_Activate_CNF		
PCO Type	PCO Type CSAP		
Comment	Comment To confirm to activate or inactivate the ciphering		
Type Definition			
SEQUENCE {	INTEGER(-163)		

	ASN.1 ASP Type Definition			
Type Name	CRLC_Ciphering_Activate_REQ			
PCO Type	CSAP			
Comment				
	Type Definition			
_	INTEGER(-163), RatType, nIdentity CN_DomainIdentity, vationInfo CiphActivationInfo, RLC_IncMode			

ASN.1 Type Definition				
Type N	lame	CiphActivationInfo		
Comn	Comment DL or UL ciphering activation info			
			CiphActivationTimeInfo the SS takes no action on this	
	RB and the ciphering configuration keeps unchanged on this RB.			
CipheringModeCommand = dummy NULL means no ciphering.				
Type Definition				
CHOICE {				
	cipherin	gModeInfo	CipheringModeInfo,	
}	rb_UL_Ci	phActivationTimeInfo	RB_ActivationTimeInfoList	

ASN.1 Type Definition		
Type Name	RLC_IncMode	
Comment		
Type Definition		
ENUMERATED {notInc(0), inc(1)}		

7.3.2.2.24 CRLC_Config

ASN.1 ASP Type Definition				
Type Name	CRLC_Config_CNF			
PCO Type	CSAP			
For RLC emulator to confirm that a previous attempt to establish, re_configur release a radio bearer has been successful.				
	Type Definition			
SEQUENCE {				
cellId	INTEGER(-163),			
routingI	nfo RoutingInfo			
}				

	ASN.1 ASP Type Definition			
Type Na	ame	CRLC_Config_REQ		
PCO T	PCO Type CSAP			
Comm	ent	To request to setup, reconfigure or release RLC entity		
	Type Definition			
SEQUENCE	{ cellId routingIn ratType configMes	RatType,		

	ASN.1 Type Definition			
Ту	pe Name	CrlcConfigReq		
Comment		To request to setup, re_configure release RLC entity The Stop parameter indicates that the RLC entity shall not transmit or receive RLC PDUs. The Continue parameter indicates that the RLC entity shall continue transmission and reception of RLC PDUs. When the RLC entity is stopped, the all protocol parameters, such as the protocol variables, RLC timers and status are not affected. Triggered polls and status transmissions are delayed until the RLC entity is continued.		
		Type Definition		
CHOICE	{ setup reconfigure release sS_stop sS_continue	RBInfo, RBInfo, NULL, NULL, NULL		

ASN.1 Type Definition				
Type Name	RBInfo			
Comment				
		Type Definition		
SEQUENCE {				
sS_rlc rB_Log }	c_Info gCH_Mapping	SS_RLC_Info RB_LogCH_Mapping	OPTIONAL,	

ASN.1 Type Definition				
Type Name	RB_LogCH_Mapping			
Comment	Provide mapping information between RB, logical channel and CN domain. When the logical channel is MTCH, the logicalChannelIdentity shall be consistent with MBMS_LogicalChIdentity in MBMS_PTM_RBInformation_N and MBMS_PTM_RBInformation_C being sent to the UE.			
Type Definition				
SEQUENCE { uLlogicalChannelIdentity dLlogicalChannelIdentity logicalChannelType cn_DomainIdentity }		LogicalChannelIdentity LogicalChannelIdentity LogicalChannelType CN_DomainIdentity	OPTIONAL, OPTIONAL, OPTIONAL, OPTIONAL	

	ASN.1 Type Definition				
Type N	ame	SS_RLC_Info			
Comm	ent	UL and DL have been swapped intentionally in this type definition. This is to maximize re-use of the type definitions in 3GPP TS 25.331 [21] which are intended to configure a UE, where UL is transmission, and DL is reception. For the SS, UL is reception, and DL is transmission. For example, consider configuring a DL AM RLC entity (transmitter) in the SS. The transmission parameters to be configured include PollingInformation, Transmission-RLC-Discard etc. If the DL-AM-RLC-Mode type definition is used to configure this entity, it is only possible to configure reception parameters such as StatusInformation, and receiving window size. By swapping UL and DL, it is possible to configure the DL AM RLC entity using the existing type definition UL-AM-RLC-Info, which contains all of the required transmission parameters.			
			Type Definition		
SEQUENCE {	sS_dl_RL rlc_OneS	 C_Mode idedReEst	DL_RLC_Mode SS_DL_RLC_Mode BOOLEAN DEFAUL ENUMERATED {false	OPTIONAL,	

	ASN.1 Type Definition				
Type Name	SS_DL_RLC_Mode				
Comment	'dl_UM_outOfSeqDelivery' is present only for the DL_RLC entity connected to				
	MCCH, and in the configuration with dl_UM_outOfSeqDelivery present the UM				
	RLC can transmit RLC PDU containing SDU of ACCESS INFORMATION				
	message out of sequence when it is necessary				
	Type Definition				
SEQUENCE {					
dl_PayloadSize	PayloadSize OPTIONAL,				
dl_RLCModeInfo	UL_RLC_Mode,				
dl_UM_RLC_LI_size	DL_UM_RLC_LI_size OPTIONAL,				
	only for UM RLC configuration of Rel-5 or later				
dl_UM_outOfSeqDel	<u> </u>				
	Rel-6 or later				
}					

ASN.1 Type Definition			
Type Name	PayloadSize		
Comment			
		Type Definition	
INTEGER (04992)			

7.3.2.2.25 CRLC_Integrity_Activate

ASN.1 ASP Type Definition			
Type Name	CRLC_integrity_Activate_CNF		
PCO Type	CSAP		
Comment	To confirm to activate or inactivate the integrity protection		
Type Definition			
SEQUENCE {	INTEGER(-163)		

		ASN.1 ASP	Type Definition
Type N	lame	CRLC_Integrity_Activate_F	REQ
PCO T	уре	CSAP	
Comm	nent	ASP shall be called before integrity on all SRBs in DL. COUNT-I to the START va component in COUNT-I to If integrityModeCommand istart the downlink integrity If te integrityModeComman	n ASP is set to "startIntegrityProtection", the SS shall protection from the first downlink RRC message. d in ASP is set to "modify", the SS shall start the n at the RRC message sequence number specified in
		Type I	Definition
SEQUENCE {			
	cellId		INTEGER (-163),
	_	nIdentity	<pre>CN_DomainIdentity,</pre>
}	integrit	yActivationInfo	IntegrityActivationInfo

	ASN.1 T	ype Definition
Type Name	IntegrityActivationInfo	
Comment	DL or UL integrity activati	
	At the RRC message sec	uence numbers specified in the
	ul_IntegProtActivationInfo	the SS shall initialize COUNT-I for the SRB's indicated
	in the ul_IntegrityProtActi	vationInfo and start using the new configuration on
	uplink for the indicated SI	RB's.
	If the START value is om	itted in the CRLC_SecurityMode_Config_REQ above
	COUNT-I initialization sha	
	Туре	Definition
CHOICE {		
	rityProtectionModeInfo	IntegrityProtectionModeInfo,
ul-In	tegProtActivationInfo	IntegrityProtActivationInfoList
}		

ASN.1 Type Definition			
Type Name	Type Name IntegrityProtActivationInfoList		
Comment	List of SS IntegrityProtActivationInfo		
Type Definition			
SEQUENCE (SIZE (1m.	axRB)) OF SS_IntegrityProtActivationTimeInfo		

ASN.1 Type Definition				
Type Name	SS_IntegrityProtActivationTimeInfo			
Comment	Omitting rrc_MessageSequenceNumber means activation time set to "now".			
	Type Definition			
SEQUENCE { rb_Identity				

7.3.2.2.26 CRLC_Integrity_Failure

ASN.1 ASP Type Definition		
Type N	Type Name CRLC_Integrity_Failure_IND	
PCO T	уре	CSAP
		RLC emulator reports the occurrences of a failure in integrity protection, i.e. reception of an integrity-protected RLC AM/UM SDU containing a non-matching X-MAC value compared to the desired.
		Type Definition
SEQUENCE	{ cellId routingIn failureCon the en	

7.3.2.2.26a CRLC_MAC_I_Mode

ASN.1 ASP Type Definition			
Type Name	CRLC_MAC_I_Mode_CNF		
PCO Type	CSAP		
Comment	Confirm a previous CRLC_MAC_I_Mode_REQ being successful.		
	Type Definition		
SEQUENCE {			
cellId	INTEGER(-163),		
srbId	INTEGER(04)		
}			

	ASN.1 ASP Type Definition
Type Name	CRLC_MAC_I_Mode_REQ
PCO Type	CSAP
Comment	To set the MAC-I calculation mode. The ASP does not affect the UL integrity calculation. If mode = normal, the SS generates the correct MAC-I. If mode = erroneous, the SS generates any wrong MAC-I value different from the one it shall be. As default, when the integrity protection is jswitched on the SS enters the normal MAC-I calculation mode.
	Type Definition
SEQUENCE { cell srbI mode }	

7.3.2.2.26b CRLC_NotAckNxtRxSDU

ASN.1 ASP Type Definition		
Type Name CRLC_ NotAckN		CRLC_ NotAckNxtRxSDU_CNF
PCO Type CS		CSAP
Comn	nent	To confirm that the next received SDU has not been acknowledged.
		Type Definition
SEQUENCE }	{ cellId routingI	<pre>INTEGER(-163), nfo RoutingInfo</pre>

ASN.1 ASP Type Definition		
Type Name	CRLC_ NotAckNxtRxSDU_REQ	
PCO Type	CSAP	
Comment	To request that the next received SDU is not acknowledged. The received SDU is passed to the upper layers.	
	Type Definition	
SEQUENCE {	<pre>INTEGER(-163), nfo</pre>	

7.3.2.2.26c CRLC_ProhibitRLC_Ack

The use of the pair of ASPs should be restricted to each start of SRB3 Uplink ciphering only. The SS behaviours are not specified if the ASPs are used in any other procedures.

ASN.1 ASP Type Definition			
Type N	lame	CRLC_ProhibitRLC_Ack_CNF	
PCO Type		CSAP	
Comn	nent	To confirm that the reception of a CRLC_ProhibitRLC_Ack_REQ.	
		Type Definition	
SEQUENCE }	{ cellId routingIn supportF	5 ,	

ASN.1 ASP Type Definition		
Type Name	CRLC_ProhibitRLC_Ack_REQ	
PCO Type	CSAP	
Comment	To request the SS to prohibit/Continue acknowledging RLC SDUs.	
Type Definition		
SEQUENCE {	<pre>INTEGER(-163), Info RoutingInfo, ENUMERATED{prohibit(0), continue(1)}</pre>	

ASN.1 Type Definition		
Type Name	SupportFlag	
Comment	The default value noNeed indicates that the SS does not perform the operation	
	mentioned in CRLC_ProhibitRLC_Ack_REQ, but performs the suspension / resume of UL RLC PDU data.	
	If the non default values are taken, the SS has either prohibited, or continued	
acknowledging RLC SDUs.		
Type Definition		
ENUMERATED {ackProhibited(0), ackContinued(1), noNeed (2)}		

7.3.2.2.27 CRLC_Resume

ASN.1 ASP Type Definition				
Type I	Type Name CRLC_Resume_CNF			
PCO '	PCO Type CSAP			
Comment		To confirm the resume request		
		Type Definition		
SEQUENCE }	{ cellId routingI	INTEGER(-163), nfo RoutingInfo		

ASN.1 ASP Type Definition				
Type N	Name	CRLC_Resume_REQ		
PCO T	Гуре	CSAP		
Comment		To request to resume data transmission. If the SS implemented the optional suspension of UL data PDUs, then the processing in the UL of data PDUs shall be resumed. Any suspended UL control PDUs and Piggybacked Status shall be preceded or resumed.		
		Type Definition		
SEQUENCE }	{ cellId routingI	INTEGER(-163), nfo RoutingInfo		

7.3.2.2.27a CRLC_RRC_MessageSN

	ASN.1 ASP Type Definition	
Type Name CR	RLC_RRC_MessageSN_CNF	
PCO Type CS	SAP	
ser the	To return the counter I values (HFN and RRC message sequence number) for sending the next DL RRC message or for receiving the next UL RRC message the concerned SRB. COUNT I MSB is the 28 MSB of the COUNT-I (HFN)	
	Type Definition	
SEQUENCE {	B_UL COUNT_I_MSB, B_UL RRC_SequenceNumber, B_DL COUNT_I_MSB,	

ASN.1 Type Definition		
Type Name COUNT_I_MSB		
Comment	28 bits long	
Type Definition		
INTEGER (0268435455)		

ASN.1 Type Definition		
Type Name RRC_SequenceNumber		
Comment	4 bits long	
Type Definition		
INTEGER (015)		

ASN.1 ASP Type Definition				
Type Na	me	CRLC_RRC_MessageSN_REQ		
PCO Ty	pe	CSAP		
Comment		To request the SS to return the values in COUNT-I for sending the next DL RRC message or for receiving the next UL RRC message on the concerned SRB.		
		Type Definition		
	{ cellId routingIn	INTEGER(-163), nfo RoutingInfo		

7.3.2.2.28 CRLC_SecurityMode_Config

ASN.1 ASP Type Definition				
Type N	lame	CRLC_SecurityMode_Config_CNF		
PCO T	уре	CSAP		
Comm	nent	To confirm to configure the RLC security mode If several subsequent CRLC_Integrity_Activate_REQ or CRLC_Ciphering_Activate_REQ follow this ASP, the SS shall take a serial of specified actions on the same contents in this ASP at the activation time indicated in each CRLC_ Integrity (or Ciphering)_Activate_REQ.		
		Type Definition		
SEQUENCE }	{ cellId	INTEGER(-163)		

ASN.1 ASP Type Definition					
Type N	lame	CRLC_SecurityMode_Config_REQ			
PCO T	Гуре	CSAP			
Comm	Comment To request to configure the RLC security mode				
	Type Definition				
SEQUENCE }					

		ASN	.1 Type Definition	
Type Name	SecurityIn	nfo		
Comment	The integr	rityKey is not a	pplicable to MAC	
		T	ype Definition	
SEQUENCE{				
Cn_I	omainIdent:	ity	${\tt CN_DomainIdentity},$	
star	tValue		START_VALUE	OPTIONAL,
ciph	eringKey		BITSTRING(128)	OPTIONAL,
inte	grityKey		BITSTRING(128)	OPTIONAL,
gsmC	lipheringKey	У	BITSTRING(64)	OPTIONAL
}				
	contents is n	ot activated un	til receiving the subsequent	
	CRLC_Ciphering_Activate_REQ, CMAC_Ciphering_Activate_REQ or			
Detailed Comments CRLC_Integrity_Activate_REQ. Omitted fields of SecurityInfo shall not be affect the subsequent ASP at the activation time.			tyInfo shall not be affected by	
	EXAMPLE:	COUNT-C or	artValue indicates not to re-i COUNT-I, omitting of cipher ring key is valid.	

7.3.2.2.28a CRLC_SetRRC_MessageSN

ASN.1 ASP Type Definition				
Type I	Type Name CRLC_SetRRC_MessageSN_CNF			
PCO.	Туре	CSAP		
Comr	ment	To confirm the RRC message sequence number setting request		
		Type Definition		
SEQUENCE	{ cellId routingI	INTEGER(-163), nfo RoutingInfo		

ASN.1 ASP Type Definition				
Type I	Name	CRLC_SetRRC_MessageSN_REQ		
PCO Type		CSAP		
Comr	To request the SS to set the RRC message sequence number in COUNT-I to the value specified in this ASP. The ASP is used to initialize SS RRC SN.			
		Type Definition		
SEQUENCE }	<pre>{ cellId routingI count_I count_I_</pre>	LSB_UL RRC_SequenceNumber OPTIONAL,		

7.3.2.2.28b CRLC_Set_Count_I

ASN.1 ASP Type Definition			
Type N	lame	CRLC_Set_Count_I_CNF	
PCO Type		CSAP	
Comm	nent	To confirm the count_I_MSB and the RRC message sequence number setting	
		request	
		Type Definition	
SEQUENCE	{		
	cellId	INTEGER(-163),	
	routingI	nfo RoutingInfo	
}			

	ASN.1 ASP Type Definition				
Type Name	е	CRLC_Se	et_Count_I_F	REQ	
PCO Type		CSAP			
Comment		To request the SS to set the 28 MSB and 4 LSB (RRC message sequence number) in COUNT-I according to the parameter values specified in this ASP. Parameters omitted in this ASP shall leave the corresponding bits in the SS COUNT-I unchanged. Typically the parameters count_I_MSB_UL and count_I_MSB_DL are omitted. They are only applied in a few specific security test cases requiring restoration of the used integrity context. NOTE: The 28 MSBs are initialized with the UE-provided START value plus 8 bits set to 0, using a different ASP (CRLC_SecurityMode_Config_REQ).			
			T	ype Definition	
roi coi coi	llId utingIr unt_I_I unt_I_I unt_I_N unt_I_N	LSB_UL LSB_DL MSB_UL		INTEGER(-163), RoutingInfo, RRC_SequenceNumber RRC_SequenceNumber COUNT_I_MSB COUNT_I_MSB	OPTIONAL, OPTIONAL, OPTIONAL, OPTIONAL

7.3.2.2.29 CRLC_SequenceNumber

ASN.1 ASP Type Definition			
Type I	Name	CRLC_Sequence_Number_CNF	
PCO '	Туре	CSAP	
Com	ment	To return the requested counter sequence number to which the next DL PDU to	
		be sent or the expected UL PDU to be received.	
		Type Definition	
SEQUENCE	{		
	cellId	<pre>INTEGER(-163),</pre>	
	routingI	nfo RoutingInfo,	
	count_C_I	MSB_UL COUNT_C_MSB,	
count C LSB UL		LSB_UL RLC_SequenceNumber,	
	count C I	MSB DL COUNT C MSB,	
	count_C_1	LSB_DL RLC_SequenceNumber	
}			

ASN.1 ASP Type Definition			
Type Name CRLC_SequenceNumber_REQ			
PCO Type	CSAP		
Comment	To request the RLC layer to return current counter sequence numbers to which the next DL PDU to be sent or the expected UL PDU to be received.		
	Type Definition		
SEQUENCE {	INTEGER(-163), nfo RoutingInfo		

7.3.2.2.29a CRLC_SendContinuousData_TTI

ASN.1 ASP Type Definition				
Type Name		CRLC_SendContinuousData_CNF		
PCO Type		CSAP		
Comn	nent	Confirm sending data in every TTI on each requested RB		
	Type Definition			
SEQUENCE	{ cellId result	<pre>INTEGER(-163), ENUMERATED{failure(0), success(1)}</pre>		

	ASN.1 ASP Type Definition		
Type Name	CRLC_SendContinuousData_REQ		
PCO Type	CSAP		
Comment	To request sending data in every TTI on each RB identified. After the CMAC_Restriction_REQ, the TFC under test will be the one corresponding to the maximum CTFC value in the Restricted list, so that SS can select the number of Transport blocks and the size of Transport blocks on individual Transport channels derived from this CTFC. SS shall take care about all kind of discard info in all RLC modes and the final goal is that the DL TFCs under test shall be selected in downlink for sending data on the request RBs in each TTI.		
	Type Definition		
SEQUENCE { cel rab }	lid INTEGER(-163), TxInfo RabTxInfo		

ASN.1 Type Definition		
Type Name	RabTxInfo	
Comment	Provide test data, number of RBs, and RB Tx info of each RB (RB id, SDU size	
	and number of SDUs) to be transmitted in consecutive TTIs	
Type Definition		
SEQUENCE {		
testData	testData BIT STRING (SIZE (8163840)),	
rbTxInfoList	SEQUENCE (SIZE (16)) OF RbTxInfo	
}		

	ASN.1 Type Definition
Type Name	RbTxInfo
	Info on RB id and the actual DL test data size (SDU_Size * number of SDUs). The actual test data is extracted from the first (SDU_Size * number of SDUs) bits in the raw testData buffer. SS shall transmit the actual test data in every TTI. The value nomOfSdu = T / TTI, whereby T=1200 is the duration of the data transmitting in the RAB test, taking into account the test tolerance (+50 %) of the UE loop back delay (< 800 ms).
	Type Definition
SEQUENCE {	
rB_Identity	INTEGER (-3132),
sduSize	INTEGER (1163840),
nomOfSdu }	INTEGER (0255) 0 is set for no data on this RB

7.3.2.2.30 CRLC_Status

ASN.1 ASP Type Definition		
Type N	Name	CRLC_Status_IND
PCO Type CSAP		CSAP
Comment To report the occurrence of certain events to RRC. Note: the possible event types to be defined for this ASP is FFS.		
		Type Definition
SEQUENCE }	{ cellId routingI: ratType statusIn	RatType,

ASN.1 Type Definition			
Type Na	ame	CrlcStatusInd	
Comment			
		Type Definition	
ENUMERATED	maxRESET sDUDisca:		

7.3.2.2.31 CRLC_Suspend

	ASN.1 ASP Type Definition		
Type N	Type Name CRLC_Suspend_CNF		
PCO 1	Гуре	CSAP	
t		To confirm the suspension of data transmission. The parameter vt indicates either the value of the Send State Variable VT(S) for AM, or the value of Data State Variable VT(US) for UM.	
		Type Definition	
SEQUENCE }	SEQUENCE { cellId		

	ASN.1 ASP Type Definition			
Type Name	CRLC_Suspend_REQ			
PCO Type	CSAP			
Comment	To request the suspension of data transmission. The parameter n indicates that an RLC entity will not send a PDU with "Sequence Number"≥VT(S)+N for AM and "Sequence Number"≥VT(US)+N for UM, where N is a non-negative integer. Optionally an SS may start immediate suspension of processing of data PDUs in the UL. The UL control PDUs and Piggybacked Status may optionally be processed.			
	Type Definition			
SEQUENCE { cellId routing: n }	INTEGER(-163), Info RoutingInfo, RLC_SequenceNumber			

7.3.2.2.31a CRLC_UM_MTCH_Scheduling (Rel-6 or later)

ASN.1 ASP Type Definition			
Type Name	CRLC_UM_MTCH_Scheduling_CNF		
PCO Type	CSAP		
Comment	To confirm the CRLC_UM_MTCH_Scheduling_REQ		
	Type Definition		
SEQUENCE {			
cellId	INTEGER(-163),		
routingInfo	RoutingInfo		
}			

ASN.1 ASP Type Definition					
Type Name	CRLC_UM_MTCH_Scheduling_REQ				
PCO Type	CSAP				
Comment	Applied to the RLC entity carrying MTCH.				
	MBMS serviceSchedulingInfo can contain a list of MBMS ServiceSchedulingInfo for multiple consecutive scheduling periods of discountinous MBMS services. mSCH_REPconfiguration provides the timing of scheduling periods. serviceShedulingInfos provides a list of SS_ServiceSchedulingInfo corresponding to multiple scheduling periods.				
	On or after the start and within the duration of a MBMS session, the RLC behaves as normal UM entity. Outside of these ranges the RLC regards the buffer occupancy as being zero, prohibiting the MAC from requesting PDU's. The same is valid for the service silence period (noServcieData).				
	Each call of the ASP replaces the existing whole scheduling information list or				
	creates a new scheduling information list if the list does not exist.				
	The absence of IE mSCH_REPconfiguration and schedulingInfoInfos indicates				
	continuous MBMS services. The SS shall delete the existing scheduling information list if it has existed. The RLC entity behaves as normal UM.				
	information list if i	Type Definition	laves as normal UW.		
SEQUENCE {		Type Demillion			
cellId		INTEGER(-163),			
routingInfo		RoutingInfo,			
mSCH_REPconfiguration		MSCH_REPconfiguration	OPTIONAL,		
serviceShedulingInfos }		ServiceSchedulingInfoList	OPTIONAL		

ASN.1 Type Definition		
Type Name	ServiceSchedulingInfoList	
	Multiple ServiceSchedulingInfo can be submitted to the SS. Each ServiceSchedulingInfo corresponds to a MSCH scheduling period.	
Type Definition		
SEQUENCE (SIZE(1 M	axNumMSCHMsgs))OF SS_ServiceSchedulingInfo	

ASN.1 Type Definition			
Type Name	SS_ServiceSchedulingInfo		
Comment	The IE is applied to the discontinuous MBMS service and contains pairs of 'start' and 'duration' within a scheduling period. The start value indicates the start of the service transmission in number of 4-frames relative to: either the 1 st TTI on which the MBMS SCHEDULING INFORMATION message of the corresponding scheduling period is sent if MSCH is configured; or the IE scheduledSFN value in MSCH_REPconfiguration if MSCH is not configured. The duration value indicates how long the service is transmitted in unit of 4-frames. noServiceData is applied to the scheduling period when no MBMS service data are sent on that MTCH.		
Type Definition			
CHOICE {	TransmInfoList MBMS_ServiceTransmInfoList, a NULL		

7.3.2.2.32 CBMC_Config

ASN.1 ASP Type Definition			
Type Name	Type Name CBMC_Config_CNF		
PCO Type	PCO Type CSAP		
Comment	To confirm the BMC configuration, reconfiguration or release.		
Type Definition			
SEQUENCE {	INTEGER(063), nfo RoutingInfo RBid		

ASN.1 ASP Type Definition			
Type Name	CBMC_Config_REQ		
PCO Type	CSAP		
Comment	To request the configuration, reconfiguration or release of BMC.		
Type Definition			
SEQUENCE {			
cellId	INTEGER(063),		
routingInfo	RoutingInfo, RBid		
configMessage	e CHOICE {		
setup	BMC_SchedulingInfo,		
release	$\overline{\text{NULL}}$		
}	,		

7.3.2.2.32b DEC_PERbitstring

ASN.1 ASP Type Definition			
Type Name	DEC_PERbitstring_CNF		
PCO Type	ExternalAsn1Codec		
Comment	To receive the decoded BIT STRING.		
Type Definition			
<pre>SEQUENCE { containedType }</pre>	ContainedType		

ASN.1 ASP Type Definition			
Type Name	DEC_PERbitstring_REQ		
PCO Type	ExternalAsn1Codec		
Comment	To request decoding of the BITSTRING recived from UE in receivedBITSTRING		
	with the type specified in containingType.		
Type Definition			
SEQUENCE { receivedBITSTRING	G BIT STRING,		
containingType	ContainingPERbitstringType		

ASN.1 PDU Type Definition			
Type Name	ContainedType		
PDU Type	ContainingDecoder		
Comment			
Type Definition			
CHOICE {			
ue_CapabilityContainer_IEs		<pre>UE_CapabilityContainer_IEs,</pre>	
rrcConnectionSetupComplete_r3_add_ext_IEs		RRCConnectionSetupComplete_r3_add_ext_IEs,	
ueCapabilityInformation_r3_add_ext_IEs		<pre>UECapabilityInformation_r3_add_ext_IEs,</pre>	
interRATHandoverInfo_r3_add_ext		<pre>InterRATHandoverInfo_r3_add_ext_IEs</pre>	
}			

7.3.2.2.32c ENC_PERbitstring

_PERbitstring_CNF		
ExternalAsn1Codec		
To receive the encoded BIT STRING.		
Type Definition		
BIT STRING		
•		

ASN.1 ASP Type Definition			
Type Name	ENC_PERbitstring_REQ		
PCO Type	ExternalAsn1Codec		
Comment	To request encoding of asn.1 PDU or IE.		
Type Definition			
<pre>CHOICE { mcchMessage }</pre>	MCCH_Message		

7.3.2.2.33 RLC TR DATA

```
ASN.1 ASP Type Definition
     Type Name
                     RLC_TR_DATA_REQ
     PCO Type
                     DSAP
     Comment
                     To request to transmit DATA using transparent mode.
                                       Type Definition
SEQUENCE
                                         INTEGER(-1..63),
                cellId
                routingInfo
                                         RoutingInfo,
                tM_Message
                                         CHOICE {
                        dL DCCH Message
                                                     DL DCCH Message,
                        dL CCCH_Message
                                                     DL CCCH Message,
                        pCCH_Message
                                                     PCCH_Message,
                        dL SHCCH Message
                                                     DL SHCCH Message,
                        bCCH FACH Message
                                                     BCCH FACH Message,
                        bCCH BCH Message
                                                     BCCH BCH Message }
```

```
ASN.1 ASP Type Definition
     Type Name
                     RLC_TR_DATA_IND
     PCO Type
                     DSAP
     Comment
                     To indicate to receive DATA using transparent mode.
                                       Type Definition
SEQUENCE
            cellId
                                          INTEGER (-1..63),
            routingInfo
                                         RoutingInfo,
                                         CHOICE {
            tM_Message
                         uL_DCCH_Message
                                                      UL_DCCH_Message,
                         uL_CCCH_Message
                                                      UL_CCCH_Message,
                         uL_SHCCH_Message
                                                      UL_SHCCH_Message}
```

7.3.2.2.34 RLC_AM_DATA

ASN.1 ASP Type Definition			
Type Name RLC_AM_DATA_REQ			
PCO Type			
Comment	To request to transmit DATA using	g acknowledged mode.	
	Type Definiti	on	
SEQUENCE {	tionRequest AmConfirmation		

ASN.1 Type Definition				
Type Name AmConfirmationRequest		quest		
Comment If the noConfirmationRequested option is used, then an RLC_AI not expected from the RLC AM entity. If the confirmationRequested option is used, then the RLC AM erequested to provide an RLC_AM_DATA_CNF primitive contain value.		the RLC AM entity. Requested option is used, then the RLC AM entity is being		
	Type Definition			
CHOICE {				
	noConfirmationRequest		NULL,	
}	confirma	tionRequested	Mui	

ASN.1 Type Definition		
Type Name	Mui	
Comment		
Type Definition		
INTEGER {04095}		

ASN.1 ASP Type Definition			
Type Name	RLC_AM_DATA_IND		
PCO Type	DSAP		
Comment	To indicate to receive DATA using acknowledged mode.		
Type Definition			
SEQUENCE {	yResult IntegrityResult,		

	ASN.1 Type Definition			
Type N	lame	IntegrityResult		
Comn	nent			
Type Definition				
CHOICE {	integrity integrity		NULL, IntegrityStatus	

ASN.1 Type Definition				
Type Name	IntegrityStatus			
Comment	Comment			
Type Definition				
ENUMERATED {				
i_pass(0), i_fail(1)				
[}				

ASN.1 ASP Type Definition				
Type Name	RLC_AM_DATA_CNF			
PCO Type	DSAP			
Comment	For RLC emulator to report to the upper layer that a previously transmitted SDU			
	has been acknowledged correctly by the UE			
	Type Definition			
SEQUENCE {	SEQUENCE {			
cellId	INTEGER(-163),			
routingInfo	RoutingInfo,			
mui	Mui			
}				

7.3.2.2.34a RLC_UM_ACCESSinfo (Rel-6 or later)

ASN.1 ASP Type Definition			
Type Name	RLC_UM_ACCESSinfo_REQ		
PCO Type	DSAP		
Comment	To request to transmit ACCESS INFORMATION messages using unacknowledged mode. This ASP is valid for the RLC entity configured for the logical channel MCCH. When an RLC_UM_ACCESSinfo_REQ with uM_Messages present is received the ongoing transmission of ACCESS INFORMATION, if any, shall be stopped in the modification period indicated by startingTime. At the same time, the SS starts transmitting the ACCESS INFORMATION messages passed by the ASP, then repeats the transmission in each next modification period. When an RLC_UM_ACCESSinfo_REQ without uM_Messages is received the SS stops the ongoing ACCESS INFORMATION transmission at the modification period specified by startingTime.		
	Type Definition		
SEQUENCE {	INTEGER(-163), RoutingInfo, INTEGER(04095), pointing to the first frame of a modification AI_MsgList OPTIONAL		

ASN.1 Type Definition		
Type Name	AI_MsgList	
Comment	Al_MsgList is an ordered list of Al messages. The order corresponds to the	
	Al_Msg transmission timing in a modification period. A modification period can	
	have 1, 2, 4 or 8 access information periods depending on MCCH configuration.	
	The size of the list shall be consistent with the MCCH configuration.	
Type Definition		
SEQUENCE (SIZE(1 2 4	8))OF AI Msq	

ASN.1 Type Definition			
Type Name	AI_Msg		
Comment	The al_Message is sent on the first TTI of the access information period.		
	If the corresponding al_Message is empty there is no ACCESS INFORMATION		
	scheduled for that access information period.		
	Type Definition		
CHOICE {			
aI_Message	MBMSAccessInformation,		
aI_EmptyMsg	NULL		
}			

7.3.2.2.34b RLC_UM_CriticalMCCHMsg (Rel-6 or later)

ASN.1 ASP Type Definition			
Type Na	ame	RLC_UM_CriticalMCCHMsg_REQ	
PCO Ty	/pe	DSAP	
Comment To request to tran This ASP is valid When an RLC_UI received the SS s modification perio transmitting the s order as they app in each next repe received to modifi When an RLC_UI the SS stops the period specified b If specialLI is set		To request to transmit critical MCCH messageList using unacknowledged This ASP is valid only for the RLC entity configured for the logical channed When an RLC_UM_CriticalMCCHMsg_REQ with non-empty uM_Message received the SS stops ongoing critical MCCH information transmission in modification period indicated by startingTime. At the same time, the SS stransmitting the set of critical MCCH messageList passed by the ASP in the order as they appear in the uM_MessageList, and then repeats the transmin each next repetition period until another RLC_UM_CriticalMCCHMsg_received to modify the critical messages at start of the next modification period until another RLC_UM_CriticalMCCHMsg_REQ without uM_Messages is received to modify the critical MCCHMsg_REQ without uM_Messages is received to startingTime. If specialLI is set to TRUE all SUDs sent within the RLC_UM_CriticalMCCHMsg_REQ have the special LI set to indicate begithe RLC_SDU.	el MCCH. Jes is the tarts he same mission REQ is period. ceived dification
		Type Definition	
SEQUENCE	{ cellId routingIn startingIn uM_Messag specialLin	Time INTEGER(04095), pointing to the first frame of a modificat ges MCCH_MessageList OPTIONAL,	ion

ASN.1 Type Definition			
Type Name MCCH_MessageList			
Comment	Comment MBMSAccessInformation shall not be included in the MCCH_MessageList.		
Type Definition			
SEQUENCE (SIZE(1maxNumMCCHMsgs))OF MCCH_MessageType			

ASN.1 Type Definition		
Type Name maxNumMCCHMsgs		
Comment	For covering the configuration with 20 neighbouring cells	
Type Definition		
INTEGER (25)		

7.3.2.2.34c RLC_TR_SeqOfRlcPdus

ASN.1 ASP Type Definition			
Type Name	RLC_TR_SeqOfRlcPdus_REQ		
PCO Type	DSAP		
Comment	To request to transmit a sequence of RLC PDUs using transparent mode: The first PDU is sent in the frame at startingTime, the other PDUs are subsequently sent in the following frames. This primitive can be used e.g. to send fully coded RLC PDUs of critical messages at the beginning of a repetition period. Each sequence of RLC PDUs is sent just once i.e. not repeated at the beginning of the next repetition period. Therefore the sequence may also contain Access Information. Furthermore the sequence may contain corrupted PDUs.		
	Type Definition		
SEQUENCE {	<pre>INTEGER(-163), RoutingInfo, INTEGER(04095), pointing to the first frame of a modification MCCH_RlcPduList</pre>		

ASN.1 Type Definition	
Type Name	MCCH_RlcPduList
Comment	Each RLC PDU is completely encoded and consists of RLC UM header and RLC SDU
Type Definition	
SEQUENCE (SIZE(1maxNumMCCHRIcPdus)) OF BIT STRING	

ASN.1 Type Definition		
Type Name maxNumMCCHRIcPdus		
Comment	Maximum number of RLC PDUs in RLC tests of MCCH	
	Type Definition	
INTEGER (64)		

7.3.2.2.35 RLC_UM_DATA

ASN.1 ASP Type Definition				
Type N	lame	RLC_UM_DATA_REQ		
PCO T	Гуре	DSAP		
Comm	nent	To request to transmit DATA using	g unacknowledged mode.	
		Type Definition	on	
SEQUENCE	{ cellId routingIn uM_Messag	dL_DCCH_Message dL_CCCH_Message pCCH_Message dL_SHCCH_Message bCCH_FACH_Message bCCH_BCH_Message invalid_dL_DCCH_Message	DL_DCCH_Message, DL_CCCH_Message, PCCH_Message, DL_SHCCH_Message, BCCH_FACH_Message, BCCH_BCH_Message Invalid_DL_DCCH_Message},	

	ASN.1 ASP Type Definition			
Type N	Type Name RLC_UM_DATA_IND			
PCO 1	Гуре	DSAP		
Comn	nent	To indicate to receive	DATA using un	acknowledged mode.
			Type Definition	
SEQUENCE	{ cellId routingI: integrit uM_Messa	nfo Ro yResult In	е	

7.3.2.2.35a RLC_UM_MSCH_Msg (Rel-6 or later)

ASN.1 ASP Type Definition				
Type Name	RLC_UM_MSCH_Msg_REQ			
PCO Type	DSAP			
	Comment To request to transmit MSCH_MessageList using unacknowledged mode. The ASP is applied to the RLC entity configured for the logical channel MSCH.			
	Type Definition			
SEQUENCE {	<pre>INTEGER(-163), RoutingInfo, iguration</pre>			

	ASN.1 Type Definition	
Type Name	MSCH_REPconfiguration	
Comment	MSCH_ REPconfiguration describes how the scheduled data to be transmitted.	
	If MSCH is configured MSCH_ REPconfiguration specifies when series of MSCH scheduling repetitions start and how long the scheduling period is.	
	The scheduledSFN fulfils:	
	scheduledSFN = ((SFNss / MSCH_REP + 1) * MSCH_REP + MSCH_OFF + (SCTO / 10ms)) mod 4096,	
	where SFNss is the value of currentSFN provided by SS via CPHY_SFN_CNF. The SS shall start sending the 1 st SCHEDULING INFORMATION message on the frame indicated by scheduledSFN and successively send the remaining MSCH messages in the list on the 1 st TTI of every mSCH_REP.	
	If MSCH is not configured the scheduledSFN fulfils:	
	scheduledSFN = (SFNss + (SCTO / 10ms)) mod 4096, mSCH_REP is omitted.	
	Type Definition	
SEQUENCE {		
scheduledSFN		
mSCH_REP	ENUMERATED { sp32(0), sp64(1), sp128(2), sp256(3), sp512(4),	
sp1024(5) } OPTIONAL		

ASN.1 Type Definition		
Type Name	MSCH_MessageList	
Comment	Multiple MSCH messages can be submitted to the SS. Every scheduling period a new message in the sequence is transmitted according to the appearing order in the sequence.	
Type Definition		
SEQUENCE (SIZE(1	maxNumMSCHMsgs))OF SS_MSCH_Message	

ASN.1 Type Definition			
Type Name	SS_MSCH_Message		
Comment	noSend of SS_MSCH_Message is applied to the scheduling period when no		
	MBMS service data are sent on all MTCH.		
	Type Definition		
CHOICE {			
mSCH_Message	MSCH_MessageType,		
noSend	NULL}		

ASN.1 Type Definition		
Type Name	maxNumMSCHMsgs	
Comment	Covering a sufficiently long duration of multiple MSCH scheduling periods for test	
Type Definition		
INTEGER (64)		

7.3.2.2.36 RLC_TR_MACesDATA_IND (Rel-6 or later)

	ASN.1 ASP Type Definition		
Type Name	RLC_TR_MACesDATA_IND		
PCO Type	DSAP		
Comment	This ASP is used for MACes delivering data in MAC_es testing. The IE cellId = -1, The routingInfo is RB identity, corresponding to RLC in TM, (tsc_RB_DTCH_E_DCH_MAC0(-20), tsc_RB_DTCH_E_DCH_MAC1(-21), or tsc_RB_DTCH_E_DCH_MAC2(-22)). The cfn and subframe indicate the CFN and sub-frame number on which the mACesSDUs (RLC PDUs) were received. The ddi, tsn and n are the reported values in the header of each MAC-es PDU that carries the mACesSDUs. If SI is received together with other MACes PDUs in a MAC-e PDU but without a special DDI associated, the SS shall split SI from MACes data and the latter ones are delivered with the ASP.		
	Type Definition		
SEQUENCE {	<pre>INTEGER (0255), INTEGER (04 7), Value 7 applied when TTI=2ms ENUMERATED {happy(0), unhappy(1)}, INTEGER (062), INTEGER (063), INTEGER (063),</pre>		

ASN.1 Type Definition		
Type Name	MACesSDU_List	
Comment		
Type Definition		
SEQUENCE (SIZE (16	3)) OF MACesSDU	

	ASN.1 Type Definition
Type Name	MACesSDU
Comment	
	Type Definition
BIT STRING	RLC PDU in TM

7.3.2.3 Specific ASP and IE definitions for 1.28 Mcps TDD (Rel-4 or later)

The ASP definitions in 7.3.2.2 are applied to 1.28 Mcps TDD with the exceptions.

- 1. The ASP definition CPHY_AICH_AckModeSet is not applied.
- 2. Specifici IE definitions in this clause replace the definitions in clause 7.3.2.2.

7.3.2.3.1 Specific ASP definitions

ASN.1 ASP Type Definition			
Type Name	CPHY_Cell_Config_REQ		
PCO Type	CSAP		
Comment	Applicable Rel-4 or later		
	To request to setup the cell parameter.		
	The unit of tcell is chip; the unit of sfnOffset is frame number; the primary		
	scambling code number of the cell is 16*primaryScramblingCode_SS; the unit of		
	dLTxAttenuationLevel is dB.		
	Type Definition		
SEQUENCE {			
cellId	INTEGER (063),		
sfnOffset	INTEGER (0 4095),		
frequencyInfo	FrequencyInfo,		
cellTxPowerLevel			
dLTxAttenuationL			
cellParametersID			
timeSlotConfigur			
dwPCHInfo	DwPCHInfo,		
transmissionDive	ersityApplied ENUMERATED {NotApplied(0),Applied(1)} OPTIONAL		

ASN.1 ASP Type Definition		
Type Name	CPHY_HS_SICH_AckNack_CNF	
PCO Type	CSAP	
Comment	Applicable Rel-5 or later	
	To Confirm CPHY HS SICH AckNack REQ	
Type Definition		
SEQUENCE {		
cellId	INTEGER(063)	
}		

ASN.1 ASP Type Definition			
Type Name	CPHY_HS_SICH_AckNack_REQ		
PCO Type	CSAP		
Comment	Applicable Rel-5 or later		
	To request for Start or Stop of reporting Ack/Nack received on the SICH for the		
	HARQ process hARQProcessId.		
	At the SS initialization reporting of Ack/Nack is in "STOP" state		
	Type Definition		
SEQUENCE {			
cellId	INTEGER(063),		
ratType	RatType,		
ackNackReportReq	AckNackReportReq,		
hARQProcessId	INTEGER(07)		
}			

ASN.1 ASP Type Definition			
Type Name	CPHY_HS_SICH_AckNack_IND		
PCO Type	CSAP		
Comment	Applicable Rel-5 or later		
	SS reportes the HARQ-ACK information received on HS_DPCCH,		
	each received Ack/Nack generates a CPHY_HS_DPCCH_AckNack_IND		
	Type Definition		
SEQUENCE			
{			
cellId	INTEGER(063),		
ratType	RatType,		
hARQ_ACKInfo	ENUMERATED {ack(0), nack (1)},		
hARQProcessId	INTEGER(07)		
}			

ASN.1 ASP Type Definition		
Type Name	CPHY_HS_SICH_CQI_CNF	
PCO Type	CSAP	
Comment	Applicable Rel-5 or later.	
	To Confirm CPHY_HS_SICH_CQI_REQ	
Type Definition		
SEQUENCE {		
cellId IN	TEGER (063)	
}		

ASN.1 ASP Type Definition			
Type Name	CPHY_HS_SICH_CQI_REQ		
PCO Type	CSAP		
Comment	Applicable Rel-5 or later.		
	To enable the SS to start reporting N times of the CQI value received on the HS-		
	SICH. At the SS initialization reporting of CQI values is disabled		
	Type Definition		
SEQUENCE {			
cellId	INTEGER(063),		
ratType	RatType,		
cQIReport }	ENUMERATED {startRep (0),stopRep (1) }		

	ASN.1 ASP Type Definition		
Type Name	CPHY_HS_SICH_CQI_IND		
PCO Type	CSAP		
Comment	Applicable Rel-5 or later.		
	SS generates the indication when the CQI information is received on HS_SICH after invocation of ASP CPHY HS SICH CQI REQ.		
	This ASP is used for verifying whether the UE has configured the HS-DSCH and		
	starts reception of HS-DSCH. (TS 25.331 cl.8.6.6.34)		
	Type Definition		
SEQUENCE {			
cellId	INTEGER(063),		
ratType	RatType,		
rMS	ENUMERATED {qPSK (0),16QAM (1) },		
rTB }	INTEGER(063)		

Type Name	CMAC_MAChs_TFRCcon	figure_REQ
PCO Type	CSAP	
Comment	Applicable Rel-5 or later	
	To configure the TFRC sel	ection in the MAC-hs entity
	If explicitlyConfigured is se	elected in tfrcConfigMode, the SS shall use all the
	parameter values specified	d to configure a correct transport format and radio
	resources.	
	If sS_Configured is selected	ed, the parameter value range is specified. SS shall
		able values for the parameters'modulationScheme',
		OfChannelisationCodes ', tbSizeIndexOnHS_SCCH',
		ns_PDSCH_TxPower' according to UE's capability
	category and CQI informat	ion reported by the UE.
	MaxnoofDLtsLCR=6	
Type Definition		
SEQUENCE {	T177777777 (1	
cellId tfrcConfiqMode	<pre>INTEGER(-163), CHOICE {</pre>	
explicitlyCo		QUENCE {
	onScheme	ModulationScheme,
noOfTime		INTEGER (06),
	esPerTimeslot	INTEGER (016),
	dexOnHS_SCCH .cyVersion	INTEGER (063), INTEGER (07),
	TxPower	DL TxPower default offset related
		to p-PCCPCH
sS_Configure	d SEQUENCE {	-
numofTim	oglota	INTEGER (06),
	esPerTimeslot	INTEGER (016),
	SCH TxPower	DL TxPower default offset related
_	_	to p-PCCPCH
	}	
}		
}		

7.3.2.3.2 Specific IE definitions

```
ASN.1 Type Definition
     Type Name
                      CphyRlModifyReq
                     Applicable Rel-4 or later for LCR TDD
     Comment
                                        Type Definition
SEQUENCE
        activationTime
                                          SS_ActivationTime,
        physicalChannelInfo
                                          CHOICE {
                secondaryCCPCHInfo
                                              SecondaryCCPCHInfo,
                pRACHInfo
                                              PRACHInfo,
                                              DPCHInfo,
DPCHInfo_r5,
                dPCHInfo
                dPCHInfo_r5
                hS DPSCHInfo
                                              HS DPSCHInfo
                                                  },
BOOLEAN
        trchConfigToFollow
                                                               DEFAULT TRUE
```

ASN.1 Type Definition		
Type Name	CphyRlSetupReq	
Comment	Applicable Rel-4 or later for LCR TDD	
	To request to setup the Radio Link for LCR TDD	
	Type Definition	
SEQUENCE {		
physicalChannelI	nfo CHOICE {	
primaryCCPCH	Info PrimaryCCPCHInfo,	
secondaryCCP	CHInfo SecondaryCCPCHInfo,	
pRACHInfo	PRACHInfo,	
pICHInfo	PICHInfo,	
dPCHInfo	DPCHInfo,	
pDSCHInfo	PDSCHInfo,	
pUSCHInfo	PUSCHInfo,	
dPCHInfo r5	DPCHInfo r5,	
hS DPSCHInfo	HS DPSCHInfo	
_	_ }	
}	•	

ASN.1 Type Definition		
Type Name	PrimaryCCPCHInfo	
Comment	Applicable Rel-4 or later for LCR TDD	
Type Definition		
SEQUENCE { sctd_Indicator tstd_Indicator commonTimeSlotIn dL_TxPower_PCCPC }		

ASN.1 Type Definition		
Type Name S	SecondaryCCPCHInfo	
Т	Applicable Rel-4 or later for LCR TDD The range for powerOffsetOfTFCI_PO1 and powerOffsetOfPILOT_PO3 is 0-6 dB, 0.25 dB per step.	
Type Definition		
SEQUENCE {		
tstd_Indicator	<pre>ENUMERATED {NotApplied(0), Applied(1)},</pre>	
sctd_Indicator	<pre>ENUMERATED {NotApplied(0), Applied(1)},</pre>	
dl_TxPower	DL_TxPower,	
commonTimeSlotInfo CommonTimeslotInfoSCCPCH,		
channelisationCode SCCPCH ChannelisationCodeList,		
individualTimeslotInfo IndividualTimeslotInfo LCR r4,		
powerOffsetOfTFCI PO1 INTEGER (024) OPTIONAL		
}		

```
ASN.1 Type Definition

Type Name PRACHInfo

Comment Applicable Rel-4 or later for LCR TDD

Type Definition

SEQUENCE {
    pRACH_RACH_Info_LCR_r4 PRACH_RACH_Info_LCR_r4,
    accessServiceClass_TDD_LCR AccessServiceClass_TDD_LCR_r4,
    fPACH_Power
}
```

ASN.1 Type Definition			
Type Name	DL_DPCHInfo		
Comment	Applicable Rel-4 or later for LCR TDD The range for powerOffsetOfTPC_PO2 and powerOffsetOfTFCI_PO1 and powerOffsetOfPILOT_PO3 is 0 dB to 6 dB, 0,25 dB per step.		
	Type Definition		
SEQUENCE {			
dl_CommonInforma		_CommonInformation_r4,	
dl_DPCH_InfoPerR	L DL	_DPCH_InfoPerRL_r4,	
powerOffsetOfTFC	I_PO1 IN'	TEGER (024),	
powerOffsetOfTPC	_PO2 IN	reger (024),	
dl TxPower		_TxPower,	
dl TxPowerMax		TxPower,	
dl TxPowerMin		TxPower,	
<pre>dL_TimeslotISCPI }</pre>	nfoLCR Ti	neslotListWithISCP	

ASN.1 Type Definition		
Type Name	DL_DPCHInfo_r	5
Comment	Applicable Rel-4	or later for LCR TDD
	The range for po	werOffsetOfTPC_PO2 and powerOffsetOfTFCI_PO1 and
	powerOffsetOfP	ILOT_PO3 is 0 dB to 6 dB, 0,25 dB per step.
Type Definition		
SEQUENCE {		
dl_CommonInforma	ıtion	DL_CommonInformation_r5,
dl_DPCH_InfoPerR	RL .	DL_DPCH_InfoPerRL_r5,
powerOffsetOfTFCI_PO1		INTEGER (024),
powerOffsetOfTPC PO2		INTEGER (024),
dl TxPower		DL_TxPower,
dl_TxPowerMax		DL_TxPower,
dl_TxPowerMin		DL_TxPower,
dL_TimeslotISCPInfoLCR		TimeslotListWithISCP
]}		

ASN.1 Type Definition		
Type Name	PDSCHInfo	
Comment	Applicable Rel-4 or later for LCR TDD	
	Type Definition	
<pre>SEQUENCE { pdsch_Identity pdsch_Info pdsch_PowerContr dl_TxPower }</pre>	PDSCH_Identity, PDSCH_Info_r4, rolInfo PDSCH_PowerControlInfo OPTIONAL, DL_TxPower	

	ASN.1 Type Definition
HS_PDSCHInfo	
Applicable later	than r4
When CHY_RL_	Setup_REQ is called with CHOICE of hS_PDSCHInfo
	HS-SCCH shall be configured in SS.
The following HS	S-DSCH related parameters are passed to the SS implicitly by
	cal_layer_category:
- Maximum	number of HS-DSCH codes can be received by UE.
- Minimum i	nter-TTI interval.
	number of bits of an HS-DSCH transport block within an HS-
	ber of soft channel bits'.
	cal_Layer_category is also used for interpretation of the meaning
of CQI value.	
	Type Definition
yerCategory	HSDSCH_physical_layer_category,
+ d =	H_RNTI,
ICTOU	DL_HSPDSCH_Information, DL TxPower offset related to
	p-PCCPCH (25.433, 9.2.2.18I)
	p 10010M (20.100) 9.2.2.101)
	Applicable later When CHY_RL_ HS_PDSCH and The following HS HSDSCH_physi - Maximum - Minimum i - Maximum DSCH TTI - Total num

ASN.1 Type Definition		
Type Name	HS_DSCHMACdFlows	
	Applicable later than r4 Within the ACK/NACK repetition period indicated by ackNackRepetitionFactor the SS shall not transmit MAC-hs PDU's on HS-PDSCH.	
	Type Definition	
<pre>SEQUENCE { harqInfo addOrReconfMACdF }</pre>	HARQ_Info OPTIONAL, low SS_AddOrReconfMAC_dFlow OPTIONAL,	

7.3.3 TTCN primitives

7.3.3.1 UTRAN TTCN primitives

Table 21 shows the primitives that are used for RLC, BMC ,RB and PDCP tests, these primitives are defined in TTCN tabular form.

Table 21: Primitives for RLC, BMC and RB tests

Primitive	Parameters	Use
RLC_TR_TestDataReq	Cell identity	The ASP is used to request the transmission of
•	INTEGER (-3132)	unstructured data using transparent mode in the
	Data (Meta type PDU)	downlink direction
RLC_TR_TestDataInd	Cell identity	The ASP is used to indicate the reception of
	INTEGER (-3132)	unstructured data using transparent mode in the
	Data (Meta type PDU)	uplink direction
RLC_UM_TestDataReq	Cell identity	The ASP is used to request the transmission of
_	INTEGER (-3132)	unstructured data using unacknowledged mode in the
	Data (Meta type PDU)	downlink direction
RLC_UM_TestDataInd	Cell identity	The ASP is used to indicate the reception of
	INTEGER (-3132)	unstructured data using unacknowledged mode in the
	Data (Meta type PDU)	uplink direction
RLC_AM_TestDataReq	Cell identity	The ASP is used to request the transmission of
	INTEGER (-3132)	unstructured data using acknowledged mode in the
	Data (Meta type PDU)	downlink direction
RLC_AM_TestDataInd	Cell identity	The ASP is used to indicate the reception of
	INTEGER (-3132)	unstructured data using acknowledged mode in the
	Data (Meta type PDU)	uplink direction
BMC_DataReq	Cell identity,	The ASP is used to request the transmission of
	INTEGER (-3132),	unstructured BMC data or scheduling message, using
	Data (Meta type PDU)	unacknowledged mode in the downlink direction.
BMC_DataCnf	CellId,	The ASP is used to confirm the reception of BMC
	INTEGER (-3132)	CBS data
RLC_HandoverReq	CellId	The ASP is used to request the transmission of the
-	INTEGER (-3132)	HandoverFromUTRANCommand_GSM message
	Data (Meta type PDU)	using acknowledged operation (AM).
		The Meta PDU in turn consists of 2 components.
		The ASN.1 PER encoded
		HandoverFromUTRANCommand, without
		any 1 bit to 7 bits of padding.
		The GSM Handover command.
1		The SS shall take care of inserting the MAC and RLC
		sequence number of Integrity check info, as in the
		case of other RRC DL PDU's

The TTCN tabular format applies to the primitive definitions.

7.3.4 GERAN PCO and ASP definitions

7.3.4.1 PCO Type definitions

7.3.4.1.1 PCO type for data transmission and reception in GERAN

Table 22: Declaration of the G_DSAP PCO Type

PCO Type Definition		
PCO Type	G_DSAP	
Role	LT	
Comment	DATA transmission and reception	

7.3.4.1.2 PCO type for configuration and control in GERAN

Table 23: Declaration of the G_CSAP PCO Type

PCO Type Definition		
PCO Type	G_CSAP	
Role	LT	
Comment	Transmission and reception of control primitives	

7.3.4.2 PCO definitions

7.3.4.2.1 PCOs for data transmission and reception in GERAN

7.3.4.2.1.1 PCO for data transmission and reception through GERAN L2

Table 24: Declaration of G_L2 PCO

PCO Type Definition		
PCO Name	G_L2	
PCO Type	G_DSAP	
Role	LT	
Comment	Control and observation point of GERAN L3 messages and user data	

7.3.4.2.1.2 PCO for data transmission and reception through GPRS RLC

Table 25: Declaration of G_RLC PCO

PCO Type Definition		
PCO Name	G_RLC	
PCO Type	G_DSAP	
Role	LT	
Comment	Control and observation point of GPRS GRR signalling messages	

7.3.4.2.1.3 PCO for data transmission and reception through GPRS LLC

Table 26: Declaration of LLC PCO

PCO Type Definition		
PCO Name	G_LLC	
PCO Type	G_DSAP	
Role	LT	
Comment	Control and observation point of GPRS GMM signalling messages	

7.3.4.2.1.4 PCO for data transmission and reception through GPRS SNDCP

Table 27: Declaration of SNDCP PCO

PCO Type Definition		
PCO Name	G_SNDCP	
PCO Type	G_DSAP	
Role	LT	
Comment	Control and observation point of GPRS user packet data	

7.3.4.2.2 PCOs for control primitives transmission and reception in GERAN

7.3.4.2.2.1 PCO for GERAN L1control primitives transmission and reception

Table 28: Declaration of G_CL1 PCO

PCO Type Definition		
PCO Name	G_CL1	
PCO Type	G_CSAP	
Role	LT	
Comment	Control GERAN Physical Layer (L1)	

7.3.4.2.2.2 PCO for GERAN L2 control primitives transmission and reception

Table 29: Declaration of G_CL2 PCO

PCO Type Definition				
PCO Name	G_CL2			
PCO Type	G_CSAP			
Role	LT			
Comment	Control GERAN L2			

7.3.4.2.2.3 PCO for GPRS RLC control primitives transmission and reception

Table 30: Declaration of G_CRLC PCO

PCO Type Definition				
PCO Name	G_CRLC			
PCO Type	G_CSAP			
Role	LT			
Comment	Control GPRS RLC/MAC layer			

7.3.4.2.2.4 PCO for GPRS LLC control primitives transmission and reception

Table 31: Declaration of G_CLLC PCO

PCO Type Definition			
PCO Name	G_CLLC		
PCO Type	G_CSAP		
Role	LT		
Comment	Control GPRS LLC layer		

7.3.4.2.2.5 PCO for GPRS SNDCP control primitives transmission and reception

Table 32: Declaration of G_CSNDCP PCO

PCO Type Definition				
PCO Name	G_CSNDCP			
PCO Type	G_CSAP			
Role	LT			
Comment	Control GPRS SNDCP layer			

7.3.4.3 GERAN ASP Definitions

7.3.4.3.1 ASPs for data transmission and reception in GERAN

7.3.4.3.1.1 ASPs for data transmission and reception through GERAN L2

ASP Name	G_L2_DATA_REQ			
PCO Type	G_DSAP			
	The ASP is used to send L3 signalling message on the signalling channels or user data on the traffic channels to the UE/MS in acknowledged mode.			
Param	eter Name	Parameter ⁻	Type Comments	
cellId		CellId		
sAPI		SAPI	0 or 3	
physicalChld		PhysicalChld	Channel identifier	
g_LogicChType		G_LogicChTyp	oe e	
subChannel		SubChannelNu	Valid only for logical channel types: TCH/H, FACCH/H, SACCH/TH, SDCCH/8, SACCH/C8, SDCCH/4, and SACCH/C4. For TCH/H, FACCH/H and SACCH/TH value is (01); For SDCCH/8 and SACCH/C8 value is (07); for SDCCH/4 and SACCH/C4 value is (03). This field is not applicable and the SS shall ignore it if this field is coded as 15.	
rfn		RFN	The reduced frame number of the first frame on which this message is sent. This field is not applicable and the SS shall ignore it if the field t2 of rfn is coded as '11111'B.	
msg		PDU	Signalling message or user data to be sent	
Detailed Con	Parameter rfn is only used in the test cases that require L3 message to be sent on specified frame number.			

ACD Name O LO DATA	INID		
	G_L2_DATA_IND		
PCO Type G_DSAP	G_DSAP		
	The ASP is used to receive a L3 signalling message on the signalling channels or user data on the traffic channels from the UE/MS in acknowledged mode.		
Parameter Name	Parameter Type	Comments	
cellId	CellId		
sAPI	SAPI	0 or 3	
physicalChId	PhysicalChId	Channel identifier	
g_LogicChType	G_LogicChType		
subChannel	SubChannelNumber	Valid only for logical channel types: TCH/H, FACCH/H, SACCH/TH, SDCCH/8, SACCH/C8, SDCCH/4, and SACCH/C4. For TCH/H, FACCH/H and SACCH/TH value is (01); For SDCCH/8 and SACCH/C8 value is (07); for SDCCH/4 and SACCH/C4 value is (03). This field is not applicable and the SS shall ignore it if this field is coded as 15.	
rfn	RFN	The reduced frame number of the first frame carrying the message	
msg	PDU	Signalling message or user data received	
Detailed Comments			

ASP Name	G_L2_L2Estab_IND			
PCO Type	G_DSAP			
Comments	The ASP is used to receive an indication of that L2 multiple frame operation on the specified channel has been established.			
Param	neter Name		Parameter Type	Comments
cellld			CellId	
physicalChld			PhysicalChId	Channel identifier
g_LogicChType			G_LogicChType	
subChannel			SubChannelNumber	Valid only for logical channel types: FACCH/H, SDCCH/8 and SDCCH/4, This field shall be coded as 15 if it is not applicable.
sAPI			SAPI	0,3
establish_mode			OCTETSTRING[1]	
rfn			RFN	The reduced frame number of the first frame carries the L2 SABM frame
msg			PDU	this field is present only when the establish mode is CoRes (collision resolution)
Detailed Cor	omments see 3GPP TS 44.006 [42] clauses 7.1.1 and 7.1.3			

ASP Name	G_L2_UNITDATA_REQ		
PCO Type	G_DSAP		
Comments	The ASP is used to send L3 signalling message on the signalling channels or send user data on the traffic channels to the UE/MS in unacknowledged mode.		
Paran	neter Name	Parameter Type	Comments
cellld		CellId	
sAPI		SAPI	0 or 3
physicalChld		PhysicalChId	Channel identifier
g_LogicChType		G_LogicChType	
subChannel		SubChannelNumber	Valid only for logical channel types: TCH/H, FACCH/H, SACCH/TH, SDCCH/8, SACCH/C8, SDCCH/4, and SACCH/C4. For TCH/H, FACCH/H and SACCH/TH value is (01); For SDCCH/8 and SACCH/C8 value is (07); for SDCCH/4 and SACCH/C4 value is (03). This field is not applicable and the SS shall ignore it if this field is coded as 15.
rfn		RFN	The reduced frame number of the first frame on which this message is sent. This field is not applicable and the SS shall ignore it if the field t2 of rfn is coded as '11111'B.
msg		PDU	Signalling message or user data to be sent
Detailed Co	Comments Parameter fn is only used in the test cases that require specific L3 message to be sent of specified frame number.		

ASP Name G_L2_UNITDA	G_L2_UNITDATA_IND				
PCO Type G_DSAP	G_DSAP				
	The ASP is used to receive a L3 signalling message on the signalling channels or user data on the traffic channels from the UE/MS in unacknowledged mode.				
Parameter Name	Parameter Type	Comments			
cellld	CellId				
sAPI	SAPI	0 or 3			
physicalChId	PhysicalChId	Channel identifier			
g_LogicChType	G_LogicChType				
subChannel	SubChannelNumber	Valid only for logical channel types: TCH/H, FACCH/H, SACCH/TH, SDCCH/8, SACCH/C8, SDCCH/4, and SACCH/C4. For TCH/H, FACCH/H and SACCH/TH value is (01); For SDCCH/8 and SACCH/C8 value is (07); for SDCCH/4 and SACCH/C4 value is (03). This field is not applicable and the SS shall ignore it if this field is coded as 15.			
rfn	RFN	The reduced frame number of the first frame carrying the message			
msg	PDU	Signalling message or user data received			
Detailed Comments					

ASP Name G_L2_ACCESS_IND	G_L2_ACCESS_IND			
PCO Type G_DSAP	G_DSAP			
Comments The ASP is used to a	The ASP is used to receive a random access or handover access burst on the specified channel.			
Parameter Name	Parameter Type	Comments		
cellId	CellId			
physicalChld	PhysicalChId	Channel identifier		
g_LogicChType	G_LogicChType	RACH, FACCH, SDCCH/8, SDCCH/4. RACH is used for random access burst; others are used for handover access burst		
subChannel	SubChannelNumber	Valid only for logical channel types: FACCH/H, SDCCH/8, SDCCH/4. This field is not applicable and the SS shall ignore it if this field is coded as 15.		
rfn	RFN	The reduced frame number of the first frame carrying the burst		
burst	PDU	Random access burst or handover access burst		
Detailed Comments				

ASP Name	G_L2_Paging_REQ			
PCO Type	G_DSAP			
Comments	The ASP is used to send a paging message on the specified paging group of the specified paging channel to the UE/MS, when the UE/MS is in idle mode or the UE/MS not supporting SPLIT_PG_CYCLE on CCCH is in GPRS attached mode and PCCCH is absent.			
Paran	neter Name	Parameter Type	Comments	
cellld		CellId		
sAPI		SAPI	0	
physicalChld		PhysicalChId	Channel identifier of the right CCCH_GROUP	
g_LogicChType		G_LogicChType	PCH	
pagingGroup		PAGING_GROUP		
pagingMode		PagingMode	0-normal paging; 1-extended paging; 2-paging reorganization.	
msg		PDU	Paging message	
Detailed Com	ments CCCH where For "normal For "extende in the "next be For "paging I The required pagingGroup The index to Paging block N = (9-BS_A)	PDU Paging message The SS is required to send valid layer 3 messages continuously on all paging subchannels or CCCH where paging can appear. For "normal paging" the SS send the paging message in the specified pagingGroup; For "extended paging" the SS send the paging message in the specified pagingGroup and in the "next but one" position on the PCH, following the block corresponding to pagingGroup; For "paging reorganization" the SS cond the paging message in all paging subchannels.		

ASP Name	G_L2_PagingGPRS_REQ			
	G_DSAP			
Comments	The ASP is used to send a paging message on the specified paging group of the specified paging channel to the UE/MS, when the UE/MS supporting SPLIT_PG_CYCLE on CCCH is in GPRS attached mode and PCCCH absent.			
	neter Name	Parameter Type	Comments	
cellId		CellId		
sAPI		SAPI	0	
physicalChld		PhysicalChId	Channel identifier of the right CCCH_GROUP	
<pre>g_LogicChType</pre>)	G_LogicChType	PCH	
pagingGroup		PAGING_GROUP		
pagingMode		PagingMode	0-normal paging; 1-extended paging; 2-paging reorganization.	
splitPGcycleCode		INTEGER	0 No Split Paging, 132 Split Paging	
msg		PDU	Paging message	
Detailed Co	subchani For "norr For "exte and in th pagingG For "pag subchani The requ pagingG The inde Paging b M = (9-B M = (3-B	PDU Paging message The SS is required to send valid layer 3 messages continuously on all paging subchannels on CCCH where paging can appear. For "normal paging" the SS send the paging message in the specified pagingGroup; For "extended paging" "the SS send the paging message in the specified pagingGroup and in the "next but one" position on the PCH, following the block corresponding to pagingGroup; For "paging reorganization" the SS send the paging message in all paging		
NOTE: This	NOTE: This ASP may not be implemented if the MS/UE does not support SPLIT_PG_CYCLE on CCCH.			

Type Name	CellId
Type Definition	INTEGER
Type Encoding	
Comments	

Type Name	SAPI	
Type Definition	INTEGER	
Type Encoding		
Comments	Service access point identifier for GERAN L2 and LLC	

Type Name	PhysicalChId
Type Definition	INTEGER(031)
Type Encoding	
Comments	Physical channel identifier in GERAN

Type Name	G_LogicChType	
Type Definition	INTEĞER	
Type Encoding		
Comments	GERAN logical channel type: 0-BCCH; 1-RACH; 2-PCH; 3-AGCH; 4-SDCCH/4; 5-SACCH/C4; 6-SDCCH/8; 7-SACCH/C8; 8-TCH/F; 9-FACCH/TF; 11-TCH/H; 12-FACCH/H; 13-SACCH/TH; 14-PBCCH; 15-PRACH; 16-PPCH; 17-PAGCH; 18-PDTCH/F; 20-PTCCH/F; 21-E-TCH/F; 21-E-TCH/F; 22-E-IACCH/F; 23-E-FACCH/F; 24-SACCH/M; 25-SACCH/MD	

Type Name	SubChannelNumber
Type Definition	INTEGER
Type Encoding	
	Subchannel number for TCH/H, FACCH/H, SACCH/TH, SDCCH/4, SDCCH/C4, SDCCH/8 and SDCCH/C8.
	For TCH/H, FACCH/H and SACCH/TH value is (01); For SDCCH/8 and SACCH/C8 value is (07); For SDCCH/4 and SACCH/C4 value is (03).

Type Name	PAGING_GROUP
Type Definition	INTEGER
Type Encoding	
Comments	3GPP TS 05.02 or 3GPP TS 45.002 [31], clauses 6.5.2 and 6.5.6

Type Name	PagingMode
Type Definition	INTEGER
Type Encoding	
	0 - normal paging;
Comments	1 - extended paging;
	2 - paging reorganization.

Type Name	RFN		
Encoding Variation			
Comments	The reduced frame number, its range is 0 42431 (FN modulo 42432) about 195.8 s		
Element Name	Type Definition	Field	Comments
Liement Name		Encoding	Comments
t1_	BITSTRING[5]		(FN div 1326) mod 32
t3	BITSTRING[6]		FN mod 51
t2	BITSTRING[5]		FN mod 26
	see 3GPP TS 04.18 or 3GPP TS 44.018 [43], clause 10.5.2.38.		
Detailed Comments	The reduced frame number, FN modulo 42432 can be calculated in the following		
	formula: 51 x ((t3 - t2) mod 26) + t3 + 1326 x t1		
	RFN is used for starting time and TBF starting time.		

ASP Name	G_L2_Release_CNF		
PCO Type	G_DSAP		
Comments	This ASP from L2, indicates that the multiple frame operation release was successful. This means that the UA message was received in response to L2 DISC command.		
Parameter	Parameter Name Parameter Type		Comments
cellId		CellId	
sAPI		SAPI	0 or 3
physicalChld	d PhysicalChId		Channel identifier
g_LogicChType G_LogicChType		G_LogicChType	
subChannel		SubChannelNumber	For SDCCH/8 and SACCH/C8 value is (07); for SDCCH/4 and SACCH/C4 value is (03). This field is not applicable and the SS shall ignore it if this field is coded as 15.
releaseMode		BITSTRING[1]	0 = normal release; 1 = local release.
Detailed Cor	nments		

ASP Name	G_L2_Release_REQ		
PCO Type	G_DSAP		
Comments	This ASP requests L2 to send Layer 2 DISC command on the indicated SAPI.		
Parameter	Name	Parameter Type	Comments
cellId		CellId	
sAPI	•	SAPI	0 or 3
physicalChld		PhysicalChld	Channel identifier
g_LogicChType		G_LogicChType	
subChannel		SubChannelNumber	For SDCCH/8 and SACCH/C8 value is (07); for SDCCH/4 and SACCH/C4 value is (03). This field is not applicable and the SS shall ignore it if this field is coded as 15.
releaseMode		BITSTRING[1]	0 = normal release; 1 = local release.
Detailed Cor	nments		

ASP Name	G_L2_Release_IND					
PCO Type	G_DSAP					
	The ASP is used to receive an indication of the termination of an established multiple frame operation					
Commonto	or an indicati	on of an unsuccessful establishmen	t attempt.			
Parameter	Name	Parameter Type	Comments			
cellId		CellId				
sAPI		SAPI	0			
physicalChld		PhysicalChId	Channel identifier			
g_LogicChType		G_LogicChType				
subChannel		SubChannelNumber	Valid only for logical channel types: TCH/H, FACCH/H, SACCH/TH, SDCCH/8, SACCH/C8, SDCCH/4, and SACCH/C4. For TCH/H, FACCH/H and SACCH/TH value is (01); for SDCCH/8 and SACCH/C8 value is (07); for SDCCH/4 and SACCH/C4 value is (03).			
releaseMode		BITSTRING[1]	0 = normal release; 1 = local end release			
outstanding_Indicator		whether or not there are outstanding acknowledgements or unsolved G_L2_DATA_REQ primitives.				
Detailed Cor	nments					

ASP Name	G_L2_SYSINFO_REQ			
PCO Type	G_DSAP			
Comments	The ASP is used to send system information messages to the lower layer emulator.			
Parame	eter Name	Parameter Type	Comments	
cellld		CellId		
sAPI		SAPI	0	
physicalChld		PhysicalChId		
g_LogicChType		G_LogicChType	BCCH or SACCH	
instanceIndex		INTEGER	To indicate the instance of the system information messages. For SYSTEM INFORMATION Type 2ter, 18, 19, 20 the value is (07); for type 14, 15 the value is (03); for type 2quater the value is (015); for all other type the value is 0.	
sysInfoType		SysInfoType	SYSTEM INFORMATION Type 5, 5bis, 5ter, and 6 are sent on SACCH, the other SYSTEM INFORMATION 's are sent on BCCH.	
BCCHExt		B1	'0' indicates message sent on BCCH Norm, '1' indicates message sent on BCCH Ext. Only valid for SI 2quater, 7, 8, 13, 15, 16, 17. Default value '0'	
msg		PDU	This field contains SYSTEM INFORMATION message. See 3GPP TS 44.018 [43] clause 9.1.31 to clause 9.1.43h for SYSTEM INFORMATION message definitions.	
Detailed Com	The lower layer emulator shall store the SYSTEM INFORMATION's, and transmit them periodically according to the rules specified in clause 6.3.1.3 of 3GPP TS 05.02 or 3GPP TS 45.002 [31]. The msg shall override the same type system information message previous stored in the lower layer emulator.			

Type Name	SysInfoType	
Type Definition	INTEGER	
Type Encoding		
Comments	25SYSTEM INFORMATION TYPE 1 26SYSTEM INFORMATION TYPE 2 2 SYSTEM INFORMATION TYPE 2bis 3 SYSTEM INFORMATION TYPE 2ter 7 SYSTEM INFORMATION TYPE 2quater 27SYSTEM INFORMATION TYPE 3 28SYSTEM INFORMATION TYPE 4 29SYSTEM INFORMATION TYPE 5 5 SYSTEM INFORMATION TYPE 5bis 6 SYSTEM INFORMATION TYPE 5ter 30SYSTEM INFORMATION TYPE 6 31SYSTEM INFORMATION TYPE 7 24SYSTEM INFORMATION TYPE 8 4 SYSTEM INFORMATION TYPE 9	
	62SYSTEM INFORMATION TYPE 17 64SYSTEM INFORMATION TYPE 18 65SYSTEM INFORMATION TYPE 19 66SYSTEM INFORMATION TYPE 20 67—SYSTEM INFORMATION TYPE 15	

7.3.4.3.1.2 ASPs for data transmission and reception through GERAN RLC

ASP Name G_RLC_PSI_R	G_RLC_PSI_REQ				
PCO Type G_DSAP	G_DSAP				
Comments The ASP is use	The ASP is used to send packet system information messages to the lower layer emulator.				
Parameter Name	Parameter Type	Comments			
cellId	CellId				
physicalChld	PhysicalChId				
g_LogicChType	G_LogicChType	PBCCH or PACCH or PCCCH			
packetSysInfoCategory	PSI_Category	PSI1 or high repetition rate or low repetition rate. Type of this field is INTEGER: 0 PSI1; 1high repetition category; 2low repetition category.			
positionInList	PositionInList	Position in the high repetition rate list or the low repetition rate list, for PSI1 this field is not applicable and set to 31. Type of this field is INTEGER, the order of the position is from 0, 1, 0 indicates the first position, 1 the second, and so on.			
msg	PDU	This field contains PACKET SYSTEM INFORMATION message, see 3GPP TS 04.60 or 3GPP TS 44.060 [32] clauses 11.2.18 to 11.2.25 for the message definitions			
Detailed Comments and 3GF syst Mul	On PBCCH, the lower layer emulator shall store the PACKET SYSTEM INFORMATIO and transmit them periodically according to the rules specified in clause 6.3.2.4 of 3GPP TS 05.02 or 3GPP TS 45.002 [31]. The msg shall override the same type packer system information message previous stored in the lower layer. Multiple instances of a PSI shall be put in the same list and in ascending order of the message instance number				

Type Name	PSI_Category
Type Definition	INTEGER
Type Encoding	
Comments	3GPP TS 05.02 or 3GPP TS 45.002 [31] clause 6.3.2.4

Type Name	PositionInList
Type Definition	INTEGER
Type Encoding	
Comments	0 is the first position; 1 is the second, and so on.

ASP Name	G_RLC_ControlMsg_REQ			
PCO Type	G DSAP			
Comments	The ASP is used to transmit a RLC/MAC control message to the UE/MS on the specified channel.			
Param	eter Name	Parameter Type	Comments	
cellId		CellId		
physicalChld		PhysicalChId		
g_LogicChType		G_LogicChType	PCCCH or PACCH or PTCCH	
tBF_Direction		INTEGER	1-downlink TBF; 0-uplink TBF	
tFI		TFI	Temporary flow identity	
rRBP		RRBP	Relative reserved block period	
s_P_Bit		S_P_Bit	Supplementary/polling bit	
rfn		RFN	The reduced frame number of the first frame on which this message is sent. This field is not applicable and the SS shall ignore it if the field t2 of rfn is coded as '11111'B.	
pagingGroup		PAGING_GROUP	for message other than PACKET PAGING REQUEST this field shall be omitted	
pagingMode		PagingMode	0 normal paging; 1 extended paging; 3 paging reorganization. this field is valid only for PACKET PAGING REQUEST control message, for message other than PACKET PAGING REQUEST this field shall be omitted	
msg		PDU	Down link RLC/MAC control message	
Detailed Con	controllin MAC hea If a RLC/MAI correct "I nments PTCCH i PACKET The requ pagingGi The inde Paging b	This ASP provides values for "RRBP" and "S/P" fields in MAC header for TTCN controlling the response from the UE, the value for "PayloadType" and "USF" fields in MAC header shall be filled by the SS. If a RLC/MAC control message can not be fitted into one RLC/MAC control block, the SS RLC/MAC entity shall take the responsibility of segmentation of the message, and set the correct "PayloadType" and optional octet1 (and optional octet2). PTCCH is valid for PACKET TIMING ADVANCE/POWER CONTROL message if sending PACKET PAGING REQUEST. The required 52-multiframe occurs when: DagingGroup div (M div 64) = (FN div 52) mod 64 The index to the required paging block in the 51-multiframe determined above: Paging block index = pagingGroup mod (M div 64) M = (12 - BS_PAG_BLKS_RES - BS_PBCCH_BLKS) × 64		

Type Name	RRBP
Type Definition	BITSTRING[2]
Type Encoding	
Comments	3GPP TS 04.60 or 3GPP TS 44.060 [32] clause 10.4.5

Type Name	S_P_Bit
Type Definition	BITSTRING[1]
Type Encoding	
Comments	0 - RRBP field is not valid; 1 - RRBP field is valid.

ASP Name	G_RLC_ControlMsg_IND				
PCO Type	G_DSAP				
Comments	The ASP is used to receive an uplink RLC/MAC control block sent by the UE/MS on the specified channel.				
Parame	eter Name		Parameter Type	Comments	
cellid			CellId		
physicalChld			PhysicalChId		
g_LogicChType			G_LogicChType	PACCH or PDTCH	
tBF_Direction			INTEGER	1 - downlink TBF; 0 - uplink TBF	
tFI			TFI	Temporary flow identity	
rfn			RFN	The reduced frame number of the frame carrying the message	
msg	msg		PDU	Uplink RLC/MAC control message	
Detailed Com	Logical channel type PDTCH is valid for PACKET ENHANCED MEARSUREMENT REPORT message only. The ASP is not used to receive PACKET CHANNEL REQUEST, EGPRS PACKET CHANNEL REQUEST and burst format of PACKET CONTROL ACKNOWLEDGEMENT which are received by G_RLC_ACCESS_IND.				

ASP Name	G_RLC_ACCESS_IND			
PCO Type	G DSAP			
Comments	The ASP is used	to receive an access burst s	sent by the UE/MS on the specified channel.	
Parame	eter Name	Parameter Type	Comments	
cellId		CellId		
physicalChId		PhysicalChld		
g_LogicChType		G_LogicChType	PRACH or PACCH or PTCCH	
rfn		RFN	The reduced frame number of the frame carrying the burst	
retryBit		BITSTRING[1]	For access bursts on PRACH, RACH. For PACCH, this field is no meaning	
		PDU	8-bit or 11-bit access burst	
Detailed Comments PACKET CHANNEL REQUEST, EGPRS PACKET CHANNEL REC				

7.3.4.3.1.3 ASPs for data transmission and reception through GERAN LLC

ASP Name	G_LLC_UNITDATA_REQ				
PCO Type	G_DSAP				
Comments	The ASP is used to send L3 PDU to the UE/MS in LLC unconfirmed transmission.				
Parar	neter Name	Parameter Type	Comments		
ILMEId		LLMEId			
tLLI		TLLI			
sAPI		SAPI			
protectMode		BITSTRING[1]	0 unprotected; 1 protected		
cipherMode		BITSTRING[1]	0 -sent without encryption; 1 -sent with encryption		
msg		PDU	L3 PDU		
Detailed Co	After the	6 04.64 or 3GPP TS 44.064 [33] clause 8.4.1 ciphering function is started in the SS by G_CLLC_Assign_REQ, the SS shall ne "msg" when cipherMode = '1', and the SS shall not encrypt the "msg" if de = '0'.			

Type Name	LLMEId
Type Definition	INTEGER
Type Encoding	
Comments	The identifier of the Logical Link Management Entity in SGSN

ASP Name	G_LLC_UNITDATA_IND			
PCO Type	G_DSAP	G_DSAP		
Comments	The ASP is use	The ASP is used to receive a L3 PDU from the UE/MS in LLC unconfirmed transmission.		
Para	ameter Name		Parameter Type	Comments
ILMEId			LLMEId	
tLLI	LI		TLLI	
sAPI			SAPI	
msg			PDU	L3 PDU
Detailed C	Detailed Comments 3GPP TS 04.64 or 3GPP TS 44.064 [33] clause 8.4.2			4.2

ASP Name	G_LLC_XID_RES		
PCO Type	G_DSAP		
Comments	The ASP is used to send	to the UE/MS the negotiated XID param	eters agreed by the SS.
Para	ameter Name	Parameter Type	Comments
ILMEId		LLMEId	
tLLI		TLLI	
sAPI		SAPI	
xID_Info		XID_Info	the negotiated XID parameters agreed by the SS
Detailed C	Comments		

Type Name	XID_Info
Type Definition	OCTETSTRING
Type Encoding	
Comments	Exchange Identification Information

ASP Name	G_LLC_XID_IND			
PCO Type	G_DSAP	G_DSAP		
Comments	The ASP is used to recei	ve the XID requested by the UE/MS.		
Para	ameter Name	Parameter Type	Comments	
ILMEId		LLMEId		
tLLI		TLLI		
sAPI		SAPI		
xID_Info		XID_Info	the XID parameters requested by the UE/MS	
Detailed C	Comments			

7.3.4.3.1.4 ASPs for data transmission and reception through GERAN SNDCP

ASP Name	G_SN_DATA	G_SN_DATA_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 acknowledged transmission.		
Paran	Parameter Name Parameter Type Comments		Comments	
sNDCPId	OCPId		SNDCPId	
nSAPI			NSAPI	5 to 15
n_PDU_Number			OCTETSTRING[1]	
n_PDU			N_PDU	Valid IPv4 or IPv6 datagram
Detailed Comments Acknowle		Acknowle	dged transmission mode	

ASP Name	G_SN_DATA_IND		
PCO Type	G_DSAP		
Comments	The ASP is used to receive an IP datagram on the specified NASPI from the UE/MS in acknowledged transmission mode.		
Par	ameter Name	Parameter Type	Comments
sNDCPId		SNDCPId	
nSAPI		NSAPI	5 to 15
n_PDU		N_PDU	IPv4 or IPv6 datagram
Detailed Comments Acknowledged transmission mode			

ASP Name	G_SN_UNIDA	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.				
Parameter Name			Parameter Type	Comments	
sNDCPId			SNDCPId		
nSAPI			NSAPI	5 to 15	
n_PDU			N_PDU	Valid IPv4 or IPv6 datagram	
Detailed Comments Unacknowledged transmission mode					

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

ASP Name	G_SN_XID_REQ			
PCO Type	G_DSAP	G_DSAP		
Comments	The ASP is used to se	The ASP is used to send the requested XID parameters to the UE/MS.		
Parameter Name		Parameter Type	Comments	
sNDCPId		SNDCPId		
xID_Info		XID_Info	XID parameters requested	
Detailed Co	mments			

ASP Name	G_SN_XID_IND			
	G_DSAP	G DSAP		
Comments	The ASP is used to re	The ASP is used to receive the XID parameters requested by the UE/MS.		
Parameter Name		Parameter Type	Comments	
sNDCPId		SNDCPId		
xID_Info		XID_Info	XID parameters requested by the UE/MS	

ASP Name	G_SN_XID_CNF			
PCO Type	G_DSAP	G_DSAP		
Comments	The ASP is used to re	The ASP is used to receive the negotiated XID parameters agreed by the UE/MS.		
Parameter Name		Parameter Type	Comments	
sNDCPId		SNDCPId		
xID_Info			The negotiated XID parameters agreed by the UE/MS	
Detailed Co	mments			

ASP Name	G_SN_XID_RES				
PCO Type	G_DSAP				
Comments	The ASP sends to the UI	The ASP sends to the UE/MS the negotiated XID parameters agreed by the SS.			
Para	rameter Name Parameter Type Comments				
sNDCPId		SNDCPId			
xID_Info	XID_Info The negotiated XID parameter by the SS				
Detailed C	Comments				

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

7.3.4.3.1.5 ASPs for data transmission and reception through GERAN DTM

ASP Name G_L2_GTTI	G_L2_GTTP_REQ				
PCO Type G_DSAP	G_DSAP				
Comments The ASP is	used for DTM to send an LLC si	ignalling message on the DCCH in acknowledged mode.			
Parameter Name	Parameter Type	Comments			
cellId	CellId				
SAPI	SAPI				
physicalChld	PhysicalChId	Channel identifier			
g_LogicChType	G_LogicChType				
subChannel	SubChannelNumber	Valid only for logical channel types: TCH/H, FACCH/H, SACCH/TH, SDCCH/8, SACCH/C8, SDCCH/4, and SACCH/C4. For TCH/H, FACCH/H and SACCH/CH/C4 value is (01); For SDCCH/8 and SACCH/C8 value is (07); for SDCCH/4 and SACCH/C4 value is (03). This field is not applicable and the SS shall ignore it if this field is coded as 15.			
protectMode	BITSTRING[1]	0 unprotected; 1 protected			
cipherMode	BITSTRING[1]	0 - sent without encryption; 1 - sent with encryption			
skipIndicator	B4	GTTP header, unciphered			
GTTPProtocolDiscriminator	B4	GTTP header, unciphered			
msgType	B8	GTTP header, unciphered			
TLLI	TLLI	GTTP header, unciphered			
gmmSmPDULength	Length	GTTP header, unciphered			
gmmSmPDU	PDU	GMM or SM PDU - ciphered			
Detailed Comments	Ciphering must be started in the SS by G_CLLC_Assign_REQ, and also by either G_CL1_CipheringControl_REQ, G_CL1_CipherModeModify_REQ, or G_CL1_CreateBasicPhyCh_REQ. When cipherMode = '1' the SS shall encrypt the "LLCPDU', using the algorithm specified in px_GPRS_CipherAlg, and then encrypt the whole outgoing message using the algorithm specified in px_GSM_CipherAlg. The SS shall not encrypt the message at all if cipherMode = '0'.				

ASP Name G L2 GTTP IND	G L2 GTTP IND					
	G DSAP					
	The ASP is used for DTM to receive an LLC signalling message on DCCH acknowledged mode.					
Parameter Name	Parameter Type	Comments				
cellid	CellId					
SAPI	SAPI					
physicalChld	PhysicalChId	Channel identifier				
g_LogicChType	G_LogicChType					
subChannel	SubChannelNumber	Valid only for logical channel types: TCH/H, FACCH/H, SACCH/TH, SDCCH/8, SACCH/C8, SDCCH/4, and SACCH/C4. For TCH/H, FACCH/H and SACCH/TH value is (01); For SDCCH/8 and SACCH/C8 value is (07); for SDCCH/4 and SACCH/C4 value is (03). This field is not applicable and the SS shall ignore it if this field is coded as 15.				
rfn	RFN	The reduced frame number of the first frame carrying the message				
TLLI	TLLI					
gmmSmPDU	PDU	Deciphered GMM or SM signalling message received				
Detailed Comments If cipheri	ng is used, the SS will take c	are to ensure the 'LLC PDU' is deciphered				

7.3.4.3.2 ASPs for control primitive transmission and reception in GERAN

7.3.4.3.2.1 ASPs for configuration and control of GERAN L1

ASP Name	G_CL1_Crea	G_CL1_CreateCell_REQ				
PCO Type	G_CSAP	G_CSAP				
Comments	The ASP is u	The ASP is used to create a cell in GERAN				
Parameter Name Parameter Name			Parameter Type	Comments		
cellId			CellId			
baseld			BITSTRING[6]	base transceiver station identity code = NCC+BCC. see 3GPP TS 23.003 [6]		
timingAdvance			BITSTRING[8]	The SS sets the timing of uplink direction in advance of downlink direction timing by this value.		
Detailed Co	mments					

ASP Name	G_CL1_CreateCell_CNF				
PCO Type	G_CSAP				
Comments	The ASP is used to get the confirmation of a G_CL1_CreateCell_REQ				
	Parameter Name Parameter Type Comments				
Paran	neter Name	Parameter Type	Comments		
cellid	neter Name	CellId Parameter Type	Comments The cell created		

ASP Name	G_CL1_DeleteCell_REQ				
PCO Type	G_CSAP	G_CSAP			
Comments	The ASP is used to delete a cell in GERAN				
Paran	neter Name	Parameter Type	Comments		
Paran cellid	neter Name	Parameter Type Cellid	Comments The cell to be deleted		

ASP Name	G_CL1_DeleteCell_CNF				
PCO Type	G_CSAP	G_CSAP			
Comments	The ASP is us	The ASP is used to get the confirmation of a G_CL1_DeleteCell_REQ			
Parameter Name Parameter Type Comments					Comments
	Cellid The cell deleted				
cellld			CellId		The cell deleted

ASP Name	G CL1 Cre	ateBasicPhyCh_REQ				
PCO Type	G CSAP					
Comments	The ASP is used to create a basic physical channel in GERAN					
Parameter	Name	Parameter Type	Comments			
cellld		CellId	The cell which the channel to be created belongs to			
physicalChld		PhysicalChId	identifier of the physical channel in the SS.			
channelCombina	ition	ChannelCombination	Logical channels combined onto the basic physical channel.			
frqInfo		FrqInfo	Parameters for Description of the physical channel in frequency domain			
timeSlot		TN	The timeslot number of the physical channel			
tsc		TSC	Training sequence code. For common control and broadcast channels the value of tsc must be equal to BCC (base station colour code)			
channelSpecificI	nfo	ChannelSpecificInfo	Specific parameters related to individual channel			
txPower		TX_Power	The transmission power level in dBµVemf()			
bandIndicator		BITSTRING[1]	Parameter for DCS or PCS frequency band selection. A value 0 for frqInfo.arfcn interpreted as DCS1800. A value 1 for frqInfo.arfcn interpreted as PCS1900. If omitted, the value in frqInfo.arfcn interpreted as DCS1800.			
Detailed Comments		4 FCCH + SCH + BCCH +	ACCH/TF (0,1) + SACCH/TH(0,1) (0,1) + SACCH/TH(0,1) + TCH/H(1,1) - CCCH - CCCH + SDCCH/4(03) + SACCH/C4(03) H/C8(0 7) ACCH/M CH/F+PACCH/F+PTCCH/F CCH/F+PTCCH/F TCCH/F + E-FACCH/F + SACCH/M + SACCH/M			

ASP Name	G_CL1_CreateBasicPhyCh_CNF				
PCO Type	G_CSAP	G_CSAP			
Comments	The ASP is us	The ASP is used to get the confirmation of a G_CL1_CreateBasicPhyCh_REQ			
Parameter Name			Parameter Type	Comments	
cellid		CellId	The cell which the created channel belongs to		
physicalChId		PhysicalChId	The physical channel created.		
Detailed Co	mments				

Type Name	FrqInfo			
Encoding Variation				
Comments	Parameters for Description of basic physical channel in frequency domain.			
Element Name	Type Definition	Field Encoding	Comments	
h	BITSTRING[1]		h=1:hopping channel h=0: non-hopping channel	
spr	BITSTRING [3]		'000'B	
spr1	BITSTRING [2]		'00'B if h = 0, otherwise OMIT	
maio	BITSTRING [6]		mobile allocation index offset if h = 1, otherwise OMIT	
hsn	BITSTRING [6]		hopping sequence number if h = 1, otherwise OMIT	
arfcn	BITSTRING [10]		absolute RF channel number if h = 0, otherwise OMIT	
hoppingFreqList	FrequencyList		hopping frequency list if h = 1, otherwise OMIT. The definition see 3GPP TS 44.018 [43] or 3GPP TS 04.18, clause 10.5.2.13	
Detailed Comments				

Type Name	ChannelSpecificInfo				
Encoding Variation					
Comments	Parameters for individual channel				
Element Name	Type Definition	Field Encoding	Comments		
dedCH_Info	DedCH_Info		Parameters for dedicated channel. Valid for combination:1, 2, 3, 5, 7, 8, 9, 10 This field is omitted if DedCH_Info does not apply for the channelCombination		
cCCH_Info	CCCH_Info		Parameters for common control channels: PCH, SCH, etc. Valid for combination: 4, 5, 6 This field is omitted if CCCH_Info does not apply for the channelCombination		
pCCCH_Info	PCCCH_Info		Parameters for packet common control channels: PCCCH, PPCH, Valid for combination: 11, 12 This field is omitted if PCCCH_Info does not apply for the channelCombination		
pBCCH_Info	PBCCH_Info		Parameters for packet broadcast channels: PBCCH Valid for combination: 11 This field is omitted if PBCCH_Info does not apply for the channelCombination		
Detailed Comments					

Type Name	DedCH_Info		
Encoding Variation			
Comments	Parameters for dedic	ated channel	
Element Name	Type Definition	Field Encoding	Comments
chMod	ChMode		Definition see 3GPP TS 04.18 or 3GPP TS 44.018 [43] clause 10.5.2.6
cipherMode	CipherModeSetting		Definition see 3GPP TS 04.18 or 3GPP TS 44.018 [43] clause 10.5.2.9
cipherKey	BITSTRING[64]		
powerLevel	BITSTRING[5]		Initial MS uplink transmission power level. This value is used in the L1 header of SACCH.
timingAdvance	BITSTRING[8]		Initial timing advance. This value is used in the L1 header of SACCH. This field shall be set to the same value as in timingAdvance of G_CL1_CreateCell_REQ.
Detailed Comments	In addition to ciphering algorithm the cipherMode specifies the initial ciphering mode of the physical channel in both transmission and receiving direction by startingCiph bit. During ciphering mode setting procedure the ciphering mode of receiving direction can be changed by G_CL1_CipheringControl_REQ.		

Type Name	CCCH_Info	CCCH_Info			
Encoding Variation					
Comments	Parameters for co	mmon control char	nnels		
Element Name	Type Definition	Field Encoding	Comments		
bS_PA_MFRMS	BITSTRING[3]		the number of 51-multiframes between transmissions of paging messages. Definition see 3GPP TS 04.18 or 3GPP TS 44.018 [43] clause 10.5.2.11		
bS_AG_BLKS_RES	BITSTRING[3]		the number of blocks on each common control channel reserved for access grant messages. Definition see 3GPP TS 04.18 or 3GPP TS 44.018 [43] clause 10.5.2.11		
Detailed Comments					

Type Name	PCCCH_Info		
Encoding Variation			
Comments	Parameters for packet co	ommon control channe	ls
Element Name	Type Definition	Field Encoding	Comments
bS PBCCH BLKS	BITSTRING[2]		3GPP TS 04.60 or 3GPP TS 44.060 [32]
DS_FBCCH_BERS			clause 12.25
bS_PAG_BLKS_RES	BITSTRING[4]		3GPP TS 04.60 or 3GPP TS 44.060 [32]
DO_I AG_DENO_NEO	B11311(1149[4]		clause 12.25
bS PRACH BLKS BITS	DITCTDINICIAL		3GPP TS 04.60 or 3GPP TS 44.060 [32]
DO_FRACII_BLKS	BITSTRING[4]		clause 12.25
Detailed Comments			

Type Name	PBCCH_Info				
Encoding Variation					
Comments	Parameters for pac	Parameters for packet broadcast channel			
Element Name	Type Definition	Field Encoding	Comments		
pSI1_REPEAT_PERIOD	BITSTRING[4]		The repeat period of packet system information Type 1. See 3GPP TS 04.60 or 3GPP TS 44.060 [32] clause 11.2.18		
pSI_COUNT_HR	BITSTRING[4]		The number of PSI message instances sent with high repetition rate. See 3GPP TS 04.60 or 3GPP TS 44.060 [32] clause 11.2.18		
pSI_COUNT_LR	BITSTRING[6]		The number of PSI message instances sent with low repetition rate. See 3GPP TS 04.60 or 3GPP TS 44.060 [32] clause 11.2.18		
Detailed Comments					

ASP Name	G_CL1_Cr	G_CL1_CreateMultiSlotConfig_REQ				
PCO Type	G_CSAP	G_CSAP				
Comments	The ASP is	s used to create a mu	lti-slot configuration in GERAN and should be preceded with			
Comments	G_CL1_Cr	eateBasicPhyCh_RE	Q in order to create a basic physical channel with single timeslot.			
Parameter Name Parameter Type		Parameter Type	Comments			
cellld		CellId	The cell which the configuration to be created belongs to			
mainChannel PhysicalChId ide			identifier of the main physical channel of this multi-slot configuration.			
multiSlotAllocatio	iSlotAllocation MultiSlotAllocation The timeslot allocation of the configuration					
This ASP is to add a multi-slot conf			multi-slot configuration to the physical channel created in			
Detailed Comments		G_CL1_CreateBasic	PhyCh_REQ ASP. For multi-slot configuration refer 3GPP TS 05.02 or			
		3GPP TS 45.002 [31] clause 6.4.2.			

ASP Name	G_CL1_Cr	G_CL1_CreateMultiSlotConfig_CNF				
PCO Type	G_CSAP	G_CSAP				
Comments	The ASP is	The ASP is used to get the confirmation of a G_CL1_CreateMultiSlotConfig_REQ				
Parameter Name Parameter Type		Parameter Type	Comments			
cellld		CellId	The cell which the created multi-slot configuration belongs to.			
physicalChld PhysicalChld Ti		PhysicalChId	The main physical channel identifier.			
Detailed Con	nments					

Type Name	MultiSlotAllocation					
Encoding Variation						
Comments	Used in multi-slot config	Used in multi-slot configuration				
Element Name	Type Definition	Field Encoding	Comments			
tNO	BOOLEAN		TRUE - time slot 0 is allocated; FALSE not allocated			
channelCombination0	ChannelCombination		Channel combination for time slot 0; not applicable if tN0 = FALSE			
tN1	BOOLEAN		TRUE - time slot 1 is allocated; FALSE not allocated			
channelCombination 1	ChannelCombination		Channel Combination for time slot 1; not applicable if tN1 = FALSE			
tN2	BOOLEAN		TRUE - time slot 2 is allocated; FALSE not allocated			
channelCombination 2	ChannelCombination		Channel Combination for time slot 2; not applicable if tN2 = FALSE			
tN3	BOOLEAN		TRUE - time slot 3 is allocated; FALSE not allocated			
channelCombination 3	ChannelCombination		Channel Combination for time slot 3; not applicable if tN3 = FALSE			
tN4	BOOLEAN		TRUE - time slot 4 is allocated; FALSE not allocated			
channelCombination 4	ChannelCombination		Channel Combination for time slot 4; not applicable if tN4 = FALSE			
tN5	BOOLEAN		TRUE - time slot 5 is allocated; FALSE not allocated			
channelCombination 5	ChannelCombination		Channel Combination for time slot 5; not applicable if tN5 = FALSE			
tN6	BOOLEAN		TRUE - time slot 6 is allocated; FALSE not allocated			
channelCombination 6	ChannelCombination		Channel Combination for time slot 6; not applicable if tN6 = FALSE			
tN7	BOOLEAN		TRUE - time slot 7 is allocated; FALSE not allocated			
channelCombination 7	ChannelCombination		Channel Combination for time slot 7; not applicable if tN7 = FALSE			
Detailed Comments			TS 05.02 or 3GPP TS 45.002 [31] clause 6.4.2. The Ch_REQ has set the channel combination shall be			

ASP Name	G. CL1. CiphoringControl PEO						
		G_CL1_CipheringControl_REQ					
PCO Type	G_CS/						
0		SP is used to set the ciphering mode of the physic					
Comments		ng algorithm was set by the G_CL1_CreateBasid the ASP.	cPhyCh_REQ for the physical channel before				
Parameter Na		Parameter Type	Comments				
cellld		CellId					
physicalChld		PhysicalChId	Channel identifier				
			Ciphering Mode in SS receiving direction:				
rcvCipherMode		BITSTRING[1]	0→ not ciphered				
			1→ ciphered				
		For GSM dedicated physical channel, the ciphe	ering mode of the SS shall be changed in three				
		steps: (3GPP TS 44.018 [43], clause 3.4.7)					
		Before the SS sending CIPHERING MODE COMMAND the SS is transmitting and receiving in					
		old ciphering mode (for example, not ciphered), after the SS sending CIPHERING MODE					
		COMMAND the SS changes its receiving ciphering mode to new ciphering mode (for example,					
Detailed Comm	nents	ciphered) and keeps transmitting in old ciphering mode; then after receiving CIPHERING					
		MODE COMPLETE or any correct L2 frame in new ciphering mode the SS changes the					
		transmitting ciphering mode to the new mode.					
		TTCN writer shall use this ASP before sending the CIPHERING MODE COMMAND to ensure					
		the ciphering mode of the physical channel, in sufficient time, according to the 3 step procedure					
		outlined above.					

ASP Name	G_CL1_CipheringControl_CNF				
PCO Type	G_CSAP	G_CSAP			
Comments	The ASP is used t	0 001	nfirm that the G_CL1_CipheringControl_I	REQ is executed correctly.	
Parameter Name			Parameter Type	Comments	
cellId			CellId		
physicalChld			PhysicalChId	Channel identifier	
Detailed Co	mments				

A OD N	0.014.0	· FN DEO				
ASP Name	G_CL1_CC	G_CL1_ComingFN_REQ				
PCO Type	G_CSAP	G_CSAP				
Comments	The ASP is used to request lower layer return the reduced frame number (FN modulo 42432) which is far enough in the future from current frame number and is able to carry L3 message on the specified channel. The requirement of "far enough" is that there is enough time left for TTCN to prepare a L3 message to send before that frame. The ASP could also be used in the calculation of a value for starting time					
Parameter	Name	Parameter Type	Comments			
cellld		CellId				
physicalChld		PhysicalChld	Channel identifier			
g_LogicChType		G_LogicChType				
subChannel	Valid only for logical channel types: TCH/H, FACCH/H, SACCH/SDCCH/8, SACCH/C8, SDCCH/4, and SACCH/C4. For TCH/H, FACCH/H and SACCH/TH value is (01); For SDCCH/8 and SACCH/C8 value is (07); for SDCCH/4 and SACCH/C4 value is (03).		SACCH/C8 value is (07); for SDCCH/4 and SACCH/C4 value is (03). This field is not applicable and the SS shall ignore it if this field is			
Detailed Con	nments					

ASP Name	G_CL1	ComingFN_CNF	ComingFN_CNF				
PCO Type	G_CSA						
Comments	The AS	P is used to receive th	e result of G_CL1_ComingFN_REQ.				
Parameter Na	ıme	Parameter Type	Comments				
cellId		CellId					
physicalChld		PhysicalChId	Channel identifier				
g_LogicChType		G_LogicChType					
subChannel		SubChannelNumber	Valid only for logical channel types: TCH/H, FACCH/H, SACCH/TH, SDCCH/8, SACCH/C8, SDCCH/4, and SACCH/C4. For TCH/H, FACCH/H and SACCH/TH value is (01); For SDCCH/8 and SACCH/C8 value is (07); for SDCCH/4 and SACCH/C4 value is (03). This field is not applicable and the SS shall ignore it if this field is coded as 15.				
rfn		RFN	the reduced frame number (FN modulo 42432) which is about 2 seconds later than current frame number and is able to carry L3 message on the channel specified by "physicalChId"+"G_LogicChType"+"subChannel"				
Detailed Comm	nents		· · · · · · · · · · · · · · · · · · ·				

ASP Name	G_CL1_L1	G_CL1_L1Header_REQ				
PCO Type	G_CSAP	G_CSAP				
Comments	The ASP is	s used to request lower	layer return the L1 header of SACCH.			
Parameter I	Name	Parameter Type	Comments			
cellld		CellId				
physicalChId		PhysicalChId	Channel identifier			
g_LogicChType		G_LogicChType	SACCH			
subChannel		SubChannelNumber	Valid only for logical channel types: SACCH/TH, SACCH/C8, and SACCH/C4 This field is not applicable and the SS shall ignore it if this field is coded as 15.			
Detailed Con	nments					

ASP Name	G_CL1_L1	G_CL1_L1Header_CNF		
PCO Type	G_CSAP	G CSAP		
Comments	The ASP is	s used to receive the re	sult of G_CL1_L1Header_REQ.	
Parameter I	Name	Parameter Type	Comments	
cellld		CellId		
physicalChld		PhysicalChld	Channel identifier	
g_LogicChType	g_LogicChType		SACCH	
subChannel		SubChannelNumber	Valid only for logical channel types: SACCH/TH, SACCH/C8, and SACCH/C4 This field is not applicable and the SS shall ignore it if this field is coded as 15.	
I1Header		L1HD	Power level and timing advance	
Detailed Con	nments			

ASP Name	G_CL1_De	G_CL1_DeleteChannel_REQ			
PCO Type	G_CSAP	G_CSAP			
Comments	The ASP is	The ASP is used to delete a basic physical channel or an multi-slot configuration			
Parameter Name		Parameter Type	Comments		
cellid		CellId	The identifier of the cell which the channel to be deleted belongs to		
physicalChId P		PhysicalChld	The physical channel or the multi-slot configuration to be deleted.		
Detailed Con	nments				

ASP Name	G_CL1_De	G_CL1_DeleteChannel_CNF		
PCO Type	G_CSAP	G_CSAP		
Comments	The ASP is	The ASP is used to get the confirmation of a G_CL1_DeleteChannel_REQ		
Parameter Name		Parameter Type	Comments	
cellId		CellId	The identifier of the cell which the deleted channel belongs to	
physicalChld		PhysicalChld	The physical channel or multi-slot configuration deleted.	
Detailed Comments				

ASP Name	G_CL1_0	G_CL1_ChModeModify_REQ		
PCO Type	G_CSAP			
Comments	The ASP	is used to modify the ch	nannel mode of a dedicated channel	
Parameter N	lame	Parameter Type	Comments	
cellld		CellId	The identifier of the cell	
physicalChId		PhysicalChId	Channel identifier	
g_LogicChType		G_LogicChType		
subChannel		SubChannelNumber	Valid only for logical channel types: TCH/H, FACCH/H, SACCH/TH, SDCCH/8, SACCH/C8, SDCCH/4, and SACCH/C4. For TCH/H, FACCH/H and SACCH/TH value is (01); For SDCCH/8 and SACCH/C8 value is (07); for SDCCH/4 and SACCH/C4 value is (03). This field is not applicable and the SS shall ignore it if this field is coded as 15.	
chMode		ChMode	Definition see 3GPP TS 04.18 or 3GPP TS 44.018 [43] clause 10.5.2.1b	
Detailed Com	ments			

ASP Name G_C	G_CL1_ChModeModify_CNF		
PCO Type G_C	G_CSAP		
Comments The	ASP is used to get the conf	firmation of a G_CL1_ChModeModify_REQ	
Parameter Name	Parameter Type	Comments	
cellId	CellId	The identifier of the cell	
physicalChld	PhysicalChId	Channel identifier	
g_LogicChType	G_LogicChType		
subChannel	SubChannelNumber	Valid only for logical channel types: TCH/H, FACCH/H, SACCH/TH, SDCCH/8, SACCH/C8, SDCCH/4, and SACCH/C4. For TCH/H, FACCH/H and SACCH/TH value is (01); For SDCCH/8 and SACCH/C8 value is (07); for SDCCH/4 and SACCH/C4 value is (03). This field is not applicable and the SS shall ignore it if this field is coded as 15.	
Detailed Comment	S		

ASP Name	G_CL1_S	G_CL1_SetNewKey_REQ		
PCO Type	G_CSAP	G_CSAP		
Comments	The ASP	is used to set new cip	her key for a dedicated channel	
Parameter N	lame	Parameter Type	Comments	
cellId		CellId	The identifier of the cell	
physicalChId		PhysicalChId	The channel which uses the new key	
g_LogicChType		G_LogicChType		
subChannel		SubChannelNumber	Valid only for logical channel types: TCH/H, FACCH/H, SACCH/TH, SDCCH/8, SACCH/C8, SDCCH/4, and SACCH/C4. For TCH/H, FACCH/H and SACCH/TH value is (01); For SDCCH/8 and SACCH/C8 value is (07); for SDCCH/4 and SACCH/C4 value is (03). This field is not applicable and the SS shall ignore it if this field is coded as 15.	
cipherKey		BITSTRING[64]		
Detailed Com	ments			

ASP Name G_C	G_CL1_SetNewKey_CNF		
PCO Type G_C	G_CSAP		
Comments The	ASP is used to get the confir	rmation of a G_CL1_SetNewKey_REQ	
Parameter Name	Parameter Type	Comments	
cellld	CellId	The identifier of the cell	
physicalChld	PhysicalChId	Channel identifier	
g_LogicChType	G_LogicChType		
subChannel	SubChannelNumber	Valid only for logical channel types: TCH/H, FACCH/H, SACCH/TH, SDCCH/8, SACCH/C8, SDCCH/4, and SACCH/C4. For TCH/H, FACCH/H and SACCH/TH value is (01); For SDCCH/8 and SACCH/C8 value is (07); for SDCCH/4 and SACCH/C4 value is (03). This field is not applicable and the SS shall ignore it if this field is coded as 15.	
Detailed Comment	s		

ASP Name	G_CL1_CipherModeModify_REQ		
PCO Type	G_CSAP		
Comments	The AS	P is used to modify cip	her mode of a dedicated channel
Parameter Na	me	Parameter Type	Comments
cellId		CellId	The identifier of the cell
physicalChld		PhysicalChId	Channel identifier
g_LogicChType		G_LogicChType	
subChannel		SubChannelNumber	Valid only for logical channel types: TCH/H, FACCH/H, SACCH/TH, SDCCH/8, SACCH/C8, SDCCH/4, and SACCH/C4. For TCH/H, FACCH/H and SACCH/TH value is (01); For SDCCH/8 and SACCH/C8 value is (07); for SDCCH/4 and SACCH/C4 value is (03). This field is not applicable and the SS shall ignore it if this field is coded as 15.
cipherMode		CipherModeSetting	The new cipher mode. Definition see 3GPP TS 04.18 or 3GPP TS 44.018 [43] clause 10.5.2.9
Detailed Comm	ents		

ASP Name	G CL1	G CL1 CipherModeModify CNF		
		G CSAP		
Comments	The AS	SP is used to get the co	nfirmation of a G_CL1_CipherModeModify_REQ	
Parameter Na	ıme	Parameter Type	Comments	
cellld		CellId	The identifier of the cell	
physicalChId		PhysicalChId	Channel identifier	
g_LogicChType		G_LogicChType		
subChannel		SubChannelNumber	Valid only for logical channel types: TCH/H, FACCH/H, SACCH/TH, SDCCH/8, SACCH/C8, SDCCH/4, and SACCH/C4. For TCH/H, FACCH/H and SACCH/TH value is (01); For SDCCH/8 and SACCH/C8 value is (07); for SDCCH/4 and SACCH/C4 value is (03). This field is not applicable and the SS shall ignore it if this field is coded as 15.	
Detailed Comm	nents			

ASP Name	G_CL1	G_CL1_ChangePowerLevel_REQ		
PCO Type	G_CSA	۱P		
Comments	The AS	The ASP is used to change the transmission power level of a physical channel		
Parameter Name		Parameter Type	Comments	
cellld		CellId	The identifier of the cell which the physical channel belongs to	
physicalChId		PhysicalChId	Channel using the new transmission power level	
txPower		TX_Power	The new transmission power level in dBμVemf()	
Detailed Comn	nents			

ASP Name	G_CL1_0	G_CL1_ChangePowerLevel_CNF		
PCO Type	G_CSAP	G_CSAP		
Comments	The ASP	The ASP is used to get the confirmation of a G_CL1_ChangePowerLevel_REQ		
Parameter Name		Parameter Type	Comments	
cellId		CellId	The identifier of the cell	
physicalChId		PhysicalChId	The physical channel which uses the new transmission power level	
Detailed Comments				

7.3.4.3.2.2 ASPs for configuration and control of GERAN L2

ASP Name	G_CL2_I	G_CL2_HoldPhyInfo_REQ		
PCO Type	G_CSAP	G CSAP		
Comments	PCO G_I	The ASP commands the SS to hold the PHYSICAL INFORMATION message, which will be sent on PCO G_L2 following the current ASP. The PHYSICAL INFORMATION message shall be sent to the UE/MS within T3124 from the time when the SS has received n handover access bursts.		
Parameter N	lame	Parameter Type	Comments	
cellld		CellId		
physicalChld		PhysicalChId	Channel identifier	
g_LogicChType		G_LogicChType		
subChannel		SubChannelNumber	Valid only for logical channel types: FACCH/H, SDCCH/8 and SDCCH/4, This field is not applicable and the SS shall ignore it if this field is coded as 15.	
n		INTEGER	The number of handover access bursts to be received	
Detailed Comments T3124 is defined in 3GPF		T3124 is defined in 3GP	P TS 04.18 or 3GPP TS 44.018 [43] clauses 3.4.4.2.2 and 11.1.1	

ASP Name	G_CL2	G_CL2_HoldPhyInfo_CNF		
PCO Type	G_CSA	_CSAP		
Comments	The AS	P is used to get a conf	irmation of the G_CL2_HoldPhyInfo_REQ.	
Parameter Na	Name Parameter Type		Comments	
cellld		CellId		
physicalChId		PhysicalChId	Channel identifier	
g_LogicChType		G_LogicChType		
subChannel		SubChannelNumber	Valid only for logical channel types: FACCH/H, SDCCH/8 and SDCCH/4. This field is not applicable and the SS shall ignore it if this field is coded as 15.	
Detailed Comn	nents			

ASP Name	G_CL2_MeasRptControl_REQ			
PCO Type	G_CSAP	G_CSAP		
Comments	The ASP is used to enable or disable the reporting of received Measurement Reports to the TT			
Parameter	Name	Parameter Type	Comments	
cellId		CellId		
physicalChId		PhysicalChId	Channel identifier	
g_LogicChType		G_LogicChType	Valid only for logical channel types: SACCH/TF, SACCH/TH, SACCH/C8 and SACCH/C4	
subChannel		SubChannelNumber	For SACCH/TH value is (01); for SACCH/C8 value is (07); for SACCH/C4 value is (03).	
sendMeasRpts		BOOLEAN	Whether or not to report received Measurement Reports to the TTCN.	
Detailed Cor	mments	Per default, this will be set to FALSE		

ASP Name	G_CL2_Meas	G_CL2_MeasRptControl_CNF		
PCO Type	G_CSAP	3_CSAP		
Comments	The ASP is u	he ASP is used to confirm that G_CL2_MeasRptControl_REQ was executed correctly		
Parameter	Name	Parameter Type	Comments	
cellId		CellId		
physicalChId	•	PhysicalChId	Channel identifier	
Detailed Cor	mments			

ASP Name	G_CL2_I	NoUAforSABM_REQ		
PCO Type	G_CSAP			
Comments		The ASP commands the SS not to send UA response to the UE when it receives SABM from the UE on the specified channel.		
Parameter N	lame	Parameter Type	Comments	
cellId		CellId		
physicalChld		PhysicalChId	Channel identifier	
g_LogicChType		G_LogicChType		
subChannel		SubChannelNumber	Valid only for logical channel types: FACCH/H, SDCCH/8 and SDCCH/4, This field is not applicable and the SS shall ignore it if this field is coded as 15.	
Detailed Com	ments			

ASP Name	G_CL2	G_CL2_NoUAforSABM_CNF		
PCO Type	G_CSA	G_CSAP		
Comments	The AS	The ASP is used to get a confirmation of the G_CL2_NoUAforSABM_REQ.		
Parameter Na	Name Parameter Type		Comments	
cellld		CellId		
physicalChld		PhysicalChId	Channel identifier	
g_LogicChType		G_LogicChType		
subChannel		SubChannelNumber	Valid only for logical channel types: FACCH/H, SDCCH/8 and SDCCH/4. This field is not applicable and the SS shall ignore it if this field is coded as 15.	
Detailed Comm	nents			

ASP Name	G_CL2_Rele	ase_REQ		
PCO Type	G_CSAP	S_CSAP		
Comments	The ASP is u	he ASP is used request the SS stop L2 transmission on a channel.		
Parameter	Name	Parameter Type	Comments	
cellId		CellId		
cellId physicalChId		CellId PhysicalChId	Channel identifier	

ASP Name	G_CL2_Rele	ase_CNF		
PCO Type	G_CSAP			
Comments	The ASP is u	he ASP is used to confirm that the G_CL2_Release_REQ is executed correctly		
Parameter	Name	Parameter Type	Comments	
cellId		CellId		
physicalChld		PhysicalChId	Channel identifier	

ASP Name	G_CL2_I	ResumeUAforSABM_RE	Q	
PCO Type	G_CSAP	G_CSAP		
Comments	the speci	The ASP commands the SS to send UA response to the UE when it receives SABM from the UE of the specified channel. This ASP is used after G_CL2_NoUAforSABM_REQ to resume the normal multiframe operation of L2		
Parameter N	lame	Parameter Type	Comments	
cellId		CellId		
physicalChld		PhysicalChId	Channel identifier	
g_LogicChType		G_LogicChType		
subChannel		SubChannelNumber	Valid only for logical channel types: FACCH/H, SDCCH/8 and SDCCH/4, This field is not applicable and the SS shall ignore it if this field is coded as 15.	
Detailed Com	ments			

ASP Name	G_CL2_I	G_CL2_ResumeUAforSABM_CNF		
PCO Type	G_CSAP	G_CSAP		
Comments	The ASP	The ASP is used to get a confirmation of the G_CL2_ResumeUAforSABM_REQ.		
Parameter N	ame	Parameter Type	Comments	
cellId		CellId		
physicalChld		PhysicalChId	Channel identifier	
g_LogicChType		G_LogicChType		
subChannel		SubChannelNumber	Valid only for logical channel types: FACCH/H, SDCCH/8 and SDCCH/4. This field is not applicable and the SS shall ignore it if this field is coded as 15.	
Detailed Com	ments			

7.3.4.3.2.3 ASPs for configuration and control of GERAN RLC/MAC

ASP Name	G_CRLC_CreateRLC_	MAC_REQ			
PCO Type	G_CSAP				
Comments	The ASP is used to cre	The ASP is used to create a RLC/MAC entity in GERAN RLC/MAC emulation module.			
Paran	neter Name	Parameter Type	Comments		
cellld		CellId	The identifier of the cell		
Detailed Comm	nents RLC/MAC emula G_CL1_CreateB	entity per cell can exist, cellId will be used tion module The packet channel descrip asicPhyCh_REQ shall be used to configu _CreateBasicPhyCh_REQ ASP.	ption given in the ChannelSpecificInfo of		

ASP Name	G_CRLC_CreateRLC_	_MAC_CNF	
PCO Type	G_CSAP		
Comments	The ASP is used to confirm the G_CRLC_CreateRLC_MAC_REQ		
Paran	neter Name	Parameter Type	Comments
cellId		CellId	The identifier of the cell
Detailed Co	mments		

ASP Name	G_CRLC_DeleteRLC_	MAC_REQ		
PCO Type	G_CSAP			
Comments	The ASP is used to de	The ASP is used to delete a RLC/MAC entity in GERAN emulation module.		
Paran	neter Name	Parameter Type	Comments	
cellid		CellId	Comments The identifier of the cell	

ASP Name	G_CRLC_DeleteRLC_	MAC_CNF	
PCO Type	G_CSAP		
Comments	The ASP is used to co	nfirm the G_CRLC_CreateRLC_MAC_RI	EQ .
Paran	neter Name	Parameter Type	Comments
	icter Hairie	i didilicter Type	Comments
cellid	ieter Hame	71	The identifier of the cell

ASP Name G_CF	G_CRLC_UL_TBF_Config_REQ			
PCO Type G_CS				
Comments The A	ASP is used to configure a TB	F used for uplink packet data transfer		
Parameter Name	Parameter Type	Comments		
cellld	CellId			
tFI	TFI			
tBF_Mode	BITSTRING[1]	0 - GPRS; 1 - EGPRS		
channelCoding	ChannelCoding			
tLLI_BlockChannelCod	ing BITSTRING[1]	0 - CS-1 or MCS-1(EGPRS); 1 - same as channelCoding		
rLC_Mode	BITSTRING[1]	0 - acknowledged mode; 1 - unacknowledged mode		
startingTime	RFN	This field is not applicable and the SS shall ignore it if the field t2 of rfn is coded as '11111'B.		
uSF_Rate	INTEGER	This parameter controls the speed of the UL TBF transferring data blocks by controlling the USF rate: 1> implementation dependent. TTCN does not specify the USF generating rate; 2> 10 USF's per second; 3> 5 USF's per second; 4> 1 USF per second; 5> 1 USF per 2 seconds; 6> 1 USF per 3 seconds; 7> 1 USF per 4 seconds.		
dynamicAllocation	dynamicAllocation	dynamic allocation and other parameters.		
Detailed Comments	For EGPRS channel codi MCS-7, MCS-8, MCS-9, Due to one cell currently contain RLC/MAC identity is established for, instead which is created by G_CF	g can be: CS-1, CS-2, CS-3 and CS-4; ing can be: MCS-1, MCS-2, MCS-3, MCS-4, MCS-5, MCS-6, MCS-5-7 and MCS-6-9. has only one RLC/MAC emulation module, this ASP does not y parameter to indicate which RLC/MAC emulation module this TBF d, the parameter cellId implicitly indicates the RLC/MAC module, RLC_CreateRLC_MAC_REQ in the cell. The higher layer (LLC rLC/MAC_MappingInfo (with type of CellId) to address the RLC/MAC		

ASP Name	G_CRLC_UL_TBF_Cd	onfig_CNF		
PCO Type	G_CSAP	G_CSAP		
Comments	The ASP is used to ge	The ASP is used to get the confirmation of a G_CRLC_UL_TBF_Config_REQ		
Parameter Name		Parameter Type	Comments	
cellid		CellId		
tFI		TFI		

Type Name	ChannelCoding
Type Definition	INTEGER
Type Encoding	
	1 - CS-1;
	2 - CS-2;
	3 - CS-3;
	4 CS-4;
	5 - MCS-1;
	6 - MCS-2;
	7 - MCS-3;
Comments	8 - MCS-4;
	9 - MCS-5;
	10 - MCS-6;
	11 - MCS-7;
	12 - MCS-8;
	13 - MCS-9;
	14 - MCS-5-7;
	15 - MCS-6-9

Type Name	DynamicAllocation		
Encoding Variation			
Comments	Used for up link TBF; d	ynamic allocation of	or extended dynamic allocation
Element Name	Type Definition	Field Encoding	Comments
extendedAllocation	BITSTRING[1]		0 - dynamic allocation; 1 - extended dynamic allocation
uSFGranularity	BITSTRING[1]		0 - one block; 1 - four blocks
physicalChld	PhysicalChId		Single PDCH or multislot-configured PDCHs
tN0	BOOLEAN		TRUE - time slot 0 is allocated; FALSE not allocated
uSF_TN0	BITSTRING[3]		USF value for slot 0
tN1	BOOLEAN		TRUE - time slot 1 is allocated; FALSE not allocated
uSF_TN1	BITSTRING[3]		USF value for slot 1
tN2	BOOLEAN		TRUE - time slot 2 is allocated; FALSE not allocated
uSF_TN2	BITSTRING[3]		USF value for slot 2
tN3	BOOLEAN		TRUE - time slot 3 is allocated; FALSE not allocated
uSF_TN3	BITSTRING[3]		USF value for slot 3
tN4	BOOLEAN		TRUE - time slot 4 is allocated; FALSE not allocated
uSF_TN4	BITSTRING[3]		USF value for slot 4
tN5	BOOLEAN		TRUE - time slot 5 is allocated; FALSE not allocated
uSF_TN5	BITSTRING[3]		USF value for slot 5
tN6	BOOLEAN		TRUE - time slot 6 is allocated; FALSE not allocated
uSF_TN6	BITSTRING[3]		USF value for slot 6
tN7	BOOLEAN		TRUE - time slot 7 is allocated; FALSE not allocated
uSF_TN7	BITSTRING[3]		USF value for slot 7
Detailed Comments	The uSF_TNx field is n	ot applicable when	tNx = FALSE.

ASP Name	G_CF	RLC_DL_TBF_Config_RI	RLC_DL_TBF_Config_REQ		
PCO Type	G_CS	SAP			
Comments	The A	ASP is used to configure	a TBF used for down link packet data transfer		
Parameter Na	me	Parameter Type	Comments		
cellld		CellId			
tFI		TFI			
tBF_Mode		BITSTRING[1]	0 - GPRS; 1 - EGPRS		
channelCoding		ChannelCoding			
rLC_Mode		BITSTRING[1]	0 - acknowledged mode; 1 - unacknowledged mode		
timeSlotAllocation	n	TimeSlotAllocation	Downlink TBF time slot allocation		
startingTime		RFN	This field is not applicable and the SS shall ignore it if the field t2 of rfn is coded as '11111'B.		
dataBlockRate		INTEGER	This parameter controls the speed of the DL TBF sending RLC/MAC data blocks on the assigned PDCH's: 1> implementation dependent. TTCN does not specify the data block rate; 2> 10 data blocks per second; 3> 5 data blocks per second; 4> 1 data block per second; 5> 1 data block per 2 seconds; 6> 1 data block per 3 seconds; 7> 1 data block per 4 seconds.		
Detailed Comm	ents		ng can be: CS-1, CS-2, CS-3 and CS-4; ling can be: MCS-1, MCS-2, MCS-3, MCS-4, MCS-5, MCS-6, MCS-7, 7 and MCS-6-9.		

ASP Name	G_CRLC_DL_TBF_C	Config_CNF	
PCO Type	G_CSAP		
Comments	The ASP is used to g	et the confirmation of a G_CRLC_DL_TBF	Config_REQ
Parameter Name		Parameter Type	Comments
cellId		CellId	
tFI		TFI	
Detailed Co	mmonte		

Type Name	TimeSlotAllocation		
Encoding Variation			
Comments	Used for downlink an	d up link TBF	
Element Name	Type Definition	Field Encoding	Comments
physicalChld	PhysicalChld		single PDCH or multislot-configured PDCHs
tN0	BOOLEAN		Timeslot 0; TRUE - allocated; FALSE - not allocated.
tN1	BOOLEAN		Timeslot 1; TRUE - allocated; FALSE - not allocated.
tN2	BOOLEAN		Timeslot 2; TRUE - allocated; FALSE - not allocated.
tN3	BOOLEAN		Timeslot 3; TRUE - allocated; FALSE - not allocated.
tN4	BOOLEAN		Timeslot 4; TRUE - allocated; FALSE - not allocated.
tN5	BOOLEAN		Timeslot 5; TRUE - allocated; FALSE - not allocated.
tN6	BOOLEAN		Timeslot 6; TRUE - allocated; FALSE - not allocated.
tN7	BOOLEAN		Timeslot 7; TRUE - allocated; FALSE - not allocated.
Detailed Comments			

7.3.4.3.2.4 ASPs for configuration and control of GERAN LLC

ASP Name	G_CLLC	_CreateLLE_REQ		
PCO Type	G_CSAP			
		The ASP is used to create an LLE (LLC Entity) in GERAN emulation part of the SS and connects the created LLE to the RLC/MAC emulation module pointed by rLC/MAC_MappingInfo		
Parameter N	ame	Parameter Type	Comments	
ILMEId		LLMEId	Logical Layer Management Entity Id	
rLC/MAC_Mappir	ngInfo		This parameter indicates the RLC/MAC emulation module in the cell, not the cell itself.	
Detailed Com	ments	The RLC/MAC emulation G_CRLC_CreateRLC_M	n module needs to be created prior to this ASP by IAC_REQ ASP.	

ASP Name	G_CLLC_Crea	ateLLE_0	CNF	
PCO Type	G_CSAP	G_CSAP		
Comments	The ASP is us	The ASP is used to confirm the G_CLLC_CreateLLE_REQ		
Parameter Name		Parameter Type	Comments	
ILMEId			LLMEId	The identifier of the cell Logical Layer Management Entity Id
Detailed Co	mments			· -

ASP Name	G_CLLC_DeleteLLE_	REQ	
PCO Type	G_CSAP		
Comments	The ASP is used to de	elete an LLE (LLC Entity) in GERAN LLC	emulation module.
Paran	neter Name	Parameter Type	Comments
Paran ILMEId	neter Name	Parameter Type LLMEId	Comments Logical Layer Management Entity Id

ASP Name	G_CLLC_DeleteLLE	_CNF		
PCO Type	G_CSAP	G_CSAP		
Comments	The ASP is used to	confirm the G_CLLC_DeleteLLE_REQ		
Parar	neter Name	Parameter Type	Comments	
Parar ILMEId	neter Name	Parameter Type LLMEId	Comments Logical Layer Management Entity Id	

ASP Name	G_C	G_CLLC_Assign_REQ					
PCO Type		G_CSAP					
Comments	The ASP is used to assign, change, or unassign the TLLI, the ciphering key (Kc) and the ciphering algorithm of GERAN LLC emulation module.						
Parameter Nam		Parameter Type	Comments				
ILMEId	l	LLMEId	Logical Layer Management Entity Id				
oldTLLI		TLLI	OCTETSTRING[4]				
newTLLI		TLLI					
cipherKey	E	BITSTRING[64]					
cipherAlgorithm		GPRS_CipherAlg	BITSTRING[3], see 3GPP TS 24.008 [9] clause 10.5.5.3				
Detailed Comments		algorithm. 1. The oldTLLI and newTLLI para - If oldTLLI = all 1's and new (re-)transmitting LLC frame is unassigned. Only newTL a TLLI change. If oldTLLI = TLLI assignment, and this to process requests from la - If oldTLLI ≠ all 1's and new newTLLI shall be used whe be accepted when received - If oldTLLI ≠ all 1's and new as a TLLI unassignment, a disable LLC to not process 2. Kc and Ciphering Algorithm ar - If Ciphering Algorithm ar - If Ciphering Algorithm in disabled Otherwise, the cipherin associated with newTLLI o Ciphering Algorithm shall r UI frames with the E bit segunacknowledged I frames	ge, or unassign the TLLI, the ciphering key (Kc) and the ciphering ameters shall be interpreted as follows: ATLLI ≠ all 1's then newTLLI is assigned and used when es. If an oldTLLI ≠ all 1's was assigned to the LLME, then oldTLLI LI is accepted when received from the peer. It shall be treated as a all 1's was assigned to the LLME, then this shall be treated as a ASP shall be the first ASP sent to the SS in order to enable LLC ayer 3. ATLLI ≠ all 1's then oldTLLI and newTLLI are assigned, and en (re-)transmitting LLC frames. Both oldTLLI and newTLLI shall defrom the peer. It shall be treated as a TLLI change. ATLLI = all 1's then oldTLLI shall be unassigned. It shall be treated and this ASP shall be the last ASP sent to the SS in order to be requests from layer 3 any longer. As a speciated with newTLLI (and with oldTLLI if assigned): indicates no ciphering, then the ciphering function shall be and eplace the previous algorithm selection. All I frames, and the to 1, shall use the new Kc and algorithm for ciphering. All shall be ciphered using the new Kc and algorithm may be used to the ementation option, the previous Kc and algorithm may be used to				

ASP Name	G_CLLC_Assign_CNF				
PCO Type	G_CSAP	G_CSAP			
Comments	the ASP is used to get confirmation of G_CLLC_Assign_REQ				
Paran	neter Name	Parameter Type	Comments		
ILMEId		LLMEId	Logical Layer Management Entity Id		
Detailed Co	mments				

ASP Name	G_CLLC_ReassignLLE_REQ				
PCO Type	G_CSAP				
Comments	The ASP	is used to reassign RLC/MAC	entity to the specified LLME Identity.		
Parameter N	lame	Parameter Type	Comments		
ILMEId		LLMEId	Logical Layer Management Entity Id		
rLC/MAC_MappingInfo		II AIIIA	This parameter indicates the RLC/MAC emulation module in the cell, not the cell itself		
tLLI TLLI		TLLI			
Detailed Com	ments	This ASP allows simulation of	Intra-SGSN operations in tests.		

ASP Name	G_CLLC_ReassignLLE_CNF				
PCO Type	G_CSAP	G_CSAP			
Comments	The ASP is used to confirm the G_CLLC_ReassignLLE_REQ				
Parameter Name Parameter Type					
Paran	neter Name	Parame	eter Type	Comments	
Paran ILMEId	neter Name	Parame LLMEId	71	Comments Logical Layer Management Entity Id	

7.3.4.3.2.5 ASPs for configuration and control of GERAN SNDCP

ASP Name	G_CSN	G_CSNDCP_Activate_REQ				
PCO Type	G_CSA	νP				
Comments	The AS	P is used to activate the	e SNDC entity			
Parameter Na	me	Parameter Type	Comments			
sNDCPId		SNDCPId	The SNDCP entity identifier of the cell			
ILMEId		LLMEId	Logical link management entity Id			
nSAPI		NSAPI	The Network Service Access Point Identifier			
sAPI		SAPI	LLC SAPI			
PCI_Compression		INTEGER	0 - RFC 1144 [46] compress; 1 - RFC 2507 [30] compression; 32 - no compression			
dataCompression		INTEGER	0 - ITU-T Recommendation V.42bis [47] compression; 1 - ITU-T Recommendation V.44 [48] compression; 32 - no compression			
nPDUNumberSyn	ıc	INTEGER	0 - Asynchronous 1 - Synchronous			
Detailed Comm	ents	_				

ASP Name	G_CSNDCP_Activate_CNF					
PCO Type	G_CSAP					
Comments	The ASP is used	d to get the confirmation of a G_CSN	NDCP_Activate_REQ			
Paramete	ter Name Parameter Type Comments					
sNDCPId		SNDCPId	SNDCPentity identifier			
nSAPI	NSAPI The Network Service Access Point Identifier					
Detailed Co	mments					

ASP Name	G_CSNDCP_SNSM_Activate_RES					
PCO Type	G_CSAP					
Comments	This ASP i	This ASP is used to inform that the NSAPI is in use and the acknowledge mode peer to peer LLC				
Comments	operation f	operation for the requested SAPI is established.				
Parameter I	Parameter Name Parameter Type		Comments			
sNDCPId		SNDCPId	The SNDCP entity identifier			
tLLI	TLLI		Temporary Logical Link Entity			
nSAPI	nSAPI NSAPI		The Network Service Access Point Identifier			
Detailed Com	nments					

ASP Name	G_CSNDCP_SNSM_Deactivate_IND				
PCO Type	G_CSAP				
	This ASP is used to inform the SNDCP emulator that an NSAPI has been deactivated and cannot be used anymore. Upon reception of this ASP the SNDCP emulator shall release acknowledged peer-to-peer LLC operation for the associated SAPI.				
Paramete	neter Name Parameter Type Comments				
sNDCPId		SNDCPId	The SNDCP entity identifier		
tLLI		TLLI	Temporary Logical Link Entity		
nSAPI	SAPI NSAPI The Network Service Access Point Identifier				
ILCReleaseIndica	ator	INTEGER	Deactivation cause		
Detailed Cor	mments				

ASP Name	G_CSNDCP_SNSM_Deactivate_RES				
PCO Type	G_CSAP				
Comments	This ASP indicate	es that the NSAPI is no longer in use	and the acknowledged peer to peer LLC		
Comments	operation for the requested SAPI has been released.				
Parame	ter Name	Parameter Type	Comments		
sNDCPId		SNDCPId	The SNDCP entity identifier		
tLLI		TLLI	Temporary Logical Link Entity		
nSAPI		NSAPI	The Network Service Access Point Identifier		
Detailed Co	mments				

ASP Name	G_CSNDCP_S	G_CSNDCP_SNSM_Status_REQ				
PCO Type	G_CSAP					
Comments		This ASP informs that the SNDCP cannot continue its operation due to errors in the lower layers of the protocol stack.				
Parameter Name			Parameter Type	Comments		
sNDCPId	sNDCPId		SNDCPId	The SNDCP entity identifier		
tLLI			TLLI	Temporary Logical Link Entity		
sAPI			SAPI	The Service Access Point Identifier		
cause			INTEGER	Error cause		
Detailed Co	mments	•				

ASP Name	G_CSNDCP_SNSM_Modify_IND						
PCO Type	G_CSAP						
Comments		This ASP informs the SNDCP emulator to trigger the change of QoS profile for an NSAPI and indication of the SAPI to be used					
Paramet	er Name	Parameter Type	Comments				
sNDCPId		SNDCPId	The SNDCP entity identifier				
tLLI		TLLI	Temporary Logical Link Entity				
nSAPI		NSAPI	The Network Service Access Point Identifier				
qos		OCTETSTRING[4]	Quality of Service, defined 3GPP TS 04.08 or 3GPP TS 44.008 [49] clause 10.5.6.5				
sAPI		SAPI					
send_NPDU_Number		INTEGER					
received_NPDU_	_Number	INTEGER					
Detailed Co	mments						

ASP Name	G_CSNDCP_SNSM_Modify_RES				
PCO Type	G_CSAP				
Comments			re now in used and the acknowledged peer to		
Comments	peer LLC oper	ations for the appropriate SAPIs are es	stablished and/or released		
Paramete	r Name	Parameter Type	Comments		
sNDCPId		SNDCPId	The SNDCP entity identifier		
tLLI		TLLI	Temporary Logical Link Entity		
nSAPI		NSAPI	The Network Service Access Point Identifier		
Detailed Co	mments				

7.3.5 A-GPS Upper tester, PCO and ASP definitions

7.3.5.1 Upper tester

In order to perform A-GPS test, an Upper Tester is defined to have two basic functional unites:

- Satellite simulator generating and broadcasting satellite signals;
- Assistance data source storing the data simulating a number of pre-defined GPS test scenarios.

Under the TTCN command, the upper tester loads a pre-defined or re-loads another pre-defined GPS test scenario to the satellite simulator. The generated satellite signals shall simulate a sufficient number satellites. The signal shall be sufficiently strong, in order to enable the UE to do the positioning measurement.

The SS also sends the GPS assistance data to the UE through RRC signalling to facilitate the UE acquiring and tracking satellites. Such assistance data shall be consistent to within ± 2 seconds with the satellite signals generated.

The assistance data source shall provide the assistance data consistent to +1/-0 second with the GPS test scenario currently running in the satellite simulator (i.e. the data shall be up to 1 second in advance of the scenario); this allows for a further 2 seconds of latency in the SS.

7.3.5.2 SV PCO

The upper tester has an ASP interface through a PCO in type of SatS PCO defined in the table.

PCO Type Declarations	
PCO Type	SatS
Role	UT
Comments	PCO type used for the Satellite Simulator and the assistance data source in the
	upper tester

PCO Declarations	
PCO Name	SV
PCO Type	SatS
Role	UT
Comments	Carry control, configuration and GPS assistance data to/from satellite simulator and assistance data source in the upper tester

7.3.5.3 A-GPS Primitives

The primitives at SV PCO are used to

- load a pre-defined GPS test scenario into the satellite simulator;
- start or stop generating and broadcasting satellite signals from the satellite simulator;
- retrieve the GPS assistance data from assistance data source, the table below is the summary of these primitives.

Primitive	Parameters	Use
Satellite_StartStop_REQ	Mode: start or stop	Start or stop generating satellite signals in the
		satellite simulator.
Satellite_StartStop_CNF	Null	Confirm the Satellite_StartStop_Req.
Load_GPS_Scenario_ REQ	GPS test scenario number	Requests to load a pre-defined GPS test
		scenario into the satellite simulator
Load_GPS_Scenario_ CNF	Null	Confirm the load_GPS_Scenario_Req
Retri_GPS_AssistanceData_REQ		Request the assistance data source to provide
	data elements to be retrieved	the next (in time) valid GPS assistance data
		elements.
Retri_GPS_AssistanceData_CNF	GPS assistance data elements	Return the GPS assistance data retrieved

7.3.5.3.1 Control ASP Type Definition

ASN.1 ASP Type Definition		
Type Name	Satellite_StartStop_CNF	
PCO Type	SatS	
Comment	To confirm successful of Satellite_StartStop_REQ	
Type Definition		
SEQUENCE {	Firm NULL	
}		

ASN.1 ASP Type Definition			
Type N	lame	Satellite_StartStop_REQ	
PCO T	уре	SatS	
Comm		To start or stop generating satellite signals in the satellite simulator "start" starts broadcasting satellite signals; "stop" stops broadcasting satellite signals If used for start (0), this ASP shall be called 2 s. after the ASP Load_GPS_Scenario_REQ for loading or reloading a pre-defined GPS test scenario.	
		Type Definition	
SEQUENCE }	{ satellit	eSignals ENUMERATED {startSatSignal (0), stopSatSignal (1)}	

7.3.5.3.2 Data ASP Type Definition

ASN.1 ASP Type Definition			
Type N	lame	Load_GPS_Scenario_CNF	
PCO 1	Гуре	SatS	
Comn	nent	To confirm the Load_GPS_Scenario_REQ	
	Type Definition		
SEQUENCE	{ d.:	NULL	
}	dummy	NOLL	

ASN.1 ASP Type Definition			
Type Na	ame	Load_GPS_Scenario_REQ	
PCO Ty	уре	SatS	
Comme	Comment To request the upper tester to load the required pre-defined GPS test scenario.		I the required pre-defined GPS test scenario.
	Type Definition		
SEQUENCE	{		
	gps S	cenario INTEGER(031)}	

		ASN.1 ASP Type Definition
Type Name Retri_GPS_AssistanceData_CNF		Retri_GPS_AssistanceData_CNF
PCO T	Гуре	SatS
To return the next valid GPS assistance data elements as requested in the Retri_GPS_AssistanceData_REQ. The returned GPS assistance data (all or part) will be used as assistance data (all or part) will be used as assistance data (all or part) will be used as assistance data (all or part) will be used as assistance data (all or part) will be used as assistance data (all or part) will be used as assistance data (all or part) will be used as assistance data (all or part) will be used as assistance data elements as requested in the Retri_GPS_Assistance data elements as requested in the Retri_GPS_Assistance data elements as requested in the Retri_GPS_Assistance data (all or part) will be used as assistance		Retri_GPS_AssistanceData_REQ. The returned GPS assistance data (all or part) will be used as assistance data sent to UE in RRC messages for A-GPS positioning.
		Type Definition
SEQUENCE }	{ assistand almanacSa	

	ASN.1 ASP Type Definition
Type Name	Retri_GPS_AssistanceData_REQ
PCO Type	SatS
	To request the GPS assistance data source to provide the next valid GPS assistance data elements, consistent with the running GPS test scenario. The parameter navModelAddDataRequest in the assistanceDataReq shall be omitted. Another three parameters, utcModelRequest, dgpsCorrectionsRequest and realTimeIntegrityRequest in the assistanceDataReq are not applicable and shall be set to "FALSE".
	Type Definition
SEQUENCE { assistanceDataRed }	q UE_Positioning_GPS_AdditionalAssistanceDataRequest

7.3.6 ROHC test model and ASP

7.3.6.1 ROHC test method

The ROHC test architecture illustrates the relationship between various compressor and de-compressor entities. No decompressor is implemented in PDCP on the uplink direction in the SS.

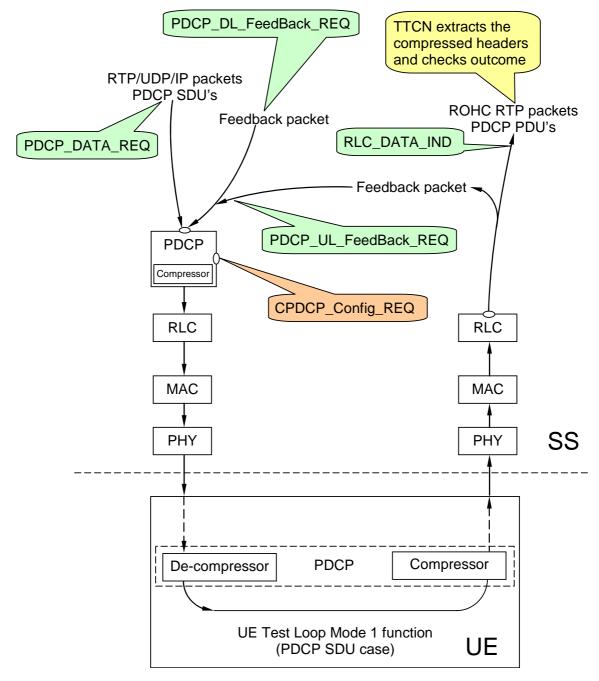


Figure 23: ROHC testing architecture

7.3.6.2 ASP and PCO for control primitives transmission and reception

7.3.6.2.1 PCO definition

Table 33: PCO CPDCP declaration

PCO Definition	
PCO Name	CPDCP
PCO Type	CSAP
Role	LT
Comment	Provide PDCP Layer configuration service

7.3.6.2.2 CPDCP_Config

ASN.1 ASP Type Definition			
Type Name	CPDCP_Config_CNF		
PCO Type	CSAP		
Comment	For PDCP emulator to report that a previous attempt to setup, reconfigure or release a logical channel is successful.		
	Type Definition		
	ellId INTEGER(-163), outingInfo RoutingInfo		

ASN.1 ASP Type Definition		
Type Name	CPDCP_Config_REQ	
PCO Type CSAP		
To request to configure PDCP entity. Setup is used for creation of the PDC instances or the PDCP resources. Release is used for free the all PDCP resources. The reconfiguration is to change the PDCP parameters. PDCP entity does not belong to a particular cell, the cellId shall assign the value the routingInfo is RB identity which is used to connect this PDCP entity to the RLC entity with the same RB identity and it is also used for PDCP_DATA_F ASP to transmit data through this PDCP entity.		
	Type Definition	
SEQUENCE {	RatType, essage CHOICE {	

ASN.1 Type Definition			
Type Name	SS_PDCP_Info_r4		
Comment	When configuring downlink direction of the SS, the UL_RFC3095-r4 shall be used; when configuring uplink direction of the SS the DL_RFC3095-r4 shall be used.		
Type Definition			
SEQUENCE { pDCP_ROHC_' pDCP_Info }	CargetMode PDCP_ROHC_TargetMode, PDCP_Info_r4		

ASN.1 Type Definition			
Type Name	SS_PDCP_InfoReconfig_r4		
Comment	When configuring downlink direction of the SS, the UL_RFC3095-r4 shall be used; when configuring uplink direction of the SS the DL_RFC3095-r4 shall be used.		
Type Definition			
SEQUENCE { pDCP_ROHC_' pDCP_Info	TargetMode PDCP_ROHC_TargetMode, PDCP_InfoReconfig_r4		

7.3.6.2.3 CPDCP_ComProtocolControl

	ASN.1 ASP Type Definition			
Type Name	CPDCP_ComProtocolControl_CNF			
PCO Type	CSAP			
Comment	For PDCP emulator to report that a previous attempt to control the compression protocol is successful.			
	Type Definition			
	llId INTEGER(-163), utingInfo RoutingInfo			

	ASN.1	ASP Type Definition		
Type Name	CPDCP_ComProtoc	• •		
PCO Type	CSAP			
Comment				
	T	ype Definition		
SEQUENCE { cellId routingInfo ratType controlMessage reinitialisation contextRelocation }		<pre>INTEGER(-163), RoutingInfo, RatType, CHOICE { NULL, Context</pre>		

ASN.1 Type Definition					
Type Name	Context				
Comment	Adapted from ASN1 type: RFC3095_Context_List				
	Type Definition				
SEQUENCE (SIZE (1maxRFC3095 CID)) OF SEQUENCE {					
dl RFC3095 Context DL RFC3095 Context OPTIONAL,					
ul_RFC3095_Cont	text UL_RFC3095_Context OPTIONAL				
]}					

```
ASN.1 Type Definition
    Type Name
                       DL_RFC3095_Context
     Comment
                       For the compressor in the SS
                                               Type Definition
SEQUENCE
                                                  INTEGER (0..16383), ENUMERATED \{u, o, r\}, OCTET STRING (SIZE (1..3000)),
    rfc3095_Context_Identity
    dl_mode
    dl_ref_ir
    dl_ref_time
dl_curr_time
dl_syn_offset_id
dl_syn_slope_ts
dl_dyn_changed
                                                   INTEGER (0..4294967295) OPTIONAL,
                                                   INTEGER (0..4294967295)
                                                                                      OPTIONAL,
                                                  INTEGER (0..65535)
                                                                                      OPTIONAL,
                                                   INTEGER (0..4294967295)
                                                                                      OPTIONAL,
                                                   BOOLEAN
```

	ASN.1	Type Definition		
Type Name	UL_RFC3095_Context			
Comment	For the de-compressor i	n the SS		
	Ту	pe Definition		
SEQUENCE {				
rfc3095_Context	t_Identity	INTEGER (016383),		
ul_mode		ENUMERATED {u, o, r	},	
ul_ref_ir		OCTET STRING (SIZE	(13000)),
ul_ref_time		INTEGER (042949672	295)	OPTIONAL,
ul curr time		INTEGER (042949672	295)	OPTIONAL,
ul syn offset	id	INTEGER (065535)		OPTIONAL,
ul syn slope t	3	INTEGER (042949672	295)	OPTIONAL,
ul ref sn 1		INTEGER (065535)		OPTIONAL
}				

7.3.6.3 ASP and PCO for data transmission and reception

7.3.6.3.1 PCO definition

Table 34: PCO PDCP declaration

PCO Type Definition		
PCO Name	PDCP	
PCO Type	DSAP	
Role	LT	
Comment	Provide PDCP data transfer service	

7.3.6.3.2 PDCP_DATA

ASP Name	PDCP_D/	ATA_REQ	
PCO Type	DSAP		
Comments	To reques	st to transmit data (PDC	CP SDU)
Parameter N	lame	Parameter Type	Comments
cellId		CellId	
rB_ld		SS_RB_Identity	Radio bearer identifier
pDCP_SDU		PDU	IPv4/UDP/RTP or IPv6/UDP/RTP PDUs
Detailed			
Comments			

ASP Name	PDCP_D/	ATA_IND		
PCO Type	DSAP			
Comments	To indicat	To indicate to receive data (PDCP SDU)		
Parameter N	lame	Parameter Type	Comments	
cellId		CellId		
rB_ld		SS_RB_Identity	Radio bearer identifier	
pDCP_SDU		PDU	IPv4/UDP/RTP or IPv6/UDP/RTP PDUs	
Detailed				
Comments				

7.3.6.3.3 PDCP_DL_FeedBack

ASP Name	PDCP_DL_FeedBack_CNF		
PCO Type	DSAP		
Comments	For the S	S to confirm a previous	PDCP_DL_FeedBack_REQ.
Parameter Na	ame Parameter Type Comments		
cellId		CellId	
rB_ld		SS_RB_Identity	Radio bearer identifier
Detailed			
Comments			

ASP Name	PDCP_DL_FeedBack_REQ		
PCO Type	DSAP		
Comments	To reques	st the SS to send a feed	dback packet to the compressor in the UE.
Parameter Na	me	Parameter Type	Comments
cellId		CellId	
rB_ld		SS_RB_Identity	Radio bearer identifier
feedBackPacket1		FeedBackPacket1	either of feedBackPacket1 or feedBackPacket2 is presented
feedBackPacket2		FeedBackPacket2	
Detailed Comments			

ASP Name	PDCP_UL_FeedBack_CNF		
PCO Type	DSAP		
Comments	For the S	S to confirm a previous	PDCP_UL_FeedBack_REQ.
Parameter Na	me Parameter Type Comments		
cellId		CellId	
rB_ld		SS_RB_Identity	Radio bearer identifier
Detailed			
Comments			

ASP Name	PDCP_UI	PDCP_UL_FeedBack_REQ			
PCO Type	DSAP				
Comments	To request the SS to pass a feedback packet received on uplink to the compressor in the SS. When a feedback packet is received at the uplink direction, TTCN uses this ASP to pass the received feedback packet to the downlink compressor of the SS				
Parameter Name		Parameter Type	Comments		
cellId		CellId			
rB_ld		SS_RB_Identity	Radio bearer identifier		
		FeedBackPacket1	either of feedBackPacket1 or feedBackPacket2 is presented		
feedBackPacket2 F		FeedBackPacket2			
Detailed					
Comments					

Type Name	FeedBackPacket1					
Encoding Variation						
Comments	For ROHC RTP					
Element Name	Type Definition Field Encoding Comments					
feedBackType	BITSTRING[5]		'11110'B			
code	BITSTRING[3]					
size	OCTETSTRING[1]		Present if code = 0			
addCIDpart1	BITSTRING[4]		Present if small CID and CID <>0; this shall be '1110'			
addCIDpart2	BITSTRING[4]		Present if small CID and CID <>0; This is the CID value			
largeCID	OCTETSTRING[12]		Present if large CID			
sequenceNumber	BITSTRING[8]					
Detailed Comments						

Type Name	FeedBackPacket2					
Encoding Variation						
Comments	For ROHC RTP					
Element Name	Type Definition Field Encoding Comments					
feedBackType	BITSTRING[5]		'11110'B			
code	BITSTRING[3]					
size	OCTETSTRING[1]		Present if code = 0			
addCIDpart1	BITSTRING[4]		Present if small CID and CID <>0; this shall be '1110'			
addCIDpart2	BITSTRING[4]		Present if small CID and CID <>0; This is the CID value			
largeCID	OCTETSTRING[12]		Present if large CID			
ackType	BITSTRING[2]		0 = ACK; 1 = NACK; 2 = STATIC- NACK; 3 = reserved			
mode	BITSTRING[2]					
sequenceNumber	BITSTRING[12]					
optioncode	BITSTRING[4]					
optionLength	BITSTRING[4]		Only 0 and 1 are valid values			
optionData	BITSTRING[8]		Present if optionLength = 1			
Detailed Comments	See section 5.7.6.1 of RFC 3095 [54] for the coding of optionalLength and optionalData					

7.3.7 Handling RLP for CS non-transparent data

7.3.7.1 UTRAN cell

After the establishment of a CS non-transparent data call in a UTRAN cell during the test, the UE may attempt to initiate a Radio Link Protocol (RLP) connection or start XID exchange before the RLP connection if the UE has an RLP installed. The RLP frames exchanges shall be handled by the SS, in order to carry on the test. Otherwise, the UE may disconnect the CS call.

For the purpose of handling UE originated RLP frames at CS data call, an RLP codec can be activated on the top of the SS TM RLC entity if the RLP protocol is applied to the UE. In addition of PCO TM, two new PCOs are defined. The PCO CRLP is used for the control and configuration of the RLP codec and the PCO RLP is used for the transferring of the RLP frames. PCO TM is not applied if PCO RLP is used in the test.

System Simulator UE under test **ATS PCO RLP** RLP codec PCO CRLI RLP/L2R **PCO** TM RLC TM**RLC** PCO CRLC MAC (IUT) **MAC** PCO CMAC PHY PHY PCO CPHY U-Plane interface

Figure 24: RLP codec model

An activate / deactivate command is required within the CRLP_Config_REQ to configure and activate the RLP codec and RLP PCO. The deactivate command switches off the RLP PCO and the SS discards all received RLP frames.

The RLP codec supports RLP Version 0,1, and 2, detects the version number at the first XID exchange. Without any prior XID exchange, the default version 0 applies. The codec decodes / encodes U, S, I+S frames including header, information and FCS (Frame Check Sequence) fields. The RLP has a fixed bit frame size that is set to 576 bits. The SS RLP codec calculates the FCS value and inserts it in the FCS fields in each DL RLP frames. The FCS values in the UL frames are irrelevant in the TTCN. The I frames are decoded and acknowledged in TTCN, and the other RLP frames are decoded and discarded in the default behaviour trees in TTCN.

7.3.7.2 GERAN cell

The RLP codec test model is not applied to GERAN cell in the interRAT test.

ASP and PCO for control primitives

Table 35: PCO CRLP

PCO Definition			
PCO Name	CRLP		
PCO Type	CSAP		
Role	LT		
Comment	Control RLP codec.		

ASP Name CRL		RLP_Config_REQ		
PCO Type	CRL	.P		
Comments	The ASP is used to activate of		or deactivate the RLP codec.	
Parameter Name		Parameter Type	Comments	
cellId		CellId	The cell which the RB identity belongs to	
rB_Identity		SS_RB_Identity	Identifier of the RB identity in the SS	
command		INTEGER	0: activate	
			1: deactivate	
Detailed Comments				

ASP Name	CRL	CRLP_Config_CNF		
PCO Type	CSAP			
Comments	For RLP codec to confirm that a previous attempt to activate or deactivate has been successful.			
Parameter Name				
Parameter Name		Parameter Type	Comments	
Parameter Name cellid		Parameter Type CellId	Comments The cell which the RB identity belongs to	

ASP and PCO for data transmission and reception

Table 36: PCO RLP declaration

PCO Type Definition			
PCO Name	RLP		
PCO Type	DSAP		
Role	LT		
Comment	Carry RLP frame.		

ASP Name	RLP	_FrameReq	
PCO Type	RLP		
Comments	The ASP is used to request the transmission of the RLP frame.		
Parameter Name		Parameter Type	Comments
cellId		CellId	
rB_Identity		SS_RB_Identity	Identifier of the RB identity in the SS
data		PDU	Meta type PDU
Detailed Comments			

ASP Name	RLP_FrameInd		
PCO Type	RLP		
Comments	The ASP is used to indicate the reception of an RLP frame.		
Parameter Name		Parameter Type	Comments
cellId		CellId	
rB_Identity		SS_RB_Identity	Identifier of the RB identity in the SS
data		PDU	Meta type PDU
Detailed Comments			

8 Design Considerations

8.1 Channel mapping

Figure 25 shows the channel type mapping that is used for the configuration of the SS.

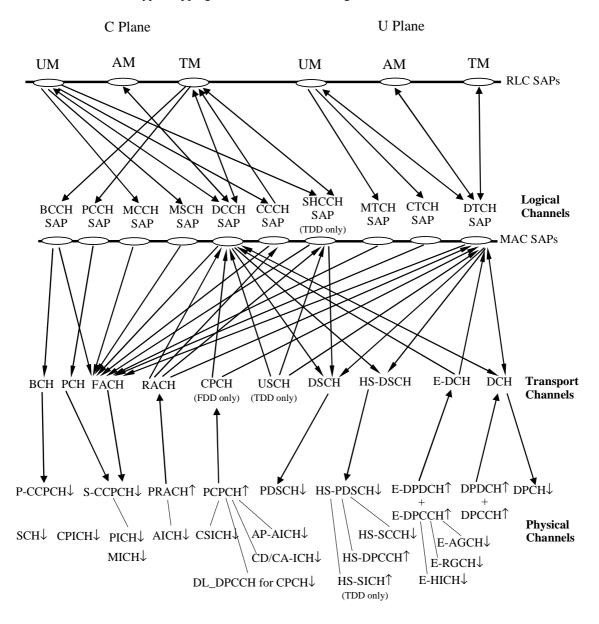


Figure 25: Channel mapping in SS-

8.2 Channel and RB identity

The TTCN addresses the TTCN tester by using a channel identifier:

- Either Physical channel identifier (PhyCh id); or
- Transport channel identifier (TrCh id); or
- Radio bearer identifier (RB id).

The selected channel identifier identifies uniquely:

- a channel within a cell;
- a total path of the address in the lower layers concerned.

Having taken out the cell id and PCO id (AM, UM and TM), a complete address, as RoutingInfo in the RRC ASP definition, should have at least five fields, CN domain id, RB id, LogCH id, TrCH id and PhyCH id. For simplified application of CHOICE of the routing information, a TTCN writer must carefully follow a number of rules assigning the channel identifiers.

General requirements:

- a structured scheme of planning all channel identifiers assigned;
- the scheme shall meet the requirements for all test cases in 3GPP TS 34.123-1 [1] including TDD channels;
- the scheme can apply to all radio bearer configurations in 3GPP TS 34.108 [3], clause 6.10;
- a clear multiplex mapping between a PhyCH id to TrCH ids and a TrCH id to LogCH ids, RB ids is needed.

Requirements on identification of RB in a test case:

- unique identification of the individual SRBs;
- unique identification of the individual sub-flows of a RABs in CS and PS domain.;
- an assigned RB id can represent UL and DL.

Requirements on identification of Logical Channel in a test case:

- it is an instance number of the individual logical channel; and
- uniquely identifies among all the Logical Channel mapped onto a Transport Channel.

Requirements on identification of Transport Channel in a test case:

- unique identification of the individual Transport Channel;
- assign different identities for UL and DL of a same Transport Channel type;
- the order of the Transport Channel id assigned in a cell shall follow the TFCS definitions in the 3GPP TS 34.108 [3], clause 6.10.

EXAMPLE: Transport Channel ids are assigned in the ascending order for (RABsubflow#1, RABsubflow#2, RABsubflow#3, 64kRAB, DCCH).

Requirements on identification of Physical Channel in a test case:

- unique identification of the individual Physical Channel;
- assign different identities for UL and DL of a same Physical Channel type;
- each S-CCPCH or PRACH has a unique identifier;
- for 2 Mbps PS data radio link (in case of demux of a Transport Channel), three DPCH are needed for high-speed data. A single Physical Channel id is assigned to a bundle of the three physical channels.

Table 37 shows which type of channel identity is chosen for the individual primitives. In table 37, the ASN.1 primitives use a CHOICE type for channel identity, while TTCN primitives use an explicit channel identity.

Table 37: Primitives and the associated channel identity type

Primitive name	Channel Identity	Releases
	ASN.1 Primitives	
CPHY_AICH_AckModeSet_CNF	Physical Channel Identity	
CPHY_AICH_AckModeSet_REQ	Physical Channel Identity	
CPHY_Cell_Config_CNF	No Routing Info Field Present	
CPHY_Cell_Config_REQ	No Routing Info Field Present	
CPHY_Cell_Ini_CNF	No Routing Info Field Present	
CPHY_Cell_Ini_REQ	No Routing Info Field Present	
CPHY_Cell_TxPower_Modify_CNF	No Routing Info Field Present	
CPHY_Cell_TxPower_Modify_REQ	No Routing Info Field Present	
CPHY_Cell_Release_CNF	No Routing Info Field Present	
CPHY_Cell_Release_REQ	No Routing Info Field Present	
CPHY_DetectTFCI_CNF	Physical Channel Identity	
CPHY_DetectTFCI_IND	Physical Channel Identity	
CPHY_DetectTFCI_REQ	Physical Channel Identity	
CPHY_Frame_Number_CNF	Physical Channel Identity	
CPHY_Frame_Number_REQ	Physical Channel Identity	D-1 0 1-4
CPHY_SFN_CNF	Physical Channel Identity	Rel-6 or later
CPHY_SFN_REQ	Physical Channel Identity	Rel-6 or later
CPHY_MBMS_MICH_q_CNF CPHY_MBMS_MICH_q_REQ	Physical Channel Identity	Rel-6 or later
CPHY_MBMS_MICH_q_REQ CPHY_MBMS_NI_CNF	Physical Channel Identity	Rel-6 or later
CPHY_MBMS_NI_CNF CPHY_MBMS_NI_REQ	Physical Channel Identity Physical Channel Identity	Rel-6 or later Rel-6 or later
CPHY_MBMS_NI_REQ CPHY_Out_of_Sync_IND	Physical Channel Identity Physical Channel Identity	Kei-o or later
CPHY_PRACH_Measurement_CNF	Physical Channel Identity Physical Channel Identity	
CPHY_PRACH_Measurement_REQ	Physical Channel Identity	+
CPHY_PRACH_Measurement_Report_IND	Physical Channel Identity	+
CPHY_RL_Modify_CNF	Physical Channel Identity	
CPHY_RL_Modify_REQ	Physical Channel Identity	
CPHY_RL_Release_CNF	Physical Channel Identity	
CPHY_RL_Release_REQ	Physical Channel Identity	
CPHY_RL_Setup_CNF	Physical Channel Identity	
CPHY_RL_Setup_REQ	Physical Channel Identity	
CPHY_Sync_IND	Physical Channel Identity	
CPHY_TrCH_Config_CNF	Physical Channel Identity	
CPHY_TrCH_Config_REQ	Physical Channel Identity	
CPHY_TrCH_Release_CNF	Physical Channel Identity	
CPHY_TrCH_Release_REQ	Physical Channel Identity	
CPHY_HS_DPCCH_AckNack_CNF	No Routing Info Field Present	Rel-5 or later
CPHY_HS_DPCCH_AckNack_REQ	No Routing Info Field Present	Rel-5 or later
CPHY_HS_DPCCH_AckNack_IND	No Routing Info Field Present	Rel-5 or later
CPHY_HS_DPCCH_CQI_CNF	No Routing Info Field Present	Rel-5 or later
CPHY_HS_DPCCH_CQI_REQ	No Routing Info Field Present	Rel-5 or later
CPHY_HS_DPCCH_CQI_IND	No Routing Info Field Present	Rel-5 or later
CPHY_HS_DSCH_CRC_Mode_CNF	Physical Channel Identity	Rel-5 or later
CPHY_HS_DSCH_CRC_Mode_REQ	Physical Channel Identity	Rel-5 or later
CPHY_HS_SICH_AckNack_CNF	No Routing Info Field Present	Rel-5 or later
		(LCR TDD)
CPHY_HS_SICH_AckNack_REQ	No Routing Info Field Present	Rel-5 or later
		(LCR TDD)
CPHY_HS_SICH_AckNack_IND	No Routing Info Field Present	Rel-5 or later
		(LCR TDD)
CPHY_HS_SICH_CQI_CNF	No Routing Info Field Present	Rel-5 or later
		(LCR TDD)
CPHY_HS_SICH_CQI_REQ	No Routing Info Field Present	Rel-5 or later
00107 110 01011 002 1117	N. B. d. 1 (5: 115	(LCR TDD)
CPHY_HS_SICH_CQI_IND	No Routing Info Field Present	Rel-5 or later
ODLIN III D	B) 1 10 11 11 11	(LCR TDD)
CPHY_UL_PowerModify_CNF	Physical Channel Identity	
CPHY_UL_PowerModify_REQ	Physical Channel Identity	
CMAC_BMC_Scheduling_CNF	Physical Channel Identity	
CMAC_BMC_Scheduling_REQ	Physical Channel Identity	
CMAC_Ciphering_Activate_CNF	Physical Channel Identity of DPCH	
CMAC_Ciphering_Activate_REQ	Physical Channel Identity of DPCH	

	DI : 101 111 6	1
CMAC_Config_CNF	Physical Channel Identity	
CMAC_Config_REQ	Physical Channel Identity	
CMAC_FACH_MeasOccas_CNF	Physical Channel Identity	
CMAC_FACH_MeasOccas_REQ	Physical Channel Identity	
CMAC_PAGING_Config_CNF	Physical Channel Identity	
CMAC_PAGING_Config_REQ	Physical Channel Identity	
CMAC_Restriction_CNF	Physical Channel Identity	
CMAC_Restriction_REQ	Physical Channel Identity	
CMAC_SecurityMode_Config_CNF	No Routing Info Field Present (applies to all RB lds)	
CMAC_SecurityMode_Config_REQ	No Routing Info Field Present (applies to all RB Ids)	
CMAC_SequenceNumber_CNF	Physical Channel Identity	
CMAC_SequenceNumber_REQ	Physical Channel Identity	
CMAC_SYSINFO_Config_CNF	RB Identity	
CMAC_SYSINFO_Config_REQ	RB Identity	
CMAC_MAChs_Reset_CNF	No Routing Info Field Present	Rel-5 or later
CMAC_MAChs_Reset_REQ	No Routing Info Field Present	Rel-5 or later
CMAC_MAChs_HARQprocAsign_CNF	No Routing Info Field Present	Rel-5 or later
CMAC_MAChs_HARQprocAsign_REQ	No Routing Info Field Present	Rel-5 or later
CMAC_MAChs_TFRCconfigre_CNF	No Routing Info Field Present	Rel-5 or later
		Rel-5 or later
CMAC_MAChs_TFRCconfigre_REQ	No Routing Info Field Present	
CMAC_MACe_Config_CNF	Node B Identity	Rel-6 or later
CMAC_MACe_Config_REQ	Node B Identity	Rel-6 or later
CMAC_MACe_NodeB_CellMapping_CNF	Node B Identity	Rel-6 or later
CMAC_MACe_NodeB_CellMapping_REQ	Node B Identity	Rel-6 or later
CMAC_MACes_Config_CNF	No Routing Info Field Present	Rel-6 or later
CMAC_MACes_Config_REQ	No Routing Info Field Present	Rel-6 or later
CMAC_MACe_AG_CNF	Node B Identity	Rel-6 or later
CMAC_MACe_AG_REQ	Node B Identity	Rel-6 or later
CMAC_MACe_AckNack_CNF	Node B Identity	Rel-6 or later
CMAC_MACe_AckNack_REQ	Node B Identity	Rel-6 or later
CMAC_MACe_RG_CNF	Node B Identity	Rel-6 or later
CMAC_MACe_RG_REQ	Node B Identity	Rel-6 or later
CMAC_MACe_E_TFC_Restriction_CNF	Node B Identity	Rel-6 or later
CMAC_MACe_E_TFC_Restriction_REQ	Node B Identity	Rel-6 or later
CMAC_MACes_SI_IND	No Routing Info Field Present	Rel-6 or later
CMAC_MACes_SI_Config_CNF	No Routing Info Field Present	Rel-6 or later
CMAC_MBMS_ConfigInfo_CNF	Physical Channel Identity	Rel-6 or later
CMAC_MBMS_ConfigInfo_REQ	Physical Channel Identity	Rel-6 or later
CRLC_Bind_TestData_TTI_CNF	No Routing Info Field Present	
CRLC_Bind_TestData_TTI_REQ	No Routing Info Field Present	
CRLC_Ciphering_Activate_CNF	No Routing Info Field Present (applies to all RB lds)	
CRLC_Ciphering_Activate_REQ	No Routing Info Field Present (applies to all RB lds)	
CRLC_MAC_I_Mode_CNF	RB Identity	
CRLC_MAC_I_Mode_REQ	RB Identity	
CRLC_Config_CNF	RB Identity	
CRLC_Config_REQ	RB Identity	
CRLC_Integrity_Activate_CNF	No Routing Info Field Present (applies to all RB lds)	
CRLC_Integrity_Activate_REQ	No Routing Info Field Present (applies to all RB lds)	
CRLC_Integrity_Failure_IND	RB Identity	
CRLC_NotAckNxtRxSDU_CNF	RB Identity	
CRLC_NotAckNxtRxSDU_REQ	RB Identity	
CRLC_ProhibitRLC_Ack_CNF	RB Identity	
CRLC_ProhibitRLC_Ack_REQ	RB Identity	
CRLC_Resume_CNF	RB Identity (applies to all suspended RB Ids)	
CRLC_Resume_REQ	RB Identity (applies to all suspended RB Ids)	
CRLC_RRC_MessageSN_CNF	RB Identity	
CRLC_RRC_MessageSN_REQ	RB Identity	
CRLC_SecurityMode_Config_CNF	No Routing Info Field Present (applies to all RB Ids)	
CRLC_SecurityMode_Config_CRF CRLC_SecurityMode_Config_REQ	No Routing Info Field Present (applies to all RB Ids)	
CRLC_SecurityMode_Corrig_REQ CRLC_SendContinuousData_CNF	No Routing Info Field Present (applies to all RB lds)	
CRLC_SendContinuousData_CNF CRLC_SendContinuousData_REQ	No Routing into Field Present	
CRLC_SendTestDataInOneMAC_Hs_PDU	RB Identity	Rel-5 or later
_CNF	IND Identity	ואפויט טו ומופו
CRLC_SendTestDataInOneMAC_Hs_PDU	RB Identity	Rel-5 or later
REQ	IND INCHILLY	ואפויט טו ומופו
_1\L\		

CRLC_SequenceNumber_CNF	RB Identity	
CRLC_SequenceNumber_REQ	RB Identity	
CRLC_SetRRC_MessageSN_CNF	RB Identity	
CRLC_SetRRC_MessageSN_REQ	RB Identity	
CRLC_Set_Count_I_CNF	RB Identity	
CRLC_Set_Count_I_REQ	RB Identity	
CRLC_Status_Ind	RB Identity	
CRLC_Suspend_CNF	RB Identity	
CRLC_Suspend_REQ	RB Identity	
CRLC_UM_MTCH_Scheduling_REQ	RB Identity	Rel-6 or later
CBMC_Config_CNF	RB Identity	
CBMC_Config_REQ	RB Identity	
RLC_AM_DATA_CNF	RB Identity	
RLC_AM_DATA_IND	RB Identity	
RLC_AM_DATA_REQ	RB Identity	
RLC_TR_DATA_IND	RB Identity	
RLC_TR_DATA_REQ	RB Identity	
RLC_UM_ACCESSinfo_REQ	RB Identity	Rel-6 or later
RLC_UM_CriticalMCCHMsg_REQ	RB Identity	Rel-6 or later
RLC_UM_DATA_IND	RB Identity	
RLC_UM_DATA_REQ	RB Identity	
RLC_UM_MSCH_Msg_REQ	RB Identity	Rel-6 or later
RLC_TR_MACesDATA_IND	RB Identity	Rel-6 or later
	TTCN Primitives	
RLC_AM_TestDataInd	RB Identity	
RLC_AM_TestDataReq	RB Identity	
RLC_TR_TestDataInd	RB Identity	
RLC_TR_TestDataReq	RB Identity	
RLC_UM_TestDataInd	RB Identity	
RLC_UM_TestDataReq	RB Identity	
BMC_DataReq	RB Identity	

8.2.1 Physical channels

Table 38: Physical channel identities

Туре	Min. No.	Current Config.	Identities (value assigned)	Direction	Comment
P-CCPCH	1	1	tsc_P_CCPCH (4)	downlink	Primary Common Control Physical Channel. For Broadcasting System Information messages, using the Primary Scrambling Code for the Cell.
P-CPICH	1	1	tsc_P_CPICH (0)	downlink	Primary Common Pilot Channel using the Primary Scrambling Code for the Cell.
S-CPICH	1	1	tsc_S_CPICH (3)	downlink	Secondary Common Pilot Channel, used as the phase reference for some RF tests.
P-SCH	1	1	tsc_P_SCH (1)	downlink	Primary Synchronization Channel
S-SCH	1	1	tsc_S_SCH (2)	downlink	Secondary Synchronization Channel
S-CCPCH	3	1	tsc_S_CCPCH1 (5) tsc_S_CCPCH2 (10) tsc_S_CCPCH3 (13)	downlink	Secondary Common Control Physical Channel.
PICH	1	1	tsc_PICH1 (6) tsc_PICH2 (11)	downlink	To identify whether the UE should access the PCCH for Paging Messages.

Туре	Min. No.	Current Config.	Identities (value assigned)	Direction	Comment
AICH	1	1	tsc_AICH1 (7) tsc_AICH2 (12)	downlink	General Acquisition Indicator Channel, can be used for: - Acquisition Indicator Channel, for PRACH - Access Preamble Acquisition Indicator Channel (AP-ICH), for PCPCH - Collision-Detection/Channel-Assignment Indicator Channel (CD/CA-ICH), for PCPCH
DPCH	3	1	tsc_DL_DPCH1 (26) tsc_DL_DPCH2 (27)	downlink	Downlink Physical Data Channel. Layer 1 signalling is transmitted only on the first DPCH. This number is for the First Cell. Additional Cells may define a lower number which should be at least 1.
DPDCH	1	1	tsc_UL_DPCH1 (20) tsc_UL_DPCH2 (21)	uplink	Uplink Dedicated Physical Channel. A single DPCCH associated with all the DPDCHs used for Layer 1 signalling.
PRACH	2	1	tsc_PRACH1 (8) tsc_PRACH2 (9)	uplink	Physical Random Access Channel.
PCPCH	1	FFS	, ,	uplink	Physical Common Packet Channel.
CSICH	1	FFS		downlink	CPCH Status Indicator Channel
HS-PDSCH	1		tsc_HSPDSCH(18)	downlink	Rel-5 or later High speed physical downlink shared channel
E-AGCH	1		tsc_E_AGCH (14)	downlink	Rel-6 or later E-DCH Absolute Grant Channel
E-HICH	1		tsc_E_HICH (15)	downlink	Rel-6 or later E-DCH HARQ Acknowledgement Indicator Channel
E-RGCH	1		tsc_E_RGCH (16)	downlink	Rel-6 or later E-DCH Relative Grant Channel
E-DPDCH	1		tsc_E_DPCH (22)	uplink	Rel-6 or later Enhanced Dedicated Physical Channel
F-DPCH	1		tsc_F_DPCH (28)	downlink	Rel-6 or later Fractional Dedicated Physical Channel
MICH	1		tsc_MICH (29)	downlink	Rel-6 or later MBMS notification Indicator Channel

The Physical Channel values 20 to 25 are assigned to uplink DPCHs and the values 26 to 31 are assigned to downlink DPCHs/ FDPCHs.

8.2.2 Transport channels

Table 39: Transport channel identities

Туре	Min. No.	Current Config.	Identities	Direction	Comments
			(value assigned)		
BCH	1	1	tsc_BCH1 (11)	downlink	
FACH	1	1	tsc_FACH1 (13)	downlink	
			tsc_FACH2 (14)		
			tsc_FACH3 (16)		
			tsc_FACH4 (17)		
			tsc_FACH5 (23)		
PCH	1	1	tsc_PCH1 (12)	downlink	
			tsc_PCH2 (30)		
DCH	n	4	tsc_UL_DCH1 (1)	uplink	tsc_UL_DCH1 for RAB1-1 or RAB1,
			tsc_UL_DCH2 (2)		tsc_UL_DCH2 for RAB1-2 or RAB2,
			tsc_UL_DCH3 (3)		tsc_UL_DCH3 for RAB1-3,
			tsc_UL_DCH4 (4)		tsc_UL_DCH4 RAB2,
			tsc_UL_DCH5 (5)		tsc_UL_DCH5 for SRB/RAB3,
			tsc_UL_DCH6 (21)		tsc_UL_DCH6 for SRB.
DCH	n	4	tsc_DL_DCH1 (6)	downlink	tsc_DL_DCH1 for RAB1-1 or RAB1,
			tsc_DL_DCH2 (7)		tsc_DL_DCH2 for RAB1-2 or RAB2,
			tsc_DL_DCH3 (8)		tsc_DL_DCH3 for RAB1-3,
			tsc_DL_DCH4 (9)		tsc_DL_DCH4 for RAB2,
			tsc_DL_DCH5 (10)		tsc_DL_DCH5 for SRB,
			tsc_DL_DCH6 (22)		tsc_DL_DCH6 for SRB.
USCH	1	N/A	tsc_USCH1(20)	uplink	TDD only
DSCH	1	N/A	tsc_DSCH (19)	downlink	
RACH	2	1	tsc_RACH1 (15)	uplink	
			tsc_RACH2 (31)		
CPCH	1	N/A	tsc_CPCH1(32)	uplink	
FAUSCH	N/A	N/A	tsc_FAUSCH1(18)	uplink	Not in Release 99
HSDSCH	1	1	N/A	downlink	Rel-5 or later
E-DCH	1	1	N/A	uplink	Rel-6 or later

8.2.2.1 Support of Default Configurations

In test cases using default configurations according to 3GPP TS 25.331 [21], clause 13.7, the configuration of the system simulator follows the same parameter values as defined for the UE side with the following exceptions:

- UL/DL transport channel ids;
- E-DCH MAC-d flow id / HS-DSCH MAC-d flow id.

As the transport channel identities and the MAC-d flow identities have the local significance, the TTCN implementations follow the test model.

8.2.3 Logical Channels

Table 40 shows the logical channels identities.

Table 40: Logical channel identities

Туре	Min. No.	Current Config.	Identities	Direction	Comments
			(value assigned)		
BCCH_BCH	1	1	tsc_BCCH1 (1)	downlink	
BCCH_FACH	1	1	tsc_BCCH6 (6)	downlink	
CCCH	1	1	tsc_DL_CCCH5 (5)	downlink	
CCCH	1	2	tsc_UL_CCCH5 (5)	uplink	
			tsc_UL_CCCH6 (6)	'	
DCCH	4	4	tsc_DL_DCCH1 (1)	downlink	tsc_DL_DCCH1 for SRB1,
			tsc_DL_DCCH2 (2)		tsc_DL_DCCH2 for SRB2,
			tsc_DL_DCCH3 (3)		tsc_DL_DCCH3 for SRB3,
			tsc_DL_DCCH4 (4)		tsc_DL_DCCH4 for SRB4,
			tsc_DL_DCCH5 (5)		tsc_DL_DCCH5 for SRB5
DCCH	4	4	tsc_UL_DCCH1 (1)	uplink	tsc_UL_DCCH1 for SRB1,
			tsc_UL_DCCH2 (2)	1	tsc_UL_DCCH2 for SRB2,
			tsc_UL_DCCH3 (3)		tsc_UL_DCCH3 for SRB3,
			tsc_UL_DCCH4 (4)		tsc_UL_DCCH4 for SRB4
PCCH	1	2	tsc_PCCH1 (1)	downlink	
			tsc_PCCH2 (2)		
DTCH	n	4	tsc_UL_DTCH1 (7)	uplink	tsc_UL_DTCH1 for RAB1-1 or RAB 1,
			tsc_UL_DTCH2 (8)		tsc_UL_DTCH2 for RAB1-2 or RAB 2,
			tsc_UL_DTCH3 (9)		tsc_UL_DTCH3 for RAB1-3'
			tsc_UL_DTCH4 (10)		tsc_UL_DTCH4 for RAB2,
			tsc_UL_DTCH5 (13)		tsc_UL_DTCH5 for RAB3
DTCH	n	4	tsc_DL_DTCH1 (7)	downlink	tsc_DL_DTCH1for RAB1-1 or RAB 1,
			tsc_DL_DTCH2 (8)		tsc_DL_DTCH2 for RAB1-2 or RAB 2,
			tsc_DL_DTCH3 (9)		tsc_DL_DTCH3 for RAB-3,
			tsc_DL_DTCH4 (10)		tsc_DL_DTCH4 for RAB2
CTCH	1	2	tsc_CTCH1 (11)	downlink	
			tsc_CTCH2 (12)		
MTCH	1	4	tsc_MTCH1(1)	downlink	MBMS_LogicalChIdentity
			tsc_MTCH2(2)		
			tsc_MTCH3(3)		
			tsc_MTCH4(4)		
MCCH	1	1	tsc_MCCH1(1)	downlink	One and only one for each cell
MSCH	0	1	tsc_MSCH1(1)	downlink	

8.2.4 Radio bearers

Identities (value assigned)	Direction	Туре	RLC mode	Service domain	Comments
tsc_RB_BCCH (-1)	downlink		TM	NA	BCCH-BCH
tsc_RB_PCCH (-2)	downlink		TM	NA	PCCH PCH
tsc_RB_BCCH_FACH (-3)	downlink		TM	NA	BCCH FACH
tsc_RB_2ndPCCH (-4)	downlink		TM	NA	Second PCCH PCH SCPCCH
tsc_RB_2ndCCCH (-5)	uplink		TM	NA	Second CCCH RACH PRACH
tsc_RB_UM_7_RLC (-10)	downlink	RAB	TM	CS	For UM RLC tests using 7 bit LIs
tsc_RB_UM_7_RLC (-10)	uplink	RAB	TM	CS	For UM RLC tests using 7 bit LIs
tsc_RB_UM_15_RLC (-11)	downlink	RAB	TM	CS	For UM RLC tests using 15 bit LIs
tsc_RB_UM_15_RLC (-11)	uplink	RAB	TM	CS	For UM RLC tests using 15 bit LIs
tsc_RB_AM_7_RLC (-12)	downlink	RAB	TM	CS	For AM RLC tests using 15 bit LIs
tsc_RB_AM_7_RLC (-12)	uplink	RAB	TM	CS	For AM RLC tests using 7 bit LIs
tsc_RB_AM_15_RLC (-13)	downlink	RAB	TM	CS	For AM RLC tests using 15 bit LIs
tsc_RB_AM_15_RLC (-13)	uplink	RAB	TM	CS	For AM RLC tests using 15 bit LIs
tsc_RB_DCCH_FACH_MAC (-14)	downlink	SRB3	TM	CS	For MAC tests using DCCH mapped to FACH
tsc_RB_DCCH_FACH_MAC (-14)	uplink	SRB3	TM	CS	For MAC tests using DCCH mapped to FACH

Identities	D:	—	RLC	Service	
(value assigned)	Direction	Туре	mode	domain	Comments
tsc_RB_DCCH_DCH_MAC (-15)	downlink	SRB3	TM	CS	For MAC tests using DCCH mapped to DCH
tsc_RB_DCCH_FACH_MAC (-15)	uplink	SRB3	TM	CS	For MAC tests using DCCH mapped to DCH
tsc_RB3_DCCH_RRC_(-16)	uplink	SRB3	AM	CS or PS	For RRC test cases to route UL NAS messages
tsc_RB_CCCH_FACH_MAC (-18)	downlink	SRB0	TM	CS or PS	For MAC test using downlink SRB0 on TM
tsc_RB_BCCH_FACH_RAB (-19)	downlink		TM	NA	BCCH FACH
tsc_RB_DTCH_E_DCH_MAC(-20)	uplink	RAB	TM	PS	For MAC_es_e tests
tsc_RB_DTCH_E_DCH_MAC1(-21)	uplink	RAB	TM	PS	For MAC_es_e tests
tsc_RB_DTCH_E_DCH_MAC2(-22)	uplink	RAB	TM	PS	For MAC_es_e tests
tsc_RB0 (0)	uplink	SRB0	TM	CS or PS	The service domain for which the most recent security negotiation took place. CCCH
tsc_RB0 (0)	downlink	SRB0	UM	CS or PS	СССН
tsc_RB1 (1)	uplink	SRB1	UM	CS or PS	DCCH
tsc_RB1 (1)	downlink	SRB1	UM	CS or PS	DCCH
tsc_RB2 (2)	uplink	SRB2	AM	CS or PS	DCCH
tsc_RB2 (2)	downlink	SRB2	AM	CS or PS	DCCH
tsc_RB3 (3)	uplink	SRB3	AM	CS or PS	DCCH
tsc_RB3 (3)	downlink uplink	SRB3 SRB4	AM	CS or PS CS or PS	DCCH DCCH
tsc_RB4 (4) tsc_RB4 (4)	downlink	SRB4 SRB4	AM AM	CS or PS	DCCH
tsc_RB5 (5)	uplink	SKD4	TM	C3 01 F3	DCCH
tsc_RB5 (5)	downlink		TM		DCCH
tsc_RB_MCCH(8)	downlink	SRB	UM	PS	Rei-6 or later
tsc_RB_MCCH_RLC_TR(-8)	downlink	SRB	TM	PS	Rel-6 or later
tsc_RB_MSCH(9)	downlink	SRB	UM	PS	Rel-6 or later
tsc_RB10 (10)	uplink	RAB#1-1	TM	CS	or RAB1
tsc_RB10 (10)	downlink	RAB#1-1	TM	CS	or RAB1
tsc_RB11 (11)	uplink	RAB#1-2	TM	CS	or RAB2
tsc_RB11 (11)	downlink	RAB#1-2	TM	CS	or RAB2
tsc_RB12 (12)	uplink	RAB#1-3	TM	CS	
tsc_RB12 (12)	downlink	RAB#1-3	TM	CS	
tsc_RB13 (13)	uplink	RAB#2	TM TM	CS	
tsc_RB13 (13) tsc_RB_MTCH1(14)	downlink downlink	RAB#2 RAB	UM	CS PS	Rel-6 or later, media contents
tsc RB MTCH2(15)	downlink	RAB	UM	PS	Rel-6 or later, media contents
tsc_RB_MTCH3(16)	downlink	RAB	UM	PS	Rel-6 or later, media contents
tsc_RB17 (17)	uplink	RAB#2	AM	PS	Rel-5 or later, 2nd AM RAB for HS
tsc_RB17 (17)	downlink	RAB#2	AM	PS	Rel-5 or later, 2nd AM RAB for HS
tsc_RB20 (20)	uplink	RAB#1	AM	PS	
tsc_RB20 (20)	downlink	RAB#1	AM	PS	
tsc_RB21 (21)	uplink	RAB#2	UM	PS	
tsc_RB21 (21)	downlink	RAB#2	UM	PS	
tsc_RB22 (22)	uplink	RAB#2	AM	PS	
tsc_RB22 (22)	downlink	RAB#2	AM	PS	Or d AM DAD (DO
tsc_RB23 (23)	uplink	RAB#2	AM	PS	2nd AM RAB for PS
tsc_RB23 (23)	downlink uplink	RAB#2	AM AM	PS PS	2nd AM RAB for PS 2nd AM RAB for PS
tsc_RB24 (24) tsc_RB24 (24)	downlink	RAB#2 RAB#2	AM	PS	2nd AM RAB for PS
tsc_RB24 (24)	uplink	RAB#2 RAB#1	AM	PS	Rel-5 or later:
160_11520 (20)	Ф	TO COM T	7 1111		DTCH on DPCH associated HS- DSCH Rel-6 or later:
tsc_RB25 (25)	downlink	RAB#1	AM	PS	DTCH on E-DCH Rel-5 or later DTCH on HS-DSCH
tsc_RB26 (26)	uplink	RAB#1	UM	PS	Rel-5 or later
tsc_RB26 (26)	downlink	RAB#1	UM	PS	Rel-5 or later
tsc_RB27 (27)	uplink	RAB#2	UM	PS	Rel-5 or later
tsc_RB27 (27)	downlink	RAB#2	UM	PS	Rel-5 or later
tsc_RB28 (28)	uplink	RAB#3	AM	PS	Rel-5 or later

Identities (value assigned)	Direction	Туре	RLC mode	Service domain	Comments
tsc_RB28 (28)	downlink	RAB#3	AM	PS	Rel-5 or later
tsc_RB29 (29)	downlink	SRB0	AM		RB Id for Radio bearer that carries the 2nd CCCH in the DL
tsc_RB30 (30)	downlink		UM		CTCH FACH
tsc_RB31 (31)	downlink		UM		Second CTCH FACH

The RB values 0 to 5 are used for the signalling bearers. The values 10 to 15 are assigned to the CS RAB sub-flows. The values 15 to 29 are assigned to the PS RAB sub-flows. The value 30 is assigned to the CBSMS/BMC service.

Table 41: RB identities mapping between 34.123-1 & 34.123-3

RAB Combinations	34.123-1	34.123-3
Single CS RAB	RB5	tsc_RB10
	RB6	tsc_RB11
	RB7	tsc_RB12
Single PS RAB	RB5	tsc_RB20
	RB7	tsc_RB20
	RB8	tsc_RB20
CS+PS Multi RABs	RB5	tsc_RB10
	RB6	tsc_RB11, tsc_RB20
	RB7	tsc_RB12
	RB8	tsc_RB20
	RB9	tsc_RB22
CS+CS Multi RABs	RB5	tsc_RB10
	RB6	tsc_RB11
	RB7	tsc_RB12
	RB8	tsc_RB13
PS+PS Multi RABs	RB5	tsc_RB20
	RB6	tsc_RB22
	RB7	tsc_RB20
	RB8	tsc_RB24
Single PS (HSDPA) RAB	RB5	tsc_RB25
PS+PS Multi (HSDPA) RAB	RB5	tsc_RB26
	RB6	tsc_RB27
	RB7	tsc_RB25
	RB8	tsc_RB28
	RB9	tsc_RB17
Single PS (HSUPA) RAB	RB5	tsc_RB25
CS + PS Multi (HSDPA/HSUPA)	RB5	tsc_RB10
RAB	RB6	tsc_RB11, tsc_RB25
	RB7	tsc_RB12
	RB8	tsc_RB25
	RB9	tsc_RB17

8.2.5 Scrambling and channelization codes

Table 42 shows the primary/secondary scrambling codes and the channelization codes for downlink channels.

Table 42: Primary/secondary scrambling codes and channelization codes for downlink channels

Туре	Identities (value assigned)	Primary scrambling code	Secondary scrambling code	Channelization Code
P-CCPCH	tsc_P_CCPCH (4)	(px_PriScrmCode+ 50 × (cell No -1)) mod 512, (px_PriScrmCode+20+ 50 × (cell No -21)) mod 512 for MBMS testing	NA	tsc_P_CCPCH_ChC (256:1)
P-CPICH	tsc_P_CPICH (0)	(px_PriScrmCode + 50 x (cell No -1)) mod 512, (px_PriScrmCode+20+ 50 x (cell No -21)) mod 512 for MBMS testing	NA	tsc_P_CPICH_ChC (256:0)
S-CCPCH	tsc_S_CCPCH1 (5)	(px_PriScrmCode + 50 × (cell No -1)) mod 512, (px_PriScrmCode+20+ 50 × (cell No -21)) mod 512 for MBMS testing	NA (carrying PCH)	tsc_S_CCPCH1_ChC (64:1 or 4 or 6 depending on the channels configuration) tsc_S_CCPCH1_ChC_MBMS (64:1) for MBMS testing
	tsc_S_CCPCH2 (10)	(px_PriScrmCode + 50 × (cell No -1)) mod 512, (px_PriScrmCode+20+ 50 × (cell No -21)) mod 512 for MBMS testing	NA (carrying PCH)	tsc_S_CCPCH2_ChC (64:1) tsc_S_CCPCH2_ChC_MBMS (256:9) for MBMS testing
	tsc_S_CCPCH3 (13)	(px_PriScrmCode + 50 × (cell No -1)) mod 512, (px_PriScrmCode+20+ 50 × (cell No -21)) mod 512 for MBMS testing	NA (carrying PCH)	tsc_S_CCPCH3_ChC (64:2) tsc_S_CCPCH3_ChC_MBMS (8:1 or 16:1 or 32:2 depending on the channels configuration) for MBMS testing
PICH	tsc_PICH1 (6)	(px_PriScrmCode + 50 x (cell No -1)) mod 512, (px_PriScrmCode+20+ 50 x (cell No -21)) mod 512 for MBMS testing	NA	tsc_PICH1_ChC (256:2)
	tsc_PICH2 (11)	(px_PriScrmCode + 50 × (cell No -1)) mod 512, (px_PriScrmCode+20+ 50 × (cell No -21)) mod 512 for MBMS testing	NA	tsc_PICH2_ChC (256:12)
AICH	tsc_AICH1 (7)	(px_PriScrmCode + 50 x (cell No -1)) mod 512, (px_PriScrmCode+20+ 50 x (cell No -21)) mod 512 for MBMS testing	NA	tsc_AlCH1_ChC (256:3)
	tsc_AICH2 (12)	(px_PriScrmCode + 50 × (cell No -1)) mod 512, (px_PriScrmCode+20+ 50 × (cell No -21)) mod 512 for MBMS testing	NA	tsc_AlCH2_ChC (256:13)
DPCH	tsc_DL_DPCH1 (26)	(px_PriScrmCode + 50 × (cell No -1)) mod 512, (px_PriScrmCode+20+ 50 × (cell No -21)) mod 512 for MBMS testing	tsc_DL_DPCH1_2ndScrC (1) This value is related to the primary scrambling code of the cell	Depending on the configuration: tsc_DL_DPCH1_ChC_SRB (128:9) tsc_DL_DPCH1_ChC_Speech (128:0) tsc_DL_DPCH1_ChC_Streaming (32:0) tsc_DL_DPCH1_ChC_64k_CS (32:0) tsc_DL_DPCH1_ChC_64k_PS (32:0)
	tsc_DL_DPCH2 (27)	(px_PriScrmCode + 50 × (cell No -1)) mod 512, (px_PriScrmCode+20+ 50 × (cell No -21)) mod 512 for MBMS testing	tsc_DL_DPCH2_2ndScrC (1) This value is related to the primary scrambling code of the cell	Depending on the configuration: tsc_DL_DPCH2_ChC_SRB (256:1) tsc_DL_DPCH2_ChC_Speech (128:1) tsc_DL_DPCH2_ChC_Streaming (32:1) tsc_DL_DPCH2_ChC_64k_CS (32:1) tsc_DL_DPCH2_ChC_64k_PS (32:1)
HS- PDSCH	tsc_HSPDSCH(18)	Same as HS-SCCH	Same as HS-SCCH	Rel-5 or later SF= 16 Number of codes depending on the configuration, at most 15 codes

HS-SCCH	NA	(px_PriScrmCode + 50 × (cell No -1)) mod 512, (px_PriScrmCode+20+ 50 × (cell No -21)) mod 512 for MBMS testing	-	Rel-5 or later tsc_HS_SCCH_ChC (128:7)
E-AGCH	tsc_E_AGCH (14)	(px_PriScrmCode + 50 × (cell No -1)) mod 512, (px_PriScrmCode+20+ 50 × (cell No -21)) mod 512 for MBMS testing	NA	Rel-6 or later
E-HICH	tsc_E_HICH (15)	(px_PriScrmCode + 50 × (cell No -1)) mod 512, (px_PriScrmCode+20+ 50 × (cell No -21)) mod 512 for MBMS testing	NA	Rel-6 or later
E-RGCH	tsc_E_RGCH (16)	(px_PriScrmCode + 50 × (cell No -1)) mod 512, (px_PriScrmCode+20+ 50 × (cell No -21)) mod 512 for MBMS testing	NA	Rel-6 or later
F-DPCH	tsc_F_DPCH (28)	(px_PriScrmCode + 50 × (cell No -1)) mod 512, (px_PriScrmCode+20+ 50 × (cell No -21)) mod 512 for MBMS testing	NA	Rel-6 or later
MICH	tsc_MICH (29)	(px_PriScrmCode+ 50 × (cell No -1)) mod 512, (px_PriScrmCode+20+ 50 × (cell No -21)) mod 512 for MBMS testing	NA	tsc_MICH_ChC (256:8)

Table 43 shows the scrambling codes, the signatures and the spreading factors for uplink channels.

Table 43: Scrambling codes, signatures and spreading factor for uplink channels

Туре	Identities (value assigned)	Scrambling code	Signature	Spreading factor
DPDCH	tsc_UL_DPCH1 (20)	(px_UL_ScramblingCode + 1000*(cell No -1)) MOD 16777216	NA	If only one DPDCH and depending on the configuration tsc_UL_DPDCH_SF_SRB (64) tsc_UL_DPDCH_SF_Speech (64) tsc_UL_DPDCH_SF_Streaming (16) tsc_UL_DPDCH_SF_64k_CS (16) tsc_UL_DPDCH_SF_64k_PS (16) If more than one DPDCH tsc_UL_DPDCH_SF_4 (4:1)
	tsc_UL_DPCH2 (21)	(px_UL_ScramblingCode + 1 000 x (cell No -1)) MOD 16 777 216	NA	If only one DPDCH and depending on the configuration tsc_UL_DPDCH_SF_SRB (64) tsc_UL_DPDCH_SF_Speech (64) tsc_UL_DPDCH_SF_Streaming (16) tsc_UL_DPDCH_SF_64k_CS (16) tsc_UL_DPDCH_SF_64k_PS (16) If more than one DPDCH tsc_UL_DPDCH_SF_4 (4:1)
PRACH	tsc_PRACH1 (8)	tsc_PRACH1_ScrC (0)	tsc_PRACH1_Signatures ('0000000011111111'B)	tsc_PRACH1_SF (64)
	tsc_PRACH2 (9)	tsc_PRACH2_ScrC (1)	tsc_PRACH2_Signatures ('0000000011111111'B)	tsc_PRACH2_SF (64)
HS- DPCCH	NA	Same as DPDCH	NA	Rel-5 or later Depending on the number of DPDCHs: If only one DPDCH: C _{256,64} ; If 2 or 4 or 6 DPDCHs: C _{256,1} ; If 3 or 5 DPDCHs: C _{256,32} .
E-DPCH	tsc_E_DPCH (22)	Same as DPDCH	NA	Rel-6 or later

8.2.6 MAC-d

MAC-d and the served RLC are cell-independent and are configured by using the cell-id = -1. During reconfigurations, cell changes and state transitions, the relevant counters in the RLC and MAC-d are maintained.

For the active set updating, the DL DCH with the same channel Id in the different cells are implicitly connected to form the DL multiple paths.

8.2.6.1 MAC-d configuration examples

The following example shows how the MAC and RLC ASP are used to configure different configurations.

The 1st parameter in ASP represents the cell identity; p_CellId corresponds to the current cell identity, tsc CellDedicated corresponds to the cell independent (-1). The 2nd parameter represents the channel Id, this parameter is not needed in the CRLC ASP).

1. Cell_DCH_StandAloneSRB: configuration of DL/UL-DPCH1

```
--- Cell concerned

( p_CellId, tsc_DL_DPCH1) -- Cell concerned

( p_CellId, tsc_DL_DPCH1) -- Cell concerned

( p_CellId, tsc_DL_DPCH1) -- Cell concerned

( tsc_CellDedicated, tsc_DL_DPCH1) -- Cell independent (-1)

( tsc_CellDedicated, tsc_DL_DPCH1) -- Cell independent (-1)

( p_CellId, tsc_UL_DPCH1) -- Cell concerned

( p_CellId, tsc_UL_DPCH1) -- Cell concerned

( p_CellId, tsc_UL_DPCH1) -- Cell concerned

( p_CellId, tsc_UL_DPCH1) -- Cell concerned
 CPHY!CPHY RL Setup REQ
 CPHY?CPHY_RL_Setup_CNF
CPHY!CPHY_TrCH_Config_REQ
  CPHY?CPHY_TrCH_Config_CNF (p_CellId, tsc_DL_DPCH1)
 CMAC ! CMAC_Config_REQ
CMAC ? CMAC_Config_CNF
 CPHY!CPHY_RL_Setup_REQ
CPHY?CPHY_RL_Setup_CNF
CPHY?CPHY_RL_Setup_CNF ( p_CellId, tsc_UL_DPCH1) -- Cell concerned
CPHY!CPHY_TrCH_Config_REQ ( p_CellId, tsc_UL_DPCH1 ) -- Cell concerned
CPHY?CPHY_TrCH_Config_CNF ( p_CellId, tsc_UL_DPCH1 ) -- Cell concerned
CMAC ! CMAC_Config_REQ ( tsc_CellDedicated, tsc_UL_DPCH1 ) -- Cell independent (-1)
CMAC ? CMAC_Config_CNF ( tsc_CellDedicated, tsc_UL_DPCH1 ) -- Cell independent (-1)
CRLC ! CRLC_Config_REQ ( tsc_CellDedicated ) -- Cell independent (-1)
CRLC ? CRLC_Config_CNF ( tsc_CellDedicated ) -- Cell independent (-1)
```

2. Cell_FACH: configuration of S-CCPCH1

```
( p_CellId, tsc_S_CCPCH1) -- Cell concerned ( p_CellId, tsc_S_CCPCH1) -- Cell concerned t ( p_CellId, tsc_S_CCPCH1) -- Cell concerned t ( p_CellId, tsc_S_CCPCH1) -- Cell concerned ( p_CellId, tsc_PICH1 -- Cell concerned ( p_CellId, tsc_PICH1) -- Cell concerned ( tsc_CellDedicated ) -- Cell independent ( tsc_CellDedicated ) -- Cell independent
CPHY!CPHY RL Setup REQ
CPHY?CPHY_RL_Setup_CNF
CPHY!CPHY_TrCH_Config_REQ
CPHY ? CPHY_TrCH_Config_CNF
CMAC ! CMAC_Config_REQ
CMAC ? CMAC_Config_CNF
CMAC ? CMAC_Config_CNF
CPHY!CPHY_RL_Setup_REQ
CPHY?CPHY_RL_Setup_CNF
CRLC ! CRLC_Config_REQ
CRLC ? CRLC_Config_CNF
                                                                                                                                                                                                                   -- Cell independent (-1)
                                                                                                                                                                                                                     -- Cell independent (-1)
```

3. Cell_FACH: configuration of P-CCPCH

```
( p_CellId, tsc_P_CPICH ) -- Cell concerned ( p_CellId, tsc_P_CPICH ) -- Cell concerned ( p_CellId, tsc_P_SCH) -- Cell concerned ( p_CellId, tsc_P_CCPCH) -- Cell concerned ( p_CellId)
 CPHY!CPHY RL Setup REQ
 CPHY?CPHY RL Setup CNF
CPHY!CPHY_RL_Setup_REQ
CPHY?CPHY_RL_Setup_CNF
 CPHY!CPHY_RL_Setup_REQ
CPHY?CPHY_RL_Setup_CNF
CPHY!CPHY_RL_Setup_REQ
CPHY?CPHY_RL_Setup_CNF
CPHY!CPHY_TrCH_Config_REQ
CPHY?CPHY_TrCH_Config_CNF
CMAC!CMAC_Config_REQ
CMAC?CMAC_Config_CNF
CRLC! CRLC_Config_REQ
CRLC? CRLC_Config_CNF
                                                                                                        ( p_CellId)
                                                                                                                                                                                                                            -- Cell concerned
                                                                                                       ( p_CellId)
                                                                                                                                                                                                                             -- Cell concerned
```

8.2.7 Configuration of compressed mode

8.2.7.1 UE Side

Two IE are available for the configuration of the compressed mode for the UE.

- a) DPCH_CompressedModeInfo.
- b) DPCH CompressedModeStatusInfo.

Compressed mode initiation at UE side can be divided into 2 steps:

- a) Downloading compressed mode parameters.
- b) Activating the compressed mode.

Both of them can be done in one shot.

8.2.7.2 SS Side

Compressed mode configuration at SS side shall be maintained the same status as that on the UE side. So there are 3 different types of compressed mode configuration states both on UE and SS side.

- Configuration of compressed mode parameters (Use of DPCH_CompressedModeInfo) without the activation.
- Configuration of compressed mode parameters and simultaneous activation (use of DPCH_CompressedModeInfo).
- Only activation (use of DPCH_CompressedModeStatusInfo).

If compressed mode parameters are to be downloaded to the UE without actually activation, it shall be configured on the SS side by any one of the following two procedures.

- If DPCH channel on which compressed mode is to be downloaded is not already configured, primitive "CPHY_RL_Setup_REQ", with "CphyRlSetupReq. PhysicalChannelInfo" which is of choice, chosen to dPCHInfo shall be called. The procedure is used to pre-configure all compressed patterns necessary for test, but deactivate the all patterns configured at the beginning of the test. This procedure has not been implemented in the TTCN.
- If DPCH channel on which compressed mode is to be downloaded is already configured, the primitive "CPHY_RL_Modify_REQ" with "CphyRlModifyReq. PhysicalChannelInfo" which is of choice, chosen to dPCHInfo shall be called. This procedure in generally used in the TTCN.

If compressed mode parameters are to be configured and simultaneously activated, the same procedure as for the configuration of compressed mode without activation shall be used.

Activation of the compressed mode, whose parameters are already configured shall be achieved by the primitive "CPHY_RL_Modify_REQ" with "CphyRlModifyReq. PhysicalChannelInfo" which is of choice, chosen to dpch_CompressedModeStatusInfo.

CELL_FACH)

8.2.8 Use of U-RNTI and C-RNTI

The uRNTI and cRNTI are optional when configuring the MAC (CMAC_Config_REQ). Table 44 gives indication on when uRNTI and cRNTI are needed.

P-CCPCH S-CCPCH with S-CCPCH **PRACH** with **PRACH DPCH** mapped DLwithout mapped mapped without DCCH/DTCH DL-DCCH/DTCH DL-DCCH/DTC mapped (UE in H (UE in DL-DCCH/DT (UE in cell_FACH) cell_DCH) cell_FACH) CH (UE in cell_DCH) uRNTI Omit Included cRNTI Included Included CMAC-Config_REQ OMIT both Download cRNTI OMIT both Download OMIT both OMIT both cRNTI and uRNTI

Table 44: cRNTI and uRNTI in CMAC-Config_REQ

In the case of DL-DCCH/DTCH mapped on S-CCPCH, cRNTI and uRNTI are downloaded to the MAC layer. As default, SS MAC shall use cRNTI as UE id. At the CMAC configuration of the beginning of test cases, the RLC payload size is configured, as default on cRNTI for the MAC header calculation. If uRNTI is to be used the SS RLC payload size shall be reconfigured as cRNTI and uRNTI do not have the same length (16 bits and 32 bits respectively).

CELL UPDATE CONFIRM or URA UPDATE CONFIRM shall be sent on DCCH at the test for the ciphering reason except the periodic update without carrying the UE identity information. In this case the CELL UPDATE CONFIRM or URA UPDATE CONFIRM is sent on CCCH at the test.

UE State (before cell update) **CELL UPDATE** CRLC_Reconf Valid UE ID Cell update cause **CONFIRM** RLC_Size Needed CELL_PCH / CELL_FACH **DCCH** U_RNTI Cell reselection Y (for DCCH) Periodical cell update CELL_PCH DCCH or CCCH U_RNTI CELL_FACH DCCH or CCCH C_RNTI Periodical cell update Ν CELL_PCH/URA_PCH DCCH U_RNTI Uplink data transmission CELL_PCH / URA_PCH DCCH UTRAN paging response Υ U RNTI CELL PCH/URA PCH U RNTI Re-entered service area **DCCH** Υ Re-entered service area CELL_FACH **DCCH** Ν C_RNTI Radio Link failure CELL_DCH **DCCH** U_RNTI RLC_unrecoverable error CELL_DCH / CELL_FACH **DCCH** U_RNTI N (selected the C RNTI same cell in

Table 45: Relationship between cell update cause, UE state and RLC size reconfiguration

8.3 Channels configurations

8.3.1 Configuration of Cell_FACH

The configuration is based on 3GPP TS 34.108 [3], clause 6.10.2.4.3.2.1.2 for downlink and 3GPP TS 34.108 [3], clause 6.10.2.4.4.1.1.1 for uplink. The configuration is applied to the RRC tests related in the states CELL_FACH, CELL_PCH and URA_PCH. They need a minimum radio configuration for testing.

Table 46: Uplink configuration of Cell_FACH

RB Identity	tsc_RB20	tsc_RB0	tsc_RB1	tsc_RB2	tsc_RB3	tsc_RB4		
NB Identity	(20)	(0)	(1)	(2)	(3)	(4)		
LogCh Type	DTCH	CCCH	DCCH	DCCH	DCCH	DCCH		
LogCh Identity	Tsc_UL_DTCH1	tsc_UL_CCCH5	tsc_UL_DCCH1	tsc_UL_DCCH2	tsc_UL_DCCH3	tsc_UL_DCCH4		
Logon identity	(7)	(5)	(1)	(2)	(3)	(4)		
RLC mode	AM	TM	UM	AM	AM	AM		
TrCH Type			RAC	Н				
TrCH identity	tsc_RACH1							
Tron identity	(15)							
PhyCh Type	PRACH							
PhyCH identity	tsc_PRACH1							
Filyon identity	_ (8)							

Table 47: Downlink configuration of Cell_FACH

RB Identity	tsc_RB20 (20)	tsc_RB0 (0)	tsc_RB1 (1)	tsc_RB2 (2)	tsc_RB3 (3)	tsc_RB4 (4)	tsc_RB_BC CH_FACH (-3)	tsc_RB_PC CH (-2)
LogCh Type	DTCH	CCCH	DCCH	DCCH	DCCH	DCCH	BCCH	PCCH
LogCh Identity	tsc_DL_DT CH1 (7)	tsc_DL_CC CH5 (5)	tsc_DL_DC CH1 (1)	tsc_DL_DC CH2 (2)	tsc_DL_DC CH3 (3)	tsc_DL_DC CH4 (4)	tsc_BCCH6 (6)	tsc_PCCH1 (1)
RLC mode	AM	UM	UM	AM	AM	AM	TM	TM
MAC priority	1	1	2	3	4	5	6	1
TrCH Type	FACH			FAG	CH			PCH
TrCH identity	tsc_FACH2 (14)		tsc_FACH1 (13)					tsc_PCH1 (12)
PhyCh Type		Secondary CCPCH						
PhyCH identity				tsc_S_C (5				

8.3.2 Configuration of Cell_DCH_StandAloneSRB

The configuration is based on 3GPP TS 34.108 [3], clause 6.10.2.4.1. 3. The RB0/UM-CCCH is referred to 3GPP TS 34.108 [3], clause 6.10.2.4.3.2.1.2 and RB0/TM-CCCH is referred to 3GPP TS 34.108 [3], clause 6.10.2.4.4.1.1.1. The configuration is applied to the RRC and NAS signalling tests in the DCH state without RAB.

Table 48: Uplink configuration of Cell_DCH_StandAloneSRB

PR Identity	tsc_RB1	tsc_RB2	tsc_RB3	tsc_RB4	tsc_RB0		
RB Identity	(1)	(2)	(3)	(4)	(0)		
LogCh Type	DCCH	DCCH	DCCH	DCCH	CCCH		
LogCh Identity	tsc_UL_DCCH1	tsc_UL_DCCH2	tsc_UL_DCCH3	tsc_UL_DCCH4	tsc_UL_CCCH5		
Logon identity	(1)	(2)	(3)	(4)	(5)		
RLC mode	UM	AM	AM	AM	TM	AM	
TrCH Type		DC	CH		RACH		
TrCH identity		tsc_UL_ (5	tsc_RACH1 (15)				
PhyCh Type	DPDCH			DPDCH PRACH		СН	
PhyCH identity	tsc_UL_DPCH1						

Table 49: Downlink configuration of Cell_DCH_StandAloneSRB

RB Identity	tsc_RB1	tsc_RB2	tsc_RB3	tsc_RB4	tsc_RB0	tsc_RB_PCCH	
NB Identity	(1)	(2)	(3)	(4)	(0)	(-2)	
LogCh Type	DCCH	DCCH	DCCH	DCCH	CCCH	PCCH	
	tsc_DL_DCCH	tsc_DL_DCCH	tsc_DL_DCCH	tsc_DL_DCCH	tsc_DL_CCCH	too DCCU1	
LogCh Identity	1	2	3	4	5	tsc_PCCH1	
	(1)	(2)	(3)	(4)	(5)	(1)	
RLC mode	UM	AM	AM	AM	UM	TM	AM
MAC priority	1	2	3	4	1	1	1
TrCH Type		DC	CH		FACH	PCH	FACH
TrCH identity		tsc_DL	_DCH5		tsc_FACH1	tsc_PCH1	tsc_FACH2
Tron identity		(1	0)	(13)	(12)	(14)	
PhyCh Type	DPCH			Secondary CCPCH			
PhyCH identity			DL_DPCH1 tsc_S_CCPCH1 (26) (5)				

8.3.3 Configuration of Cell_DCH_Speech

The configuration is based on 3GPP TS 34.108 [3], clauses 6.10.2.4.1.4 and 6.10.2.4.1.5. The RB0/UM-CCCH is referred to 3GPP TS 34.108 [3], clause 6.10.2.4.3.2.1.2 and RB0/TM-CCCH is referred to 3GPP TS 34.108 [3], clause 6.10.2.4.4.1.1.1. The configuration is applied to those RRC and NAS signalling tests in the DCH state where a CS voice service, such as narrowband speech, emergency speech call or TS 61 for speech, is established.

Table 50: Uplink configuration of Cell_DCH_Speech

RB Identity	tsc_RB10 (10)	tsc_RB11 (11)	tsc_RB12 (12)			
LogCh Type	DTCH	DTCH	DTCH	Como oo unlink	Como oo unlink	
LogCh Identity	tsc_UL_DTCH1 (7)	tsc_UL_DTCH2 (8)	tsc_UL_DTCH3 (9)	Same as uplink configuration of Cell_DCH_StandAlo	Same as uplink configuration of	
RLC mode	TM	TM	TM	neSRB on DPCH	eSRB on PRACH	
TrCH Type	DCH	DCH	DCH	HESIND OILD CIT	eond oil i naoil	
TrCH identity	tsc_UL_DCH1 (1)	tsc_UL_DCH2 (2)	tsc_UL_DCH3 (3)			
PhyCh Type		PRACH				
PhyCH identity		DPDCH tsc_UL_DPCH1 (20)				

Table 51: Downlink configuration of Cell_DCH_Speech

RB Identity	tsc_RB10 (10)	tsc_RB11 (11)	tsc_RB12 (12)		
LogCh Type	DTCH	DTCH	DTCH		
LogCh Identity	tsc_DL_DTCH1 (7)	tsc_DL_DTCH2 (8)	tsc_DL_DTCH3 (9)	Same as downlink configuration of	Same as downlink configuration of Cell_DCH_StandAlo
RLC mode	TM	TM	TM	Cell_DCH_StandAlo	
MAC priority	1	1	1	neSRB on DPCH	neSRB on sCCPCH
TrCH Type	DCH	DCH	DCH		
TrCH identity	tsc_DL_DCH1 (6)	tsc_DL_DCH2 (7)	tsc_DL_DCH3 (8)		
PhyCh Type	(-/	Secondary CCPCH			
PhyCH identity	tsc_DL_DPCH1 (26)				tsc_S_CCPCH1

8.3.4 Configuration of Cell_DCH_64kCS_RAB_SRB

The configuration is based on 3GPP TS 34.108 [3], clause 6.10.2.4.1.13 for the conversational unknown quality class. The RB0/UM-CCCH is referred to 3GPP TS 34.108 [3], clause 6.10.2.4.3.2.1.2 and RB0/TM-CCCH is referred to 3GPP TS 34.108 [3], clause 6.10.2.4.4.1.1.1. The configuration is applied to those RRC and NAS signalling tests in the DCH state where one of the following CS transparent data services is established:

- Multimedia call 28,8 kbit/s, 3,1 kHz Audio;
- Multimedia call 32 kbit/s, UDI;
- Multimedia call 33,6 kbit/s, 3,1 kHz Audio;
- Multimedia call 56 kbit/s, RDI;
- Multimedia call 64 kbit/s, UDI;
- Asynchronous 3,1 kHz Audio 28,8 kbit/s;
- Synchronous 3,1 kHz Audio 28,8 kbit/s;
- Synchronous V.110 UDI up to 56 kbit/s;
- BTM RDI 56 kbit/s;
- BTM UDI 64 bit/s.

Table 52: Uplink configuration of Cell_DCH_64kCS_RAB_SRB

RB Identity	tsc_RB10 (10)		
LogCh Type	DTCH		
LogCh	tsc_UL_DTCH1	Same as uplink configuration	Same as uplink configuration
Identity	(7)	of Cell_DCH_StandAloneSRB	of Cell_DCH_StandAloneSRB
RLC mode	TM	on DPCH	on PRACH
TrCH Type	DCH		
TrCH	tsc_UL_DCH1		
identity	(1)		
PhyCh Type		DPDCH	PRACH
PhyCH	tsc	_UL_DPCH1	tsc_PRACH1
identity		(20)	(8)

Table 53: Downlink configuration of Cell_DCH_64kCS_RAB_SRB

RB	tsc_RB10				
Identity	(10)				
LogCh Type	DTCH				
LogCh Identity	tsc_DL_DTCH 1 (7)	Same as downlink configuration of	Same as downlink configuration of		
RLC mode	TM	Cell_DCH_StandAloneSRB on DPCH	Cell_DCH_StandAloneSRB on sCCPCH		
MAC priority	1				
TrCH Type	DCH				
TrCH	tsc_DL_DCH1				
identity	(6)				
PhyCh		DPCH	Secondary CCPCH		
Type		DPCH	Secondary CCPCH		
PhyCH		tsc_DL_DPCH1	tsc_S_CCPCH1		
identity		(26)	(5)		

8.3.5 Configuration of Cell_DCH_57_6kCS_RAB_SRB

The configuration is based on 3GPP TS 34.108 [3], clause 6.10.2.4.1.17 for the streaming unknown quality class. The RB0/UM-CCCH is referred to 3GPP TS 34.108 [3], 6.10.2.4.3.2.1.2 and RB0/TM-CCCH is referred to 3GPP TS 34.108 [3], clause 6.10.2.4.4.1.1.1. The configuration is applied to those RRC and NAS signalling tests in the DCH state where one of the following CS non-transparent data services is established:

- Asynchronous 3,1 kHz Audio up to 19,2 kbit/s;
- Asynchronous 3,1 kHz Audio modem auto-bauding;
- Asynchronous V.110 UDI up to 38,4 kbit/s, except 28,8 kbit/s;
- Asynchronous V.120 up to 56 kbit/s;
- Asynchronous PIAFS up to 64 kbit/s;
- Asynchronous FTM up to 64 kbit/s;
- Synchronous 3,1 kHz Audio up to 19,2 kbit/s;
- Synchronous V.110 UDI up to 56 kbit/s, except 28,8 kbit/s;
- Synchronous X.31 Flags Stuffing UDI up to 56 kbit/s;
- Synchronous V.120 up to 56 kbit/s;
- Synchronous BTM up to 64 kbit/s;
- TS61 FAX.

Table 54: Uplink configuration of Cell_DCH_57_6kCS_RAB_SRB

RB Identity	tsc_RB10 (10)		
LogCh Type	DTCH	Same as unlink configuration of	Some as unlink configuration of
LogCh Identity	tsc_UL_DTCH1 (7)	Same as uplink configuration of Cell_DCH_StandAloneSRB on DPCH	Same as uplink configuration of Cell_DCH_StandAloneSRB on PRACH
RLC mode	TM	DPCH	FRACII
TrCH Type	DCH		
TrCH	tsc_UL_DCH1		
identity	(1)		
PhyCh		DPDCH	PRACH
Type		DI DETI	TRACTI
PhyCH		tsc_UL_DPCH1	tsc_PRACH1
identity		(20)	(8)

Secondary CCPCH

tsc_S_CCPCH1

(5)

identity

PhyCh

Type PhyCH

identity

tsc_RB10 **RB** Identity (10)LogCh **DTCH Type** LogCh tsc DL DTCH1 Same as downlink configuration of Same as downlink configuration of Identity (7)Cell_DCH_StandAloneSRB on Cell_DCH_StandAloneSRB on RLC mode ŤΜ **DPCH** sCCPCH MAC 1 priority TrCH Type DCH TrCH tsc_DL_DCH1

Table 55: Downlink configuration of Cell_DCH_57_6kCS_RAB_SRB

8.3.6 Configuration of Cell_RLC_DCH_ RAB

DPCH

tsc_DL_DPCH1

(26)

(6)

The configuration is based on 3GPP TS 34.108 [3], clauses 6.11.1, 6.11.2, 6.11.3, and 6.11.4 for the RLC AM and UM tests with 7 and 15 bit length indicators. The RB0/UM-CCCH is referred to 3GPP TS 34.108 [3], clause 6.10.2.4.3.2.1.2 and RB0/TM-CCCH is referred to 3GPP TS 34.108 [3], clause 6.10.2.4.4.1.1.1.

The RB Ids used for the DTCH depend on the RLC mode and length indicator size being simulated (reference clause 6.5.2, RLC test method). Table 56 shows the test suite constants used for each RLC mode, and length indicator size.

Table 56: RB Ids used for DTCH depending on RLC mode and LI size

RLC mode	LI Size	TSC	RB Id
UM	7	tsc_RB_UM_7_RLC	-10
UM	15	tsc_RB_UM_15_RLC	-11
AM	7	tsc_RB_AM_7_RLC	-12
AM	15	tsc_RB_AM_15_RLC	-13

Table 57: Uplink configuration of Cell_RLC_DCH_RAB

RB Identity	See table 56		
LogCh Type	DTCH		
LogCh	tsc_UL_DTCH1	Same as uplink configuration of	Same as uplink configuration of
Identity	(7)	Cell_DCH_StandAloneSRB on	Cell_DCH_StandAloneSRB on
RLC mode	TM	DPCH	PRACH
TrCH Type	DCH		
TrCH	tsc_UL_DCH1		
identity	(1)		
PhyCh		DPDCH	PRACH
Type		DEDCIT	FRACII
PhyCH		tsc_UL_DPCH1	tsc_PRACH1
identity		(20)	(8)

Table 58: Downlink configuration of Cell_RLC_DCH_RAB

RB Identity	See table 56		
LogCh Type	DTCH		
LogCh Identity	tsc_DL_DTCH1 (7)		Same as downlink configuration of
RLC mode	TM	Same as downlink configuration of Cell_DCH_StandAloneSRB on DPCH	Cell_DCH_StandAloneSRB on sCCPCH
MAC priority	1		3001 011
TrCH Type	DCH		
TrCH identity	tsc_DL_DCH1 (6)		
PhyCh Type		DPCH	Secondary CCPCH
PhyCH identity		tsc_DL_DPCH1 (26)	tsc_S_CCPCH1 (5)

8.3.7 Configuration of Cell_FACH_BMC

The configuration is based on 3GPP TS 34.108 [3], clause 6.10.2.4.3.2.1.2 for downlink and 3GPP TS 34.108 [3], clause 6.10.2.4.4.1.1.1 without RAB/DTCH for uplink. A RB30/CTCH is configured. The configuration is applied to the BMC and CBSMS tests.

The uplink configuration of Cell_FACH_BMC is the same as the uplink configuration of Cell_FACH.

Table 59: Downlink configuration of Cell_FACH_BMC

RB Identity		tsc_RB0 (0)	tsc_RB1 (1)	tsc_RB2 (2)	tsc_RB3 (3)	tsc_RB4 (4)	tsc_RB_BCC H_FACH (-3)	Tsc_RB30 (30)	tsc_RB_PCCH (-2)
LogCh Type		СССН	DCCH	DCCH	DCCH	DCCH	вссн	СТСН	PCCH
LogCh Identity		tsc_DL_ CCCH5 (5)	tsc_DL_ DCCH1 (1)	tsc_DL_ DCCH2 (2)	tsc_DL_ DCCH3 (3)	tsc_DL_ DCCH4 (4)	tsc_BCCH6 (6)	Tsc_CTCH (11)	tsc_PCCH1 (1)
RLC mode	AM	UM	UM	AM	AM	AM	TM	UM	TM
MAC priority	1	1	1 2 3 4 5 6 7					1	
TrCH Type	FACH	FACH FACH						PCH	
TrCH identity	tsc_FACH2 tsc_FACH1 (13)						tsc_PCH1 (12)		
PhyCh Type	Secondary CCPCH								
PhyCH identity		tsc_S_CCPCH1 (5)							

8.3.8 Configuration of PS Cell_DCH_64kPS_RAB_SRB and Cell_PDCP_AM_RAB

The configuration is based on 3GPP TS 34.108 [3], clause 6.10.2.4.1.26. The RB0/UM-CCCH is referred to 3GPP TS 34.108 [3], clause 6.10.2.4.3.2.1.2 and RB0/TM-CCCH is referred to 3GPP TS 34.108 [3], clause 6.10.2.4.4.1.1.1. The configuration is applied to those RRC and NAS signalling tests in the DCH state where a PS RAB on DTCH is setup for the interactive or background service class. The configuration is applied to PDCP test cases in acknowledge mode.

Table 60: Uplink configuration of PS Cell_DCH_64kPS_RAB_SRB SRB and Cell_PDCP_AM_RAB

RB Identity	tsc_RB20 (20)		
LogCh Type	DTCH		
LogCh Identity	tsc_UL_DTC H1 (7)	Same as uplink configuration of Cell_DCH_StandAloneSRB on	Same as uplink configuration of Cell_DCH_StandAloneSRB on
RLC mode	AM	DPCH	PRACH
TrCH Type	DCH		
TrCH identity	tsc_UL_DCH 1 (1)		
PhyCh Type		DPDCH	PRACH
PhyCH identity		tsc_UL_DPCH1 (20)	tsc_PRACH1 (8)

Table 61: Downlink configuration of PS Cell_DCH_64kPS_RAB_SRB SRB and Cell_PDCP_AM_RAB

RB Identity	tsc_RB20 (20)		
LogCh Type	DTCH		
LogCh Identity	tsc_DL_DTC H1 (7)	Same as downlink configuration of Cell DCH StandAloneSRB on	Same as downlink configuration of Cell_DCH_StandAloneSRB on
RLC mode	AM	DPCH	sCCPCH
MAC priority	1	DI GIT	3001 011
TrCH Type	DCH		
TrCH identity	tsc_DL_DCH 1 (6)		
PhyCh Type		DPCH	Secondary CCPCH
PhyCH identity		tsc_DL_DPCH1 (26)	tsc_S_CCPCH1 (5)

8.3.9 Configuration of Cell_Two_DTCH

The configuration is based on 3GPP TS 34.108 [3], clauses 6.10.2.4.1.6 to 6.10.2.4.1.11. The RB0/UM-CCCH is referred to 3GPP TS 34.108 [3], clause 6.10.2.4.3.2.1.2 and RB0/TM-CCCH is referred to 3GPP TS 34.108 [3], clause 6.10.2.4.4.1.1.1. The configuration is applied to RB tests.

Table 62: Uplink configuration of Cell_Two_DTCH

RB Identity	tsc_RB10 (10)	tsc_RB11 (11)		
LogCh Type	DTCH	DTCH		
LogCh Identity	tsc_UL_DTCH 1 (7)	tsc_UL_DTCH 2 (8)	Same as uplink configuration of Cell_DCH_StandAloneSRB on DPCH	Same as uplink configuration of Cell_DCH_StandAloneSRB on
RLC mode	TM	TM		PRACH
TrCH Type	DCH	DCH		
TrCH	tsc_UL_DCH1	tsc_UL_DCH2		
identity	(1)	(2)		
PhyCh Type	DPCH			PRACH
PhyCH		tsc_L	tsc_PRACH1	
identity			(20)	(8)

Table 63: Downlink configuration of Cell_Two_DTCH

RB Identity	tsc_RB10	tsc_RB11		
KB Identity	(10)	(11)		
LogCh Type	DTCH	DTCH		
LogCh Identity	tsc_DL_DTCH1	tsc_DL_DTCH2	Come as downlink configuration of	Same as downlink configuration of
LogCh identity	(7)	(8)	Same as downlink configuration of Cell_DCH_StandAloneSRB on	Cell_DCH_StandAloneSRB on
RLC mode	TM	TM	DPCH	sCCPCH
MAC priority	1	1	DECIT	SCOPOLI
TrCH Type	DCH	DCH		
TrCH identity	tsc_DL_DCH1	tsc_DL_DCH2		
TICH Identity	(6)	(7)		
PhyCh Type		DI	Secondary CCPCH	
PhyCH identity		tsc_DL	_DPCH1	tsc_S_CCPCH1
FilyCh identity		(26)	(5)

8.3.10 Configuration of Cell_Single_DTCH (CS)

The configuration is based on 3GPP TS 34.108 [3], clauses 6.10.2.4.1.12 to 6.10.2.4.1.22. The RB0/UM-CCCH is referred to 3GPP TS 34.108 [3], clause 6.10.2.4.3.2.1.2 and RB0/TM-CCCH is referred to 3GPP TS 34.108 [3], clause 6.10.2.4.4.1.1.1. The configuration is applied to RB tests.

Table 64: Uplink configuration of Cell_Single_DTCH (CS)

RB Identity	tsc_RB10 (10)		
LogCh Type	DTCH		
LogCh	tsc_UL_DTCH1	Same as uplink configuration of	Same as uplink configuration of
Identity	(7)	Cell_DCH_StandAloneSRB on	Cell_DCH_StandAloneSRB on
RLC mode	TM	DPCH	PRACH
TrCH Type	DCH		
TrCH	tsc_UL_DCH1		
identity	(1)		
PhyCh Type		DPDCH	PRACH
PhyCH		tsc_UL_DPCH1	tsc_PRACH1
identity		(20)	(8)

Table 65: Downlink configuration of Cell_Single_DTCH (CS)

RB Identity	tsc_RB10 (10)		
LogCh Type	DTCH		
LogCh Identity	tsc_DL_DTCH1 (7)	Same as downlink configuration of	Same as downlink configuration of
RLC mode	TM	Cell_DCH_StandAloneSRB on DPCH	Cell_DCH_StandAloneSRB on sCCPCH
MAC priority	1	DPCП	SCOPCH
TrCH Type	DCH		
TrCH identity	tsc_DL_DCH1 (6)		
PhyCh Type		DPCH	Secondary CCPCH
PhyCH identity		tsc_DL_DPCH1 (26)	tsc_S_CCPCH1 (5)

8.3.11 Configuration of PS Cell_PDCP_UM_RAB

The configuration is based on 3GPP TS 34.108 [3], clause 6.10.2.4.1.26. The RB0/UM-CCCH is referred to 3GPP TS 34.108 [3], clause 6.10.2.4.3.2.1.2 and RB0/TM-CCCH is referred to 3GPP TS 34.108 [3], clause 6.10.2.4.4.1.1.1. The configuration is applied to PDCP test cases in unacknowledge mode.

Table 66: Uplink configuration of PS Cell_PDCP_UM_RAB

RB Identity	tsc_RB21 (21)		
LogCh Type	DTCH		
LogCh	tsc_UL_DTCH1	Same as uplink configuration of	Same as uplink configuration of
Identity	(7)	Cell_DCH_StandAloneSRB on	Cell_DCH_StandAloneSRB on
RLC mode	UM	DPCH	PRACH
TrCH Type	DCH		
TrCH identity	tsc_UL_DCH1 (1)		
PhyCh Type		DPDCH	PRACH
PhyCH		tsc_UL_DPCH1	tsc_PRACH1
identity		(20)	(8)

Table 67: Downlink configuration of PS Cell_PDCP_UM_RAB

RB Identity	tsc_RB21 (21)		
LogCh Type	DTCH		
LogCh Identity	tsc_DL_DTCH1 (7)	Same as downlink configuration of Cell DCH StandAloneSRB on	Same as downlink configuration of Cell DCH StandAloneSRB on
RLC mode	UM	DPCH	sCCPCH
MAC priority	1	DFGIT	SOCFOIT
TrCH Type	DCH		
TrCH	tsc_DL_DCH1		
identity	(6)		
PhyCh		DPCH	Secondary CCPCH
Type		DECIT	Secondary CCFCI1
PhyCH		tsc_DL_DPCH1	tsc_S_CCPCH1
identity		(26)	(5)

8.3.12 Configuration of PS Cell_PDCP_AM_UM_RAB

The configuration is based on 3GPP TS 34.108 [3], clause 6.10.2.4.1.26. The RB0/UM-CCCH is referred to 3GPP TS 34.108 [3], clause 6.10.2.4.3.2.1.2 and RB0/TM-CCCH is referred to 3GPP TS 34.108 [3], clause 6.10.2.4.4.1.1.1. The configuration is applied to PDCP test cases using both the acknowledged and unacknowledged mode.

Table 68: Uplink configuration of PS Cell_PDCP_AM_UM_RAB

RB Identity	tsc_RB20	tsc_RB21		
KB identity	(20)	(21)		
LogCh Type	DTCH	DTCH		
LogCh	tsc_UL_DTCH1	tsc_UL_DTCH2	Same as uplink configuration of	Same as uplink configuration of
Identity	(7)	(8)	Cell_DCH_StandAloneSRB on	Cell_DCH_StandAloneSRB on
RLC mode	AM	UM	DPCH	PRACH
TrCH Type	DO	CH		
TrCH identity	tsc_UL_DCH1			
Troffidentity	(1)			
PhyCh Type		DPD	CH	PRACH
PhyCH		tsc_UL_	DPCH1	tsc_PRACH1
identity		(20	0)	(8)

Table 69: Downlink configuration of PS Cell_PDCP_AM_UM_RAB

RB Identity	tsc_RB20 (20)	tsc_RB21 (21)			
LogCh Type	DTCH	DTCH		Same as downlink	
LogCh	tsc_DL_DTCH1	tsc_DL_DTCH2	Same as downlink configuration		
Identity	(7) (8) AM UM		of Cell_DCH_StandAloneSRB	configuration of	
RLC mode			on DPCH	Cell_DCH_StandAloneSRB	
MAC priority			OII DECIT	on sCCPCH	
TrCH Type	DO	CH			
TrCH identity	DCH tsc_DL_DCH1 (6)				
PhyCh Type	DPC		CH	Secondary CCPCH	
PhyCH		tsc_DL_I	DPCH1	tsc_S_CCPCH1	
identity		(26	5)	(5)	

8.3.13 Configuration of Cell_2SCCPCH_BMC

The configuration is based on 3GPP TS 34.108 [3], clause 6.10.2.4.3.2.1.2 for downlink and 3GPP TS 34.108 [3], clause 6.10.2.4.4.1.1.1 without RAB/DTCH for uplink. RB30/CTCH and RB31/CTCH as well as two PCCH are configured. The configuration is applied to the BMC and CBSMS tests.

Table 70: Uplink configuration of Cell_2SCCPCH_BMC

RB	tsc_RB20	tsc_RB0	tsc_RB1	tsc_RB2	Tsc_RB3	tsc_RB4				
Identity	(20)	(0)	(1)	(2)	(3)	(4)				
LogCh Type	DTCH	CCCH	DCCH	DCCH	DCCH	DCCH				
LogCh	Tsc_UL_DTCH1	tsc_UL_CCCH5	tsc_UL_DCCH1	tsc_UL_DCCH2	tsc_UL_DCCH3	tsc_UL_DCCH4				
Identity	(7)	(5)	(1)	(2)	(3)	(4)				
RLC	AM	l _{TM}	UM	AM	AM	AM				
mode	Alvi	I IVI	Olvi	Alvi	Alvi	Alvi				
TrCH			RAG	CH						
Type										
TrCH			tsc_R/	ACH1						
identity			(15	5)						
PhyCh		PRACH								
Type										
PhyCH			tsc_PR	ACH1		_				
identity			(8)						

Table 71: Downlink configuration of Cell_2SCCPCH_BMC: second S-CCPCH

RB Identity	Tsc_RB31	tsc_RB_2ndPCCH
	(31)	(-4)
LogCh Type	CTCH	PCCH
LogCh	Tsc_CTCH2	tsc_PCCH2
Identity	(12)	(2)
RLC mode	UM	TM
MAC priority	1	1
TrCH Type	FACH	PCH
TrCU identity	tsc_FACH1	tsc_PCH2
TrCH identity	(13)	(30)
PhyCh Type	Seconda	ary CCPCH
PhyCH	tsc_S_	CCPCH2
identity		(10)

Table 72: Downlink configuration of Cell_2SCCPCH_BMC: first S-CCPCCH

RB Identity	tsc_RB2 0 (20)	tsc_RB0 (0)	tsc_RB1 (1)	tsc_RB2 (2)	tsc_RB3 (3)	tsc_RB4 (4)	tsc_RB_BCCH _FACH (-3)	Tsc_RB30 (30)	tsc_RB_PCCH (-2)
LogCh Type	DTCH	СССН	DCCH	DCCH	DCCH	DCCH	вссн	СТСН	PCCH
LogCh Identity	tsc_DL_ DTCH1 (6)	tsc_DL_ CCCH5 (5)	tsc_DL_ DCCH1 (1)	tsc_DL_ DCCH2 (2)	tsc_DL_ DCCH3 (3)	tsc_DL_ DCCH4 (4)	tsc_BCCH6 (6)	Tsc_CTCH1 (11)	tsc_PCCH1 (1)
RLC mode	AM	UM	UM	AM	AM	AM	TM	UM	TM
MAC priority	1	1	2	3	4	5	6	7	1
TrCH Type	FACH				FA	СН			PCH
TrCH identity	Tsc_FA CH2 (14)	CH2 TSC_FACHT							tsc_PCH1 (12)
PhyCh Type		Secondary CCPCH							
PhyCH identity					tsc_S	S_CCPCH ⁷ (5)	1		

8.3.14 Configuration of Cell_Four_DTCH_CS_PS, Cell_Four_DTCH_PS_CS

The configuration is based on 3GPP TS 34.108 [3], clauses 6.10.2.4.1.40. The RB0/UM-CCCH is referred to 3GPP TS 34.108 [3], clause 6.10.2.4.3.2.1.2 and RB0/TM-CCCH is referred to 3GPP TS 34.108 [3], clause 6.10.2.4.4.1.1.1. The configuration is applied to RB tests.

Table 73: Uplink configuration of Cell_Four_DTCH_CS_PS

RB	tsc_RB10	tsc_RB11	tsc_RB12	tsc_RB20				
Identity	(10)	(11)	(12)	(20)				
LogCh Type	DTCH	DTCH	DTCH	DTCH				
LogCh Identity	tsc_UL_DTC H1 (7)	tsc_UL_DTC H2 (8)	tsc_UL_DTC H3 (9)	tsc_UL_DTC H4 (10)	Same as uplink	Same as uplink		
RLC mode	TM	ТМ	ТМ	AM	configuration of Cell_DCH_StandAl	configuration of Cell_DCH_StandAlone SRB on PRACH		
MAC priority	1	1	1	1	oneSRB on DPCH			
TrCH Type	DCH	DCH	DCH	DCH				
TrCH identity	tsc_UL_DCH 1 (1)	tsc_UL_DCH 2 (2)	tsc_UL_DCH 3 (3)	tsc_UL_DCH 4 (4)				
PhyCh Type		Secondary CCPCH						
PhyCH identity			tsc_UL_DPCI (20)	H1		tsc_S_CCPCH1 (5)		

Table 74: Downlink configuration of Cell_Four_DTCH_CS_PS, Cell_Four_DTCH_PS_CS

RB	tsc_RB10	tsc_RB11	tsc_RB12	tsc_RB20				
Identity	(10)	(11)	(12)	(20)				
LogCh Type	DTCH	DTCH	DTCH	DTCH				
LogCh Identity	tsc_DL_DTC H1 (7)	tsc_DL_DTC H2 (8)	tsc_DL_DTC H3 (9)	tsc_DL_DTC H4 (10)	Same as downlink	Same as downlink		
RLC mode	ТМ	ТМ	ТМ	AM	configuration of Cell_DCH_StandAl	configuration of Cell_DCH_StandAlone SRB on sCCPCH		
MAC priority	1	1	1	1	oneSRB on DPCH			
TrCH Type	DCH	DCH	DCH	DCH				
TrCH identity	tsc_DL_DCH 1 (6)	tsc_DL_DCH 2 (7)	Tsc_DL_DCH 3 (8)	tsc_DL_DCH 4 (9)				
PhyCh Type		Secondary CCPCH						
PhyCH identity		tsc_DL_DPCH1 (20)						

8.3.15 Configuration of Cell_Two_DTCH_CS_PS, Cell_Two_DTCH_PS_CS

The configuration is based on 3GPP TS 34.108 [3], clauses 6.10.2.4.1.51 and 6.10.2.4.1.53. The RB0/UM-CCCH is referred to 3GPP TS 34.108 [3], clause 6.10.2.4.3.2.1.2 and RB0/TM-CCCH is referred to 3GPP TS 34.108 [3], clause 6.10.2.4.4.1.1.1. The configuration is applied to RB tests.

Table 75:Uplink configuration of Cell_Two_DTCH_CS_PS, Cell_Two_DTCH_PS_CS

RB Identity	tsc_RB10	tsc_RB20				
ND Identity	(10)	(20)				
LogCh Type	DTCH	DTCH	Same as uplink configuration of Cell_DCH_StandA loneSRB on	Same as uplink configuration of Cell_DCH_StandAloneS		
LogCh	tsc_UL_DTCH1	tsc_UL_DTCH2				
Identity	(7)	(8)				
RLC mode	TM	AM		RB on PRACH		
TrCH Type	DCH	DCH	DPCH	NB OIT NACIT		
TrCH	tsc_UL_DCH1	tsc_UL_DCH2				
identity	(1)	(2)				
PhyCh Type		DPDCH		PRACH		
PhyCH		tsc_UL_DPCH1		tsc_PRACH1		
identity		(20)		(8)		

Table 76: Downlink configuration of Cell_Two_DTCH_CS_PS

RB	tsc_RB10	tsc_RB20		
Identity	(10)	(20)		
LogCh Type	DTCH	DTCH		
LogCh Identity	tsc_DL_DTCH1 (7)	tsc_DL_DTCH2 (8)	Same as downlink	Same as downlink
RLC mode	TM	AM	configuration of Cell_DCH_StandAlon	configuration of Cell_DCH_StandAloneS
MAC priority	1	1	eSRB on DPCH	RB on sCCPCH
TrCH Type	DCH	DCH		
TrCH	tsc_DL_DCH1	tsc_DL_DCH2		
identity	(6)	(7)		
PhyCh		DPCH		Secondary CCPCH
Type				Coocinaai, Coi Ci .
PhyCH		tsc_DL_DPCH	1	tsc_S_CCPCH1
identity		(20)		(5)

8.3.16 Configuration of Cell_Four_DTCH_CS

The configuration is based on 3GPP TS 34.108 [3], clauses 6.10.2.4.1.49. The RB0/UM-CCCH is referred to 3GPP TS 34.108 [3], clause 6.10.2.4.3.2.1.2 and RB0/TM-CCCH is referred to 3GPP TS 34.108 [3], clause 6.10.2.4.4.1.1.1. The configuration is applied to RB tests.

Table 77: Uplink configuration of Cell_Four_DTCH_CS

RB Identity	tsc_RB10 (10)	tsc_RB11 (11)	tsc_RB12 (12)	tsc_RB13 (13)				
LogCh Type	DTCH	DTCH	DTCH	DTCH				
LogCh Identity	tsc_UL_DTC H1 (1)	tsc_UL_DTC H2 (2)	tsc_UL_DTC H3 (3)	tsc_UL_DTC H4 (4)	Same as uplink	Same as uplink		
RLC mode	TM	TM	TM	ТМ	configuration of Cell_DCH_StandAloneS	configuration of Cell_DCH_StandAlone SRB on PRACH		
MAC priority	1	1	1	1	RB on DPCH			
TrCH Type	DCH	DCH	DCH	DCH				
TrCH identity	tsc_UL_DCH 1 (6)	tsc_UL_DCH 2 (7)	tsc_UL_DCH 3 (8)	tsc_UL_DCH 4 (9)				
PhyCh Type		DPDCH						
PhyCH identity			tsc_UL_DF (20)	PCH1		tsc_S_CCPCH1 (5)		

Table 78: Downlink configuration of Cell_Four_DTCH_CS

RB	tsc_RB10	tsc_RB11	tsc_RB12	tsc_RB13			
Identity	(10)	(11)	(12)	(13)			
LogCh Type	DTCH	DTCH	DTCH	DTCH			
LogCh	tsc_DL_DTC	tsc_DL_DTC	tsc_DL_DTC	tsc_DL_DTC			
_	H1	H2	H3	H4			
Identity	(7)	(8)	(9)	(10)	Same as downlink	Same as downlink configuration of Cell_DCH_StandAlone SRB on sCCPCH	
RLC mode	TM	TM	TM	TM	configuration of Cell DCH StandAloneS		
MAC priority	1	1	1	1	RB on DPCH		
TrCH Type	DCH	DCH	DCH	DCH			
TrCH	tsc_DL_DCH	tsc_DL_DCH	tsc_DL_DCH	tsc_DL_DCH			
	1	2	3	4			
identity	(6)	(7)	(8)	(9)			
PhyCh	,	· ,	DPCH		•	Secondary CCPCH	
Type			DFCF	I			
PhyCH			tsc_DL_DF	PCH1		tsc_S_CCPCH1	
identity			(20)			(5)	

8.3.17 Configuration of Cell_DCH_MAC_SRB

The configuration is based on 3GPP TS 34.108 [3], clause 6.10.2.4.1.3. The RB0/UM-CCCH is referred to 3GPP TS 34.108 [3], clause 6.10.2.4.3.2.1.2 and RB0/TM-CCCH is referred to 3GPP TS 34.108 [3], clause 6.10.2.4.4.1.1.1; except that RB3 is mapped on TM mode.

The configuration is applied to the MAC tests.

Table 79: Uplink configuration of Cell_DCH_MAC_SRB

RB Identity	tsc_RB1 (1)	tsc_RB2 (2)	tsc_RB_DCCH _DCH_MAC (-15)	tsc_RB4 (4)	tsc_RB0 (0)	
LogCh Type	DCCH	DCCH	DCCH	DCCH	CCCH	
LogCh Identity	tsc_UL_DCCH1 (1)	tsc_UL_DCCH2 (2)	tsc_UL_DCCH3 (3)	tsc_UL_DCCH4 (4)	tsc_UL_CCCH5 (5)	
RLC mode	UM	AM	TM	AM	TM	AM
TrCH Type		DC	H		RAC	CH
TrCH identity		tsc_UL_ (5	-		tsc_R/ (15	
PhyCh Type		PRA	СН			
PhyCH identity		tsc_UL_ (20			tsc_PR (8	

Table 80: Downlink configuration of Cell_DCH_MAC_SRB

RB Identity	tsc_RB1 (1)	tsc_RB2 (2)	tsc_RB_DCC H_DCH_MAC (-15)	tsc_RB4 (4)	tsc_RB0 (0)	tsc_RB_PCCH (-2)	
LogCh Type	DCCH	DCCH	DCCH	DCCH	СССН	PCCH	
LogCh Identity	tsc_DL_DCCH 1 (1)	tsc_DL_DCCH 2 (2)	tsc_DL_DCCH 3 (3)	tsc_DL_DCCH 4 (4)	tsc_DL_CCCH 5 (5)	tsc_PCCH1 (1)	
RLC mode	UM	AM	TM	AM	UM	TM	AM
MAC priority	1	2	3	4	1	1	1
TrCH Type		DC	СН		FACH	PCH	FACH
TrCH identity		tsc_DL (1	_DCH5 0)		tsc_FACH1 (13)	tsc_PCH1 (12)	tsc_FACH2 (14)
PhyCh Type		DP	CH		Secondary CCPCH		
PhyCH identity		tsc_DL_ (2	DPCH1 6)		tsc_S_CCPCH1 (5)		

8.3.18 Configuration of Cell_FACH_MAC_SRB

The configuration is based on 3GPP TS 34.108 [3], clause 6.10.2.4.3.2.1.2 for downlink and 3GPP TS 34.108 [3], clause 6.10.2.4.4.1.1.1 for uplink; except that RB3 is mapped on TM mode.

The configuration is applied to the MAC tests.

Table 81: Uplink configuration of Cell_FACH_MAC_SRB

RB Identity	tsc_RB20 (20)	tsc_RB0 (0)	tsc_RB1 (1)	tsc_RB2 (2)	tsc_RB_DCCH_FACH_M AC (-14)	tsc_RB4 (4)			
LogCh Type	DTCH	CCCH	DCCH	DCCH	DCCH	DCCH			
LogCh Identity	Tsc_UL_DTCH 1 (7)	tsc_UL_CCCH 5 (5)	tsc_UL_DCCH 1 (1)	tsc_UL_DCCH 2 (2)	tsc_UL_DCCH3 (3)	tsc_UL_DCCH 4 (4)			
RLC mode	AM	TM	UM	AM	TM	AM			
TrCH Type		RACH							
TrCH identity	tsc_RACH1 (15)								
PhyCh Type	PRACH								
PhyCH identity	tsc_PRACH1 (8)								

Table 82: Downlink configuration of Cell_FACH_MAC_SRB

RB Identity	tsc_RB20 (20)	tsc_RB0 (0)	tsc_RB1 (1)	tsc_RB2 (2)	tsc_RB_DC CH_FACH_ MAC (-14)	tsc_RB4 (4)	tsc_RB_BC CH_FACH (-3)	tsc_RB_PC CH (-2)		
LogCh Type	DTCH	СССН	DCCH	DCCH	DCCH	DCCH	вссн	PCCH		
LogCh Identity	tsc_DL_DT CH1 (6)	tsc_DL_CC CH5 (5)	tsc_DL_DC CH1 (1)	tsc_DL_DC CH2 (2)	tsc_DL_DC CH3 (3)	tsc_DL_DC CH4 (4)	tsc_BCCH6 (6)	tsc_PCCH1 (1)		
RLC mode	AM	UM	UM	AM	TM	AM	TM	TM		
MAC priority	1	1	2	3	4	5	6	1		
TrCH Type	FACH FACH							PCH		
TrCH identity	tsc_FACH2 tsc_FACH1 (13)						tsc_PCH1 (12)			
PhyCh Type	Secondary CCPCH									
PhyCH identity		tsc_S_CCPCH1 (5)								

8.3.19 Configuration of Cell_FACH_MAC_SRB0

The configuration is based on 3GPP TS 34.108 [3], clause 6.10.2.4.3.2.1.2 for downlink and 3GPP TS 34.108 [3], clause 6.10.2.4.4.1.1.1 for uplink; except that the downlink SRB0 is mapped on TM mode.

The configuration is applied to the MAC tests.

The uplink configuration of Cell_FACH_MAC_SRB0 is the same as the uplink configuration of Cell_FACH.

Table 83: Downlink configuration of Cell_FACH_MAC_SRB0

RB Identity	tsc_RB20 (20)	tsc_RB_CC CH_FACH_ MAC (-18)	tsc_RB1 (1)	tsc_RB2 (2)	tsc_RB3 (3)	tsc_RB4 (4)	tsc_RB_BC CH_FACH (-3)	tsc_RB_PC CH (-2)
LogCh Type	DTCH	СССН	DCCH	DCCH	DCCH	DCCH	вссн	PCCH
LogCh Identity	tsc_DL_DT CH1 (6)	tsc_DL_CC CH5 (5)	tsc_DL_DC CH1 (1)	tsc_DL_DC CH2 (2)	tsc_DL_DC CH3 (3)	tsc_DL_DC CH4 (4)	tsc_BCCH6 (6)	tsc_PCCH1 (1)
RLC mode	AM	ТМ	UM	AM	AM	AM	ТМ	TM
MAC priority	1	1	2	3	4	5	6	1
TrCH Type	FACH			FAG	СН			PCH
TrCH identity	tsc_FACH2 tsc_FACH1 (13)						tsc_PCH1 (12)	
PhyCh Type	Secondary CCPCH							
PhyCH identity	tsc_S_CCPCH1 (5)							

8.3.20 Configuration of Cell_FACH_2_SCCPCH_StandAlonePCH

The configuration is based on 3GPP TS 34.108 [3], clause 6.10.2.4.3.2.1.2 for downlink and 3GPP TS 34.108 [3] except the mapping of PCH, clause 6.10.2.4.4.1.1.1 for uplink.

The configuration is applied to the RAB tests.

The uplink configuration of Cell_FACH_2_SCCPCH_StandAlonePCH is the same as the uplink configuration of Cell_FACH.

Table 84: Downlink configuration of Cell_FACH_2_SCCPCH_StandAlonePCH

RB Identity	tsc_RB20 (20)	tsc_RB0 (0)	tsc_RB1 (1)	tsc_RB2 (2)	tsc_RB3 (3)	tsc_RB4 (4)	tsc_RB_BC CH_FACH (-3)	tsc_RB_PC CH2 (-4)
LogCh Type	DTCH	СССН	DCCH	DCCH	DCCH	DCCH	вссн	PCCH
LogCh Identity	tsc_DL_DT CH1 (6)	tsc_DL_CC CH5 (5)	tsc_DL_DC CH1 (1)	tsc_DL_DC CH2 (2)	tsc_DL_DC CH3 (3)	tsc_DL_DC CH4 (4)	tsc_BCCH6 (6)	tsc_PCCH1 (1)
RLC mode	AM	UM	UM	AM	AM	AM	TM	ТМ
MAC priority	1	1	2	3	4	5	6	1
TrCH Type	FACH FACH							
TrCH identity	tsc_FACH2 tsc_FACH1 (13)							tsc_PCH1 (12)
PhyCh Type	Secondary CCPCH							
PhyCH identity			ts	sc_S_CCPCH2 (10)	2			tsc_S_CCP CH1 (5)

8.3.21 Configuration of PS Cell_DCH_2AM_PS

The configuration is based on 3GPP TS 34.108 [3], clauses 6.10.2.4.1.26 and 6.10.2.4.1.57. The RB0/UM-CCCH is referred to 3GPP TS 34.108 [3], clause 6.10.2.4.3.2.1.2 with 2 AM RAB and RB0/TM-CCCH is referred to 3GPP TS 34.108 [3], clause 6.10.2.4.4.1.1.1. The configuration is applied to MAC and RAB test cases.

Table 85: Uplink configuration of Cell_DCH_ 2AM_PS

RB Identity	tsc_RB20 tsc_RB22					
ND Identity	(20)	(22)				
LogCh Type	DTCH	DTCH				
LogCh Identity	tsc_UL_DTCH 1 (7)	tsc_UL_DTCH 2 (8)	Same as uplink configuration of Cell_DCH_StandAloneSRB on DPCH	Same as uplink configuration of Cell_DCH_StandAloneSRB on PRACH		
RLC mode	ÀM ÀM		DECIT	FRACII		
TrCH Type	DC	H				
TrCH identity	tsc_UL_DCH1					
11 Off facility	(1)				
PhyCh Type		D	PDCH	PRACH		
PhyCH		tsc_U	L_DPCH1	tsc_PRACH1		
identity			(20)	(8)		

Table 86: Downlink configuration of Cell_DCH_2AM_PS

RB Identity	tsc_RB20 (20)	tsc_RB22 (22)				
LogCh Type	DTCH	DTCH				
LogCh Identity	tsc_DL_DTCH tsc_DL_DTCH 1 2 (8)		configuration of	Same as downlink configuration of Cell_DCH_StandAloneSRB on		
RLC mode	AM	AM	Cell_DCH_StandAloneSRB on DPCH	sCCPCH		
MAC priority	1	1	OH DI CH			
TrCH Type	DC	CH				
TrCH identity	tsc_DL_DCH1 (6)					
PhyCh Type		DP	CH	Secondary CCPCH		
PhyCH identity		tsc_DL_ (2		tsc_S_CCPCH1 (5)		

8.3.22 Configuration of PS Cell_DCH_2_PS_Call

The configuration is based on 3GPP TS 34.108 [3], clauses 6.10.2.4.1.56 and 6.10.2.4.1.58. The RB0/UM-CCCH is referred to 3GPP TS 34.108 [3], clause 6.10.2.4.3.2.1.2 and RB0/TM-CCCH is referred to 3GPP TS 34.108 [3], clause 6.10.2.4.4.1.1.1. The configuration is applied to RB tests.

Table 87: Uplink configuration of Cell_DCH_2_PS_Call

RB Identity	tsc_RB20 (20)	tsc_RB22 (22)		
LogCh Type	DTCH	DTCH		
LogCh	tsc_UL_DTCH	tsc_UL_DTCH		
Identity	1	2	Same as uplink configuration of	Same as uplink configuration of
identity	(7)	(8)	Cell_DCH_StandAloneSRB on	Cell_DCH_StandAloneSRB on PRACH
RLC mode	AM	AM	DPCH	
TrCH Type	DCH	DCH		
TrCH identity	tsc_UL_DCH1 (1)	tsc_UL_DCH2 (2)		
PhyCh Type		D	PDCH	PRACH
PhyCH		tsc_U	L_DPCH1	tsc_PRACH1
identity			(20)	(8)

Table 88: Downlink configuration of Cell_DCH_2_PS_Call

RB Identity	tsc_RB20	tsc_RB22					
KB Identity	(20)	(22)					
LogCh Type	DTCH	DTCH					
LogCh	tsc_DL_DTCH	tsc_DL_DTCH	Same as downlink				
Identity	1	2	configuration of	Same as downlink configuration of			
identity	(7)	(8)	Cell DCH StandAloneSRB	Cell_DCH_StandAloneSRB on			
RLC mode	AM	AM	on DPCH	sCCPCH			
MAC priority	1	1	OH DI CH				
TrCH Type	DCH	DCH					
TrCH identity	tsc_DL_DCH1	tsc_DL_DCH2					
Troffidentity	(6)	(7)					
PhyCh Type		DP	CH	Secondary CCPCH			
PhyCH		tsc_DL_	DPCH1	tsc_S_CCPCH1			
identity		(2	6)	(5)			

8.3.23 Configuration of Cell_FACH_3_SCCPCH_4_FACH_Cnfg1

The configuration is based on 3GPP TS 34.108 [3], clause 6.10.2.4.3.2 for downlink and 3GPP TS 34.108 [3], clause 6.10.2.4.4.1.1.1 for uplink. The configuration is applied to the RAB tests.

The uplink configuration of Cell_FACH_3_SCCPCH_4_FACH Cnfg1 is the same as the uplink configuration of Cell_FACH.

Table 89: Downlink configuration of Cell_FACH_3_SCCPCH_4_FACH_Cnfg1: 1st & 2nd S-CCPCH

RB Identity		tsc_RB0 (0)	tsc_RB_BCCH_ FACH (-3)	tsc_RB_PCCH (-2)
LogCh Type		СССН	вссн	PCCH
LogCh Identity		tsc_DL_CCCH 5 (5)	tsc_BCCH6 (6)	tsc_PCCH1 (1)
RLC mode		ÚM	TM	TM
MAC priority		1	6	1
TrCH Type	FACH	FA	CH	PCH
TrCH	tsc_FACH2	_	ACH1	tsc_PCH1
identity	(14)	(1	3)	(12)
PhyCh Type	S	econdary CCPCH	l	Secondary CCPCH
PhyCH	1	tsc_S_CCPCH1		
identity		(10)		(5)

Table 90: Downlink configuration of Cell_FACH_3_SCCPCH_4_FACH_Cnfg1: 3rd S-CCPCH

RB Identity	tsc_RB20 (20)	tsc_RB29 (29)	tsc_RB1 (1)	tsc_RB2 (2)	tsc_RB3 (3)	tsc_RB4 (4)	tsc_RB_BC CH_FACH_ RAB (-19)	
LogCh Type	DTCH	CCCH	DCCH	DCCH	DCCH	DCCH	BCCH	
LogCh Identity	tsc_DL_DTC H1 (7)	tsc_DL_C CCH6 (6)	tsc_DL_DC CH1 (1)	tsc_DL_DC CH2 (2)	tsc_DL_DC CH3 (3)	tsc_DL_DC CH4 (4)	tsc_BCCH7 (7)	
RLC mode	ÀM	ÙM	ÙM	ÀM	ÀM	ÀM	TM	
MAC priority	1	1	2	3	4	5	6	
TrCH Type	FACH			FA	CH			
TrCH	tsc_FACH4			tsc_F	ACH3			
identity	(17)	(16)						
PhyCh Type		Secondary CCPCH						
PhyCH			ts	sc_S_CCPCH	3	•		
identity				(13)				

8.3.24 Configuration of Cell_FACH_3_SCCPCH_4_FACH_Cnfg2

The configuration is based on 3GPP TS 34.108 [3], clause 6.10.2.4.3.2 for downlink and 3GPP TS 34.108 [3], clause 6.10.2.4.4.1.1.1 for uplink. The configuration is applied to the RAB tests.

The uplink configuration of Cell_FACH_3_SCCPCH_4_FACH Cnfg2 is the same as the uplink configuration of Cell_FACH.

Table 91: Downlink configuration of Cell_FACH_3_SCCPCH_4_FACH_Cnfg2: 2nd S-CCPCH

RB Identity	tsc_RB20 (20)	tsc_RB29 (29)	tsc_RB1 (1)	tsc_RB2 (2)	tsc_RB3	tsc_RB4 (4)	tsc_RB_BC CH_FACH_ RAB (-19)			
LogCh Type	DTCH	CCCH	DCCH	DCCH	DCCH	DCCH	BCCH			
LogCh	tsc_DL_DTC	tsc_DL_C	tsc_DL_DC	tsc_DL_DC	tsc_DL_DC	tsc_DL_DC	tsc_BCCH7			
Identity	H1	CCH6	CH1	CH2	CH3	CH4	(7)			
identity	(7)	(6)	(1)	(2)	(3)	(4)				
RLC mode	AM	UM	UM	AM	AM	AM	TM			
MAC priority	1	1	2	3	4	5	6			
TrCH Type	FACH			FA	CH					
TrCH	tsc_FACH2			tsc_F	ACH1					
identity	(14)	(14) (13)								
PhyCh Type		Secondary CCPCH								
PhyCH		•	ts	sc_S_CCPCH2	2	•				
identity				(10)						

Table 92: Downlink configuration of Cell_FACH_3_SCCPCH_4_FACH_Cnfg2: 1st & 3rd S-CCPCH

RB Identity		tsc_RB0 (0)	tsc_RB_BCCH_ FACH (-3)	tsc_RB_PCCH (-2)
LogCh Type		СССН	BCCH	PCCH
LogCh Identity		tsc_DL_CCCH 5 (5)	tsc_BCCH6 (6)	tsc_PCCH1 (1)
RLC mode		ÚM	TM	TM
MAC priority		1	6	1
TrCH Type	FACH	FA	CH	PCH
TrCH identity	tsc_FACH4 (17)	_	ACH3 (6)	tsc_PCH1 (12)
PhyCh Type	Se	econdary CCPCH	1	Secondary CCPCH
PhyCH	1	tsc_S_CCPCH3	_	tsc_S_CCPCH1
identity		(13)		(5)

8.3.25 Configuration of Cell_FACH_3_SCCPCH_3_FACH_CTCH

The configuration is based on 3GPP TS 34.108 [3], clause 6.10.2.4.3.2 for downlink and 3GPP TS 34.108 [3], clause 6.10.2.4.4.1.1.1 for uplink. The configuration is applied to the RAB tests.

The uplink configuration of Cell_FACH_3_SCCPCH_3_FACH_CTCH is the same as the uplink configuration of Cell_FACH.

Table 93: Downlink configuration of Cell_FACH_3_SCCPCH_3_FACH_CTCH: 1st & 2nd S-CCPCH

RB Identity	tsc_RB30	tsc_RB0	tsc_RB_BCCH_FACH	tsc_RB_PCCH			
ND identity	(30)	(0) (-3)		(-2)			
LogCh Type	CTCH	CCCH	BCCH	PCCH			
LogCh Identity	tsc_CTCH1	tsc_DL_CCCH5	tsc_BCCH6	tsc_PCCH1			
Logon identity	(11)	(5)	(6)	(1)			
RLC mode	UM	UM	TM	TM			
MAC priority	7	1	6	1			
TrCH Type	FACH	F	ACH	PCH			
TrCH identity	tsc_FACH2	tsc_	tsc_PCH1				
Tron identity	(14)		(12)				
PhyCh Type		Secondary CC	PCH	Secondary			
i ilyon i ype		Secondary CC	611	CCPCH			
PhyCH identity		tsc_S_CCPCH2					
rifyCrifidefility		(10)		(5)			

Table 94: Downlink configuration of Cell_FACH_3_SCCPCH_3_FACH_CTCH: 3rd S-CCPCH

RB Identity	tsc_RB20 (20)	tsc_RB29 (29)	tsc_RB1 (1)	tsc_RB2 (2)	tsc_RB3 (3)	tsc_RB4 (4)	tsc_RB_BC CH_FACH_ RAB (-19)		
LogCh Type	DTCH	CCCH	DCCH	DCCH	DCCH	DCCH	BCCH		
LogCh	tsc_DL_DTC	tsc_DL_CC	tsc_DL_DC	tsc_DL_DC	tsc_DL_DC	tsc_DL_DC	tsc_BCCH7		
Identity	H1 (7)	CH6 (6)	CH1 (1)	CH2 (2)	CH3 (3)	CH4 (5)	(7)		
RLC mode	AM	UM	UM	AM	AM	AM	TM		
MAC priority	1	1	2	3	4	5	6		
TrCH Type	FACH			FAG	CH				
TrCH	tsc_FACH4			tsc_F/	ACH3				
identity	(17)								
PhyCh Type	Secondary CCPCH								
PhyCH			ts	c_S_CCPCH3		•			
identity				(13)					

8.3.26 Configuration of PS Cell_DCH_DSCH_PS_RAB

The configuration is based on 3GPP TS 34.108 [3], clause 6.10.2.4.2.1. The RB0/UM-CCCH is referred to 3GPP TS 34.108 [3], clause 6.10.2.4.3.2.1.2 and RB0/TM-CCCH is referred to 3GPP TS 34.108 [3], clause 6.10.2.4.4.1.1.1. The configuration is applied to those RAB signalling tests where a PS RAB on DTCH is setup for the interactive or background service class is mapped on to DSCH.

The uplink configuration is same in clause 8.3.8.

Table 95a: Downlink configuration of PS Cell_DCH_DSCH_PS_RAB

RB Identity	tsc_RB20 (20)	Same as downlink configuration of Cell_DCH_StandAloneSRB on DPCH	
LogCh Type	DTCH		
LogCh Identity	tsc_DL_DTCH1 (7)		Same as downlink configuration of Cell_DCH_StandAloneSRB on
RLC mode	AM		sCCPCH
MAC	1		
priority	Į.		
TrCH Type	DSCH		
TrCH	tsc_DSCH1		
identity	(19)		
PhyCh	PDSCH	DPCH	Secondary CCPCH
Туре		DI 611	,
PhyCH	tsc_DL_PDSCH1	tsc_DL_DPCH1	tsc_S_CCPCH1
identity	(16)	(26)	(5)

8.3.27 Configuration of Cell_DCH_DSCH_CS_PS

The configuration is based on 3GPP TS 34.108 [3], clauses 6.10.2.4.2.4. The RB0/UM-CCCH is referred to 3GPP TS 34.108 [3], clause 6.10.2.4.3.2.1.2 and RB0/TM-CCCH is referred to 3GPP TS 34.108 [3], clause 6.10.2.4.4.1.1.1. The configuration is applied to RB tests.

The Uplink configuration is similar to clause 8.3.14.

Table 97b: Downlink configuration of Cell DCH DSCH CS PS

RB	tsc_RB10	tsc_RB11	tsc_RB12	tsc_RB20				
Identity	(10)	(11)	(12)	(20)				
LogCh Type	DTCH	DTCH	DTCH	DTCH				
LogCh Identity	tsc_DL_DTCH1 (7)	tsc_DL_DTCH2 (8)	tsc_DL_DTCH3 (9)	tsc_DL_DTCH4 (10)	Same as downlink	Same as downlink configuration of Cell_DCH_StandAlone SRB on sCCPCH		
RLC mode	TM	TM	TM	AM	configuration of Cell_DCH_Stand			
MAC priority	1	1	1	1	AloneSRB on DPCH			
TrCH Type	DCH	DCH	DCH	DSCH				
TrCH identity	tsc_DL_DCH 1 (6)	tsc_DL_DCH 2 (7)	Tsc_DL_DCH 3 (8)	tsc_DL_DSC H1 (19)				
PhyCh Type		DPCH		PDSCH	DPCH	Secondary CCPCH		
PhyCH identity	tsc_DL_DPCH1 (20)			tsc_DL_PDS CH1 (16)	tsc_DL_DPCH1 (20)	tsc_S_CCPCH1 (5)		

8.3.28 Configuration of Cell_FACH_2_SCCPCH_StandAlonePCH_2a

The configuration is based on 3GPP TS 34.108 [3], clause 6.10.2.4.3.2a for downlink and 3GPP TS 34.108 [3] except the mapping of PCH, clause 6.10.2.4.4.2 for uplink. The configuration is applied to the RAB tests.

Table 96: Uplink configuration of Configuration of Configuration of Cell_FACH_2_SCCPCH_StandAlonePCH_2a

RB Identity	tsc_RB24 (24)	tsc_RB20 (20)	tsc_RB0 (0)	tsc_RB1 (1)	tsc_RB2 (2)	tsc_RB3 (3)	tsc_RB4 (4)				
LogCh Type	DTCH	DTCH	CCCH	DCCH	DCCH	DCCH	DCCH				
LogCh Identity	Tsc_UL_DTCH4 (10)	Tsc_UL_DTCH1 (7)	tsc_UL_CCCH5 (5)	tsc_UL_DCCH1 (1)	tsc_UL_DCCH2 (2)	tsc_UL_DCCH3 (3)	tsc_UL_DCCH4 (4)				
RLC mode	AM	AM	TM	UM	AM	AM	AM				
TrCH Type		RACH									
TrCH identity				tsc_RACH1 (15)							
PhyCh Type	PRACH										
PhyCH identity	tsc_PRACH1 (8)										

Table 97: Downlink configuration of Cell_FACH_2_SCCPCH_StandAlonePCH_2a

RB Identity	tsc_RB20 (20)	tsc_RB24 (24)	tsc_RB0 (0)	tsc_RB1 (1)	tsc_RB2 (2)	tsc_RB3 (3)	tsc_RB4 (4)	tsc_RB_BCCH_FACH (-3)	tsc_RB_PCCH2 (-4)
LogCh Type	DTCH	DTCH	CCCH	DCCH	DCCH	DCCH	DCCH	BCCH	PCCH
LogCh Identity			tsc_DL_CC	tsc_DL_DC	tsc_DL_DC	tsc_DL_DC	tsc_DL_DC	tsc_BCCH6 (6)	tsc_PCCH1 (1)
	CH1 (7)	H4 (10)	CH5 (5)	CH1 (1)	CH2 (2)	CH3 (3)	CH4 (4)		100_1 00111 (1)
RLC mode	AM	AM	UM	UM	AM	AM	AM	TM	TM
MAC priority	1	1	1	2	3	4	5	6	1
TrCH Type	FACH	FACH				FACH			PCH
TrCH identity	tsc_FAC	CH2 (14)		tsc_FACH1(13)					
PhyCh Type		Secondary CCPCH							Secondary CCPCH
PhyCH identity		•		tsc_S	CCPCH2 (10	0)	•		tsc_S_CCPCH1 (5)

8.3.29 Configuration of Cell_FACH_3_SCCPCH_4_FACH_2a_Cnfg1

The configuration is based on 3GPP TS 34.108 [3], clause 6.10.2.4.3.2a for downlink and 3GPP TS 34.108 [3], clause 6.10.2.4.4.2 for uplink. The configuration is applied to the RAB tests.

The uplink configuration of Cell_FACH_3_SCCPCH_4_FACH Cnfg1 is the same as the uplink configuration of Cell_FACH_2 SCCPCH_StandAlonePCH_2a.

Table 98: Downlink configuration of Cell_FACH_3_SCCPCH_4_FACH_2a_Cnfg1: 1st & 2nd S-CCPCH

RB Identity			tsc_RB0 (0)	tsc_RB_BCCH_F ACH (-3)	tsc_RB_PCCH (-2)		
LogCh Type			СССН	BCCH	PCCH		
LogCh Identity	LogCh Identity		tsc_DL_CCCH5	tsc_BCCH6	tsc_PCCH1		
Logon identity			(5)	(6)	(1)		
RLC mode			UM	TM	TM		
MAC priority			1	6	1		
TrCH Type	FACH	FACH	FA	PCH			
TrCH identity	tsc_FA	CH2	tsc_F	tsc_PCH1			
TICH Identity	(14	1)	(1	(12)			
PhyCh Type		Secondary CCPCH					
PhyCH identity		tsc S CCPCH2					
Filyon Identity		(1	0)		(5)		

Table 99: Downlink configuration of Cell_FACH_3_SCCPCH_4_FACH_2a_Cnfg1: 3rd S-CCPCH

RB Identity	tsc_RB24 (24)	tsc_RB2 0 (20)	tsc_RB2 9 (29)	tsc_RB1 (1)	tsc_RB2 (2)	tsc_RB 3 (3)	tsc_RB4 (4)	tsc_RB_BCCH _FACH_RAB (-19)
LogCh Type	DTCH	DTCH	CCCH	DCCH	DCCH	DCCH	DCCH	BCCH
LogCh Identity	tsc_DL_DTC H4 (10)	tsc_DL_ DTCH1 (7)	tsc_DL_ CCCH6 (6)	tsc_DL_ DCCH1 (1)	tsc_DL_ DCCH2 (2)	tsc_DL _DCCH 3 (3)	tsc_DL_D CCH4 (4)	tsc_BCCH7 (7)
RLC mode	AM	AM	UM	UM	AM	AM	AM	TM
MAC priority	1	1	1	2	3	4	5	6
TrCH Type	FACH	ł				FACH		
TrCH identity	tsc_FACH4 tsc_FACH3 (17) (16)							
PhyCh Type	Secondary CCPCH							
PhyCH identity				tsc_S_CC	PCH3 (13)			

8.3.30 Configuration of Cell_FACH_3_SCCPCH_4_FACH_2a_Cnfg2

The configuration is based on 3GPP TS 34.108 [3], clause 6.10.2.4.3.2a for downlink and 3GPP TS 34.108 [3], clause 6.10.2.4.4.2 for uplink. The configuration is applied to the RAB tests.

The uplink configuration of Cell_FACH_3_SCCPCH_4_FACH Cnfg2 is the same as the uplink configuration of Cell_FACH_2_SCCPCH_StandAlonePCH_2a.

Table 100: Downlink configuration of Cell_FACH_3_SCCPCH_4_FACH_2a_Cnfg2: 2nd S-CCPCH

RB Identity	tsc_RB21 (24)	tsc_RB2 0 (20)	tsc_RB2 9 (29)	tsc_RB 1 (1)	tsc_RB2	tsc_RB3 (3)	tsc_RB4 (4)	tsc_RB_ BCCH_F ACH_RA B (-19)	
LogCh Type	DTCH	DTCH	CCCH	DCCH	DCCH	DCCH	DCCH	BCCH	
LogCh Identity	tsc_DL_D TCH2 (10)	tsc_DL_ DTCH1 (7)	tsc_DL_ CCCH6 (6)	tsc_DL _DCCH 1 (1)	tsc_DL_ DCCH2 (2)	tsc_DL_ DCCH3 (3)	tsc_DL_ DCCH4 (4)	tsc_BCC H7 (7)	
RLC mode	AM	AM	UM	UM	AM	AM	AM	TM	
MAC priority	1	1	1	2	3	4	5	6	
TrCH Type	FACH	FACH			FA	CH			
TrCH identity tsc_FACH2 (14)				tsc_FACH1 (13)					
PhyCh Type	Secondary CCPCH								
PhyCH identity			ts	c_S_CCF	PCH2 (10)				

Table 101: Downlink configuration of Cell_FACH_3_SCCPCH_4_FACH_2a_Cnfg2: 1st & 3rd S-CCPCH

RB Identity			tsc_RB0 (0)	tsc_RB_BCCH_ FACH (-3)	tsc_RB_PCCH (-2)
LogCh Type			CCCH	BCCH	PCCH
LogCh Identity			tsc_DL_CCCH 5 (5)	tsc_BCCH6 (6)	tsc_PCCH1 (1)
RLC mode			ÚM	TM	TM
MAC priority			1	6	1
TrCH Type	FACH	FACH	FA	CH	PCH
TrCH identity	tsc	_FACH4 (17)	_	ACH3 (6)	tsc_PCH1 (12)
PhyCh Type		Secondary	CCPCH		Secondary CCPCH
PhyCH identity		tsc_S_CC (13)		tsc_S_CCPCH1 (5)	

8.3.31 Configuration of Cell_FACH_3_SCCPCH_3_FACH_CTCH_2a

The configuration is based on 3GPP TS 34.108 [3], clause 6.10.2.4.3.2 for downlink and 3GPP TS 34.108 [3], clause 6.10.2.4.4.2 for uplink. The configuration is applied to the RAB tests.

The uplink configuration of Cell_FACH_3_SCCPCH_3_FACH_CTCH_2a is the same as the uplink configuration of Cell_FACH_3_SCCPCH_4_FACH Cnfg1.

Table 102: Downlink configuration of Cell_FACH_3_SCCPCH_3_FACH_CTCH_2a: 1st & 2nd S-CCPCH

RB Identity	tsc_RB30 (30)	tsc_RB0 (0)	tsc_RB_BCCH_ FACH (-3)	tsc_RB_PCCH (-2)		
LogCh Type	CTCH	CCCH	BCCH	PCCH		
LogCh Identity	tsc_CTCH1 (11)	tsc_DL_CCCH5 (5)	tsc_BCCH6 (6)	tsc_PCCH1 (1)		
RLC mode	ÚM	ÚM	TM	TM		
MAC priority	7	1	6	1		
TrCH Type	FACH	FACH		PCH		
TrCH identity	tsc_FACH2 (14)	tsc_FACH1 (13)		tsc_PCH1 (12)		
PhyCh Type	(1.1)	Secondary CCPCH				
PhyCH identity		Secondary CCPCH tsc_S_CCPCH2 (10)				

Table 103: Downlink configuration of Cell_FACH_3_SCCPCH_3_FACH_CTCH_2a: 3rd S-CCPCH

RB Identity	tsc_RB24 (24)	tsc_RB20 (20)	tsc_RB2 9 (29)	tsc_RB1 (1)	tsc_RB2 (2)	tsc_RB3 (3)	tsc_RB4 (4)	tsc_RB_ BCCH_F ACH_RA B (-19)
LogCh Type	DTCH	DTCH	СССН	DCCH	DCCH	DCCH	DCCH	вссн
LogCh Identity	tsc_DL_D TCH4(10)	tsc_DL_D TCH1 (7)	tsc_DL_ CCCH6 (6)	tsc_DL_ DCCH1 (1)	tsc_DL_ DCCH2 (2)	tsc_DL_ DCCH3 (3)	tsc_DL_ DCCH4 (5)	tsc_BCC H7 (7)
RLC mode	AM	AM	UM	UM	AM	AM	AM	TM
MAC priority	1	1	1	2	3	4	5	6
TrCH Type	FACH	FACH			FA	CH		
TrCH identity	tsc_F/ (1		tsc_FACH3 (16)					
PhyCh Type		Secondary CCPCH						
PhyCH identity				tsc_S_C0 (13				

8.3.32 Configuration of Cell_DCH_HS_DSCH (Rel-5 or later)

The configuration is based on 3GPP TS 34.108 [3], clause 6.10.2.4.5.1 or 6.10.2.4.5.2. The RB0/UM-CCCH is referred to 3GPP TS 34.108 [3], clause 6.10.2.4.3.2.1.2 and RB0/TM-CCCH is referred to 3GPP TS 34.108 [3], clause 6.10.2.4.4.1.1.1. The configuration is applied to those RRC and NAS signalling tests in the DCH state where a PS RAB on DTCH mapped on HS-DSCH is setup for the interactive or background service class.

Table 104: Uplink configuration of Cell_DCH_HS_DSCH

RB Identity	tsc_RB25	Same as uplink configuration of	Same as uplink configuration of
	(25)	Cell_DCH_StandAloneSRB on	Cell_DCH_StandAloneSRB on
LogCh Type	DTCH	DPCH	PRACH
LogCh Identity	tsc_UL_DTCH1		
	(7)		
RLC mode	AM		
TrCH Type	DCH		
TrCH identity	tsc_UL_DCH1		
	(1)		
PhyCh Type	DPDCH		PRACH
PhyCH identity	tsc_UL_DPCH1		tsc_PRACH1
		(20)	(8)

Table 105: Downlink configuration of Cell_DCH_HS_DSCH

RB Identity	tsc_RB25	Same as uplink configuration of	Same as uplink configuration of
	(25)	Cell_DCH_StandAloneSRB on	Cell_DCH_StandAloneSRB on
LogCh Type	DTCH	DPCH	PRACH
LogCh Identity	tsc_DL_DTCH1		
	(7)		
RLC mode	AM		
MAC priority	8		
TrCH Type	HS-DSCH		
TrCH identity	0		
/QueueID			
PhyCh Type	PDSCH	DPCH	Secondary CCPCH
PhyCH identity	tsc_HSPDSCH	tsc_DL_DPCH1	tsc_S_CCPCH1
	(18)	(26)	(5)

8.3.33 Configuration of cell_One_DTCH_HS_DSCH_MAC (Rel-5 or later)

The configuration is based on 3GPP TS 34.108 [3], clause 6.10.2.4.5.1. The RB0/UM-CCCH is referred to 3GPP TS 34.108 [3], clause 6.10.2.4.3.2.1.2 and RB0/TM-CCCH is referred to 3GPP TS 34.108 [3], clause 6.10.2.4.4.1.1.1. The configuration is applied to those MAC-HS Signalling tests in the DCH state where a PS RAB on DTCH mapped on HS-DSCH is setup for the interactive or background service class.

Table 106: Uplink configuration of cell_One_DTCH_HS_DSCH_MAC

RB Identity	tsc_RB_MAC_HS	Same as uplink configuration of	Same as uplink configuration of
	(-25)	Cell_DCH_StandAloneSRB on	Cell_DCH_StandAloneSRB on
LogCh Type	DTCH	DPCH	PRACH
LogCh Identity	tsc_UL_DTCH1		
	(7)		
RLC mode	TM		
TrCH Type	DCH		
TrCH identity	tsc_UL_DCH1		
	(1)		
PhyCh Type		PRACH	
PhyCH identity	tso	:_UL_DPCH1	tsc_PRACH1
		(20)	(8)

Table 107: Downlink configuration of Cell_DCH_HS_DSCH

RB Identity	tsc_RB_MAC_HS (-	Same as downlink configuration	Same as downlink configuration
	25)	of Cell_DCH_StandAloneSRB	of Cell_DCH_StandAloneSRB
LogCh Type	DTCH	on DPCH	on sCCPCH
LogCh Identity	tsc_DL_DTCH1		
	(7)		
RLC mode	TM		
MAC priority	8		
TrCH Type	HS-DSCH		
TrCH identity	0		
/QueueID			
PhyCh Type	PDSCH	DPCH	Secondary CCPCH
PhyCH identity	tsc_HSPDSCH	tsc_DL_DPCH1	tsc_S_CCPCH1
	(18)	(26)	(5)

8.3.34 Configuration of Cell_ 2UM_3AM_DCH_HS_DSCH (Rel-5 or later)

The configuration is based on 3GPP TS 34.108[3], clause 6.11.4a The RB0/UM-CCCH is referred to 3GPP TS 34.108[3], clause 6.10.2.4.3.2.1.2 and RB0/TM-CCCH is referred to 3GPP TS 34.108 [3], clause 6.10.2.4.4.1.1.1. The configuration is applied to MAC test case 7.1.5.2.

Table108: Uplink configuration of Cell_2UM_3AM_DCH_HS_DSCH

RB Identity	tsc_RB26	tsc_RB27	tsc_RB25	tsc_RB28	tsc_RB17		
KB Identity	(26)	(27)	(25)	(28)	(17)	Same as	Same as
LogCh Type	DTCH	DTCH	DTCH	DTCH	DTCH	uplink	uplink
LogCh	tsc_UL_	tsc_UL_DT	tsc_UL_DT	tsc_UL_DT	tsc_UL_DT	configurati	configurati
Identity	DTCH1	CH2	CH3	CH4	CH5	on of	on of
identity	(7)	(8)	(9)	(10)	(13)	Cell_DCH_	Cell_DCH
RLC mode	UM	UM	AM	AM	AM	StandAlon	_StandAlo
TrCH Type			DCH			eSRB on	neSRB on
TrCH identity			tsc_UL_DCH	11		DPCH	PRACH
TICH Identity							
PhyCh Type			DP	DCH			PRACH
PhyCH		too III DDCIIA					
identity	tsc_UL_DPCH1 (20)						H1
identity			(4	20)			(8)

Table 109: Downlink configuration of Cell_2UM_3AM_DCH_HS_DSCH

RB Identity	tsc_RB26 (26)	tsc_RB27 (27)	tsc_RB25 (25)	tsc_RB28 (28)	tsc_RB17 ()		
LogCh Type	DTCH	DTCH	DTCH	DTCH	DTCH	Same as	Same as
LogCh Identity	tsc_DL_D TCH1 (7)	tsc_DL_DT CH2 (8)	tsc_DL_DT CH3 (9)	tsc_DL_DT CH4 (10)	tsc_DL_DT CH5 (11)	downlink configuration of	downlink configurati on of
RLC mode	UM	UM	AM	AM	AM	Cell_DCH_	Cell_DCH
MAC priority	8	8	8	8	8	StandAlone SRB on	_StandAlo neSRB on
TrCH Type			HS-DSCH			DPCH	sCCPCH
TrCH identity /QueuelD		0	1	1 2			
PhyCh Type			DPCH	Secondary CCPCH			
PhyCH identity		tsc_HSPDSCH (18)					tsc_S_CC PCH1 (5)

8.3.35 Configuration of Cell_DCH_Speech_WAMR (Rel-5 or later)

The configuration is based on 3GPP TS 34.108 [3], clauses 6.10.2.4.1.62. The RB0/UM-CCCH is referred to 3GPP TS 34.108 [3], clause 6.10.2.4.3.2.1.2 and RB0/TM-CCCH is referred to 3GPP TS 34.108[3], clause 6.10.2.4.4.1.1.1. The configuration is applied to RAB test 14.2.62.

Table 110: Uplink configuration of Cell_DCH_Speech_WAMR

RB Identity	tsc_RB10 (10)	tsc_RB11 (11)		
LogCh Type	DTCH	DTCH		
LogCh Identity	tsc_UL_DT CH1 (7)	tsc_UL_DTCH 2 (8)	Same as uplink configuration of	Same as uplink configuration of
RLC mode	ТМ	TM	Cell_DCH_StandAloneS RB on DPCH	Cell_DCH_StandAloneSRB on PRACH
TrCH Type	DCH	DCH		
TrCH identity	tsc_UL_D CH1 (1)	tsc_UL_DCH2 (2)		
PhyCh Type		DPD	PRACH	
PhyCH identity		tsc_UL_C (20		tsc_PRACH1 (8)

Table 111: Downlink configuration of Cell_DCH_Speech_WAMR

RB	tsc_RB10	tsc_RB11	tsc_RB5			
Identity	(10)	(11)	(5)			
LogCh Type	DTCH	DTCH	DCCH			
LogCh Identity	tsc_DL_DT CH1 (7)	tsc_DL_DTC H2 (8)	CH5		Same as downlink	
RLC mode	TM	TM	TM	configuration of Cell_DCH_StandAloneSRB	configuration of Cell_DCH_StandAloneSRB	
MAC priority	1	1	5	on DPCH	on sCCPCH	
TrCH Type	DCH	DCH	DCH			
TrCH identity	tsc_DL_D CH1 (6)	tsc_DL_DC H2 (7)	tsc_DL_DC H6 (22)			
PhyCh Type			Secondary CCPCH			
PhyCH identity			tsc_DL_DPCI (26)	H1	tsc_S_CCPCH1 (5)	

8.3.36 Configuration of PS Cell_Four_DTCH_HS_CS and Cell_Four_DTCH_CS_HS (Rel-5 or later)

The configuration is based on 3GPP TS 34.108 [3], clause 6.10.2.4.5.3 and 6.10.2.4.5.3a. The RB0/UM-CCCH is referred to 3GPP TS 34.108 [3], clause 6.10.2.4.3.2.1.2 and RB0/TM-CCCH is referred to 3GPP TS 34.108 [3], clause 6.10.2.4.4.1.1.1.

The uplink configuration is same in clause 8.3.14 except a HS-DPCCH shall be included in the UL_DPCH and tsc RB25 shall be used instead of tsc RB20.

Table 112: Downlink configuration of PS Cell_Four_DTCH_HS_CS and Cell_Four_DTCH_CS_HS

RB Identity	tsc_RB25	tsc_RB10	tsc_RB11	tsc_RB12			
KB Identity	(25)	(10)	(11)	(12)			
LogCh Type	DTCH	DTCH	DTCH	DTCH		Same as	
LogCh Identity	tsc_DL_DTCH4 (10)	tsc_DL_DTC H1 (7)	tsc_DL_DTCH 2 (8)	tsc_DL_DTCH3 (9)	Same as downlink configuration of Cell DCH Stand	downlink configuration of	
RLC mode	AM	TM	TM	TM	AloneSRB on	Cell_DCH_St	
MAC priority	8	1	1	1	DPCH	andAloneSR	
TrCH Type	HS_DSCH	DCH	DCH	DCH	DI OII	B on	
TrCH identity	N/A	tsc_DL_DC H1 (6)	tsc_DL_DCH2 (7)	tsc_DL_DCH3 (8)		sCCPCH	
PhyCh Type	HS-PDSCH		DPCH				
PhyCH identity	tsc_HSPDSCH (18)		tsc	_DL_DPCH1 (26)		tsc_S_CCPC H1 (5)	

8.3.37 Configuration of PS Cell_Two_DTCH_HS_CS (Rel-5 or later)

The configuration is based on 3GPP TS 34.108 [3], clause 6.10.2.4.5.4 and 6.10.2.4.5.4a. The RB0/UM-CCCH is referred to 3GPP TS 34.108 [3], clause 6.10.2.4.3.2.1.2 and RB0/TM-CCCH is referred to 3GPP TS 34.108 [3], clause 6.10.2.4.4.1.1.1.

The uplink configuration is same in clause 8.3.15 except a HS-DPCCH shall be included in the UL_DPCH and tsc_RB25 shall be used instead of tsc_RB20.

Table 113: Downlink configuration of PS Cell_Two_DTCH_HS_CS

RB Identity	tsc_RB25 (25)	tsc_RB10 (10)			
LogCh Type	DTCH	DTCH			
LogCh Identity	tsc_DL_DTCH4 (10)	tsc_DL_DTCH1 (7)	Same as downlink configuration of Cell_DCH_StandAloneSRB on	Same as downlink configuration of	
RLC mode	AM	TM	DPCH	Cell_DCH_StandAloneSRB	
MAC priority	8	1	DFCH	on sCCPCH	
TrCH Type	HS_DSCH	DCH			
TrCH identity	N/A	tsc_DL_DCH1 (6)			
PhyCh Type	HS-PDSCH		Secondary CCPCH		
PhyCH identity	tsc_HSPDSCH (18)		tsc_DL_DPCH1 (20)	tsc_S_CCPCH1 (5)	

8.3.38 Configuration of PS Cell_DCH_64kPS_RAB_SRB_HS (Rel-5 or later)

The configuration is based on 3GPP TS 34.108 [3], clause 6.10.2.4.1.26. The RB0/UM-CCCH is referred to 3GPP TS 34.108 [3], clause 6.10.2.4.3.2.1.2 and RB0/TM-CCCH is referred to 3GPP TS 34.108 [3], clause 6.10.2.4.4.1.1.1.

Table 114: Uplink configuration of PS Cell_DCH_64kPS_RAB_SRB_HS

RB Identity	tsc_RB25 (25)			
LogCh Type	DTCH			
LogCh Identity	tsc_UL_DTC H1 (7)	Same as uplink configuration of Cell_DCH_StandAloneSRB on	Same as uplink configuration of Cell_DCH_StandAloneSRB on	
RLC mode	AM	DPCH	PRACH	
TrCH Type	DCH			
TrCH identity	tsc_UL_DCH 1 (1)			
PhyCh Type		DPDCH	PRACH	
PhyCH		tsc_UL_DPCH1	tsc_PRACH1	
identity		(20)	(8)	

Table 115: Downlink configuration of PS Cell_DCH_64kPS_RAB_SRB SRB

RB Identity	tsc_RB25 (25)				
LogCh Type	DTCH				
LogCh Identity	tsc_DL_DTC H1 (7)	Same as downlink configuration of Cell DCH StandAloneSRB on	Same as downlink configuration of		
RLC mode	AM	DPCH	Cell_DCH_StandAloneSRB on sCCPCH		
MAC priority	8	DI GIT	SCOPOIT		
TrCH Type	DCH				
TrCH identity	tsc_DL_DCH 1 (6)				
PhyCh Type		DPCH	Secondary CCPCH		
PhyCH identity		tsc_DL_DPCH1 (26)	tsc_S_CCPCH1 (5)		

8.3.39 Configuration of PS Cell_DCH_2AM_HS_DSCH (Rel-5 or later)

The configuration is based on 3GPP TS 34.108 [3], clauses 6.10.2.4.1.26 and 6.10.2.4.1.57. The RB0/UM-CCCH is referred to 3GPP TS 34.108 [3], clause 6.10.2.4.3.2.1.2 with 2 AM RAB and RB0/TM-CCCH is referred to 3GPP TS 34.108 [3], clause 6.10.2.4.4.1.1.1. The configuration is applied to MAC and RAB test cases.

Table 116: Uplink configuration of Cell_DCH_2AM_HS_DSCH

RB Identity	tsc_RB25	tsc_RB17	Same as uplink	Same as uplink
	(25)	(17)	configuration of	configuration of
LogCh Type	DTCH	DTCH	Cell_DCH_StandAloneSRB	Cell_DCH_StandAloneSRB
LogCh Identity	tsc_UL_DTCH1	tsc_UL_DTCH2	on DPCH	on PRACH
	(7)	(8)		
RLC mode	AM	AM		
TrCH Type	DCH	DCH		
TrCH identity	tsc_UL_DCH1	tsc_UL_DCH2		
	(1)	(2)		
PhyCh Type		PRACH		
PhyCH identity		tsc_PRACH1		
		(20)		(8)

Table 117: Downlink configuration of Cell_DCH_2AM_HS_DSCH

RB Identity	tsc_RB25	tsc_RB17	Same as uplink configuration	Same as uplink configuration
	(25)	(17)	of	of
LogCh Type	DTCH	DTCH	Cell_DCH_StandAloneSRB	Cell_DCH_StandAloneSRB
LogCh Identity	tsc_DL_DTCH1	tsc_DL_DTCH2	on DPCH	on PRACH
	(7)	(8)		
RLC mode	AM	AM		
MAC priority	8	8		
TrCH Type	HS-DSCH	HS-DSCH		
TrCH identity	0	1		
/QueueID				
PhyCh Type	PDSCH		DPCH	Secondary CCPCH
				-
PhyCH	tsc_HSPDSCH		tsc_DL_DPCH1	tsc_S_CCPCH1
identity		(18)	(26)	(5)

8.3.40 Configuration of Cell_Three_DTCH_5SRB (Rel-5 or later)

The configuration is based on 3GPP TS 34.108 [3], clauses 6.10.2.4.1.62. The RB0/UM-CCCH is referred to 3GPP TS 34.108 [3], clause 6.10.2.4.3.2.1.2 and RB0/TM-CCCH is referred to 3GPP TS 34.108 [3], clause 6.10.2.4.4.1.1.1. The configuration is applied to RB tests.

The uplink configuration is same in clause 8.3.3 Cell_DCH_Speech.

Table 118: Downlink configuration of Cell_Three_DTCH_5SRB

RB Identity	tsc_RB10	tsc_RB11	tsc_RB12	tsc_RB1	tsc_RB2	tsc_RB3	tsc_RB4	tsc_RB5	
ND Identity	(10)	(11)	(12)	(1)	(2)	(3)	(4)	(5)	
LogCh Type	DTCH	DTCH	DTCH	DCCH	DCCH	DCCH	DCCH	DCCH	Same as
LogCh	tsc_DL_DTCH	tsc_DL_DTCH	tsc_DL_DTCH	tsc_DL_DCCH	tsc_DL_DCCH	tsc_DL_DCCH	tsc_DL_DCCH	tsc_DL_DCCH	downlink
Identity	1	2	3	1	2	3	4	5	configuration
identity	(7)	(8)	(9)	(1)	(2)	(3)	(4)	()	of
RLC mode	TM	TM	TM	UM	AM	AM	AM	TM	Cell_DCH_Sta
MAC priority	1	1	1	1	2	3	4	5	ndAloneSRB
TrCH Type	DCH	DCH	DCH		DC	H		DCH	on sCCPCH
TrCH/ Q-	tsc_DL_DCH1	tsc_DL_DCH2	tsc_DL_DCH3		tsc_DL	_DCH5		tsc_DL_DCH6	
identity	(6)	(7)	(8)		(1)	0)		(22)	
PhyCh Type				DΒ	СН				Secondary
r iiyoii i ype	DPCH							CCPCH	
PhyCH		tsc DL DPCH1							tsc_S_CCPC
identity		(26)							H1
identity				(2	0)				(5)

8.3.41 Configuration of Cell_Five_DTCH_CS_HS (Rel-5 or later)

The configuration is based on 3GPP TS 34.108 [3], clauses 6.10.2.4.5.7. The RB0/UM-CCCH is referred to 3GPP TS 34.108 [3], clause 6.10.2.4.3.2.1.2 and RB0/TM-CCCH is referred to 3GPP TS 34.108 [3], clause 6.10.2.4.4.1.1.1. The configuration is applied to RB tests.

Table 119: Uplink configuration of Cell_Five_DTCH_CS_HS and Cell_Five_DTCH_CS_HS

RB Identity	tsc_RB10 (10)	tsc_RB11 (11)	tsc_RB12 (12)	tsc_RB25 (25)	tsc_RB17 (17)		
LogCh Type	DTCH	DTCH	DTCH	DTCH	DTCH		
LogCh Identity	tsc_UL_D TCH1 (7)	tsc_UL_D TCH2 (8)	tsc_UL_D TCH3 (9)	tsc_UL_D TCH4 (10)	tsc_UL_D TCH5 (13)	Same as uplink configuration of Cell_DCH_Stan	Same as uplink configuration of
RLC mode	ТМ	ТМ	ТМ	AM	AM	dAloneSRB on DPCH except	Cell_DCH_Stan dAloneSRB on
MAC priority	1	1	1	1	1	TrCH Identity is tsc_UL_DCH6	PRACH
TrCH Type	DCH	DCH	DCH	DCH	DCH	(21)	
TrCH	tsc_UL_D	tsc_UL_D	tsc_UL_D	tsc_UL_D	tsc_UL_D		
identity	CH1	CH2	CH3	CH4	CH5		
	(1)	(2)	(3)	(4)	(5)		
PhyCh Type		Secondary CCPCH					
PhyCH identity		tsc_S_CCPCH1 (5)					

Table 120: Downlink configuration of PS Cell_Five_DTCH_HS_CS and Cell_Five_DTCH_CS_HS

RB	tsc_RB25	tsc_RB17	tsc_RB10	tsc_RB11	tsc_RB12		
Identity	(25)	(17)	(10)	(11)	(12)		
LogCh Type	DTCH	DTCH	DTCH	DTCH	DTCH		
LogCh Identity	tsc_DL_D TCH4 (10)	tsc_DL_DT CH5 (13)	tsc_DL_DTC H1 (7)	tsc_DL_D TCH2 (8)	tsc_DL_DTC H3 (9)	Same as downlink configuration of	Same as downlink configuration of
RLC mode	AM	AM	TM	TM	TM	Cell DCH Stan	Cell DCH Stan
MAC priority	8	8	1	1	1	dAloneSRB on DPCH	dAloneSRB on sCCPCH
TrCH Type	HS_DSCH	HS_DSCH	DCH	DCH	DCH	DI CIT	3001 011
TrCH identity	N/A	N/A	tsc_DL_DC H1 (6)	tsc_DL_D CH2 (7)	tsc_DL_DC H3 (8)		
PhyCh Type	HS-P	DSCH	DPCH				Secondary CCPCH
PhyCH identity	_	PDSCH 8)		tsc_[DL_DPCH1 (26)		tsc_S_CCPCH1 (5)

8.3.42 Configuration of Cell_DCH_E_HS (Rel-6 or later)

The configuration is based on 3GPP TS 34.108 [3], clause 6.10.2.4.6.1. The RB0/UM-CCCH is referred to 3GPP TS 34.108 [3], clause 6.10.2.4.3.2.1.2 and RB0/TM-CCCH is referred to 3GPP TS 34.108 [3], clause 6.10.2.4.4.1.1.1.

The configuration is applied to RRC signalling tests in the DCH state where a PS RAB on DTCH mapped on E-DCH in uplink and HS-DSCH in downlink is setup for the streaming or interactive or background service class (A12).

The downlink configuration is same in clause 8.3.32 Cell_DCH_HS_DSCH.

Table 121: Uplink configuration of Cell_DCH_E_HS

RB Identity	tsc_RB25	Same as uplink	Same as uplink
	(25)	configuration of	configuration of
LogCh Type	DTCH	Cell_DCH_StandAloneSRB	Cell_DCH_StandAloneSRB
LogCh Identity	tsc_UL_DTCH1	on DPCH	on PRACH
Logon identity	(7)		
RLC mode	AM		
TrCH Type	E-DCH		
TrCH identity/Mac-d Flow Id	2		
PhyCh Type	E-DPDCH	DPDCH	PRACH
PhyCH identity	tsc_E_DPCH	tsc_UL_DPCH1	tsc_PRACH1
FilyCh Identity	(22)	(20)	(8)

8.3.43 Configuration of Cell_DCH_dlSRB_E_HS (Rel-6 or later)

The configuration is based on 3GPP TS 34.108 [3], clause 6.10.2.4.6.2. The RB0/UM-CCCH is referred to 3GPP TS 34.108 [3], clause 6.10.2.4.3.2.1.2 and RB0/TM-CCCH is referred to 3GPP TS 34.108 [3], clause 6.10.2.4.4.1.1.1.

The configuration is applied to RRC signalling tests in the DCH state where a PS RAB is setup for the interactive or background service class (A13):

- PS RAB on DTCH is mapped on E-DCH in uplink and HS-DSCH in downlink.
- Uplink SRBs on DCCH are mapped on E-DCH.
- Downlink SRBs on DCCH are mapped on DCH.

The downlink configuration is same in clause 8.3.32 Cell_DCH_HS_DSCH.

Table 122: Uplink configuration of Cell_DCH_dlSRB_E_HS

RB Identity	tsc_RB25 (25)	Same as uplink	
LogCh Type	DTCH	configuration of	
LogCh Identity	tsc_UL_DTCH1 (7)	Cell_DCH_StandAloneSRB on DPCH	Same as uplink configuration of Cell_DCH_StandAloneSRB on
RLC mode	AM		PRACH
TrCH Type		E-DCH	
TrCH identity/ Mac-	2	1	
d Flow Id			
PhyCh Type	E	-DPDCH	PRACH
PhyCH identity	tsc	_E_DPCH	tsc_PRACH1
1 Hyorr Identity		(22)	(8)

8.3.44 Configuration of Cell_E_HS (Rel-6 or later)

The configuration is based on 3GPP TS 34.108 [3], clause 6.10.2.4.6.3. The RB0/UM-CCCH is referred to 3GPP TS 34.108 [3], clause 6.10.2.4.3.2.1.2 and RB0/TM-CCCH is referred to 3GPP TS 34.108 [3], clause 6.10.2.4.4.1.1.1.

The configuration is applied to RRC signalling tests in the DCH state where a PS RAB is setup for the interactive or background service class (A14):

- PS RAB on DTCH is mapped on E-DCH in uplink and HS-DSCH in downlink.
- Uplink SRBs on DCCH are mapped on E-DCH.
- Downlink SRBs on DCCH are mapped on HS-DSCH.

The uplink configuration is same in clause 8.3.43 Cell_DCH_dlSRB_E_HS. In the downlink F-DPCH is configured.

tsc RB25 **RB** Identity (25)Same as downlink LogCh Type DTCH configuration of tsc_DL_DTCH1 LogCh Identity Cell_DCH_StandAloneSRB Same as downlink configuration (7)on DPCH of Cell_DCH_StandAloneSRB **RLC mode** AM on PRACH MAC priority 8 TrCH Type HS-DSCH TrCH identity / Mac-0 d Flow Id **PDSCH** PhyCh Type Secondary CCPCH tsc_HSPDSCH tsc_S_CCPCH1 PhyCH identity (18)(5)

Table 123: Downlink configuration of Cell_E_HS

8.3.45 Configuration of PS Cell_Four_DTCH_E_HS_CS and Cell_Four_DTCH_CS_E_HS (Rel-6 or later)

The configuration is based on 3GPP TS 34.108 [3], clause 6.10.2.4.6.4. The RB0/UM-CCCH is referred to 3GPP TS 34.108 [3], clause 6.10.2.4.3.2.1.2 and RB0/TM-CCCH is referred to 3GPP TS 34.108 [3], clause 6.10.2.4.4.1.1.1.

The configuration is applied to RRC signalling tests in the DCH state where a PS RAB is setup for the interactive or background service class:

- PS RAB on DTCH is mapped on E-DCH in uplink and HS-DSCH in downlink.
- CS RAB on DTCH are mapped on DCH in uplink and downlink.
- Uplink SRBs on DCCH are mapped on DCH.
- Downlink SRBs on DCCH are mapped on DCH.

The downlink configuration is same as in clause 8.3.36 Cell_Four_DTCH_HS_CS and Cell_Four_DTCH_CS_HS.

Table 124: Uplink configuration of Cell_Four_DTCH_E_HS_CS and Cell_Four_DTCH_CS_E_HS

RB Identity	tsc_RB25	tsc_RB10	tsc_RB11	tsc_RB12		
ND Identity	(25)	(10)	(11)	(12)		
LogCh Type	DTCH	DTCH	DTCH	DTCH		
	tsc_UL_DTC	tsc_UL_D	tsc_UL_D	tsc_UL_D		
LogCh Identity	H4	TCH1	TCH2	TCH3	Same as uplink	Same as uplink
	(10)	(7)	(8)	(9)	configuration of	configuration of
RLC mode	AM	TM	TM	TM	Cell_DCH_StandAlon	Cell_DCH_StandAlone
MAC priority		1	1	1	eSRB on DPCH	SRB on PRACH
TrCH Type	E-DCH	DCH	DCH	DCH		
TrCH identity /	2	tsc_UL_D	tsc_UL_D	tsc_UL_D		
Mac-d Flow Id		CH1	CH2	CH3		
		(1)	(2)	(3)		
PhyCh Type	E-DPDCH		DPDCH			PRACH
PhyCH identity	tsc_E_DPCH		tsc_UL_DPCH1			tsc_PRACH1
FilyOff Identity	(22)			(20)		(8)

8.3.46 Configuration of Cell_2DCH_2AM_dlSRB_E_HS (Rel-6 or later)

The configuration is based on 3GPP TS 34.108 [3], clause 6.10.2.4.5.2. The RB0/UM-CCCH is referred to 3GPP TS 34.108 [3], clause 6.10.2.4.3.2.1.2 and RB0/TM-CCCH is referred to 3GPP TS 34.108 [3], clause 6.10.2.4.4.1.1.1.

The configuration is applied to RRC signalling tests in the DCH state where a PS RAB is setup for the interactive or background service class (A15):

- 2 AM PS RAB on DTCH is mapped on E-DCH in uplink and HS-DSCH in downlink.
- Uplink SRBs on DCCH are mapped on E-DCH.
- Downlink SRBs on DCCH are mapped on DCH.

The downlink configuration is same in clause 8.3.39 Cell_2DCH_ 2AM_HS_DSCH

Table 125: Uplink configuration of Cell_2DCH_2AM_dISRB_E_HS

RB Identity	tsc_RB25	tsc_RB17		
ND Identity	(25)	(17)	Same as uplink	
LogCh Type	DTCH	DTCH	configuration of	
LogCh	tsc_UL_DTCH1	tsc_UL_DTCH2	Cell_DCH_StandAloneSRB	Same as uplink
Identity	(7)	(8)	on DPCH	configuration of
RLC mode	AM	AM		Cell_DCH_StandAloneSRB
TrCH Type		E-DCH	1	on PRACH
TrCH	2	3		
identity//Mac-			1	
d Flow Id				
PhyCh Type		E-DPDC	PRACH	
PhyCH		tsc_E_DF	tsc_PRACH1	
identity		(22)		(8)

8.3.47 Configuration of Cell_E_HS_MAC_TM_RAB (Rel-6 or later)

The configuration is based on 3GPP TS 34.108 [3], clause 6.11.4c, with RAB configured in TM mode on SS side. The RB0/UM-CCCH is referred to 3GPP TS 34.108 [3], clause 6.10.2.4.3.2.1.2 and RB0/TM-CCCH is referred to 3GPP TS 34.108 [3], clause 6.10.2.4.4.1.1.1.

The configuration is applied to MAC(e/es) signalling tests in the DCH state where a PS RAB is setup for the interactive or background service class (A12):

- PS RAB on DTCH is mapped on E-DCH in uplink and HS-DSCH in downlink.
- Uplink SRBs on DCCH are mapped on DCH
- Downlink SRBs on DCCH are mapped on DCH

Table 126: Uplink configuration of Cell_E_HS_MAC_TM_RAB

RB Identity	tsc_RB_DTCH_E_DCH_MAC1 (-21)	Same as uplink configuration of	Same as uplink configuration of
LogCh Type	DTCH	Cell_DCH_StandAloneSRB	Cell_DCH_StandAloneSRB
LogCh Identity	tsc_UL_DTCH1 on DPCH		on PRACH
RLC mode	ŤM]	
TrCH Type	E-DCH		
TrCH identity/Mac-d Flow	2		
ld			
PhyCh Type	E-DPDCH	DPDCH	PRACH
PhyCH identity	tsc_E_DPCH	tsc_UL_DPCH1	tsc_PRACH1
1 Hyorr Identity	(22)	(20)	(8)

Table 127: Downlink configuration of Cell_E_HS_MAC_TM_RAB

RB Identity	tsc_RB_DTCH_E_DCH_MAC1	Same as uplink configuration	Same as uplink configuration
	(-21)	of Cell_DCH_StandAloneSRB	of Cell_DCH_StandAloneSRB
LogCh Type	DTCH	on DPCH	on PRACH
LogCh Identity	tsc_DL_DTCH1		
	(7)		
RLC mode	TM		
MAC priority	8		
TrCH Type	HS-DSCH		
TrCH identity	0		
/QueueID			
PhyCh Type	PDSCH	DPCH	Secondary CCPCH
PhyCH identity	tsc_HSPDSCH	tsc_DL_DPCH1	tsc_S_CCPCH1
	(18)	(26)	(5)

8.3.48 Configuration of Cell_2DCH_MAC_2TM_dlSRB_E_HS (Rel-6 or later)

The configuration is based on 3GPP TS 34.108 [3], clause 6.11.4d. The RB0/UM-CCCH is referred to 3GPP TS 34.108 [3], clause 6.10.2.4.3.2.1.2 and RB0/TM-CCCH is referred to 3GPP TS 34.108 [3], clause 6.10.2.4.4.1.1.1. (A13).

The configuration is applied to MAC(e/es) signalling tests in the DCH state where a PS RAB is setup for the interactive or background service class (A15):

- 2 TM PS RAB on DTCH is mapped on E-DCH in uplink and HS-DSCH in downlink.
- Uplink SRBs on DCCH are mapped on E-DCH.
- Downlink SRBs on DCCH are mapped on DCH.

Table 128: Uplink configuration of Cell_2DCH_MAC_2TM_dISRB_E_HS

RB Identity	tsc_RB_DTCH_E_DCH_MAC1 (-21)	tsc_RB_DTCH_E_DCH_MAC2 (-22)	Same as uplink	
LogCh Type	DTCH	DTCH	configuration	
LogCh	tsc_UL_DTCH1	tsc_UL_DTCH2	of	Same as uplink
Identity	(7)	(8)	Cell_DCH_St	configuration of
RLC mode	TM	TM	andAloneSRB on DPCH	Cell_DCH_StandAlo
TrCH Type		HESKE OH FRACH		
TrCH	2	3	_	
identity//Mac-			1	
d Flow Id		E-DPDCH		
PhyCh Type		PRACH		
PhyCH		tsc_PRACH1		
identity		(22)		(8)

Table 129: Downlink configuration of Cell_2DCH_MAC_2TM_dISRB_E_HS

RB Identity	tsc_RB_DTCH_E_DCH_MAC1 (-	tsc_RB_DTCH_E_DCH_MAC2 (-	Same as	Same as uplink
	21)	22)	uplink	configuration of
LogCh Type	DTCH	DTCH	configuration	Cell_DCH_Stand
LogCh	tsc_DL_DTCH1	tsc_DL_DTCH2	of	AloneSRB on
Identity	(7)	(8)	Cell_DCH_St	PRACH
RLC mode	TM	TM	andAloneSRB	
MAC priority	8	8	on DPCH	
TrCH Type	HS-DSCH	HS-DSCH		
TrCH identity	0	1		
/QueueID				
PhyCh Type	PDS	SCH	DPCH	Secondary
				CCPCH
PhyCH	tsc_HSI	tsc_DL_DPC	tsc_S_CCPCH1	
identity	(1)	H1	(5)	
			(26)	

8.3.49 Configuration of Cell_2DCH_1AM_1UM_E_HS (Rel-6 or later)

The configuration is based on 3GPP TS 34.108 [3], clause 6.10.2.4.6.6. The RB0/UM-CCCH is referred to 3GPP TS 34.108 [3], clause 6.10.2.4.3.2.1.2 and RB0/TM-CCCH is referred to 3GPP TS 34.108 [3], clause 6.10.2.4.4.1.1.1.

The configuration is applied to RRC signalling tests in the DCH state where a PS RAB is setup for the streaming or interactive or background service class and another UM PS Bearer is setup for conversational / unknown or speech (A16):

- 1 AM PS RAB and 1 UM PS RAB on DTCH are mapped on E-DCH in uplink and HS-DSCH in downlink.
- Uplink SRBs on DCCH are mapped on E-DCH.
- Downlink SRBs on DCCH are mapped on HS-DSCH.

In the downlink F-DPCH is configured.

Table 130: Uplink configuration of Cell_2DCH_1AM_1UM_E_HS

RB Identity	tsc_RB25 (25)	tsc_RB27 (27)	Same as uplink	
LogCh Type	DTCH	DTCH	configuration of	
LogCh Identity	tsc_UL_DTCH1 (7)	tsc_UL_DTCH3 (9)	Cell_DCH_StandAloneSRB on DPCH	Same as uplink configuration of
RLC mode	AM	UM		Cell_DCH_StandAloneSRB
TrCH Type		E-DCH	on PRACH	
TrCH identity//Mac-d	2	4	4	
Flow Id			ı	
PhyCh Type	E-DPDCH			PRACH
PhyCH identity	tsc_E_DPCH (22)			tsc_PRACH1 (8)

Table 131: Downlink configuration of Cell_2DCH_1AM_1UM_E_HS

RB Identity	tsc_RB25 (25)	tsc_RB27 (27)		
LogCh Type	DTCH	DTCH	Same as downlink configuration of	
LogCh Identity	tsc_DL_DTCH 1 (7)	tsc_DL_DTCH3 (9)	Cell_DCH_StandAloneSRB on DPCH	Same as downlink configuration of
RLC mode	AM	UM	on DPCH	Cell_DCH_StandAloneSRB on
MAC priority	8	8		PRACH
TrCH Type		HS-DS0		
TrCH identity /	0	3	1	
Mac-d Flow Id				
PhyCh Type		PDSCI	Secondary CCPCH	
PhyCH identity		tsc_HSPD (18)	tsc_S_CCPCH1 (5)	

8.3.50 Configuration of Cell_3DCH_2AM_1UM_E_HS (Rel-6 or later)

The configuration is based on 3GPP TS 34.108 [3], clause 6.10.2.4.6.7. The RB0/UM-CCCH is referred to 3GPP TS 34.108 [3], clause 6.10.2.4.3.2.1.2 and RB0/TM-CCCH is referred to 3GPP TS 34.108 [3], clause 6.10.2.4.4.1.1.1.

The configuration is applied to RRC signalling tests in the DCH state where two PS RABs are setup for the streaming or interactive or background service class and another UM PS Bearer is setup for conversational / unknown or speech:

- 2 AM PS RABs and 1 UM PS RAB on DTCH are mapped on E-DCH in uplink and HS-DSCH in downlink.
- Uplink SRBs on DCCH are mapped on E-DCH.
- Downlink SRBs on DCCH are mapped on HS-DSCH.

In the downlink F-DPCH is configured.

Table 132: Uplink configuration of Cell_2DCH_1AM_1UM_E_HS

RB Identity	tsc_RB25 (25)	tsc_RB17 (17)	tsc_RB27				
ND Identity			(27)	Same as uplink			
LogCh Type	DTCH	DTCH	DTCH	configuration of			
LogCh Identity	tsc_UL_DTCH1	tsc_UL_DTCH	tsc_UL_DTCH3	Cell_DCH_StandAlon	Same as uplink		
Logon identity	(7)	2 (8)	(9)	eSRB on DPCH	configuration of		
RLC mode	AM	AM	UM		Cell_DCH_StandAlon		
TrCH Type		I	E-DCH		eSRB on PRACH		
TrCH	2	3	4				
identity//Mac-d				1			
Flow Id							
PhyCh Type		PRACH					
PhyCH identity		tsc_PRACH1					
Phyon identity		(22)					

Table 133: Downlink configuration of Cell_2DCH_1AM_1UM_E_HS

RB Identity	tsc_RB25 (25)	tsc_RB17 (17)	tsc_RB27 (27)		
LogCh Type	DTCH	DTCH	DTCH	Same as downlink	
LogCh Identity	tsc_DL_DTCH1		tsc_DL_DTCH3	configuration of Cell_DCH_StandAlon	Same as downlink
RLC mode	AM	(8) AM	(9) UM	eSRB on DPCH	configuration of
MAC priority	8	8	8		Cell_DCH_StandAlone SRB on PRACH
TrCH Type		HS	S-DSCH	•	SKD UII FRACH
TrCH identity / Mac-d Flow Id	0	2	3	1	
PhyCh Type		Secondary CCPCH			
PhyCH identity	tsc_HSPDSCH (18)				tsc_S_CCPCH1 (5)

8.3.51 Configuration of Cell_Four_DTCH_CS_E_HS_5SRB (Rel-6 or later)

The configuration is based on 3GPP TS 34.108 [3], clauses 6.10.2.4.6.8. The RB0/UM-CCCH is referred to 3GPP TS 34.108 [3], clause 6.10.2.4.3.2.1.2 and RB0/TM-CCCH is referred to 3GPP TS 34.108 [3], clause 6.10.2.4.4.1.1.1. The configuration is applied to RB tests.

The uplink configuration is same as in clause 8.3.45 Cell_Four_DTCH_E_HS_CS and Cell_Four_DTCH_CS_E_HS.

The downlink configuration is the same as in clause 8.3.52 Cell_Four_DTCH_HS_5SRB.

8.3.52 Configuration of Cell_Four_DTCH_HS_5SRB (Rel-5 or later)

The configuration is based on 3GPP TS 34.108 [3], clauses 6.10.2.4.5.8. The RB0/UM-CCCH is referred to 3GPP TS 34.108 [3], clause 6.10.2.4.3.2.1.2 and RB0/TM-CCCH is referred to 3GPP TS 34.108 [3], clause 6.10.2.4.4.1.1.1. The configuration is applied to RB tests.

The uplink configuration is same in clause 8.3.36 Cell_Four_DTCH_HS_CS and Cell_Four_DTCH_CS_HS.

Table 134: Downlink configuration of Cell_Four_DTCH_HS_5SRB

RB Identity	tsc_RB25	tsc_RB10	tsc_RB11	tsc_RB12	tsc_RB1	tsc_RB2	tsc_RB3	tsc_RB4	tsc_RB5	
KB identity	(25)	(10)	(11)	(12)	(1)	(2)	(3)	(4)	(5)	
LogCh Type	DTCH	DTCH	DTCH	DTCH	DCCH	DCCH	DCCH	DCCH	DCCH	Same as
LogCh	tsc_DL_DTCH	tsc_DL_DTCH	tsc_DL_DTCH	tsc_DL_DTCH	tsc_DL_DCCH	tsc_DL_DCCH	tsc_DL_DCCH	tsc_DL_DCCH	tsc_DL_DCCH	downlink
Identity	41	1	2	3	1	2	3	4	5	configuration
lucitity	(107)	(7)	(8)	(9)	(1)	(2)	(3)	(4)	(5)	of
RLC mode	AM	TM	TM	TM	UM	AM	AM	AM	TM	Cell_DCH_Sta
MAC priority	8	1	1	1	1	2	3	4	5	ndAloneSRB
TrCH Type	HS-DSCH	DCH	DCH	DCH		DC	CH		DCH	on sCCPCH
TrCH/ Q-	0	tsc_DL_DCH1	tsc_DL_DCH2	tsc_DL_DCH3		tsc_DL	_DCH5		tsc_DL_DCH6	
identity	U	(6)	6) (7) (8) (10)							
PhyCh Type	PDSCH		DPCH						Secondary	
r iiyoii i ype			DI GIT					CCPCH		
PhyCH	tsc_HSPDSC		tsc_DL_DPCH1						tsc_S_CCPC	
identity	Н				(2	and the second s				H1
lucillity	(18)				(2	0)				(5)

8.3.53 Configuration of Cell_E_HS_StandAloneSRB (Rel-6 or later)

The configuration is based on 3GPP TS 34.108 [3], clause 6.10.2.4.6.1a. The RB0/UM-CCCH is referred to 3GPP TS 34.108 [3], clause 6.10.2.4.3.2.1.2 and RB0/TM-CCCH is referred to 3GPP TS 34.108 [3], clause 6.10.2.4.4.1.1.1.

The configuration is applied to stand-alone SRB RRC signalling tests in the DCH:

- Uplink SRBs on DCCH are mapped on E-DCH.
- Downlink SRBs on DCCH are mapped on HS-DSCH.

Additionally UL-DPCCH and HS-DPCCH are configured in UL as well as F-DPCH is configured in DL.

Table 131: Uplink configuration of Cell_E_HS_StandAloneSRB

RB Identity	tsc_RB1	tsc_RB2	tsc_RB3	tsc_RB4	
ND Identity	(1)	(2)	(3)	(4)	
LogCh Type	DCCH	DCCH	DCCH	DCCH	
LogCh Identity	tsc_UL_DCCH1	tsc_UL_DCCH2	tsc_UL_DCCH3	tsc_UL_DCCH4	Same as uplink configuration
Logon identity	(1)	(2)	(3)	(4)	of Cell_DCH_StandAloneSRB
RLC mode	UM	AM	AM	AM	on PRACH
TrCH Type		E-D			
TrCH identity /	t	sc_E_DCH_MAC			
Mac-d Flow Id		(1			
PhyCh Type		E-DP	PRACH		
PhyCH identity	tsc_E_DPCH			tsc_PRACH1	
r nyon identity	(22)				(8)

Table 131: Downlink configuration of Cell_E_HS_StandAloneSRB

RB Identity	tsc_RB1	tsc_RB2	tsc_RB3	tsc_RB4	
KB Identity	(1)	(2)	(3)	(4)	
LogCh Type	DCCH	DCCH	DCCH	DCCH	
	tsc_DL_DCCH	tsc_DL_DCCH	tsc_DL_DCCH	too DL DCCH4	Como ao decembrato
LogCh Identity	1	2	3	tsc_DL_DCCH4	Same as downlink
	(1)	(2)	(3)	(4)	configuration of Cell_DCH_StandAloneSRB on
RLC mode	UM	AM	AM	AM	PRACH
MAC priority	1	2	3	4	TRACIT
TrCH Type		Н			
TrCH identity /	1	sc_HS_DSCH_			
Mac-d Flow Id					
PhyCh Type		HS	Secondary CCPCH		
PhyCH identity		tsc_	HSPDSCH		tsc_S_CCPCH1
FilyChidentity			(18)		(5)

8.3.54 MBMS channel configuration (Rel-6 or later)

The MBMS channel configurations are configured in addition to any existing configurations defined in clause 8.3.

8.3.54.1 Configuration cell_MBMS_MCCH (Rel-6 or later)

The configuration is based on 3GPP TS 34.108 [3], clause 6.10.2.4.3.

The configuration is applied to the MBMS tests.

Table 135: cell_MBMS_MCCH

RB Identity	tsc_RB_MCCH
ND Identity	(8)
LogCh Type	MCCH
LogCh Identity	tsc_MCCH1
	(1)
RLC mode	UM
MAC priority	1
TrCH Type	FACH
TrCH identity	tsc_FACH3
Tron identity	(16)
PhyCh Type	Secondary CCPCH
PhyCH identity	tsc_S_CCPCH2
Filyon identity	(10)

8.3.54.2 Configuration cell_MBMS_MCCH_One_MTCH (Rel-6 or later)

The configuration is based on 3GPP TS 34.108 [3], clause 6.10.2.4.3.

The configuration is applied to the MBMS tests.

Table 136: cell_MBMS_MCCH_One_MTCH

RB Identity	tsc_RB_MCCH	tsc_RB_MTCH1	
KB Identity	(8)	(14)	
LogCh Type	MCCH	MTCH	
LogCh Identity	tsc_MCCH1	tsc_MTCH1	
Logon identity	(1)	(1)	
RLC mode	UM	UM	
MAC priority	1	1	
TrCH Type	FACH	FACH	
TrCH identity	tsc_FACH3	tsc_FACH4	
Tron identity	(16)	(17)	
PhyCh Type	Secondary CCPCH	Secondary CCPCH	
PhyCH identity	tsc_S_CCPCH2	tsc_S_CCPCH3	
Filyon identity	(10)	(13)	

8.3.55 Configuration of PS Cell_DCH_64kPS_AM_RAB

The configuration is based on 3GPP TS 34.108 [3], clause 6.10.2.4.1.26. The RB0/UM-CCCH is referred to 3GPP TS 34.108 [3], clause 6.10.2.4.3.2.1.2 and RB0/TM-CCCH is referred to 3GPP TS 34.108 [3], clause 6.10.2.4.4.1.1.1.

The configuration is applied to MBMS tests in the DCH state where a PS RAB on DTCH is setup for the interactive or background service class.

Table 137: Uplink configuration of PS Cell_DCH_64kPS_AM_RAB

RB Identity	tsc_RB22 (22)			
LogCh Type	DTCH			
LogCh Identity	tsc_UL_DTC H2 (8)	Same as uplink configuration of Cell_DCH_StandAloneSRB on	Same as uplink configuration of Cell_DCH_StandAloneSRB on	
RLC mode	AM	DPCH	PRACH	
TrCH Type	DCH			
TrCH identity	tsc_UL_DCH 1 (1)			
PhyCh Type		DPDCH	PRACH	
PhyCH		tsc_UL_DPCH1	tsc_PRACH1	
identity		(20)	(8)	

Table 138: Downlink configuration of PS Cell_DCH_64kPS_AM_RAB

RB Identity	tsc_RB22 (22)				
LogCh Type	DTCH				
LogCh Identity	tsc_DL_DTC H2 (8)	Same as downlink configuration of Cell DCH StandAloneSRB on	Same as downlink configuration of Cell DCH StandAloneSRB on		
RLC mode	AM	DPCH	sCCPCH		
MAC priority	1	DI GIT	3001 011		
TrCH Type	DCH				
TrCH identity	tsc_DL_DCH 1 (6)				
PhyCh Type		DPCH	Secondary CCPCH		
PhyCH identity		tsc_DL_DPCH1 (26)	tsc_S_CCPCH1 (5)		

8.3.56 Configuration of PS Cell_MBMS_PTPRB

The configuration is based on, clause 6.10.2.4.1.58. The RB0/UM-CCCH is referred to 3GPP TS 34.108 [3], clause 6.10.2.4.3.2.1.2 and RB0/TM-CCCH is referred to 3GPP TS 34.108 [3], clause 6.10.2.4.4.1.1.1. The configuration is applied to MBMS PTP RB test cases.

The uplink configuration is same in clause 8.3.2 Cell_DCH_StandAloneSRB.

tsc_RB21 **RB** Identity (21)LogCh **DTCH** Type tsc_DL_DTCH2 LogCh Same as downlink configuration of Same as downlink configuration of Identity (8) Cell_DCH_StandAloneSRB on Cell_DCH_StandAloneSRB on **RLC** mode UM **DPCH** sCCPCH MAC 1 priority TrCH Type DCH TrCH tsc DL DCH2 identity (7)**PhyCh DPCH** Secondary CCPCH Type **PhyCH** tsc_DL_DPCH1 tsc_S_CCPCH1 identity (26)(5)

Table 139: Downlink configuration of Cell_MBMS_PTPRB

8.3.57 Configuration of PS Cell MBMS PTPRB AM

The configuration is based on, clause 6.10.2.4.1.58. The RB0/UM-CCCH is referred to 3GPP TS 34.108 [3], clause 6.10.2.4.3.2.1.2 and RB0/TM-CCCH is referred to 3GPP TS 34.108 [3], clause 6.10.2.4.4.1.1.1. The configuration is applied to MBMS PTP RB test cases, with additional PS RAB established.

The uplink configuration is same in clause $8.3.8 \ Cell_DCH_64kPS_RAB_SRB$ and $Cell_PDCP_AM_RAB$.

tsc RB20 tsc RB21 **RB** Identity (20)(21)LogCh Type DTCH DTCH LogCh tsc DL DTCH1 tsc_DL_DTCH2 Same as downlink Same as downlink configuration Identity configuration of (7)(8)of Cell_DCH_StandAloneSRB **RLC** mode Cell_DCH_StandAloneSRB AM UM on DPCH **MAC** priority on sCCPCH 1 1 TrCH Type DCH DCH tsc_DL_DCH1 tsc_DL_DCH2 TrCH identity (6)(7)**PhyCh Type DPCH** Secondary CCPCH **PhyCH** tsc_DL_DPCH1 tsc_S_CCPCH1 identity (26)(5)

Table 140: Downlink configuration of PS Cell_MBMS_PTPRB_AM

8.4 System information blocks scheduling

All SIBs specified in 3GPP TS 34.108 [3] are broadcast for all test cases in the present document. The repeat period of broadcasting of a complete SIB configuration is 64 frames (0,64 s) as the default configuration.

Except MIB and SB1, they have the highest scheduling rates, SIB7 has also a higher scheduling rate.

According to the default SIB contents in 3GPP TS 34.108 [3], SIB11 and SIB12 have 3 segments. SIB5/SIB5bis has 4 segments for FDD and 5 segments for 1.28 Mcps TDD. SIB 6 has 4 segments. MIB, SB1, SIB1, SIB2, SIB3, SIB4, SIB7 and SIB18 are not segmented, i.e. one segment for each. For the PDCP tests, SIB16 has 7 segments.

Use CMAC_SYSINFO_CONFIG_REQ, CMAC_SYSINFO_CONFIG_CNF and RLC_TR_DATA_REQ as interface to SS for broadcasting.

Two TSOs are defined, one for PER encoding function, the other for segmentation function. The TSOs shall be implemented in the tester.

8.4.1 Grouping SIBs for testing

The grouping of SIBs is defined in 3GPP TS 34.108 [3], clause 6.1.0a.1.

8.4.2 SIB configurations

SIB configurations are defined in 3GPP TS 34.108 [3], clause 6.1.0a.2.

8.4.3 Test SIB default schedule

The SIB default schedule is defined in 3GPP TS 34.108 [3], clause 6.1.0a.3.

8.4.3.1 Test SIB schedule for idle mode, measurement and Inter-RAT UTRAN to GERAN test cases

The SIB schedule is defined in 3GPP TS 34.108 [3], clause 6.1.0a.4.2.

8.4.4 Test SIB special schedule

8.4.4.1 Test SIB schedule for two S-CCPCH or two PRACH

The SIB schedule for two S-CCPCH or two PRACH is defined in 3GPP TS 34.108 [3], clause 6.1.0a.4.1.

8.4.4.2 Test SIB schedule for Inter-Rat Handover from GERAN to UTRAN Test

The SIB schedule for Inter-Rat Handover from GERAN to UTRAN Test is defined in 3GPP TS 34.108 [3], clause 6.1.0a.4.3.

8.4.5 Handling the transmission of SIB

According to the SIB repeat periods, SIBs need to be transmitted on a very regular basis during the operation of a test case. This transmission usually has no direct bearing on the operation of the test case, although the carried information ensures the correct configuration and operation of the UE during the test case.

To send this information repeatedly directly from each test case would make the test cases very complex to implement, difficult to understand and place real-time requirements upon them that are beyond the capabilities of most TTCN driven test engines.

Management of scheduling of System Information messages is performed by the system simulator. The SIB contents, usually determined in part by the individual tests, come from the TTCN test cases.

8.4.5.1 Delivery of System Information content

The content of the System Information messages is delivered as a fully encoded bit string to the TM-RLC SAP from the message content defined in the TTCN test case.

The IE 'SFNprime' in the SI messages is set to 0 by the TTCN, and the correct value of 'SFNprime' shall be inserted by the System Simulator prior to transmission of a SI message.

SI messages are ASN.1 packed encoded through a TTCN TSO and segmented another TTCN TSO into SIBs in the TTCN and sent only once to the TM-RLC SAP. Repetition of the SIB is the responsibility of the System Simulator lower layers.

SIBs are considered to be cached. That is, sending a SIB to the TM-RLC SAP will cause a previously sent copy of the SIB to be lost, and all future transmissions of the SIB will be the most recently sent version. This allows for the updating of System Information during the operation of a test case.

8.4.5.2 Scheduling of system Information blocks

The schedule for the transmission of SIBs is provided by the TTCN test case. It is sent using the CMAC_SYSINFO_CONFIG_REQ primitive sent to the CMAC_SAP (CMAC_PCO).

Each CMAC_SYSINFO_CONFIG_REQ primitive carries scheduling information for the next SIB sent from the TTCN. Each primitive is followed by an associated SIB. Sending two CMAC_SYSINFO_CONFIG_REQ primitives in succession may cause an unspecified result.

8.4.5.3 Example of usage

The following example shows how the MIB, SB1 and all SIBs in subclause 8.4.3 are sent to the System Simulator lower layers for broadcasting. The 1st parameter in CMAC_SYSINFO_CONFIG_REQ represents the repeat period in power of 2. The 2nd parameter represents the repetition position. Two consecutive frames represent an available repetition position.

CNA C DCC	CIAL C GARANTEC CONTEIG PEO (2.0)
CMAC_PCO:	CMAC_SYSINFO_CONFIG_REQ (3, 0)
TM_PCO:	MIB
CMAC_PCO:	CMAC_SYSINFO_CONFIG_REQ (4, 1)
TM_PCO:	SB1
CMAC_PCO:	CMAC_SYSINFO_CONFIG_REQ (6, 2)
TM_PCO:	SIB7
CMAC_PCO:	CMAC_SYSINFO_CONFIG_REQ (6, 3)
TM_PCO: CMAC_PCO:	SIB6 (segment 1 of 4) CMAC_SYSINFO_CONFIG_REQ (6, 5)
TM_PCO:	SIB6 (segment 2 of 4)
CMAC_PCO:	CMAC_SYSINFO_CONFIG_REQ (6, 6)
TM_PCO:	SIB6 (segment 3 of 4)
CMAC_PCO:	CMAC_SYSINFO_CONFIG_REQ (6, 7)
TM_PCO:	SIB6 (segment 4 of 4)
CMAC_PCO:	CMAC_SYSINFO_CONFIG_REQ (6, 10)
TM_PCO:	SIB7 + SIB3 (concatenation)
CMAC_PCO:	CMAC_SYSINFO_CONFIG_REQ (6, 11)
TM_PCO:	SIB1 + SIB2 (concatenation)
CMAC_PCO:	CMAC_SYSINFO_CONFIG_REQ (6, 13)
TM_PCO:	SIB12 (segment 1 of 3)
CMAC_PCO:	CMAC_SYSINFO_CONFIG_REQ (6, 14)
TM_PCO:	SIB12 (segment 2 of 3)
CMAC_PCO:	CMAC_SYSINFO_CONFIG_REQ (6, 15)
TM_PCO:	SIB12 (segment 3 of 3)
CMAC_PCO:	CMAC_SYSINFO_CONFIG_REQ (6, 18)
TM_PCO:	SIB7 + SIB18 (concatenation)
CMAC_PCO:	CMAC_SYSINFO_CONFIG_REQ (6, 19)
TM_PCO:	SIB5/SIB5bis (segment 1 of 4)
CMAC_PCO:	CMAC_SYSINFO_CONFIG_REQ (6, 21)
TM_PCO:	SIB5/SIB5bis (segment 2 of 4)
CMAC_PCO:	CMAC_SYSINFO_CONFIG_REQ (6, 22)
TM_PCO:	SIB5/SIB5bis (segment 3 of 4)
CMAC_PCO:	CMAC_SYSINFO_CONFIG_REQ (6, 23)
TM_PCO:	SIB5/SIB5bis (segment 4 of 4)
CMAC_PCO:	CMAC_SYSINFO_CONFIG_REQ (6, 26)
TM_PCO:	SIB7 + SIB4 (concatenation)
CMAC_PCO:	CMAC_SYSINFO_CONFIG_REQ (6, 27)
TM_PCO:	No segment
CMAC_PCO:	CMAC_SYSINFO_CONFIG_REQ (6, 29)
TM_PCO:	SIB11 (segment 1 of 3)
CMAC_PCO:	CMAC_SYSINFO_CONFIG_REQ (6, 30)

TM_PCO: SIB11 (segment 3 of 3)

CMAC_PCO: CMAC_SYSINFO_CONFIG_REQ (6, 31)

TM_PCO: SIB11 (segment 3 of 3)

8.5 Security in testing

The security functions at the SS side are implemented in RLC and MAC layers. When the AM or UM RLC entities and a MAC(d) entity are created, the TTCN will download a security context for each CN domain used. The two ASPs CMAC_SecurityMode_Config_REQ and CRLC_SecurityMode_Config_REQ configures the SS security contexts and associate the contexts to the created entities. The SS shall support one activate security contexts and one context pending activation for each CN domain.

A security context at the SS consists of the security parameter START, 20 bits long and a pair of integrity key and a ciphering key, each 128 bits long. All these security parameters belong to a CS or a PS domain. The SS shall have the ability to store these values till the new values are downloaded and activated. $START_{cs}$ is used for initialization of all counters-C and counters-I (32 bits long each) of all DL and UL radio bearers for ciphering and integrity protection in the CS domain. The same is for $START_{ps}$ in the PS domain. The TTCN downloads the new START value whenever it is received from the UE. In the case of a succeeded authentication procedure, the START value is reset to zero by the START value is reset to zero by the START value.

Once the START is downloaded the SS will, according to the activation time, initialize the 20 most significant bits of the RRC HFN (for integrity protection), the RLC HFN (for ciphering) and the MAC-d HFN (for ciphering) to the START value of the corresponding service domain; the remaining bits are initialized to 0.

Upon the concerned RLC entities and the MAC(d) entity release in the SS, the associated security contexts are no longer used and shall be removed as well. The RLC and the MAC(d) entities are addressed by the TTCN with the cell id = -1.

8.5.1 Authentication

A GMM or MM authentication test step makes use of a number of TSOs to generate an authentication vector:

$$AV := \{RAND, XRES, CK, IK, AUTN\}$$

If the UE has valid authentication parameters (CKSN/KSI), for the respective domain, use of the Authentication procedure after an INITIAL DIRECT TRANSFER message is optional. Authentication in this case will be left to the test case implementation and need not be specified in the prose. However, in the case where the UE does not have valid authentication parameters the Authentication procedure shall be performed.

8.5.2 Ciphering

The ciphering in the SS is activated through the ASP CRLC_Ciphering_Activate_REQ for the AM or UM mode and through CMAC_Ciphering_Activate_REQ for the TM mode.

A PIXIT parameter px_CipheringOnOff indicates whether all the tests are performed under ciphering activated or not. If ciphering should be off at the test execution, the ciphering algorithm in IE ciphering ModeInfo is set to uea0 (no encryption). The UE under test is informed about the SS ciphering capability via IE cipheringAlgorithmCap set to uea0.

Table 141 gives the mapping of the RB id and the bearer value used in the ciphering calculation at the SS side.

Table 141: Mapping between RB identity in ASP and BEARER value in the ciphering calculation

RB identity	Τ	RLC	BEARER	l _	Comments
(TTCN constant)	Direction	mode	value	Type	- Commonto
-1 (tsc_RB_BCCH)	downlink	TM	N/A		No ciphering applicable
-2 (tsc_RB_PCCH)	downlink	TM	N/A		No ciphering applicable
-3 (tsc_RB_BCCH_FACH)	downlink	TM	N/A		No ciphering applicable
-4 (tsc_RB_2ndPCCH)	downlink	TM	N/A		No ciphering applicable
-5 (tsc_RB_2ndCCCH)	uplink	TM	N/A		No ciphering applicable
-10 (tsc_RB_UM_7_RLC)	downlink	TM	N/A	RAB	For UM RLC tests using 7 bit Lis, no ciphering used
-10 (tsc_RB_UM_7_RLC)	uplink	TM	N/A	RAB	For UM RLC tests using 7 bit Lls, no ciphering used
-11 (tsc_RB_UM_15_RLC) -11 (tsc_RB_UM_15_RLC)	downlink uplink	TM TM	N/A N/A	RAB RAB	For UM RLC tests using 15 bit Lls, no ciphering used
-11 (tsc_RB_UM_15_RLC) -12 (tsc_RB_AM_7_RLC)	downlink	TM	N/A N/A	RAB	For UM RLC tests using 15 bit Lls, no ciphering used For AM RLC tests using 15 bit Lls, no ciphering used
-12 (ISC_RB_AM_7_RLC)	uplink	TM	N/A	RAB	For AM RLC tests using 7 bit LIs, no ciphering used
-13 (tsc_RB_AM_15_RLC)	downlink	TM	N/A	RAB	For AM RLC tests using 7 bit LIs, no ciphering used
-13 (tsc_RB_AM_15_RLC)	uplink	TM	N/A	RAB	For AM RLC tests using 15 bit LIs, no ciphering used
-14 tsc_RB_DCCH_FACH_MAC)	downlink	TM	N/A		MAC testing no ciphering used
-14 (tsc_RB_DCCH_FACH_MAC)	uplink	TM	N/A		MAC testing no ciphering used
-15 (tsc_RB_DCCH_DCH_MAC)	downlink	TM	N/A		MAC testing no ciphering used
-15 (tsc_RB_DCCH_FACH_MAC)	uplink	TM	N/A	SRB3	MAC testing no ciphering used
-16 (tsc_RB3_DCCH_RRC)	uplink	AM	2	SRB3	
-18 (tsc_RB_CCCH_FACH_MAC)	downlink	TM	N/A	SRB0	No ciphering applicable
0 (tsc_RB0)	uplink	TM	N/A		No ciphering applicable
0 (tsc_RB0)	downlink	UM	N/A		No ciphering applicable
1 (tsc_RB1)	uplink	UM	0	SRB1	
1 (tsc_RB1)	downlink uplink	UM AM	<u> </u>	SRB1 SRB2	
2 (tsc_RB2)	downlink	AM	1	SRB2	
2 (tsc_RB2) 3 (tsc_RB3)	uplink	AM	2	SRB3	
3 (tsc RB3)	downlink	AM	2	SRB3	
4 (tsc_RB4)	uplink	AM	3	SRB4	
4 (tsc_RB4)	downlink	AM	3	SRB4	
5 (tsc RB5)	uplink	TM	4	SRB	DCCH
5 (tsc_RB5)	downlink	TM	4	SRB	DCCH
6	uplink		5		Not used currently
6	downlink		5		Not used currently
7	uplink		6		Not used currently
7	downlink		6		Not used currently
8	uplink		7		Not used currently
8 (tsc_RB_MCCH)	downlink		7		No ciphering applicable
9 (tsc RB MSCH)	uplink downlink		<u>8</u> 8		Not used currently No ciphering applicable
9 (tsc_RB_MSCH) 10 (tsc_RB10)	uplink	TM	9	RAB#1-1	or RAB1
10 (tsc_RB10) 10 (tsc_RB10)	downlink	TM	9	RAB#1-1	
11 (tsc_RB11)	uplink	TM	10	RAB#1-2	
11 (tsc_RB11)	downlink	TM	10	RAB#1-2	
12 (tsc_RB12)	uplink	TM	11	RAB#1-3	
12 (tsc_RB12)	downlink	TM	11	RAB#1-3	
13 (tsc_RB13)	uplink	TM	12	RAB#2	
13 (tsc_RB13)	downlink	TM	12	RAB#2	
14	uplink		13		Not used currently
14 (tsc_MTCH1)	downlink		13		No ciphering
15	uplink		14		Not used currently
15 (tsc_MTCH2)	downlink		14		No ciphering
16 (too MTCH2)	uplink		15		Not used currently
16 (tsc_MTCH3) 17 (tsc_RB17)	downlink	A N A	15 16	1	No ciphering
17 (tsc_RB17) 17 (tsc_RB17)	uplink downlink	AM AM	16 16	1	
20 (tsc_RB20)	uplink	AM	19	RAB#1	
20 (tsc_RB20) 20 (tsc_RB20)	downlink	AM	19	RAB#1	
21 (tsc_RB21)	uplink	UM	20	RAB#2	
21 (tsc_RB21)	downlink	UM	20	RAB#2	
22 (tsc_RB22)	uplink	AM	21	RAB#2	
22 (tsc_RB22)	downlink	AM	21	RAB#2	
23 (tsc_RB23)	uplink	AM	22	RAB#2	
23 (tsc_RB23)	downlink	AM	22	RAB#2	
24 (tsc_RB24)	uplink	AM	23	RAB#2	
24 (tsc_RB24)	downlink	AM	23	RAB#2	
25 (tsc_RB25)	uplink	AM	24	RAB#1	

RB identity (TTCN constant)	Direction	RLC mode	BEARER value	Туре	Comments
25 (tsc_RB25)	downlink	AM	24	RAB#1	
26 (tsc_RB26)	uplink	UM	25	RAB#1	MAC testing no ciphering used
26 (tsc_RB26)	downlink	UM	25	RAB#1	MAC testing no ciphering used
27 (tsc_RB27)	uplink	UM	26	RAB#2	MAC testing no ciphering used
27 (tsc_RB27)	downlink	UM	26	RAB#2	MAC testing no ciphering used
28 (tsc_RB28)	uplink	UMAM	27	RAB#3	MAC testing no ciphering used
28 (tsc_RB28)	downlink	UMAM	27	RAB#3	MAC testing no ciphering used
29	uplink		28		Not used yet currently
29 (tsc_RB29)	downlink	AM	28	SRB0	No ciphering applicable
30 (tsc_RB30)	downlink	UM	N/A		CTCH FACH no ciphering used
30	uplink		29		Not used yet currently
31 (tsc_RB31)	downlink	UM	N/A		CTCH FACH no ciphering used
31	uplink		30		Not used yet currently
32	downlink		31		Not used yet currently
32	uplink		31		Not used yet currently

8.5.3 Integrity

The integrity protection in the SS is activated through the ASP CRLC_Integrity_Activate_REQ for all SRB.

MAC-I (MessageAuthenticationCode) is calculated by the SS. If the integrity protection is not yet started, the "integrity protection info" IE is omitted in TTCN. If integrity protection is started the TTCN includes the "integrity protection info" IE with all bits set to "0". The SS takes care of all the necessary initialization and calculation on SRBs.

Once integrity is started, the SS initializes and calculates a correct Message Authentication Code, overrides the initial value all bits "0" and inserts a corresponding RRC message sequence number into the IntegrityCheckInfo for all DL DCCH messages. In UL, the SS shall check the received MessageAuthenticationCode. If it is wrong, the ASP CRLC_Integrity_Failure_IND will report having received an UL message with integrity error. If it is correct SS forwards the received messages to the TTCN.

In addition, CRLC_MAC_I_Mode_REQ can be used to force the SS generate wrong DL MAC-I on a specific SRB for the integrity error handling test.

8.5.4 Test security scenarios

Five basic test scenarios are presented in the present document. The corresponding core spec references are found in 3GPP TS 25.331 [21], clauses 8.1.12, 8.2.2.2, 8.5.10.1, 8.5.10.2, 8.6.3.4, 8.6.3.5, 8.6.4.3 and 8.6.4.8.

Start security;

RB setup;

AM RB reconfiguration;

Security modification;

SRNS relocation;

Modification of RLC size of AM RB during RB reconfiguration;

Cell/URA update:

InterRAt HO to UTRAN.

As Default, the 1st three basic scenarios can be subdivided into:

Start integrity without ciphering start;

Start integrity and ciphering at the same time.

Regarding the simultaneous SRNS relocation, the security scenarios at the relocation are split into:

No security configuration modification;

Modification of integrity (FRESH) without ciphering configuration change;

Modification integrity FRESH and ciphering algorithm;

A security modification pending at the SRNS relocation.

This clause shows the procedures how the security ASP applied to the SS configurations at the different security test scenarios.

8.5.4.1 Start security function

CIPHERING STATUS = NotStarted for the CN domain concerned.

8.5.4.1.1 Start integrity protection without start of ciphering

INTEGRITY_PROTECTION Status = NotStarted.
SECURITY MODE COMMAND with "Integrity protection mode info" IE containing integrityProtectionModeCommand = Start, no "Ciphering mode info" IE

1 Before sending SECURITY MODE COMMAND (SMC)

2 Send SECURITY MODE COMMAND

3 After receiving SECURITY MODE COMPLETE

```
CRLC_Integrity_Activate_REQ (CN domain concerned)
    ul_IntegProtActivationInfo = value in "Uplink integrity protection activation time"
    (except RB2) received from SECURITY MODE COMPLETE
```

8.5.4.1.2 Start both integrity protection and ciphering

```
INTEGRITY PROTECTION Status = NotStarted.
```

SECURITY MODE COMMAND with "Integrity protection mode info" IE containing integrityProtectionModeCommand = Start, and "Ciphering mode info" IE containing cipheringModeCommand = Start/Restart (algorithm UEA0 or UEA1)

1 Before sending SECURITY MODE COMMAND message

```
CRLC SecurityMode Config REQ
        startValue = value most recently received or 0 ( new key)
        cipheringKey = value maintained by TTCN
        integrityKey = value maintained by TTCN
        cn DomainIdentity = CS or PS
CRLC_SequenceNumber_REQ
      Get current RLC SN of all SRB for calculating suitable down link activation time
CRLC_Suspend_REQ
     -- Suspend all signalling radio bearers except RB2. Optionally an SS may start immediate
    suspension of processing of data PDUs in the UL. The UL control PDUs and Piggybacked Status
       may optionally processed.
CRLC_Ciphering_Activate_REQ (CN domain concerned)
        cipheringModeCommand = Start/Restart (algorithm)
        rb_DL_CiphActivationTimeInfo = calculated activation time
        incHFN = NotInc
CRLC SetRRC MessageSN REQ (SN=0)
        -- Downlink RRC message sequence number set to 0
CRLC_Integrity_Activate_REQ (CN domain concerned)
        integrityProtectionModeCommand = startIntegrityProtection (FRESH)
        integrityProtectionAlgorithm = selected value
        (downlink integrity protection starts immediate)
CRLC_Integrity_Activate_REQ (CN domain concerned)
       ul_IntegProtActivationInfo = 0 (RB2 only)
CRLC ProhibitRLC Ack REQ
       mode = prohibit (RB3 only)
    -- An SS supporting suspension of UL data PDUs may provide a dummy CRLC ProhibitRLC Ack CNF
```

2 Send SECURITY MODE COMMAND

3 After receiving SECURITY MODE COMPLETE

```
CRLC_Ciphering_Activate_REQ (CN domain concerned)
    rb_UL_CipheringActivationTimeInfo = value received in SECURITY MODE COMPLETE
    incHFN = NotInc

CRLC_Integrity_Activate_REQ (CN domain concerned)
    ul_IntegProtActivationInfo = value in "Uplink integrity protection activation time"
    (except RB2) received from SECURITY MODE COMPLETE

CRLC_ProhibitRLC_Ack_REQ
    mode = continue (RB3 only)
    -- An SS supporting suspension of UL data PDUs may provide a dummy CRLC_ProhibitRLC_Ack_CNF

CRLC_Resume_REQ
    -- If the SS implemented the optional suspension of UL data PDUs, then the processing in the UL of data PDUs shall be resumed. Any suspended UL control PDUs and Piggybacked Status shall
```

8.5.4.1.3 Void

be preceeded or resumed.

8.5.4.2 RB setup

```
INTEGRITY_PROTECTION Status = Started.
Condition: "RAB information for setup" IE included in RADIO BEARER SETUP
```

8.5.4.2.1 AM / UM RB

- 1 Sending the RADIO BEARER SETUP message.
- 2 Configuring the RB.
- 3 After receiving RADIO BEARER SETUP COMPLETE.

8.5.4.2.1.1 Ciphering not started

8.5.4.2.1.2 Ciphering started

8.5.4.2.2 TM RB

Enter Cell_DCH,
no TM RB established before,
"COUNT-C activation time" IE included in RADIO BEARER SETUP COMPLETE message.

8.5.4.2.2.1 Ciphering not started

CIPHERING STATUS = NotStarted for the CN domain concerned,

1 Send the RADIO BEARER SETUP message

2 Configuring the RB

3 After receiving RADIO BEARER SETUP COMPLETE

8.5.4.2.2.2 Ciphering started

CIPHERING_STATUS = Started for the CN domain concerned,

1 Sending RADIO BEARER SETUP

2 Configuring the RB

```
CMAC_SecurityMode_Config_REQ
    startValue = value most recently received
    cipheringKey = value maintained by TTCN
    cn_DomainIdentity = CS or PS

CMAC_Ciphering_Activate_REQ (CN domain concerned)
    incHFN = NotInc
    cipheringModeCommand = Start/Restart (algorithm)
    activationTimeForDPCH = value in "Activation time" of the RB
```

3 After receiving RADIO BEARER SETUP COMPLETE message

8.5.4.3 RB Reconfiguration for AM RAB modification of RLC size

```
CIPHERING_STATUS = Started for the CN domain concerned,
"RB mapping info" IE, changeing AM RB RLC size, is included in
    CELL UPDATE CONFIRM,
    RADIO REARER RECONFIGURATION,
    RADIO BEARER RELEASE
```

8.5.4.3.1 "RB mapping info" in CELL UPDATE CONFIRM

After sending the CELL UPDATE CONFIRM message, re-establish the RB and re-configure the RB with new RLC size and re-initialize COUNT-C for the RB:

```
CRLC_Config_REQ
Release the concerned RB

CRLC_Config_REQ
Setup the concerned RB (new RLC size)

CRLC_SecurityMode_Config_REQ
startValue = value received in the CELL UPDATE message
integrityKey = value maintained by TTCN
cn_DomainIdentity = CS or PS

CRLC_Ciphering_Activate_REQ
cipheringModeCommand = Start/Restart (existing algorithm)
rb_DL_CiphActivationTimeInfo = now
incHFN = NotInc

CRLC_Ciphering_Activate_REQ
rb_UL_CiphActivationTimeInfo = now
incHFN = NotInc
```

8.5.4.3.2 "RB mapping info" in RB RECONFIGURATION / RELEASE

After receiving the reconfiguration complete message, re-establish the RB and re-configure the RB with new RLC size and re-initialize COUNT-C for the RB:

8.5.4.4 Security modification

Updating security keys is the scenario in this clause.

```
INTEGRITY_PROTECTION STATUS = Started
SECURITY MODE COMMAND contains "Ciphering mode info" IE and/or "Integrity protection mode info" IE
```

8.5.4.4.1 Integrity started, ciphering not started

```
CIPHERING_STATUS = NotStarted for the CN domain concerned
SECURITY MODE COMMAND with "Integrity protection mode info" IE containing
integrityProtectionModeCommand = modify, but "Ciphering mode info" IE absent the same CN domain as
in the previous SMC to start integrity protection.
```

1 Before sending SECURITY MODE COMMAND message

```
CRLC_SecurityMode_Config_REQ
    startValue = 0 (new key)
    integrityKey = new key
        cn_DomainIdentity = CS or PS

CRLC_RRC_MessageSN_REQ
        -- Get current RRC Message SN for calculation of DL activation time

CRLC_Integrity_Activate_REQ (CN domain concerned)
        integrityProtectionModeCommand = modify
        dl_IntegrityProtActivationInfo = now (SRB2), calculated value or a pending activation time set by previous security mode control procedure (SRB2 other than SRB2)

CRLC_Integrity_Activate_REQ (CN domain concerned, RB2)
        ul_IntegrityProtActivationInfo = now
```

2 Sending SECURITY MODE COMMAND message

3 After receiving SECURITY MODE COMPLETE

```
CRLC_Integrity_Activate_REQ (CN domain concerned)
    ul_IntegProtActivationInfo = value in "Uplink integrity protection activation time"
    (except RB2)
```

8.5.4.4.2 Integrity and ciphering started

```
CIPHERING_STATUS = Started for the CN domain concerned
SECURITY MODE COMMAND contains

"Integrity protection mode info" IE with integrityProtectionModeCommand = modify,

"Ciphering mode info" IE with cipheringModeCommand = Start/Restart.
```

1 Before sending SECURITY MODE COMMAND message

```
CRLC_SecurityMode_Config_REQ
        startValue = 0 (new key)
        integrityKey = new key
cipheringKey = new key
        cn_DomainIdentity = CS or PS
if TM RB exist
   CMAC SecurityMode Config REQ
        startValue = 0 ( new kev)
        cipheringKey = new key
        integrityKey = new key
        cn DomainIdentity = CS or PS
CRLC SequenceNumber REQ
     - Get current RLC SN for calculating suitable down link activation time
CRLC_Suspend_REQ
     -- Optionally an SS may start immediate suspension of processing of data PDUs in the UL. The
    UL control PDUs and Piggybacked Status may optionally be processed.
CRLC Ciphering Activate REQ (CN domain concerned)
        cipheringModeCommand = Start/Restart (existing algorithm)
        rb DL CiphActivationTimeInfo = calculated activation time
        incHFN = NotInc
CRLC RRC MessageSN REQ
     - Get current RRC message SN for calculating suitable DL activation time
CRLC_Integrity_Activate_REQ (CN domain concerned)
        integrityProtectionModeCommand = modify
       dl_IntegrityProtActivationInfo = now (SRB2), calculated value or a pending activation
       time set by previous security mode control procedure (SRB other than SRB2)
CRLC_Integrity_Activate_REQ (CN domain concerned, RB2)
       ul IntegrityProtActivationInfo = now
if TM RB exist
    CPHY_Frame_Number_REQ
         -Get current CFN for calculating suitable activation time for TM RB
    CMAC Ciphering Activate REQ (CN domain concerned)
        cipheringModeCommand = Start/Restart (existing algorithm)
        activationTimeForDPCH = calculated activation time
        incHFN = IncPerCFN_Cycle
CRLC_ProhibitRLC_Ack_REQ
       mode = prohibit (RB3 only)
    -- An SS supporting suspension of UL data PDUs may provide a dummy CRLC_ProhibitRLC Ack CNF
```

2 Sending SECURITY MODE COMMAND message

3 After receiving SECURITY MODE COMPLETE

8.5.4.5 SRNS relocation

```
Simultaneous SRNS relocation will take place
either "Downlink count synchronization info" IE is received in
CELL UPDATE CONFIRM,
PHYSICAL CHANNEL RECONFIGURATION,
RADIO BEARER SETUP,
RADIO BEARER RELEASE,
TRANSPORT CHANNEL RECONFIGURATION,
URA UPDATE CONFIRM,
UTRAN MOBILITY INFROMATION,
or "new U-RNTI" IE is received in
RADIO BEARER RECONFIGURATION.

INTEGRITY PROTECTION Status = Started
```

8.5.4.5.1 Void

8.5.4.5.2 Presence of "Integrity protection mode info" but absence of "Ciphering mode info"

SRNS relocation related messages listed contains "Integrity protection mode info" but does not have "Ciphering mode info" IE.

SRNS relocation related message with "Integrity protection mode info" IE containing integrityProtectionModeCommand = Start, but no "Ciphering mode info" IE (no ciphering configuration change).

8.5.4.5.2.1 No security configuration pending

No security configuration pending triggered by previous SECURITY MODE COMMAND.

1 Before sending one of the SRNS relocation related messages

2 Sending one of the SRNS relocation related messages

3 Re-establishing RB2 and re-initialize COUNT-C for RB2

```
CRLC SequenceNumber_REQ
CRLC SequenceNumber CNF
       newHFN = MAX(HFN of DL COUNT-C of RB2, HFN of UL COUNT-C of RB2) + 1
CRLC Config REQ
    -- Release RB2
CRLC_Config_REQ
    -- Setup RB2
CRLC SecurityMode Config REQ
        startValue = newHFN
        \verb|cn_DomainIdentity| = CS or PS concerned|
CRLC_Ciphering_Activate_REQ (CN domain concerned)
        if CIPHERING_STATUS= NotStarted
            cipheringModeCommand = NULL (no ciphering)
        if CIPHERING STATUS = Started
            cipheringModeCommand = Start/Restart (existing algorithm)
        rb_DL_CiphActivationTimeInfo = now (RB2 only)
        incHFN = NotInc
CRLC_Ciphering_Activate_REQ (CN domain concerned)
        rb UL CipheringActivationTimeInfo = now (RB2 only)
        incHFN = NotInc
```

4 Receiving the response message

5 Re-establishing all RBs and SRBs (except SRB2) and re-initialize COUNT-C for all RBs and SRBs (except SRB2)

```
CRLC_Config_REQ
     - Release all RBs and all SRBs (except SRB2)
CRLC Config REQ
     - Setup all RB's and all SRB's (except RB2)
{\tt CRLC\_SecurityMode\_Config\_REQ}
        startValue = value received in the response message
        integrityKey = value maintained by TTCN
        cn DomainIdentity = CS or PS
CRLC_Ciphering_Activate_REQ
        if CIPHERING_STATUS= NotStarted
            cipheringModeCommand = NULL (no ciphering)
        if CIPHERING STATUS = Started
           cipheringModeCommand = Start/Restart (existing algorithm)
        rb_DL_CiphActivationTimeInfo = now (except SRB2)
        incHFN = NotInc
CRLC Ciphering Activate REQ
        rb UL CiphActivationTimeInfo = now (except SRB2)
        incHFN = NotInc
```

8.5.4.5.2.2 Pending security configuration (new keys)

A pending security configuration is triggered by the previous SECURITY MODE COMMAND (new Key).

1 Before sending one of the SRNS relocation related messages

```
CRLC_SecurityMode_Config_REQ
    startValue = 0 (new key)
    integrityKey = new key
    cn_DomainIdentity = CS or PS

CRLC_Integrity_Activate_REQ
    IntegrityProtectionModeCommand = Start (FRESH)
    IntegrityProtectionAlgorithm = selected value (downlink integrity protection starts immediately)

CRLC_Integrity_Activate_REQ
    ul_IntegProtActivationInfo = value (now)
```

2 Send one of the SRNS relocation related messages

3 Re-establish RB2 and re-initialize COUNT-C for RB2

```
CRLC SequenceNumber REQ
CRLC_SequenceNumber_CNF
       HFN = MAX(HFN of DL/UL COUNT-C of RB2) + 1
CRLC Config REQ
        Release RB2
CRLC Config REQ
        Setup RB2
CRLC_SecurityMode_Config_REQ
        startValue = HFN calculated above
        cipheringKey = new key
       cn DomainIdentity = CS or PS
CRLC Ciphering Activate REQ
        if CIPHERING STATUS= NotStarted
            cipheringModeCommand = NULL (no ciphering)
        if CIPHERING STATUS = Started
            cipheringModeCommand = Start/Restart (existing algorithm)
        rb_DL_CiphActivationTimeInfo = now (RB2 only)
        incHFN = NotInc
{\tt CRLC\_Ciphering\_Activate\_REQ}
        rb_UL_CipheringActivationTimeInfo = now (RB2 only)
        incHFN = NotInc
```

4 Receive the response message

5 Re-establish all RBs and SRBs (except RB2) and re-initialize COUNT-C for all RBs and SRBs (except RB2)

```
CRLC_Config_REQ
        Release all RB's and SRB's (except RB2)
CRLC_Config_REQ
       Setup all RB's and SRB's (except RB2)
CRLC_SecurityMode_Config_REQ
        startValue = value received in the response message
        integrityKey = new key
       cipheringKey = new key
       cn DomainIdentity = CS or PS
CRLC_Ciphering_Activate _REQ
        if CIPHERING STATUS= NotStarted
            cipheringModeCommand = NULL (no ciphering)
        if CIPHERING_STATUS = Started
            cipheringModeCommand = Start/Restart (existing algorithm)
        rb_DL_CiphActivationTimeInfo = now (except RB2)
        incHFN = NotInc
CRLC Ciphering Activate REQ
        rb UL CiphActivationTimeInfo = now (except RB2)
        incHFN = NotInc
```

6 Re-initialize COUNT-I for all RB's and SRB's (except RB2)

```
CRLC_SecurityMode_Config_REQ
    startValue = 0 (new key)
    integrityKey = new key
    cn_DomainIdentity = CS or PS

CRLC_Integrity_Activate_REQ
    IntegrityProtectionModeCommand = Start (FRESH)
    IntegrityProtectionAlgorithm = selected value (downlink integrity protection starts immediately)

CRLC_Integrity_Activate_REQ
    ul IntegProtActivationInfo = value (now)
```

8.5.4.5.2.3 Pending security configuration (no new keys)

A pending security configuration is triggered by the previous SECURITY MODE COMMAND (no new keys).

1 Before sending one of the SRNS relocation related messages

2 Send one of the SRNS relocation related messages

3 Re-establish RB2 and re-initialize COUNT-C for RB2

```
CRLC SequenceNumber REQ
CRLC SequenceNumber CNF
       HFN = MAX(HFN of DL/UL COUNT-C of RB2) + 1
CRLC Config REQ
       Release RB2
CRLC_Config_REQ
       Setup RB2
CRLC_SecurityMode_Config_REQ
       startValue = HFN calculated above
       cn DomainIdentity = CS or PS
CRLC_Ciphering_Activate_REQ
        if CIPHERING STATUS= NotStarted
            cipheringModeCommand = NULL (no ciphering)
        if CIPHERING STATUS = Started
            cipheringModeCommand = Start/Restart (existing algorithm)
        rb_DL_CiphActivationTimeInfo = now (RB2 only)
        incHFN = NotInc
CRLC Ciphering Activate REQ
        rb UL CipheringActivationTimeInfo = now (RB2 only)
        incHFN = NotInc
```

4 Receive the response message

5 Re-establish all RBs and SRBs (except RB2) and re-initialize COUNT-C for all RBs and SRBs (except RB2)

```
CRLC Config REQ
       Release all RB's and SRB's (except RB2)
CRLC_Config_REQ
       Setup all RB's and SRB's (except RB2)
CRLC_SecurityMode_Config_REQ
        startValue = value received in the response message
        integrityKey = value maintained by TTCN
       cn DomainIdentity = CS or PS
CRLC Ciphering Activate REQ
        if CIPHERING_STATUS= NotStarted
            cipheringModeCommand = NULL (no ciphering)
        if CIPHERING STATUS = Started
            cipheringModeCommand = Start/Restart (existing algorithm)
        rb_DL_CiphActivationTimeInfo = now (except RB2)
        incHFN = NotInc
CRLC Ciphering Activate REQ
        rb UL CiphActivationTimeInfo = now (except RB2)
        incHFN = NotInc
```

6 Re-initialize COUNT-I for all RB's and SRB's (except RB2)

8.5.4.5.3 Presence of "Integrity protection mode info" and "Ciphering mode info" IE

```
CIPHERING_STATUS = Started for the CN domain concerned,
SRNS relocation related message with "Integrity protection mode info" IE containing
integrityProtectionModeCommand = Start, and "Ciphering mode info" IE containing cipheringModeCommand
= Start/Restart (change ciphering algorithm, no "Radio bearer downlink ciphering activation time
info")
```

8.5.4.5.3.1 No security configuration pending

1 Before sending one of the SRNS relocation related messages

```
CRLC_SecurityMode_Config_REQ
    startValue = OMIT (no COUNT-I re-initialization)
    integrityKey = OMIT or value maintained by TTCN (no key change)
    cn_DomainIdentity = CS or PS

CRLC_Integrity_Activate_REQ
    SS_IntegrityProtectionModeCommand = Start (FRESH)
    IntegrityProtectionAlgorithm = selected value (downlink integrity protection starts immediately)

CRLC_Integrity_Activate_REQ
    ul_IntegProtActivationInfo = value (now)
```

2 Send one of the SRNS relocation related messages

3 Re-establish RB2 and re-initialize COUNT-C for RB2

```
CRLC SequenceNumber_REQ
CRLC_SequenceNumber_CNF
        HFN = MAX(HFN of DL/UL COUNT-C of RB2) + 1
CRLC Config REQ
       Release RB2
CRLC Config REQ
       Setup RB2
CRLC_SecurityMode_Config_REQ
        startValue = HFN calculated above
       cn_DomainIdentity = CS or PS
CRLC Ciphering Activate REQ
       if CIPHERING_STATUS= NotStarted
            cipheringModeCommand = NULL (no ciphering)
        if CIPHERING STATUS = Started
           cipheringModeCommand = Start/Restart (existing algorithm)
        rb DL CiphActivationTimeInfo = now (RB2 only)
       incHFN = NotInc
CRLC_Ciphering_Activate_REQ
        rb_UL_CipheringActivationTimeInfo = now (RB2 only)
        incHFN = NotInc
```

4 Receive the response message

5 Re-establish all RBs and SRBs (except RB2) and re-initialize COUNT-C for all RBs and SRBs (except RB2)

```
CRLC_Config_REQ
Release all RB's and SRB's (except RB2)

CRLC_Config_REQ
Setup all RB's and SRB's (except RB2)

CRLC_SecurityMode_Config_REQ
startValue = value received in the response message integrityKey = value maintained by TTCN
cn_DomainIdentity = CS or PS

CRLC_Ciphering_Activate_REQ
cipheringModeCommand = Start/Restart (new algorithm)
rb_DL_CiphActivationTimeInfo = now (except RB2)
incHFN = NotInc

CRLC_Ciphering_Activate_REQ
rb_UL_CiphActivationTimeInfo = now (except RB2)
incHFN = NotInc
```

8.5.4.5.3.2 Pending security configuration (new keys)

1 Before sending one of the SRNS relocation related messages

```
CRLC_SecurityMode_Config_REQ
    startValue = 0 (new key)
    integrityKey = new key
    cn_DomainIdentity = CS or PS

CRLC_Integrity_Activate_REQ
    SS_IntegrityProtectionModeCommand = Start (FRESH)
    IntegrityProtectionAlgorithm = selected value (downlink integrity protection starts immediately)

CRLC_Integrity_Activate_REQ
    ul_IntegProtActivationInfo = value (now)
```

2 Send one of the SRNS relocation related messages

3 Re-establish RB2 and re-initialize COUNT-C for RB2

```
CRLC_SequenceNumber_REQ
        CRLC_SequenceNumber_CNF
        HFN = MAX(HFN of DL/UL COUNT-C of RB2) + 1
CRLC Config REQ
       Release RB2
CRLC Config REQ
       Setup RB2
CRLC SecurityMode Config REQ
       startValue = HFN calculated above
        cn DomainIdentity = CS or PS
CRLC Ciphering Activate REQ
       cipheringModeCommand = NULL (no ciphering status change)
       rb_DL_CiphActivationTimeInfo = now (RB2 only)
       incHFN = NotInc
CRLC_Ciphering_Activate_REQ
        rb_UL_CipheringActivationTimeInfo = now (RB2 only)
       incHFN = NotInc
```

4 Receive the response message

5 Re-establish all RBs and SRBs (except RB2) and re-initialize COUNT-C for all RBs and SRBs (except RB2)

```
CRLC_Config_REQ
Release all RB's and SRB's (except RB2)

CRLC_Config_REQ
Setup all RB's and SRB's (except RB2)

CRLC_SecurityMode_Config_REQ
startValue = 0
integrityKey = new key
cn_DomainIdentity = CS or PS

CRLC_Ciphering_Activate _REQ
cipheringModeCommand = Start/Restart (new algorithm)
rb_DL_CiphActivationTimeInfo = now (except RB2)
incHFN = NotInc

CRLC_Ciphering_Activate_REQ
rb_UL_CiphActivationTimeInfo = now (except RB2)
incHFN = NotInc
```

6 Re-initialize COUNT-I for all RBs and SRBs (except RB2)

```
CRLC_SecurityMode_Config_REQ
    startValue = 0 (new key)
    integrityKey = new key
        cn_DomainIdentity = CS or PS
CRLC_Integrity_Activate_REQ
        IntegrityProtectionModeCommand = Start (FRESH)
        IntegrityProtectionAlgorithm = selected value (downlink integrity protection starts immediately)
CRLC_Integrity_Activate_REQ
        ul IntegProtActivationInfo = value (now)
```

8.5.4.5.3.3 Pending security configuration (no new key)

1 Before sending one of the SRNS relocation related messages

```
CRLC_SecurityMode_Config_REQ
    startValue = OMIT (no COUNT-I re-initialization)
    integrityKey = OMIT or value maintained by TTCN (no key change)
    cn_DomainIdentity = CS or PS

CRLC_Integrity_Activate_REQ
    SS_IntegrityProtectionModeCommand = Start (FRESH)
    IntegrityProtectionAlgorithm = selected value (downlink integrity protection starts immediately)

CRLC_Integrity_Activate_REQ
    ul_IntegProtActivationInfo = value (now)
```

2 Send one of the SRNS relocation related messages

3 Re-establish RB2 and re-initialize COUNT-C for RB2

```
CRLC SequenceNumber REQ
        CRLC SequenceNumber CNF
       HFN \stackrel{-}{=} MAX(HFN of DL/UL COUNT-C of RB2) + 1
CRLC Config REQ
       Release RB2
CRLC_Config_REQ
       Setup RB2
CRLC_SecurityMode_Config_REQ
        startValue = HFN calculated above
       n DomainIdentity = CS or PS
CRLC_Ciphering_Activate_REQ
        if CIPHERING STATUS= NotStarted
            cipheringModeCommand = NULL (no ciphering)
        if CIPHERING STATUS = Started
            cipheringModeCommand = Start/Restart (existing algorithm)
        rb_DL_CiphActivationTimeInfo = now (RB2 only)
        incHFN = NotInc
CRLC Ciphering Activate REQ
        rb UL CipheringActivationTimeInfo = now (RB2 only)
        incHFN = NotInc
```

4 Receive the response message

5 Re-establish all RBs and SRBs (except RB2) and re-initialize COUNT-C for all RBs and SRBs (except RB2)

```
CRLC_Config_REQ
Release all RB's and SRB's (except RB2)

CRLC_Config_REQ
Setup all RB's and SRB's (except RB2)

CRLC_SecurityMode_Config_REQ
startValue = value received in the response message integrityKey = value maintained by TTCN
cn_DomainIdentity = CS or PS

CRLC_ Ciphering_Activate _REQ
cipheringModeCommand = Start/Restart (new algorithm)
rb_DL_CiphActivationTimeInfo = now (except RB2)

CRLC_ Ciphering_Activate _REQ
rb_UL_CiphActivationTimeInfo = now (except RB2)
```

6 Re-initialize COUNT-I for all RBs and SRBs (except RB2)

8.5.4.6 CELL/URA update

8.5.4.6.1 RLC re-establish (RB2, RB3, RB4)

"RLC re-establish (RB2, RB3, RB4)" in CELL UPDATE CONFIRM message is set to TRUE CIPHERING_STATUS = Started for the CN domain concerned

1. After sending CELL UPDATE CONFIRM message, re-establish the RB2, RB3 and RB4 (if established)

8.5.4.6.2 RLC re-establish (RAB)

"RLC re-establish (RB5 and upwards)" in CELL UPDATE CONFIRM message is set to TRUE CIPHERING_STATUS = Started for the CN domain concerned

1. After sending CELL UPDATE CONFIRM message, re-establish the RAB

```
CRLC_SecurityMode_Config_REQ
    startValue = value received from CELL UPDATE message
    cipheringKey = value maintained by TTCN
    cn_DomainIdentity = CS or PS

CRLC_Ciphering_Activate_REQ (CN domain concerned)
    cipheringModeCommand = Start/Restart (existing algorithm)
    rb_DL_CiphActivationTimeInfo = now (RB5 and upwards)
    incHFN = NotInc

CRLC_Ciphering_Activate_REQ (CN domain concerned)
    rb_UL_CipheringActivationTimeInfo = now (RB5 and upwards)
    incHFN = NotInc
```

8.5.4.7 Inter RAT handover to UTRAN

8.5.4.7.1 ciphering has not been activated

ciphering has not been started in the radio access technology from which inter RAT handover is performed. TM mode radio bearer will be established in the UTRAN.

1. Sending HANDOVER TO UTRAN COMMAND in a RAT different from UTRAN

2. After receiving HANDOVER TO UTRAN COMPLETE message

```
CMAC_SecurityMode_Config_REQ
       startValue = value received in HANDOVER TO UTRAN COMPLETE message
       cn DomainIdentity = CS or PS
CMAC_Ciphering_Activate_REQ (CN domain concerned)
       incHFN = NotInc
       cipheringModeCommand = NULL
       activationTimeForDPCH = now
CRLC SecurityMode Config REQ
       startValue = value received in HANDOVER TO UTRAN COMPLETE
       cn DomainIdentity = CS or PS
CRLC Ciphering Activate REQ (CN domain concerned)
       cipheringModeCommand = NULL
       rb_DL_CiphActivationTimeInfo = now (RB1, RB2, RB3, RB4)
       rb_UL_CipheringActivationTimeInfo = now (RB1, RB2, RB3, RB4)
       incHFN = Inc
```

8.5.4.7.2 ciphering has been activated

ciphering has been started in the radio access technology from which inter RAT handover is performed. TM mode radio bearer will be established in the UTRAN.

1. Before sending HANDOVER TO UTRAN COMMAND

```
CRLC SecurityMode Config REQ
            startValue = "START" value included in the IE "UE security information" in the variable
"INTER RAT HANDOVER INFO TRANSFERRED"
           cipheringKey = value generated in authentication procedure in GRAN
           cn\_DomainIdentity = CS or PS
   CRLC_Ciphering_Activate_REQ (CN domain concerned)
           cipheringModeCommand = Start/Restart (algorithm in HANDOVER TO UTRAN COMMAND)
           rb DL CiphActivationTimeInfo = now (RB1, RB2, RB3, RB4)
           incHFN = NotInc
   CRLC Ciphering Activate REQ (CN domain concerned)
           rb_UL_CipheringActivationTimeInfo = now (RB1, RB2, RB3, RB4)
           incHFN = NotInc
   CMAC SecurityMode_Config_REQ
           startValue = "START" value included in the IE "UE security information" in the variable
"INTER RAT HANDOVER INFO TRANSFERRED"
           cipheringKey = value generated in authentication procedure in GRAN
           cn DomainIdentity = CS or PS
   CMAC_Ciphering_Activate_REQ (CN domain concerned)
           incHFN = NotInc
           cipheringModeCommand = Start/Restart (algorithm in HANDOVER TO UTRAN COMMAND)
           activationTimeForDPCH = now
```

2. Sending HANDOVER TO UTRAN COMMAND in a RAT different from UTRAN

3. After receiving HANDOVER TO UTRAN COMPLETE message

```
CMAC SecurityMode Config REQ
        startValue = value received in the response message
        cipheringKey = value maintained by TTCN
        cn DomainIdentity = CS or PS
CMAC Ciphering Activate REQ (CN domain concerned)
        cipheringModeCommand = Start/Restart (algorithm) in HANDOVER TO UTRAN COMMAND)
        activationTimeForDPCH = value in "COUNT-C activation time"
        incHFN = IncByOne IncPerCFN Cycle
CRLC SecurityMode Config REQ
        startValue = value received in HANDOVER TO UTRAN COMPLETE
        cipheringKey = value generated in authentication procedure in GRAN
        cn_DomainIdentity = CS or PS
CRLC Ciphering Activate REQ (CN domain concerned)
       cipheringModeCommand = Start/Restart (algorithm in HANDOVER TO UTRAN COMMAND)
        rb DL CiphActivationTimeInfo = now (RB1, RB2, RB3, RB4)
        incHFN = Inc
CRLC_Ciphering_Activate_REQ (CN domain concerned)
        rb UL CipheringActivationTimeInfo = now (RB1, RB2, RB3, RB4)
        incHFN = Inc
```

8.5.4.8 Hard handover

```
Ciphering is activated for any TM radio bearer; "Downlink DPCH info for all RL" in a message performing timing re-initialized hard handover or; "Downlink DPCH info for all RL" in a message other than RADIO BEARER SETUP transferring UE to Cell DCH from non-Cell DCH state.
```

1. Before sending the message

```
CMAC_SecurityMode_Config_REQ
    startValue = value most recently received
    cipheringKey = value maintained by TTCN
    cn_DomainIdentity = CS or PS
CMAC_Ciphering_Activate_REQ (CN domain concerned)
    incHFN = NotInc
    cipheringModeCommand = Start/Restart (existing algorithm)
    activationTimeForDPCH = now
```

2. Send the message for hard HO

3. After receiving the response message

8.5.5 Test USIM configurations

The default test USIM is defined in 3GPP TS 34.108 [3]. This clause specifies a number of specific test USIM configurations which are used for the concerned test cases.

8.5.5.1 Test USIM for Idle mode tests

The PLMN 1-12 identities used below have been defined in 3GPP TS 34.123-1 [1], table 6.2. Clause numbers refer to 3GPP TS 34.123-1 [1].

Test USIM is configured as bellow for PLMN selection of RPLMN, HPLMN, UPLMN and OPLMN in TC_6_1_1_1 and TC_6_1_1_4.

USIM field	Priority	PLMN	Access Technology Identifier
EF _{LOCI}		PLMN 1	
EF _{PLMNwAcT}	1 st	PLMN 3	UTRAN
	2 nd	PLMN 4	UTRAN
EFOPLMNWACT	1 st	PLMN 5	UTRAN
	2 nd	PLMN 6	UTRAN
EF _{FPLMN}		PLMN 3	

Table 142

Test USIM is configured as bellow for PLMN selection of other PLMN with access technology combinations in $TC_6_1_1_2$.

Table 143

USIM field	Priority	PLMN	Access Technology Identifier
EF _{LOCI}		PLMN 6	
EF _{FPLMN}		PLMN 10	

Test USIM is configured as below for automatic PLMN selection of other PLMN with access technology combinations in TC_6_1_1_5.

Table 113a

USIM field	Priority	PLMN	Access Technology Identifier
EFLOCI		PLMN 6	

Test USIM is configured as bellow for manual PLMN selection independent of RF level and preferred PLMN in $TC_6_1_1_3$.

Table 144

USIM field	Priority	PLMN	Access Technology Identifier
EF _{LOCI}			
EF _{PLMNwAcT}	1 st	PLMN 3	UTRAN

Test USIM is configured as below for emergency calls in TC_6_1_2_6.

Table 114a

USIM field	Priority	PLMN
EF _{LOCI}		PLMN1
EF _{FPLMN}	PLMN 3	

Test USIMs are configured as bellow for Selection of the correct PLMN and associated RAT in TC_6_2_1_1. Two test USIMs are needed for the test.

Table 145: USIM A

USIM field	Priority	PLMN	Access Technology Identifier
EF _{LOCI}			
EF _{HPLMNwAcT}	1 st		GSM
EF _{HPLMNwAcT}	2 nd		UTRAN

Table 146: USIM B

USIM field	Priority	PLMN	Access Technology Identifier
EFLOCI			
EF _{HPLMNwAcT}	1 st		UTRAN
	2 nd		GSM

Test USIMs are configured as bellow for Selection of RAT for HPLMN in TC_6_2_1_2. Two test USIMs are needed for the test.

Table 147: USIM A

USIM field	Priority	PLMN	Access Technology Identifier
EF _{LOCI}		PLMN 1	
EF _{HPLMNwAcT}	1 st		UTRAN
	2 nd		GSM

Table 148: USIM B

USIM field	Priority	PLMN	Access Technology Identifier
EF _{LOCI}		PLMN 1	
EF _{HPLMNwAcT}	1 st		UTRAN
	2 nd		

Test USIMs are configured as bellow for Selection of RAT for HPLMN in TC_6_2_1_6. Two test USIMs are needed for the test.

Table 147a: USIM A

USIM field	Priority	PLMN	Access Technology Identifier
EFLOCI		PLMN 1	
EF _{HPLMNwAcT}	1 st		UTRAN
	2 nd		GSM
EF _{PLMNwAcT}	1 st	PLMN3	UTRAN

Table 148a: USIM B

USIM field	Priority	PLMN	Access Technology Identifier
EF _{LOCI}		PLMN 1	
EF _{HPLMNwAcT}	1 st		UTRAN
	2 nd		
EF _{PLMNwAcT}	1 st	PLMN3	UTRAN

Test USIM for Selection of RAT for UPLMN or OPLMN in TC_6_2_1_3, TC_6_2_1_4, TC_6_2_1_7, TC_6_2_1_8 and for Selection of Other PLMN with access technology combinations"; Automatic mode in TC_6_2_1_9.

Table 149

USIM field	Priority	PLMN	Access Technology Identifier
EF _{LOCI}		PLMN 1	
EF _{HPLMNwAcT}	1 st		UTRAN
	2 nd		GSM
EF _{PLMNwAcT}	1 st	PLMN 3	UTRAN
	2 nd	PLMN 4	GSM
EF _{OPLMNwAcT}	1 st	PLMN 5	UTRAN
	2 nd	PLMN 6	GSM

Test USIM are configured as bellow for manual selection of other PLMN with access technology combinations in $TC_6_2_1_5$.

Table 150

USIM field	Priority	PLMN	Access Technology Identifier
EF _{LOCI}		PLMN 7	
EF _{FPLMN}		PLMN 8	
		PLMN 9	

Test USIM for cell reselection if cell becomes barred or for cell reselection timings requires that the USIM does not contain any preferred RAT. This specific test USIM applies to $TC_6_2_2_1$, $TC_6_2_2_2$ and $TC_6_2_2_3$.

8.6 Downlink power setting in SS

Refer to 3GPP TS 34.108 [3], clause 6.1.5.

8.7 Test suite operation definitions

8.7.1 Test suite operation definitions in the common modules

Table 151: TSO definitions in BasicM

TSO Name	Description
o_AuthRspChk	Type of the result: BOOLEAN Parameters: p_AuthRsp: AuthRsp p_AuthRspExt: AuthRspExt p_K: BITSTRING p_RAND: BITSTRING p_Ext: BOOLEAN
	Description Checks the input parameter p_AuthRsp and p_AuthRspExt, both received in an Authentication Response, according to the authentication algorithm defined in the following procedure. The extension, p_AuthRspExt, is optional. Its presence is indicated by p_Ext. Returns TRUE if the Authentication Response contained in parameters p_AuthRsp and eventually p_AuthRspExt is correct, FALSE otherwise. The value of tcv_Auth_n indicates whether the AuthRspExt has been provided by the UE or not (n=31, or 31 < n < 128). See 3GPP TS 34.108 [3] clause 8.1.2. If not the parameter p_AuthRspExt is not to be used.
	Algorithm (without the knowledge of tcv_Auth_n):
	if NOT p_Ext EvaluateAuthRsp else EvaluateAuthRspAndAuthRspExt EvaluateAuthRsp: ====================================
	resultbitstring = o_BitstringXOR(XRES, AuthRsp) if resultbitstring is all 0s then there is a match. EvaluateAuthRspAndAuthRspExt:
	XREShigh = o_BitstringXtract(XRES, 32, 32, 0) /* XRES divides into 2 parts: the higher part of 32 bits related to AuthRsp and the lower part related to AuthRspExt */ /* SourceLength of 32 is only to ensure usage of the procedure */ resultbitstring = o_BitstringXOR(XREShigh, AuthRsp) if resultbitstring is all 0s then there is a match for the first 32 bits:EvaluateAuthRspExt else Authentication failed. EvaluateAuthRspExt:
	/* As AuthRespExt may not be octet aligned the last octet indicated in AuthRspExt is not used for checking */ if (AuthRspExt.iel = 1) then Authentication passed /* there was only 1 possibly incomplete octet which is not used */ else
	AuthRspExthigh = o_BitstringXtract(AuthRspExt.authRsp, ((AuthRspExt.iel -1)* 8), (AuthRspExt.iel -1)* 8, 0) /* extract (AuthRspExt.iel -1)* 8 bits starting from bit 0 */ XRESlow = o_BitstringXtract(XRES, ((AuthRspExt.iel -1)* 8 + 32), (AuthRspExt.iel -1)* 8, 32) /* extract (AuthRspExt.iel -1)* 8 bits starting from bit 32 */ resultbitstring = o_BitstringXOR(XRESlow, AuthRspExthigh, (AuthRspExt.iel -1)* 8) if resultbitstring is all 0s then there is a match for the bits following the first 32 bits else Authentication failed

TSO Name	Description
o_BitstringChange	Type of the result: BITSTRING
	Parameters:
	P_Str: BITSTRING
	p_Len: INTEGER
	p_Offset: INTEGER
	Description
	Performs the manipulation of a bitstring by toggling the bit identified by p_Offset. The
	length of the string to be manipulated is specified in p_Len. This is only provided to help
	ensure that the p_Offset is less than p_Len.
	Returns a resulting bitstring of length p_Len.
	EXAMPLE 1: o_BitstringChange('010101'B, 6, 5) produces '010100'B.
511.11	EXAMPLE 2: o_BitstringChange('010101'B, 6, 0) produces '110101'B.
o_BitstringConcat	Type of the result: BITSTRING
	Parameters:
	P_Str1: BITSTRING
	p_Str2: BITSTRING
	p_Len1: INTEGER
	p_Len2: INTEGER
	Description
	Performs the concatenation of 2 bitstrings of possibly different lengths.
	The bit significance is from left to right, i.e. the MSB is at the left-hand side.
	Returns a resulting bitstring p_Str1 p_Str2 of length p_Len1 + p_Len.
	EXAMPLE: o_BitstringConcat('010101'B,'11'B) produces '01010111'B of
	length $6 + 2 = 8$.
o_BitstringXOR	Type of the result: BITSTRING
	Parameters:
	P_Str1: BITSTRING
	p_Str2: BITSTRING
	p_Len: INTEGER
	Book 18 to
	Description
	Performs an XOR operation using 2 bitstrings of the same length (p_Len).
	Returns a resulting Bitstring of length p_Len.
	EXAMPLE: o_BitstringXOR('0011'B, '0101'B, 4) produces '0110'B.
o_BitstringXtract	Type of the result: BITSTRING
o_bitstilig/tract	Parameters:
	P_Str: BITSTRING
	p_SrcLen: INTEGER
	p_TargetLen: INTEGER
	p_Offset: INTEGER
	Description
	Performs the wrap around extract of a bitstring. The length of the string from which
	extraction is to be made is specified in p_SrcLen. The length of the bitstring to be
	extracted is indicated as p_TargetLen, the offset in the original string is indicated in
	p_Offset.
	The bit position 0 is at the left side.
	Returns a resulting bitstring of length p_TargetLen.
	EVAMPLE 1: a. Ritetring Vtract//101010/R. 6. 2. 1) produces (01/R
	EXAMPLE 1: o_BitstringXtract('101010'B, 6, 2, 1) produces '01'B. EXAMPLE 2: o_BitstringXtract('101010'B, 6, 4, 3) produces '0101'B, wrapping around.
	EXAMPLE 2: o_BitstringXtract(101010B, 6, 4, 3) produces 0101B, wrapping around.
	1270 titl. EE 3. 0_Distilling/titact(111000 B, 3, 4, 3) produces 0111 B, wrapping around.

TSO Name	Description
o_BMC_DrxScheduling	Type of the result: BMC_ResultOfSchedulingLevel2
	Parameters:
	p_BMC_CBS_Message1 : BMCCBSMESSAGE
	p_BMC_CBS_Message2 : BMCCBSMESSAGE
	p_BMC_CB_RepPeriod : INTEGER
	p_BMC_NoOfBroadcast_Req : INTEGER p_Offset : BMC_DRX_Offset
	p_onset: bivio_bitX_onset
	Description
	This TSO shall calculate all BMC CBS schedule Messages for the CBS messages as described in 3GPP TS 34.123-1, clause 7.4.3.1.
	The TSO has to precalculate the CTCH Block SETs needed, i.e. it shall have all
	necessary knowledge (RLC segmentation, MAC handling, if needed) to predict the CTCH with BMC contents for the given input to be sent.
	The TSO shall consider the BMC CBS Scheduling Level2 as described in
	3GPP TS 25.324 [20], 3GPP TR 25.925 [44] and the description of BMC test architecture and test method in the present document, clause 6.8.
	The TSO calculates the BMC CBS Schedule messages to predict its next BlockSet to be sent. In addition, a DRX scheduling Bitmap is created for each CTCH allocated TTI aligned to the pre-calculated offset in between 2 CTCH Block Sets.
	The principle of DRX shall be followed by this TSO. I.e. BMC Messages shall be sent blockwise (CTCH Block Set) with predicted offset in between 2 Block Sets.
	The TSO shall consider the following aspects to calculate the DRX Selection Bitmap and to create the BMC CBS Schedule messages:
	 The first CTCH Block Set consists of the first BMC CBS Schedule message predicting the offset, length and content of the following Block Set where the BMC CBS Message1 shall be send as new message. The BMC CBS Message1 shall be repeated for p_BMC_CB_RepPeriod multiplied by p_BMC_NoOfBroadcast_Req times before the BMC CBS Message2 is
	broadcasted.
	 The BMC CBS Schedule Messages shall be the last message of a CTCH Block Set, i.e. on the end of a Block Set.
	4. If no further repetition of BMC CBS Messages is needed, no further BMC CBS
	Schedule message shall be created.
	Output parameter: DrxSelectionBitmap: The TSO creates a Bitmap as Octetstring for scheduled CTCH allocated TTI as described in 3GPP TS 34.123-3: clause 6.8.2 BMC test method and architecture.
	CBS_Schedule_Message01, CBS_Schedule_Message02,
	CBS_Schedule_Message03:Considering the given BMC PDUs_BMC_DRX_Offset and
	BMCCBSMESSAGE to be sent, the BMC Schedule messages have to be created
	according the given parameter.
o_CheckStringStartWith	Type of the result: BOOLEAN
	Parameters:
	p_SourceString: IA5String p_StartString: IA5String
	Description
	o_CheckStringStartWith returns TRUE if the p_sourceString start with the p_StartString. Otherwise it returns FALSE.
	EVANDIE Ob I-Obita vOt IANA (III / II - OL OO 4 0 0 0 II II - OL OO 4 0 0 II) TELLE † (
	EXAMPLE: o_CheckStringStartWith ("+CLCC:1,0,0,2,0;", "+CLCC:1,0,0")=TRUE */.

TSO Name	Description
o_ComputeSM_ContentsSp	Type of the result: OCTETSTRING
ec	Parameters:
	p_NumOfChars: INTEGER
	p_Text: IA5String
	Description
	This operation provides a short message's contents with a specified number of characters
	'p_NumOfChars', each represented by 7 bits. 'p_Text' is used as contents of the short
	message. If 'p_Text' contains less than 'p_NumOfChars' characters, 'p_Text' is repeated until the short message reaches the 'p_NumOfChars' characters long. The bits are
	arranged acc. to 3GPP TS 23.038 [34], clause 6.1.2.1.1.
	arranged acc. to corr 10 20.000 [c 1], claded c.11.2.1111
	max. 160 characters, i.e. 140 octets.
o_ConcatStrg	Type of the result: IA5String
	Parameters:
	P_String1: IA5String
	p_String2: IA5String
	Description
	o_ConcatString concatenates 'p_String1' and 'p_String2' and returns the resulting string.
	EXAMPLE: o_ConcatString ("AT+CBST=0" , ",0") = "AT+CBST=0,0"
o_ConvertIMSI	Type of the result: IMSI_GSM_MAP
-	Parameters:
	P_Imsi : HEXSTRING
	The input parameter `p_Imsi` is a BCD string (subset of HEXSTRING), the result is of
	type IMSI_GSM_MAP.
o_ConvertTMSI	Type of the result: TMSI_GSM_MAP Parameters:
	p_Tmsi : OCTETSTRING
	p_msr. ooreronano
	Description
	The input parameter 'p_Tmsi' is an OCTETSTRING; the result is of type
	TMSI_GSM_MAP.
o_ConvertPTMSI	Type of the result: P_TMSI_GSM_MAP
	Parameters:
	p_PTMSI : OCTETSTRING
	Description
	The input parameter `PTMSI` is a OCTETSTRING, the result is of type
	P_TMSI_GSM_MAP.
o_ConvtPLMN	Type of the result: TMSI_GSM_MAP
	Parameters: OCTETSTRING
	p_MCC, p_MNC : HEXSTRING
	Description
	Description the functions of o_ConvtPLMN are as following:
	the functions of 0_Convertivity are as following.
	The least significant HEX of p_MNC is removed from p_MNC and inserted into
	p_MCC in the position left to the third HEX to form a new p_MCC of 4 HEXs, then
	swap the first HEX (left most, most significant Hex) with the second HEX of the new
	p_MCC.
	Swap the first Hex with the second HEX of the remaining part of p_MNC and
	append it to the new p_MCC formed in Step1 above.
	EXAMPLE 1: o_ConvtPLMN('123'H, '456'H) = '216354'O.
	EXAMPLE 1: 0_CONVELMIN(123 H, 436 H) = 216334 O. EXAMPLE 2: 0_ConvtPLMN ('234'H, '01F'H) = '32F410'O.
1	

TSO Name	Description
o_FirstDigit	Type of the result: B4
	Parameters:
	p_BCDdigits : HEXSTRING
	Description
	The input parameter p_BCDdigits shall be a BCD string (subset of HEXSTRING), the
	result is a BITSTRING[4] of a binary representation of one BCD digit.
	The function of the o_FirstDigit is to return the first (most significant) digit of the input
	parameter 'p_BCDdigits'.
	EXAMPLE 1: o_FirstDigit('12345') = '0001'B.
	EXAMPLE 2: 0_FirstDigit('012345678') = '0000'B.
o_GetBit	Type of the result: BITSTRING
0_001511	Parameters:
	p_Source: BITSTRING
	p_DataLength: INTEGER
	Description
	o_GetBit returns the BITSTRING of length p_DataLength extracted from p_Source.
	The extraction shall start in the bit position 0 (at the left).
o_GetN_OctetsFromPRBS	Type of the result: OCTETSTRING
	Parameters:
	p_Start, p_N: INTEGER
	December 1981
	Description This provides a transfer of the second
	This operation returns N octets from a repeated pseudo random bit sequence, starting
	with octet position p_Start. The PRBS is the 2047 bit pseudo random test pattern defined in ITU-T Recommendation O.153 [45] for measurements at 64 kbit/s and N x 64 kbit/s
	o_GetN_OctetsFromPRBS(p_Start, p_N) generates an OCTETSTRING containing p_N
	octets starting from octet number p_Start in the PRBS.
	Requirements
	p_Start ≥ 0
	p_N ≥ 1
	Definition
	Define the 2 047 bit PRBS sequence b(i) as an m-sequence produced by using the
	following primitive (over GF(2)) generator polynomial of degree 11:
	X^11 + X^9 + 1
	This sequence is defined recursively as:
	b(i) = 1 , $i = 0,1,,10$
	b(i) = b(i - 2) + b(i - 11) modulo 2, $i = 11,16,,2046$
	The OCTETSTRING, o(j) generated by the present TSO is produced by extracting p_N
	octets from the repeated sequence b(i) as follows:
	$o(j,k) = b(((n_Start + j) * 8 + k) modulo 2047)$
	where:
	j = 0,1,,p_N - 1
	k = 0,1,7 o(j,k) is the kth bit of the jth octet in o(j),
	o(j,k) is the Kill bit of the jth octet in $o(j)$, $o(j,0)$ is the MSB of the jth octet in $o(j)$,
	$o(j, \sigma)$ is the NSB of the jith octet in $o(j)$, $o(j, \tau)$ is the LSB of the jth octet in $o(j)$,
	Example results:
	o_GetN_OctetsFromPRBS(0, 25) and o_GetN_OctetsFromPRBS(2047, 25) both
	return:
	'FFE665A5C5CA3452085408ABEECE4B0B813FD337873F2CD1E2'O
	o_GetN_OctetsFromPRBS(255, 25) and o_GetN_OctetsFromPRBS(255 + 2047, 25)
	both return
	'01FFCCCB4B8B9468A410A81157DD9C9617027FA66F0E7E59A3'O

TSO Name	Description
o_GetPI	Type of the result: BITSTRING
	Parameters:
	p_lmsi : HEXSTRING
	p_Np: INTEGER
	Description
	PI = drx_index mod np
	The drx_index is calculated as described hereafter:
	drx_index = (p_lmsi / 8192)) This calculation is defined in TS 25.304 clause 8.3.
	NOTE: the IMSI is passed as HEXSTRING, the relevant conversion shall be done.
o_GetSC_TimeStamp	Type of the result: TP_ServCentreTimeSt
	Parameters:
	p_timezone : TZONES
	This operation provides the hexstring containing the Service Centre Time Stamp (SCTS)
	according to 3GPP TS 23.040 [35], clauses 9.2.2.1 and 9.2.3.11. The TSO reads the
	current time of the test systems clock and transforms the time in combination with the
	input parameter 'timezone' into a service centre time stamp.
	Example: 2002 April 18, 15:32:46, timezone=4
	o_GetSC_TimeStamp returns 20408151236440
	======================================
	TPSCTS is HEXSTRING[14]
o_HexToDigitsMCC	Type of the result: MCC
	Parameters: p_BCDdigits: HEXSTRING
	p_bobulgits: HEASTKIING
	Description
	The input parameter p_BCDdigits shall be a BCD string (subset of HEXSTRING), the
	result is a SEQUENCE (SIZE(3)) OF digit (MCC).
	NOTE: The length of p_BCDdigits shall be 3. User shall take the responsibility of
	fulfilling this requirement.
	EXAMPLE 1: o_HexToDigitsMCC('111'H) = {1, 1, 1}.
o_HexToDigitsMNC	EXAMPLE 2: o_HexToDigitsMCC('123'H) = {1, 2, 3}. Type of the result: MNC
0_riexToDigitSiviiVC	Parameters:
	p_BCDdigits : HEXSTRING
	Description
	The function of this operation is:
	The least significant HEX is removed if it is 'F' and the operation returns
	SEQUENCE (SIZE(2)) OF Digit.
	2. The operation returns SEQUENCE (SIZE(3)) OF Digit if all 3 HEX digits in
	p_BCDdigits are BCD Digit.
	EXAMPLE 1: o_HexToDigitsMNC('123'H) = {1, 2, 3}.
	EXAMPLE 2: $o_HexToDigitsMNC('13F'H) = \{1, 3\}.$
o_HexToIA5	Type of the result: IA5String
	Parameters:
	p_String: HEXSTRING
	Description
	o_HEX_TO_IA5 converts hexadecimal string 'p_String' to an IA5 String
	EVANDLE: A LIEV TO LAG (MEAN) MAGAN
	EXAMPLE: o_HEX_TO_IA5 ('15A'H) = "15A".

TSO Name	Description
o_IA5_ToOct	Type of the result: OCTETSTRING
	Parameters:
	p_String : IA5String
	Description
	o_IA5_ToOct converts the string p_String from IA5String type to OCTETSTRING.
	Each character is mapped onto an octet, and bit 8 is set to 0. This TSO shall be used to
	convert Access Point Numbers for example. See 3GPP TS 24008, clause 10.5.6.1
	EXAMPLE: o_IA5_ToOct ("15A") = '313541'O.
o_IA5_BMC_ToOct	Type of the result: OCTETSTRING
	Parameters:
	p_String :IA5String_BMC
	p_DCS: TP_DataCodingScheme
	Description
	o_IA5_BMC_ToOct converts the string p_String from IA5String_BMC type to
	OCTETSTRING.
	p_DCS determines how this is done (refer to 3GPP TS 23.038 [34] clause 5).
	If a 7 bit packing is to be applied then proceed as described in 3GPP TS 23.038 [34] clause 6.1.2.2.1 and clause 6.2.1. This is the default case.
	If 8bit data is to be used then proceed as described in 3GPP TS 23.038 [34] clause 6.2.2.
	If UCS2is to be used then proceed as described in 3GPP TS 23.038 [34] clause 6.2.3.
	The type IA5_BMC implies that the length of p_String is restricted to 11395 octets.
	(Refer to 3GPP TS 23.041 [36], 3GPP TS 23.038 [34], 3GPP TS 25.324 [20])
	This TSO will always generate a BMC encoded message of 15 page of information. If the
	input message stream (p_String) is less than the size of required octet, then the input message will be concatenated to generate a string of required length based on p_DCS.

TSO Name	Description
o_IA5_IP_ToOct	Type of the result: OCTETSTRING
	Parameters:
	p_String: IA5String
	p_IP_V4: BOOLEAN
	Description
	o_IA5_IP_ToOct converts the string p_String from IA5String type to OCTETSTRING.
	In case of IPv4, p_String represents an IP address consisting of a number of fields of
	digits, separated by dots. Each one of the numbers of which the IP address consists is
	converted into one octet. The dots separating the numbers are ignored.
	EXAMPLE 1: o_IA5_IP_ToOct ("200.1.1.80", TRUE) = 'C8010150'O.
	EXAMPLE 2: o_IA5_IP_ToOct ("200.1.1.80.100", TRUE) should result in an appropriate
	error message.
	EXAMPLE 3: o_IA5_IP_ToOct ("300.1.1.80", TRUE) should result in an appropriate error message.
	enoi message.
	In case of IPv6, p_String represents an IP address consisting of a number of fields of
	hexadecimal digits, separated by ":".
	a) In case of uncompressed IPv6 format each value separated by ";" is converted to 2
	octets. The ":" separating the numbers are ignored.
	EXAMPLE 1: o_IA5_IP_ToOct(FEDC:BA98:7654:3210:FEDC:BA98:7654:3210, FALSE) = 'FEDCBA9876543210FEDCBA9876543210'O
	EXAMPLE 2: o_IA5_IP_ToOct(FEDC:BA98:7654:3210:FEDC:BA98:7654, FALSE)
	should result in an appropriate error message.
	EXAMPLE 3: o_IA5_IP_ToOct(1080:0:0:0:8:800:200C:417A,FALSE) =
	'108000000000000000080800200C417A'O
	EXAMPLE 4: o_IA5_IP_ToOct(1080:0:0:0:8:800:20H:417A,FALSE) should result in an
	appropriate error message.
	b) In case of compressed IPv6 format the use of "::" indicates multiple groups of 16-bits of zeros. The "::" can only appear once in an address.
	EXAMPLE 1: o_IA5_IP_ToOct(FF01::101,FALSE) =
	'FF0100000000000000000000000101'O
	EXAMPLE 2: o_IA5_IP_ToOct(FEDC::7654:3210:FEDC::BA98:7654:3210, FALSE)
	should result in an appropriate error message.
	ID V/4 is a ROOL FANL When TRUE on ID Version 4 address is to be converted the
	p_IP_V4 is a BOOLEAN. When TRUE, an IP Version 4 address is to be converted, the maximum length of which is 4 octets, otherwise an IP Version 6 address is to be
	converted, the maximum length of which is 16 octets. See 3GPP TS 24.008 [9],
	clause 10.5.6.4.
o_IA5_DigitsToOct	Type of the result: OCTETSTRING
	Parameters:
	p_String: IA5String
	Description
	o_IA5_DigitsToOct converts the string p_String from IA5String type to OCTETSTRING.
	Each pair of characters is considered a pair of numbers to be mapped onto 1 octet.
	Each character of p_String shall represent a digit (09).
	In case the number of characters is odd, then a filler '1111'B is used to fill the last octet
	required to represent the digits. See 3GPP TS 24.008 [9], clause 10.5.4.7.
	EXAMPLE 1: o_IA5_DigitsToOct ("0613454120") = '6031541402'O.
	EXAMPLE 2: o_IA5_DigitsToOct ("06134541209") = '6031541402F9'O.
	EXAMPLE 3: o_IA5_DigitsToOct ("A6134541209") should result in an appropriate error
	message.
o_IntToOct	Type of the result: OCTETSTRING
	Parameters: p_N:INTEGER
	p_L: INTEGER
	···
	Description
	o_IntToOct converts the INTEGER `p_N` into OCTETSTRING with length = 'p_L'.
	EVANDLE 4 a lette Oct/44.4) 10EIO
	EXAMPLE 1: o_IntToOct(14,1) = '0E'O. EXAMPLE 2: o_IntToOct(18,1) = '12'O.
	EXAMPLE 3: o_IntToOct(18,1) = 12 O. EXAMPLE 3: o_IntToOct(18,2) = '0012'O.
L	

TSO Name	Description
o_IntToIA5	Type of the result:IA5String
	Parameters:
	p_N : INTEGER; p_L: INTEGER
	December
	Description o_IntToIA5 converts the INTEGER `p_N` into IA5 String with length = 'p_L'.
	O_INITIONAS CONVERS THE INTEGER P_N INTO NAS String with length = P_L.
	EXAMPLE 1: o_IntToIA5(160,3) = "160";
	EXAMPLE 2: o_IntToIA5(160,4) = " 160";
	EXAMPLE 3: o_IntToIA5(160,2) = "60".
o_OctetstringConcat	Type of the result: OCTETSTRING
	Parameters:
	p_Str1, p_Str2: OCTETSTRING
	Description
	o_OctetstringConcat Performs the concatenation of 2 octetstrings of possibly different
	lengths.
	The octet significance is from left to right, i.e. the MSB is at the lefthand side.
	Returns a resulting octetstring p_Str1 p_Str2.
	EXAMPLE: o_OctetstringConcat('135'O, '9A38'O) = '1359A38'O.
o_OctToBit	Type of the result: BITSTRING
	Parameters:
	p_OctetStr: OCTETSTRING
	Description
	Description Converts an OCTETSTRING into a BITSTRING.
	The size of the resulting BITSTRING is 8 times the size of the input OCTETSTRING.
o_OctToIA5	Type of the result: IA5String
	Parameters:
	p_String : OCTETSTRING
	Description
	Description o_Oct_ToIA5 converts the string p_String from OCTETSTRING type to IA5String.
	Each octet is mapped onto a pair of characters. Nibbles 0 - F are translated into "0" - "F".
	For example:
O IT I	o_Oct_ToIA5 ('3BF541'O) = "3BF541'
o_OctToInt	Type of the result: INTEGER Parameters:
	p_oct : OCTETSTRING
	P_sort of t_rent in the second of the second
	Description
	Transform an OCTETSTRING of length 1 to 4 into an unsigned 32 bits IINTEGER value.
o CoDit	If the input octet string is larger than 4, then only the first 4 octets shall be considered. Type of the result: BITSTRING
o_OeBit	Parameters:
	p_BCDdigits: HEXSTRING
	P_555 signor (External to
	Description
	The input parameter 'p_BCDdigits' is a BCD string (subset of HEXSTRING), the result is
	BITSTRING[1]. The function of the c. OoPit is so the follows:
	The function of the o_OeBit is as the follows:
	1. It returns '1'B, if the length of the 'p_BCDdigits' is odd.
	2. It returns '0'B, if the length of the 'p_BCDdigits' is even.
	EXAMPLE 1: o_OeBit('12583') = '1'B.
	EXAMPLE 2: o_OeBit('87259957') ='0'B.

TSO Name	Description
o_OtherDigits	Type of the result: OCTETSTRING Parameters:
	p_BCDdigits : HEXSTRING
	Description
	The input parameter `p_BCDdigits ` is a BCD string (subset of HEXSTRING), the result is an even string of BCD digits, with eventually a filler 'F'H used. */
	The function of the o_OtherDigits is as the follows:
	 If the number of the 'p_BCDdigits' is odd, the operation removes the most significant digit, and then reverses the order of each pair of digits. If the number of the 'p_BCDdigits' is even, first the operation suffixes the `bcddigits' with 'F'H, then removes the most significant digit, and then reverses the order of each pair of digits.
	EXAMPLE 1: o_OtherDigi('12345') = '3254',
	EXAMPLE 2: o_OtherDigi('12345678') ='325476F8'. See o_FirstDigit for the handling of the first digit.
o_RoutingParameterIMSIRe	Type of the result: RoutingParameter
sponsePaging	Parameters: p_IMSI : HEXSTRING
	Description The input parameter p_Imsi is a BCD string (subset of HEXSTRING), the result is of type RoutingParameter.
	The tso returns the RoutingParameter, which consists of DecimalToBinary [(IMSI div 10) mod 1000]. The bits of the result are numbered from b0 to b9, with bit b0 being the least significant.

TSO Name	Description
o_SIB_PER_Encoding	Type of the result: BITSTRING
	Parameters: p_SIB : SIB
	p_5ib . 5ib
	Description
	It returns the unaligned PER encoding (BIT STRING) of the input system information
	block p_SIB (without "Encoder added (1-7) bits padding"). The bits corresponding to the
	encoding of the CHOICE of the SIB type shall be removed. Example:
	for the following SIBType1 value:
	<pre>SysInfoType1 ::= { cn-CommonGSM-MAP-NAS-SysInfo '32F4100001'H,</pre>
	cn-DomainSysInfoList
	{ { cn-DomainIdentity ps-domain,
	<pre>cn-Type gsm-MAP : '0000'H, cn-DRX-CycleLengthCoeff 7},</pre>
	{cn-DomainIdentity cs-domain,
	<pre>cn-Type gsm-MAP : '0001'H, cn-DRX-CycleLengthCoeff 7}},</pre>
	CII-DAX-Cyclebengthcoeff ////
	ue-ConnTimersAndConstants { t-304 ms100,
	n-304 7,
	t-308 ms40,
	t-309 8, t-313 15,
	n-313 s200,
	t-314 s20, t-315 s1800,
	n-315 s1000},
	<pre>ue-IdleTimersAndConstants { t-300 ms400,</pre>
	n-300 7,
	t-312 10, n-312 s200},
	nonCriticalExtensions { }
	The energian returns DITCTDING
	The operation returns BITSTRING: "1000011001011110100000100000000000000
	00100000000000010100011001100000111110000
	0101111010011"
o_SIB_Segmentation	Type of the result: SegmentsOfSysInfoBlock Parameters:
	p_SIBBitString : BITSTRING
	Description CID O
	The function of the o_SIB_Segmentation is as following:
	1. If the p_SIBBitString is less than or equal to 226 bits, the bit string is fit into a
	complete segment. If the segment is less than 226 bits but more than 214 bits, the
	segment shall be padded to 226 bits long with padding bits set to '0'B.
	2. If the input operand p_SIBBitString is longer than 226 bits it is segmented from left
	to right into segments, each segment except the last one is 222 bits. The last
	segment may be 222 bits or shorter. If the length of last segment is greater than
	214 bits pad it to 222 bits with padding bits set to '0'B.
	3. The number of segments is assigned to recount field of the result.
	4. The first segment is assigned to seg1 field of the result, the second segment is
	assigned to the seg2 field of the result, the third segment is assigned to the seg3 field of the result, and so on till the last segment.

TSO Name	Description		
o_SIB_SegmentationFirstSp	Type of the result: SegmentsOfSysInfoBlock		
ecial	Parameters: p_SIB_BitString : BITSTRING		
	p_FirstSegLength: INTEGER		
	Description The function of the o_SIB_Segmentation_FirstShort is as following:		
	The function of the o_olb_oegmentation_f instance is as following.		
	If the p_SIB_BitString is less than or equal to p_FirstSegLength bits, the bit string is fit into one segment.		
	2. If the input operand p_SIB_BitString is longer than p_FirstSegLength bits it is segmented from left to right into segments, each segment except the first one and the last one is 222 bits. The first one is p_FirstSegLength long. The last segment may be 222 bits or shorter. If the length of last segment is greater than 214 bits pad it to 222 bits with padding bits set to '0'B.		
	The number of segments is assigned to segCount field of the result.		
	4. The first segment is assigned to seg1 field of the result, the second segment is assigned to the seg2 field of the result, the third segment is assigned to the seg3 field of the result, and so on till the last segment.		
a. Chaali DDI la Aalina uula daa	The value of parameter p_FirstSegLength shall be less than 197. Type of the result: BOOLEAN		
o_CheckPDUsAcknowledge d	Parameters:		
	p_NackList: NackList Contains a list of integers (possibly empty), each of which corresponds to a PDU SN. Negative acknowledgement is expected for each of these PDUs.		
	p_FSN: INTEGER Contains an integer representing the first SN expected to be acknowledged.		
	p_LSN: INTEGER Contains an integer representing the last SN expected to be acknowledged.		
	p_SUFI_List: SuperFields This parameter contains the received SUFI list to be checked.		
	Description: This TSO is used to check that the given SUFI list contains any combination of SUFIs that fulfils the following requirements:		
	Negatively acknowledges all PDUs whose sequence numbers are in p_NackList. Note that the list may be empty.		
	Positively acknowledges all other PDUs with sequence numbers greater than or equal to p_FSN, and less than or equal to p_LSN.		
	Output: This TSO returns a BOOLEAN value of TRUE if the SUFI list meets all of the requirements based on the given parameters. Otherwise the TSO returns FALSE.		

8.7.1.1 Specific test suite operation for RLC defined in BasicM

This TSO is defined in BasicM, it is used by RLC and MAC ATSs.

Table 152: TSO definitions for RLC SUFI handling

TSO Name	Description
o_SUFI_Handler	Type of the result: ResAndSUFIs
	Parameters:
	p_SUFI_Params: SUFI_Params
	p_SUFI_String: HEXSTRING
	Conditions:
	Inputs:
	p_SUFI_Params: the list of checking criteria to be applied by the TSO
	p_SUFI_String: the HEXSTRING received containing the SUFIs
	Outputs:
	the BOOLEAN result of the TSO:
	TRUE if all checking and the filling of the SuperFields structure were successful;
	FALSE otherwise; in this case the TSO shall produce sufficient output to allow problem analysis

Table 153: ResAndSUFIs type and Processing of the SUFI parameters input to the TSO

Parameter	Туре	Setting	Meaning	Comment
Lower Bound	BITSTRING	OMIT	Do not use!	
(LB)	[12]	AnyOrOmit	Do not use!	
Upper Bound		Any	Do not use!	
(UB)		Value	Use!	
NackList	BITSTRING	OMIT	Do not use!	
Element i	[12]	AnyOrOmit	Do not use!	
(Nacki)		Any	Do not use!	
		Value	Use!	Check negative ack
Window Size	BOOLEAN	OMIT	Use!	Check absence
SUFI presence		AnyOrOmit	Do not use!	
(WSN_		Any	Use!	Check presence
presence)		Value	Use!	Check presence
MRW SUFI	BOOLEAN	OMIT	Use!	Check absence
presence		AnyOrOmit	Do not use!	
(MRW_		Any	Use!	Check presence
presence)		Value	Use!	Check presence

8.7.1.1.1 Pseudocode in a C like notation

The pseudocode defined below can be written in a more compact fashion. The code hereafter is to allow easy identification of the TSO's tasks. All situations leading to a FALSE result must produce a log. This is not shown in the code hereafter. Possible wrap arounds are not shown in this section. These have to be accounted for at the appropriate places.

```
Set_SUFI_ListRec(SUFI);
                                              /* Put the SUFI at the correct place in the
resulting */
/* SUFI structure; overwrite if the SUFI type has */
/* already been extracted except LIST SUFIs which all are to be collected */
                                                /* Get next SUFI */
    SUFI := Extract SUFI(i);
}
/* FOR ALL SUFI TYPES: IF EXISTING, PERFORM CONSISTENCY CHECK */
if Exists_SUFI (ACK) AND NOT CheckConsistency (ACK)
RESULT := FALSE;
                                               /* ACK SUFI inconsistent -> Result is FALSE */
if Exists SUFI (WINDOW) AND NOT CheckConsistency (WINDOW)
RESULT := FALSE;
                                                /* WINDOW SUFI inconsistent -> Result is FALSE */
/* TAKE THE INDIVIDUAL CHECKING PARAMETERS & PERFORM THE EXPECTED CHECKING */
/* PART 1: EXISTENCE CHECKS */
if ((WSN presence == Any) OR (WSN presence == TRUE) OR (WSN presence == FALSE)) AND NOT
Exists SUFI(WINDOW)
                                                /* WINDOW not ex. but should -> Result is FALSE */
RESULT := FALSE:
if ((MRW_presence == Any) OR (MRW_presence == TRUE) OR (MRW_presence == FALSE)) AND NOT
Exists SUFI (MRW)
RESULT := FALSE;
                                                /* MRW not ex. but should -> Result is FALSE */
/* PART 2: RANGE AND NACK CHECKS OF SUFI CONTENTS*/
/* ACK: LB <= LSN received <= UB */
if NOT (LB <= Extract SUFI Value(ACK) -1 AND Extract SUFI Value(ACK) -1 <= UB)
RESULT := FALSE;
                                                /* ACK value not in the expected range */
                                                /* LB: first SN acceptable as LSN received */
                                                /* UB: last SN acceptable as LSN received */
                                                /* LSN received acks SNs upto LSN received -1 */
/* Bitmap */
/* for all SNs between LB and UB */
if (ExtractBitmap(FSN extracted, LENGTH extracted, Bitmap extracted, SN) == 1) AND (SN in NackList)
RESULT := FALSE;
                                               /* if the bit in the Bitmap is not 0 */
if (ExtractBitmap(FSN extracted, LENGTH extracted, Bitmap extracted, SN) == 0) AND (SN NOT in
NackList)
RESULT := FALSE;
                                                /* if the bit in the Bitmap is not 0 */
/* LIST */
/* The (SNi,Li) pairs identify AMD PDUs which have not been correctly received. */
/* Therefore the (SNi,Li) pairs have to be consistent with the NackList. */
/* The (SNi,Li) pairs may be contained in multiple LIST SUFIs conveyed in one STATUS PDU */
/* RLTST */
/* The CWs represent the distance between the previous indicated erroneous AMD PDU */
/* up to and including the next erroneous AMD PDU, starting from the FSN contained in the RLIST
SUFI. */
/st Therefore the FSN and the Codewords have to be consistent with the NackList. st/
/* Error burst indicator has to be treated as a separate case. May not have to be implemented
currently. */
/* MRW */
/* LENGTH = 0 */
/* 1 SN MRWi is present and the RLC SDU to be discarded extends above the configured transmission
window in the sender */
/* LENGTH = 1 ... 15 */
/* 1 ...15 SN_MRWi */
/* a) MRW configured → an SN MRWi indicates the end of each discarded RLC SDU */
/* n SN MRWs → n RLC SDUs discarded */
/* b) MRW not configured \Rightarrow an SN_MRWi indicates end of last RLC SDU to be discarded */
/* in the receiver */
/* To be implemented as far as required by the RLC ATS */
/* MRW ACK */
/* The SN ACK must be consistent with the information sent in a previous MRW SUFI upon which the */
/* MRW ACK represents the answer. */
/* NO MORE */
/* no checking required */
/* SUBFUNCTIONS USED*/
Check Consistency (SUFI type)
                                                /* returns TRUE when the type fulfils the */
```

```
/* requirements of the spec. TS 25.322*/
Exists_SUFI (SUFI_type)
                                                  /* returns TRUE when the specified */
/* type has been extracted, therefore exists*/
ExtractBitmap(FSN extracted, LENGTH extracted, Bitmap extracted, Criterion)
                                          /* Extract the value in the Bitmap at position Criterion */
                                          /* Calculation based on information received in the */
                                          /* Bitmap SUFI */
Extract_SUFI (Counter)
                                          /* returns the SUFI extracted at position counter */
/* from the input p_SUFI_String; */
/* n SUFIs from positions 0 to n-1 */
/* returns NULL if there is no further SUFI */
Extract_SUFI_Value (SUFI_type, field_type )
                                                /* extract the value of specific field type */
/\ast contained in a specific SUFI type \ast/ /\ast There will be several flavours depending upon the \ast/
/* result (field) type */
Initialize ResAndSUFIs ()
                                                   /* Initialize RESULT and all SUFI fields */
                                                   /* set return values RESULT and */
Set_SUFI_ListRec(SUFI)
                                                   /* SUFI structure SUFI_ListRec */
```

8.7.2 Specific test suite operation definitions for Multi RAT Handover testing

Table 154: TSO definitions for Multi RAT handover

TSO Name	Description
OC_LeastBits	Type of the result: BITSTRING
	Parameters:
	bstring : BITSTRING lg : INTEGER
	IG . HATEGER
	Description:
	It returns the `lg` least significant bits of the original `bstring`.
	for example:
	OC_LeastBits('110011000101010'B, 3) = '010'B,
	OC_LeastBits('110011000101010'B, 6) = '101010'B.
OC_MostBits	Type of the result: BITSTRING
	Parameters:
	bstring : BITSTRING
	lg: INTEGER
	9.1112021
	Description:
	It returns the `lg` most significant bits of the original `bstring`.
	for example:
	OC_ MostBits ('110011000101010'B, 3) = '010'B,
	OC_ MostBits ('110011000101010'B, 6) = '101010'B.
o_HO_PER_Encoding	Type of the result: BITSTRING
	Parameters:
	p_Msg : DL_DCCH_Message
	F5
	Description:
	It returns the unaligned PER encoding (BIT STRING) of the input downlink DCCH
	message p_Msg (without "Encoder added (1-7) bits padding").

TSO Name	Description
o_CheckUtranClassmark	Type of the result: ResAndStartValue
	Parameters:
	p_InterRATHOInfo : OCTETSTRING
	p_RACap : UE_RadioAccessCapability
	Description:
	This function decodes the InterRATHandoverInfo IE, received from an incoming
	UtranClassmarkChange message as an octetstring, as the ASN.1 definition
	InterRATHandoverInfo.
	It then compares the contents of the input parameter p_RACap against the field
	p_InterRATHOInfo.ue_CapabilityContainer.present and returns the boolean result in
	ResAndStartValue.res
	It also extracts the field CTART Value from
	It also extracts the field START_Value from p_InterRATHOInfo.uE_SecurityInformation.present.start_CS and returns this in
	ResAndStartValue.start
	1100/11/100 tart value lotar
	If either p_InterRATHOInfo.ue_SecurityInformation or
	p_InterRATHOInfo.ue_CapabilityContainer is not present, the function should return
	FALSE
	Other fields in the leter DATI leader relate IF are not also also
a. DaakatDaainaCraunCala	Other fields in the InterRATHandoverInfo IE are not checked. Type of the result: INTEGER
o_PacketPagingGroupCalc ulate	Type of the result. INTEGER
diate	Parameters:
	IMSI : HEXSTRING
	KC_Conf : INTEGER
	M:INTEGER
	N:INTEGER
	SplitPGCycle: B8
	Description:
	It returns the calculated Packet Paging Group, according to:
	Totaline are eareaface r denot r aging Group, decorating to.
	PAGING_GROUP (0 M-1) = (((IMSI mod 1000) div (KC*N)) * N + (IMSI mod 1000)
	mod N + Max((m * M) div SPLIT_PG_CYCLE, m)) mod M
	for m = 0,, Min(M, SPLIT_PG_CYCLE) -1
	where
	KC = number of (P)CCCH in the cell = BS_PCC_CHANS for PCCCH or BS_CC_CHANS
	for CCCH
	M = number of paging blocks "available" on one (P)CCCH =
	(12 - BS_PAG_BLKS_RES - BS_PBCCH_BLKS) * 64 for PCCCH
	(9 - BS_AG_BLKS_RES) * 64 for CCCH not combined
	(3 - BS_AG_BLKS_RES) * 64 for CCCH + SDCCH combined
	N. C. DOOGU
	N=1 for PCCCH
	(9 - BS_AG_BLKS_RES)*BS_PA_MFRMS for CCCH not combined (3 - BS_AG_BLKS_RES)*BS_PA_MFRMS for CCCH/SDCCH combined
	DO_AG_DENO_NEO) DO_LA_WIFNWIO IOLOGO MODOCO COINDINEC
	SPLIT_PG_CYCLE is an MS specific parameter negotiated at GPRS attach (see
	3GPP TS 04.60)
	IMSI = International Mobile Subscriber Identity, as defined in 3GPP TS 03.03.

TSO Name	Description
o_PagingGroupCalculate	Type of the result: INTEGER
	Parameters:
	p_IMSI : HEXSTRING
	p_CCCH_Conf : B_3
	p_N : INTEGER
	Description
	Calculate the PAGING_GROUP (0 N?1) = ((IMSI mod 1000) mod (BS_CC_CHANS x N)) mod N
	where:
	N = number of paging blocks "available" on one CCCH = (number of paging blocks "available" in a 51-multiframe on one CCCH) x BS_PA_MFRMS.
	IMSI = International Mobile Subscriber Identity, as defined in 3GPP TS 23.003 [6].
	mod = Modulo.
	div = Integer division.
o_TTCN_HO_CommandTo	Type of the result: BITSTRING
Bitstring	Parameters:
	p_PDU : PDU
	Description
	The function of the o_TTCN_HOCommandToBitstring is as the follows:
	- It returns the bitstring representation of the input HANDOVERCOMMAND p_PDU.
o_BitToOct	Type of the result: OCTETSTRING
	Parameters:
	p_Str: BITSTRING
	Description
	This TSO is used to convert the given BITSTRING into an OCTETSTRING. If the bitstring
	length is not a multiple of 8, 1 to 7 padding bits are added at the MSB to fill the final octet.

8.7.3 Specific test suite operation for Multi RAB testing

Table 155: TSO definitions for Multi RAB testing

TSO Name	Description
o_SendContinuousData	Type of the result: BOOLEAN
	Parameters:
	p_RAB_Tx_Info : RAB_Tx_Info
	P_NAB_1X_IIII0 : NAB_1X_IIII0
	Conditions:
	Inputs:
	p_RAB_Tx_Info: test data, number of RBs, and RB info of each RB (RB id, SDU size
	and number of SDUs to be transmitted in consecutive TTIs
	Outputs:
	The BOOLEAN result of the TSO:
	TRUE if system simulator accepts the information sent from TTCN
	FALSE if system simulator rejects the information sent from TTCN.
	Description
	When sending the data through the TSO, after the CMAC_Restriction_REQ, the TFC
	under test will be one corresponding the maximum CTFC value in the Restricted list, so
	that SS can select the number of Transport blocks and the size of Transport blocks on
	individual Transport channels derived from this CTFC.
	Starting from the beginning of the raw data buffer given in the TSO:
	Data to be sent on a particular RbId is the first (number of SDUs * SDU_Size) bits
	All calls to TSO o_sendContinuosData in a test will always specify the exact same set
	of Rblds.

Table 156: RAB_Tx_Info type

	Structure T	vpe Definition	
Type Name: RAB_Tx_I		71.	
Encoding Variation:			
Comments: To provide	the information to SS to send	I data in every TTI on each	RAB. Number of RBs
depends on specific req	uirement. SS shall take care a	about all kind of discard info	o in all RLC modes and final
aim is DL TFCs under to	est shall be selected in downli	nk for each TTI.	
Element name	Type Definition	Field Encoding	Comments
test data	BITSTRING		The raw test data buffer
no_of_rbs	INTEGER		No of Radio Bearers
rb_tx_info1	RB_Tx_Info		Info about RB id, SDU
			size and number of SDUs
rb_tx_info2	RB_Tx_Info		Info about RB id, SDU
			size and number of SDUs
rb_tx_info3	RB_Tx_Info		Info about RB id, SDU
			size and number of SDUs
rb_tx_info4	RB_Tx_Info		Info about RB id, SDU
			size and number of SDUs
rb_tx_info5	RB_Tx_Info		Info about RB id, SDU
			size and number of SDUs
rb_tx_info6	RB_Tx_Info		Info about RB id, SDU
			size and number of SDUs

Table 157: RB_Tx_Info type

Structure Type Definition			
Type Name: RB_Tx_Info	Type Name: RB_Tx_Info		
Encoding Variation:	Encoding Variation:		
Comments:			
Element name	Type Definition	Field Encoding	Comments
rb_id	INTEGER		
sdu_size	INTEGER		
no_of_sdus	INTEGER		

8.7.4 Specific test suite operation for InterSystem Handover testing

Table 158: TSO definitions for InterSystem testing

TSO Name	Description
o_LengthofPDU	Type of the result: O1
	Parameters:
	p_Msg : PDU
	Description: The function of the o_LengthofPDU is as the follows:
	- it returns the no. of octets of the input downlink message p_Msg

8.7.5 Specific test suite operation for RAB_HS testing

Table 159: TSO definitions for RAB_HS testing

TSO Name	Description
o_CalculateTestPoint656	Type of the result: HSDPA_TestPoint
	Parameters:
	p_PhyCat:HSDSCH_physical_layer_category
	p_ModScheme:ModulationScheme
	p_NumOfPDU: INTEGER
	Description:
	TSO implements tables 14.1.3.4.1 for category 1 to 6, 14.1.3.4.2 for category 7 and 8,
	14.1.3.4.3 for category 9, 14.1.3.4.4 for Category 10 and 14.1.3.4.5 for category 11 and
	12.
	It accepts UE category(1 to 12), Modulation scheme(qpsk or qam16) and number of MAC-D PDU's(1 to 70) as input.
	If a test point is not defined for this combination of input, then returns
	flag = FALSE
	noOfChannelisationCodes =0
	tbSizeIndexOnHS_SCCH =0
	If a test point is defined for the combination of inputs, it returns,
	flag = TRUE
	noOfChannelisationCodes =value as per relevant table
	tbSizeIndexOnHS_SCCH =TFRI value as per relevant table
	example:
	if input is physical category =1,modScheme=gpsk,Num Of PDU's =5
	TSO returns
	flag = TRUE
	noOfChannelisationCodes =5
	tbSizeIndexOnHS SCCH =43
	If input is category =1,modScheme=qpsk,Num Of PDU's =10
	TSO returns
	flag = FALSE
	noOfChannelisationCodes =0
	tbSizeIndexOnHS_SCCH =0

TSO Name	Description
o_CalculateTestPoint336	Type of the result: HSDPA_TestPoint
	Parameters:
	1 31 31 11 11 11 11 11 11 11 11 11 11 11
	p_PhyCat:HSDSCH_physical_layer_category
	p_ModScheme:ModulationScheme
	p_NumOfPDU: INTEGER
	Description:
	TSO implements tables 14.1.3.3.1 for category 1 to 6, 14.1.3.3.2 for category 7 and 8,
	14.1.3.3.3 for category 9, 14.1.3.3.4 for Category 10 and 14.1.3.3.5 for category 11 and 12.
	It accepts UE category(1 to 12), Modulation scheme(qpsk or qam16) and number of MAC-D PDU's(1 to 70) as input.
	If a test point is not defined for this combination of input, then returns flag = FALSE
	noOfChannelisationCodes =0
	tbSizeIndexOnHS SCCH =0
	If a test point is defined for the combination of inputs, it returns, flag = TRUE
	noOfChannelisationCodes =value as per relevant table
	tbSizeIndexOnHS SCCH =TFRI value as per relevant table
	isolize in doxoni le_eeen = 11 til valde de per leievant table
	example:
	if input is physical category =1,modScheme=gpsk,Num Of PDU's =10
	TSO returns
	flag = TRUE
	noOfChannelisationCodes =5
	tbSizeIndexOnHS SCCH =45
	If input is category =1,modScheme=qpsk,Num Of PDU's =17
	TSO returns
	flag = FALSE
	noOfChannelisationCodes =0
	tbSizeIndexOnHS_SCCH =0

Table 160: HSDPA_TestPoint

Structure Type Definition				
Type Name: HSDPA_TestPoint				
Encoding Variation:				
Comments: To provide the information to SS to send data in every TTI on each RAB. Number of RBs				
depends on specific requirement. SS shall take care about all kind of discard info in all RLC modes and final aim is DL TFCs under test shall be selected in downlink for each TTI.				
Element name	Type Definition	Field Encoding	Comments	
flag	BOOLEAN		TRUE if test point is applicable	
noOfChannelisationCode s	INTEGER		Range 1 to 15 Valid value ifflag =TRUE	
tbSizeIndexOnHS_SCCH	INTEGER			

8.7.6 Specific test suite operation for Intersystem HS Testing

Table 161: TSO definitions for ISHO_HS testing

TSO Name	Description	
o_TTCN_SysInfoToOctetSt	Type of the result: OCTETSTRING	
ring		
	Parameters:	
	p_Type: INTEGER	
	p_PDU : PDU	
	Description:	
	The function of the o_TTCN_SysInfoToOctetString is as the follows:	
	- It returns the octetstring representation of the input System Information message	
	p_PDU.	
	The parameter p_Type details the type of SI message. Expected values: 1, 3 and 13.	

8.7.7 Specific test suite operation for A-GPS testing

Table 162: TSO definitions in A-GPS

TSO Name	Description		
o_PositionEstimateToGeoInfo	Type of the result: Ext_GeographicalInformation		
	Parameters: p_PosEst: PositionEstimate		
	p_rosest. rositionestimate		
	Description:		
	Converts, according to TS 23.032, clause 7, the position estimate sent by the UE in a		
	MEASUREMENT REPORT message from type Position Estimate to type		
	Ext_GeographicalInformation in order to be included in the FACILITY message sent by the SS in MO-LR UE-Based test cases.		
	and do in the Liver Based took eacost.		
	The definition of the types is the following:		
	PositionEstimate::= CHOICE		
	CHOICE {		
	ellipsoidPoint EllipsoidPoint,		
	ellipsoidPointUncertCircle EllipsoidPointUncertCircle,		
	ellipsoidPointUncertEllipse EllipsoidPointUncertEllipse,		
	ellipsoidPointAltitude EllipsoidPointAltitude, ellipsoidPointAltitudeEllipse EllipsoidPointAltitudeEllipsoide		
	}		
	with one of the following options being expected from the UE:		
	EllipsoidPointUncertCircle ::=		
	SEQUENCE		
	{ latitudeSign ENUMERATED {north(0), south(1)},		
	latitude INTEGER (08388607),		
	longitude INTEGER (-83886088388607),		
	uncertaintyCode INTEGER (0127)		
	}		
	or		
	EllipsoidPointUncertEllipse ::= SEQUENCE		
	{		
	latitudeSign ENUMERATED {north(0), south(1)},		
	latitude INTEGER (08388607),		
	longitude INTEGER (-83886088388607), uncertaintySemiMajor INTEGER (0127),		
	uncertaintySemiMinor INTEGER (0127),		
	orientationMajorAxis INTEGER (089),		
	confidence INTEGER (0100)		
	or		
	EllipsoidPointAltitudeEllipse ::=		
	SEQUENCE		
	[{		
	latitudeSign ENUMERATED {north(0), south(1)},		
	latitude INTEGER (08388607), longitude INTEGER (-83886088388607),		
	altitudeDirection ENUMERATED {height(0), depth(1)},		
	altitude INTEGER (032767),		
	uncertaintySemiMajor INTEGER (0127),		
	uncertaintySemiMinor INTEGER (0127), orientationMajorAxis INTEGER (089),		
	uncertaintyAltitude INTEGER (0127),		
	confidence INTEGER (0100)		
	}		
	1		

TSO Name	Description		
	The definition of the resulting type is:		
	Ext-GeographicalInformation ::= OCTET STRING (SIZE (1maxExt-GeographicalInformation))		
	maxExt-GeographicalInformation INTEGER ::= 20		
	For example:		
	<pre>p_PositionEstimate:= ellipsoidPointUncertCircle</pre>		
145 T 40N40 /	o_PositionEstimateToGeoInfo (p_PositionEstimate) = '10 00 00 7B 00 11 D7 08'O		
o_IA5_ToASN1Oct	Type of the result: NameString Parameters: p_String: IA5String		
	Provided to		
	Description: Converts the string p_String from IA5String type to NameString according to the Data Coding Scheme '0F'O.		
	This data coding scheme is the only one used in the AGPS ATS. It packs 7bit ASCII onto 8 bit octets.		
	Applicable ASN.1 definitions:		
	LCSClientName ::= SEQUENCE { dataCodingScheme [0] IMPLICIT USSD-DataCodingScheme, nameString [2] IMPLICIT NameString }		
	The USSD-DataCodingScheme shall indicate use of the default alphabet through the		
	following encoding bit 7 6 5 4 3 2 1 0 0 0 0 0 1 1 1 1		
	NameString ::= USSD-String (SIZE (1maxNameStringLength))		
	maxNameStringLength INTEGER ::= 63		
	USSD-DataCodingScheme ::= OCTET STRING (SIZE (1)) The structure of the USSD-DataCodingScheme is defined by the Cell Broadcast Data Coding Scheme as described in TS 3GPP TS 23.038 [25]		
	USSD-String ::= OCTET STRING (SIZE (1maxUSSD-StringLength)) The structure of the contents of the USSD-String is dependent on the USSD-DataCodingScheme as described in TS 3GPP TS 23.038 [25].		
	maxUSSD-StringLength INTEGER ::= 160		
	The ATS uses:		
	IcsClientName { dataCodingScheme '0F'O, The USSD-DataCodingScheme shall indicate use of the default alphabet through the following encoding bit 7 6 5 4 3 2 1 0 0 0 0 0 1 1 1 1		
	For example: o_IA5_ToASN1Oct ("ERICH") = '4569728804'O		

TSO Name	Description
o_ISDN_Address_ToASN1Oct	Type of the result: ISDN_AddressString
	Parameters: p_TOA: B4
	p_NPI: B4
	p_String: IA5String
	Description:
	Converts p_TOA plus p_NPI, and string p_String to ISDN_AddressString.
	TOA and NPI are mapped onto the first octet.
	Each pair of characters of p_String is considered a pair of numbers to be mapped onto 1 octet.
	Each character of p_String shall represent a digit (09).
	In case the number of characters is odd, then a filler '1111'B is used to fill the last octet
	required to represent the digits. See 3G TS 24008, clause 10.5.4.7
	Applicable ASN.1 definitions:
	LCSClientExternalID ::= SEQUENCE {
	externalAddress [0] IMPLICIT ISDN-AddressString OPTIONAL,
	extensionContainer [1] IMPLICIT ExtensionContainer OPTIONAL
	ı
	ISDN-AddressString ::= AddressString (SIZE (1maxISDN-AddressLength)) This type is used to represent ISDN numbers.
	maxISDN-AddressLength INTEGER ::= 9
	-
	AddressString ::= OCTET STRING (SIZE (1maxAddressLength)) This type is used to represent a number for addressing
	purposes. It is composed of
	a) one octet for nature of address, and numbering plan
	indicator b) digits of an address encoded as TBCD-String.
	 a) The first octet includes a one bit extension indicator, a 3 bits nature of address indicator and a 4 bits numbering
	plan indicator, encoded as follows:
	bit 8: 1 (no extension)
	bits 765: nature of address indicator
	000 unknown
	001 international number
	010 national significant number 011 network specific number
	100 subscriber number
	101 reserved
	110 abbreviated number 111 reserved for extension
	hite 4221: numbering plan indicator
	bits 4321: numbering plan indicator 0000 unknown
	0001 ISDN/Telephony Numbering Plan (Rec ITU-T E.164)
	0010 spare 0011 data numbering plan (ITU-T Rec X.121)
	0100 telex numbering plan (ITU-T Rec F.69)
	0101 spare
	0110 land mobile numbering plan (ITU-T Rec E.212) 0111 spare
	1000 national numbering plan
	1001 private numbering plan
	1111 reserved for extension
	all other values are reserved.
	 b) The following octets representing digits of an address encoded as a TBCD-STRING.

TSO Name	Description	
	maxAddressLength INTEGER ::= 20	
	For example: o_ISDN_Address_ToASN1Oct ('0011','0011',"0123456") = '33103254F6'O	
o_LengthofComponents	Type of the result: OCTETSTRING	
	Parameters:	
	p_Components: Components	
	Description:	
	The functionality of the o_LengthofComponents is as below:	
	It returns the length (no. of octets) of the input constraint p_Components	

8.7.8 Specific test suite operation for E-DCH Testing

Table 163: TSO definitions in E-DCH

TSO Name	Description
o_CalculateE_DCH_TBSize	Type of the result: INTEGER
	Parameters:
	p_tti: E_DCH_TTI
	p_TableInd: E_TFCI_TableIndex
	p_TB_Index: INTEGER
	Descriptions
	Description:
	TSO implements tables defined in 25.321 Annex B.1 (tti 2ms Index 0), Annex B.2 (tti 2ms Index 1), Annex B.3 (tti 10ms Index 0), Annex B.4 (tti 10ms Index 1).
	It accepts 3 input parameters:
	p_TTI: the TTI of E-DCH (2ms or 10ms)
	P_TableInd: the table index (0 or 1)
	p_TB_Index: the TB index in the table (0127 for tti 2ms Index 0), (0125 tti 2ms Index 1), (0127 tti 10ms Index 0), (0120 tti 10ms Index 1)
	The TSO then returns the corresponding TB Size from the appropriate Table and with
	given table index.
	The value returned is '0' for any erroneous conditions (e.g. p_TB_Index out of range).
	Example:
	p_tti:2ms, p_TableInd:0, p_TB_Index:13 produces the result 185

8.7.9 Specific test suite operation for E-DCH and MBMS testing

Table 164: TSO definitions in E-DCH and MBMS

TSO Name	Description

8.8 AT commands

Table 165 shows a list of AT commands. By using these commands the ATSs communicate with the SS for an automatic execution. The column "ATS" indicates in which ATS the command is used.

Table 165: AT commands used in 3GPP ATSs

Command	Reference	ATS
+CGACT	3GPP TS 27.007 [23]	BMC, MAC, NAS, RAB, RLC, RRC, PDCP, SMS
+CGATT	3GPP TS 27.007 [23]	BMC, MAC, NAS, RAB, RLC, RRC, PDCP, SMS
+CGCMOD	3GPP TS 27.007 [23]	NAS
+CGDCONT	3GPP TS 27.007 [23]	BMC, MAC, NAS, RAB, RLC, RRC, PDCP, SMS
+CGDSCONT	3GPP TS 27.007 [23]	NAS
+CGEQREQ	3GPP TS 27.007 [23]	BMC, MAC, NAS, RAB, RLC, RRC, PDCP, SMS
+CLCC	3GPP TS 27.007 [23]	NAS
Н	3GPP TS 27.007 [23]	NAS, RAB, RRC, SMS
+CBST	3GPP TS 27.007 [23]	NAS, RAB, RRC, SMS
+CMOD	3GPP TS 27.007 [23]	NAS, RAB, RRC, SMS
Α	3GPP TS 27.007 [23]	NAS, RAB, RRC, SMS
D	3GPP TS 27.007 [23]	BMC, MAC, NAS, RAB, RLC, RRC, PDCP, SMS
+CGMD	3GPP TS 27.005 [22]	SMS
+CGMF	3GPP TS 27.005 [22]	SMS
+CMGW	3GPP TS 27.005 [22]	SMS
+CMSS	3GPP TS 27.005 [22]	NAS, RAB, RRC, SMS
+CPMS	3GPP TS 27.005 [22]	SMS
+CSCA	3GPP TS 27.005 [22]	SMS
+CSCS	3GPP TS 27.005 [22]	SMS
+CSMS	3GPP TS 27.005 [22]	SMS
+CVHU	3GPP TS 27.005 [22]	NAS, RAB, RRC, SMS, IR_U, IR_G
+CHUP	3GPP TS 27.005 [22]	NAS, RAB, RRC, SMS, IR_U, IR_G

8.8.1 AT command lists in ATSs

8.8.1.1 AT commands in IR_U ATS:

Command	Syntax in TTCN	Comments
CBST	AT+CBST=[<speed>[,<name>[,<ce>]]]<cr> <speed>=0,7,12,14,15,16,17,39,43,47,48,49,50,51,71,75,79,80, 81,82,83,84,115,116,120,121 <name>=0,1,4,5 <ce>=0,1</ce></name></speed></cr></ce></name></speed>	Select bearer service type, TS 27.007 clause 6.7
CGACT	AT+CGACT=1,1 <cr> AT+CGACT=0,1<cr></cr></cr>	PDP context activate or deactivate, TS 27.007 clause 10.1.10
CGATT	AT+CGATT=1 <cr></cr>	PS attach or detach, TS 27.007 clause 10.1.9
CGDSCONT	AT+CGDSCONT= 1, <cr> AT+ CGDSCONT=1 , 1, "IP", 0,0,<cr></cr></cr>	Establish secondary PDP Context, TS 27.007 clause 10.1.2
CGEQREQ	AT+CGEQREQ=1,2,64,64,,,0,320,"1E4","1E5",1,,3 <cr> AT+CGEQREQ=1,3,64,64,,,0,320,"1E4","1E5",1,,<cr></cr></cr>	Quality of Service Profile (Requested), TS 27.007 clause 10.1.4
CHUP	AT+CHUP <cr></cr>	Hang up call, TS 27.007 clause 6.5
CMOD	AT+CMOD=0 <cr> AT+CMOD=1<cr></cr></cr>	Call mode, TS 27.007 clause 6.4
CMSS	AT+CMSS=000 <cr> AT+CMSS=001<cr> AT+CMSS=002<cr></cr></cr></cr>	Send Message from Storage, TS 27.005 clause 3.5.2
CVHU	AT+CVHU=0 <cr></cr>	Voice Hang up control, TS 27.007 clause 6.20

8.8.1.2 AT commands in MAC and RLC ATS:

Command	Syntax in TTCN	Comments
CGATT	AT+CGATT=1 <cr></cr>	PS attach or detach, 3GPP TS 27.007 [23], clause 10.1.9

8.8.1.3 AT commands in NAS ATS:

Command	Syntax in TTCN	Comments
CBST	AT+CBST=[<speed>[,<name>[,<ce>]]]<cr></cr></ce></name></speed>	Select bearer service type, TS
	<pre><speed>=0,7,12,14,15,16,17,39,43,47,48,49,50,51,71,75,79,80,81,82,8</speed></pre>	27.007 clause 6.7
	3,84,115,116,120,121	
	<name>=0,1,4,5</name>	
	<ce>=0,1</ce>	
CGACT	AT+CGACT=1,1 <cr></cr>	PDP context activate or
	AT+CGACT=0,1 <cr></cr>	deactivate, 3GPP TS 27.007
COATT	AT COATT 4 OR	[23] clause 10.1.10
CGATT	AT+CGATT=1 <cr></cr>	PS attach or detach, 3GPP TS
CGDATA	AT+CGATT=0 <cr></cr>	27.007 [23] clause 10.1.9
CGDATA	AT+CGDATA=PPP,1 <cr></cr>	Enter data state, 3GPP TS
CGDCONT	AT+CGDCONT=1,"IP","ABCDEF","200.1.1.80",0,0 <cr></cr>	27.007 [23] clause 10.1.12 Define PDP Context, 3GPP TS
CGDCONT	AT+CGDCONT=1, IP, ABCDEF, 200.1.1.80,0,0 <cr> AT+CGDCONT=1,"IP","GHIJK","200.1.1.90",0,0<cr></cr></cr>	27.007 [23] clause 10.1.1
CGDSCONT	AT+CGDCONT=1, IF, GHISK, 200.1.1.90,0,0 <cr> AT+CGDSCONT=1,<cr></cr></cr>	Establish secondary PDP
CGDSCONT	AT+CGDSCONT= 1, < CR> AT+ CGDSCONT=1 , 1, "IP", 0,0, <cr></cr>	Context, 3GPP TS 27.007 [23]
	ATT CODOCONT=1, 1, 1F, 0,0,0,000	clause 10.1.2
CGEQMIN	AT+CGEQMIN=1,3,32,32,,,1,320,"1E3","4E3",1,, <cr></cr>	Quality of Service Profile
CGLQIVIIIV	AT+CGEQMIN=1,3,52,32,,,1,320, 1E3, 4E3,1,, <cr> AT+CGEQMIN=1,3,64,64,,,1,320,"1E3","4E3",1,,<cr></cr></cr>	(Minimum acceptable), 3GPP
	AT+CGEQMIN=1,2,32, 32, 32, 1, 320, 1E4,6E8,1,,, <cr></cr>	TS 27.007 [23] clause 10.1.4
	AT+CGEQMIN=1,3,32, 32, 32, 32, 1, 320, 1E4,6E8,1,,, <cr></cr>	27.007 [20] 010000 10.1.1
	AT+CGEQMIN=1,2,32, 32, 32, 32, 1, 320, 1E3,6E8,1,,, <cr></cr>	
	AT+CGEQMIN=1,3,32, 32, 32, 32, 1, 320, 1E3,6E8,1,,, <cr></cr>	
	AT+CGEQMIN=1,2,64, 64, 64, 64, 1, 320, 1E3,6E8,1,,, <cr></cr>	
	AT+CGEQMIN=1,3,64, 64, 64, 64, 1, 320, 1E3,6E8,1,,, <cr></cr>	
CGEQREQ	AT+CGEQREQ=1,2,64,64,,,0,320,"1E4","1E5",1,,3 <cr></cr>	Quality of Service Profile
	AT+CGEQREQ=1,3,64,64,,,0,320,"1E4","1E5",1,, <cr></cr>	(Requested), 3GPP TS 27.007
	AT+CGEQREQ=1,2,64, 64, 64, 64, 0, 320, 1E4,6E8,1,,, <cr></cr>	[23] clause 10.1.4
	AT+CGEQREQ=1,3,64, 64, 64, 64, 0, 320, 1E4,6E8,1,,, <cr></cr>	
CHUP	AT+CHUP <cr></cr>	Hang up call, 3GPP TS 27.007
		[23] clause 6.5
CLCC	AT+CLCC <cr></cr>	List current calls, 3GPP TS
		27.007 [23] clause 7.18
CMOD	AT+CMOD=0 <cr></cr>	Call mode, 3GPP TS 27.007
01100	AT+CMOD=1 <cr></cr>	[23] clause 6.4
CMSS	AT+CMSS=000 <cr></cr>	Send Message from Storage,
	AT+CMSS=001 <cr></cr>	3GPP TS 27.005 [22] clause
\/TO	AT+CMSS=002 <cr></cr>	3.5.2
VTS	AT+VTS=0,100 <cr></cr>	DTMF and tone generation,
	AT+VTS=1,50 <cr> AT+VTS=2,60<cr></cr></cr>	3GPP TS 27.007 [23] clause C.2.11
	l. — . —	0.2.11
	AT+VTS=3,40 <cr> AT+VTS=4,50<cr></cr></cr>	
	AT+VTS=4,30 <cr> AT+VTS=5,60<cr></cr></cr>	
	AT+VTS=6,70 <cr></cr>	
	AT+VTS=7,80 <cr></cr>	
	AT+VTS=8,90 <cr></cr>	
	AT+VTS=9,100 <cr></cr>	
	AT+VTS=#,110 <cr></cr>	
	AT+VTS=*,120 <cr></cr>	
	AT+VTS=A,130 <cr></cr>	
	AT+VTS=B,140 <cr></cr>	
	AT+VTS=C,150 <cr></cr>	
	AT+VTS=D,200 <cr></cr>	
CVHU	AT+CVHU=0 <cr></cr>	Voice Hang up control, 3GPP
		TS 27.007 [23] clause 6.20

8.8.1.4 AT commands in RAB ATS:

Command	Syntax in TTCN	Comments
CBST	AT+CBST=[<speed>[,<name>[,<ce>]]]<cr> <speed>=0,7,12,14,15,16,17,39,43,47,48,49,50,51,71,75,79,80,81,8 2,83,84,115,116,120,121 <name>=0,1,4,5 <ce>=0,1</ce></name></speed></cr></ce></name></speed>	Select bearer service type, 3GPP TS 27.007 [23] clause 6.7
CGACT	AT+CGACT=1,1 <cr> AT+CGACT=0,1<cr></cr></cr>	PDP context activate or deactivate, 3GPP TS 27.007 [23] clause 10.1.10
CGATT	AT+CGATT=1 <cr></cr>	PS attach or detach, 3GPP TS 27.007 [23] clause 10.1.9
CGDCONT	AT+CGDCONT=1,"IP","ABCDEF","200.1.1.80",0,0 <cr> AT+CGDCONT=1,"IP","GHIJK","200.1.1.90",0,0<cr></cr></cr>	Define PDP Context, 3GPP TS 27.007 [23] clause 10.1.1
CGDSCONT	AT+CGDSCONT= 1, <cr> AT+ CGDSCONT=1 , 1, "IP", 0,0,<cr></cr></cr>	Establish secondary PDP Context, 3GPP TS 27.007 [23] clause 10.1.2
CGEQREQ	AT+CGEQREQ=1,2,64,64,,,0,320,"1E4","1E5",1,,3 <cr> AT+CGEQREQ=1,3,64,64,,,0,320,"1E4","1E5",1,,<cr></cr></cr>	Quality of Service Profile (Requested), 3GPP TS 27.007 [23] clause 10.1.4
CHUP	AT+CHUP <cr></cr>	Hang up call, 3GPP TS 27.007 [23] clause 6.5
CMOD	AT+CMOD=0 <cr> AT+CMOD=1<cr></cr></cr>	Call mode, 3GPP TS 27.007 [23] clause 6.4
CMSS	AT+CMSS=000 <cr> AT+CMSS=001<cr> AT+CMSS=002<cr></cr></cr></cr>	Send Message from Storage, 3GPP TS 27.005 [22] clause 3.5.2
CVHU	AT+CVHU=0 <cr></cr>	Voice Hang up control, 3GPP TS 27.007 [23] clause 6.20

8.8.1.5 AT commands in RRC ATS:

Command	Syntax in TTCN	Comments
ATA	ATA <cr></cr>	Answer a call, TS 27.007 clause 6.35
ATD	ATD0123456902; <cr> ATD112;<cr> ATD0123456902<cr></cr></cr></cr>	Originates a call, TS 27.007 clause 6.31
ATH	ATH <cr></cr>	Hang-up a single mode call, TS 27.007 clause 6.36
CBST	AT+CBST=[<speed>[,<name>[,<ce>]]]<cr> <speed>=0,7,12,14,15,16,17,39,43,47,48,49,50,51,71,75,79,80,81,8 2,83,84,115,116,120,121 <name>=0,1,4,5 <ce>=0,1</ce></name></speed></cr></ce></name></speed>	Select bearer service type, TS 27.007 clause 6.7
CGACT	AT+CGACT=1,1 <cr> AT+CGACT=0,1<cr></cr></cr>	PDP context activate or deactivate, TS 27.007 clause 10.1.10
CGATT	AT+CGATT=1 <cr></cr>	PS attach or detach, TS 27.007 clause 10.1.9
CGDCONT	AT+CGDCONT=1,"IP","ABCDEF","200.1.1.80",0,0 <cr> AT+CGDCONT=1,"IP","GHIJK","200.1.1.90",0,0<cr></cr></cr>	Define PDP Context, TS 27.007 clause 10.1.1
CGDSCONT	AT+CGDSCONT= 1, <cr> AT+ CGDSCONT=1 , 1, "IP", 0,0,<cr></cr></cr>	Establish secondary PDP Context, TS 27.007 clause 10.1.2
CGEQREQ	AT+CGEQREQ=1,2,64,64,,,0,320,"1E4","1E5",1,,3 <cr> AT+CGEQREQ=1,3,64,64,,,0,320,"1E4","1E5",1,,<cr></cr></cr>	Quality of Service Profile (Requested), TS 27.007 clause 10.1.4
CHUP	AT+CHUP <cr></cr>	Hang up call, TS 27.007 clause 6.5
CMOD	AT+CMOD=0 <cr> AT+CMOD=1<cr></cr></cr>	Call mode, TS 27.007 clause 6.4
CMSS	AT+CMSS=000 <cr> AT+CMSS=001<cr> AT+CMSS=002<cr></cr></cr></cr>	Send Message from Storage, TS 27.005 clause 3.5.2
CVHU	AT+CVHU=0 <cr></cr>	Voice Hang up control, TS 27.007 clause 6.20

8.8.1.6 AT commands SMS ATS:

Command	Syntax in TTCN	Comments
CBST	AT+CBST=[<speed>[,<name>[,<ce>]]]<cr><speed>=0,7,12,14,15,16,17,39,43,47,48,49,50,51,71,75,79,80,81,82,83,84,115,116,120,121</speed></cr></ce></name></speed>	Select bearer service type, TS 27.007 clause 6.7
	<pre><name>=0,1,4,5 <ce>=0,1</ce></name></pre>	
CGACT	AT+CGACT=1,1 <cr> AT+CGACT=0,1<cr></cr></cr>	PDP context activate or deactivate, TS 27.007 clause 10.1.10
CGATT	AT+CGATT=1 <cr></cr>	PS attach or detach, TS 27.007 clause 10.1.9
CGDCONT	AT+CGDCONT=1,"IP","ABCDEF","200.1.1.80",0,0 <cr> AT+CGDCONT=1,"IP","GHIJK","200.1.1.90",0,0<cr></cr></cr>	Define PDP Context, TS 27.007 clause 10.1.1
CGDSCONT	AT+CGDSCONT= 1, <cr> AT+ CGDSCONT=1 , 1, "IP", 0,0,<cr></cr></cr>	Establish secondary PDP Context, TS 27.007 clause 10.1.2
CGEQREQ	AT+CGEQREQ=1,2,64,64,,,0,320,"1E4","1E5",1,,3 <cr> AT+CGEQREQ=1,3,64,64,,,0,320,"1E4","1E5",1,,<cr></cr></cr>	Quality of Service Profile (Requested), TS 27.007 clause 10.1.4
CGSMS	AT+CGSMS=1 <cr> AT+CGSMS=0<cr></cr></cr>	Select service for MO SMS messages, TS 27.007 clause 10.1.20
CHUP	AT+CHUP <cr></cr>	Hang up call, TS 27.007 clause 6.5
CMGD	AT+CMGD=001 <cr> AT+CMGD=1,4<cr></cr></cr>	Delete Message, TS 27.005 clause 3.5.4
CMGF	AT+CMGF=1 <cr></cr>	Message Format, TS 27.005 clause 3.2.3
CMGR	AT+CMGR=001 <cr> AT+CMGR=002<cr> AT+CMGR=003<cr> AT+CMGR=004<cr></cr></cr></cr></cr>	Read Message, TS 27.005 clause 3.4.3
CMGW	AT+CMGW= "11111111111",129, "The quick brown fox jumps over the lazy dog's back. Kaufen Sie Ihrer Frau vier bequeme Pelze 0123456789 - THE QUICK BROWN FOX JUMPS OVER THE LAZY DOG'S BACK." <cr></cr>	Write Message to Memory, TS 27.005 clause 3.5.3
CMMS	AT+CMMS=1 <cr></cr>	More Messages to Send, TS 27.005 clause 3.5.6
CMOD	AT+CMOD=0 <cr> AT+CMOD=1<cr></cr></cr>	Call mode, TS 27.007 clause 6.4
CMSS	AT+CMSS=000 <cr> AT+CMSS=001<cr> AT+CMSS=002<cr></cr></cr></cr>	Send Message from Storage, TS 27.005 clause 3.5.2
CPMS	AT+CPMS="SM,"SM","MT" <cr> AT+CPMS="CB","CB","CB"<cr></cr></cr>	Preferred Message Storage, TS 27.005 clause 3.2.2
CSCA	AT+CSCA="222222222",129 <cr></cr>	Service Centre Address, TS 27.005 clause 3.3.1
CSCS	AT+CSCS="GSM" <cr></cr>	Select TE character set, TS 27.007 clause 5.5
CSMS	AT+CSMS=0 <cr></cr>	Select Message Service, TS 27.005 clause 3.2.1
CVHU	AT+CVHU=0 <cr></cr>	Voice Hang up control, TS 27.007 clause 6.20

8.8.1.7 AT commands in HSDPA ATS (Rel-5 or later):

Command	Syntax in TTCN	Comments
CGEQREQ	AT+CGEQREQ=[<cid> ,<traffic class=""> ,<maximum bitrate="" ul=""> ,<maximum bitrate="" dl=""> ,<guaranteed bitrate="" ul=""> ,<guaranteed bitrate="" dl=""> ,<delivery order=""> ,<maximum sdu="" size=""> ,<sdu error="" ratio=""> ,<residual bit="" error="" ratio=""> ,<delivery erroneous="" of="" sdus=""> ,<traffic delay=""> ,<traffic handling="" priority=""> </traffic></traffic></delivery></residual></sdu></maximum></delivery></guaranteed></guaranteed></maximum></maximum></traffic></cid>	Quality of Service Profile (Requested), TS 27.007 clause 10.1.4

8.8.1.8 AT commands for E-DCH testing (Rel-6 or later)

Command	Syntax in TTCN	Comments
COMMAND CGEQREQ	AT+CGEQREQ=[<cid> [,<traffic class=""> [,<maximum bitrate="" ul=""> [,<maximum bitrate="" dl=""> [,<guaranteed bitrate="" ul=""> [,<guaranteed bitrate="" dl=""> [,<poleivery order=""> [,<maximum sdu="" size=""> [,<sdu error="" ratio=""> [,<residual bit="" error="" ratio=""> [,<delivery erroneous="" of="" sdus=""> [,<transfer delay=""> [,<traffic handling="" priority="">]]]]]]]]]]]]]]]]]]]]]]]]]]]]] <cr> <cid>=1 <traffic class=""> =2, 3 <maximum bitrate="" ul=""> =704, 1472, 2944, 2048, 5888 <maximum bitrate="" dl=""> =896, 1216, 1792, 3648, 7360, 10200, 14300 <guaranteed bitrate="" ul=""> Not used <guaranteed bitrate="" dl=""> Not used <delivery order=""> =0 <maximum sdu="" size=""> =320, 640 <sdu error="" ratio=""> = '1E4' <residual bit="" error="" ratio=""> ='1E5'</residual></sdu></maximum></delivery></guaranteed></guaranteed></maximum></maximum></traffic></cid></cr></traffic></transfer></delivery></residual></sdu></maximum></poleivery></guaranteed></guaranteed></maximum></maximum></traffic></cid>	Comments Quality of Service Profile (Requested), TS 27.007 clause 10.1.4
	<pre><delivery erroneous="" of="" sdus=""> =1 <transfer delay=""> Not used</transfer></delivery></pre>	
1	<pre><traffic handling="" priority=""> =3</traffic></pre>	

8.8.2 AT Command Handling in TTCN

8.8.2.1 AT Command Interface

The AT Command Interface resides between the UE and the System Simulator (SS). The implementation of AT commands in the UE is optional[3]. It is agreed, however, that it is the responsibility of the SS - not the ATS - to map AT commands onto appropriate MMI commands. This means that the ATSs issue AT commands which have to be mapped appropriately and forwarded to the UE, and vice versa.

The ATSs have been implemented in such a way that AT commands are to be answered immediately. This means that the TTCN expects the answers right away and progresses only afterwards. As a consequence only positive AT responses are assumed.

There is only one exception from the rule of immediate answering: the CGACT command. For this command the TTCN does not expect an immediate AT response. Once the CGACT command has been issued a subsequent UE behaviour is expected. The AT response is issued by the UE only after execution of the AT command, and it will only then be accounted for by the ATSs.

8.8.2.2 AT Command Dialogues

In some cases AT commands trigger a dialogue between the AT command interface and the UE. An example used in the SMS ATS is the CMGW command.

```
EXAMPLE: AT+CMGW="9501231234" (write message)

> This is the message body^Z

+CMGW: 7 (index number in storage returned)
```

A special character (^Z) marks the end of the dialogue.

The ATSs generate information to be sent to the UE as one block. If the command mapping function cannot proceed with the dialogue that way, it has to divide the received block into the appropriate pieces prior to forwarding them.

8.8.2.3 AT Response Types

The term 'response type' shall allow a distinction between different types of contents to answer upon an AT command issued by the TTCN.

8.8.2.3.1 'OK' Response

Most AT commands are to be answered with 'OK'. All exceptions are according to 3GPP 27.007 [23], for example +CGDATA is to be answered with 'CONNECT'.

8.8.2.3.2 Name String

There are a number of AT commands which, in the positive case, trigger an answer string from UEs. Such strings start with the command which is being answered.

```
EXAMPLE: AT+CPMS? (check memory settings)
+CPMS: "ME",4,10,"ME",4,10,"ME",4,10
OK
```

The implementation of this type of AT commands is such that the TTCN expects and checks the beginning of the response string. This would (later) facilitate possible direct connections between SS and UE.

8.8.2.3.3 Error strings

There are situations when the UE cannot react positively upon an AT command. Different types of reactions are foreseen. The strings 'ERROR' or 'CMS ERROR: <err>' may be issued by UEs.

"...subparameter values of a command are not accepted by the TA (or command itself is invalid, or command cannot be performed for some reason), result code <CR><LF>ERROR<CR><LF> is sent to the TE and no subsequent commands in the command line are processed."

"Final result code +CMS ERROR: <err> indicates an error related to mobile equipment or network. The operation is similar to ERROR result code. None of the following commands in the same command line is executed. Neither ERROR nor OK result code shall be returned. ERROR is returned normally when error is related to syntax or invalid parameters."

The chosen way of realization prevents, in general, that error strings generated by the UE are passed to the SS. This holds for both <u>intended</u> and <u>unintended</u> errors (from the tester perspective).

8.8.2.4 AT Command Parameters And Options

Many AT commands take parameters some of which are optional. Thus, there is a degree of freedom left to the UEs. This freedom is widely used in the AT commands used in the SMS ATS. To allow flexible parameterization PIXIT items can be used to set the parameters as understood by the UEs.

An example of such parameters are the preferred memories to be used when testing.

8.9 Bit padding

Three different kinds of bit padding at the RRC layer are defined in 3GPP TS 25.331 [21].

If a bit string is defined in ASN.1 and is an output from a (PER) encoder, it may need the segmentation and padding. One example is that each SIB message is PER-encoded and becomes a (PER) bit-string. A long bit-string is segmented in fixed length, for example with 222 bits. The (1 ... 7) padding bits shall be added at the last segment if it's length is between 215 and 211.

No bit padding shall be generated by the PER encoder. Contrary to ITU-T Recommendation X.691 [28], the unaligned PER encoder shall not generate any padding bit to achieve octet alignment at the end of a PER bit string.

RRC padding. The RRC padding bits shall be generated after PER encoder. If the PER bit strings are exchanged via AM or UM SAP, the (1 ... 7) padding bits shall be added to ensure the octet alignment. If the PER bit strings are exchanged via TR SAP, before the exchanges, RRC shall select the smallest transport format that fits the RRC PDU and shall add the lowest number of padding bits required to fit the size specified for the selected transport format. The RRC padding bits shall be taken into account at the calculation of the integrity checksum.

8.9.1 Requirements for implementation

The different kinds of bit padding occur at the different places in the testing architecture. Care must be taken, in order to ensure the correct implementation.

The bit padding for the embedded bit string in ASN.1shall be resolved in TTCN. It is under the responsibility of the TTCN writer. Several TSO defined can resolve the necessary bit padding in the downlink direction.

The unaligned PER encoder used for TTCN shall not implement the octet alignment at the end of a PER bit string in the downlink direction.

The RRC padding should be implemented at the SS in the downlink direction both for AM/UM and TR modes according to 3GPP TS 25.331 [21], clause 12.1.3.

The SS PER decoder compliant with R99, Release 4 and Release 5 has no need to distinguish the extension and padding parts in the UL direction, and shall match and accept RRC PDUs with any bit string in the extension and padding parts. The remaining part of the received bit string shall be discarded regardless of the RLC mode.

8.10 Test PDP contexts

Table 166 defines test PDP contexts used in the generic procedures for the PS establishment and other SM tests. The test PDP contextDch1 is the default Test PDP context used in the test cases where no particular Test PDP contexts are specified and UE is in DCH state. The test PDP contextFach is the default Test PDP context used in the test cases where no particular Test PDP contexts are specified and UE is in FACH state.

Table 166: Test PDP contexts

	PDP	PDP
	ContextDch	ContextFach
NSAPI	Selected by UE in Activate PDP	Selected by UE in Activate PDP
	Context Request	Context Request
LLC SAPI	0	0
QoS	QoSDch-UL64kAM-DL64kAM	QoSFach- UL32kAM-DL32kAM
PDP address	PIXIT	PIXIT
Radio Priority	1	1
Access Point Name	tsc_AccessPtNameDCH "ABCDEF"	tsc_AccessPtNameFACH "GHIJK"
Protocol configuration options	-	-
Packet Flow Identifier	Best Effort	Best Effort

Table 167: Test QoS

	QoSDch-UL64kAM-DL64kAM	QoSFach- UL32kAM-DL32kAM
Reliability class	'011'B	'011'B
	Unacknowledged GTP, LLC, and	Unacknowledged GTP, LLC, and
	acknowledged RLC; Protected data	acknowledged RLC; Protected data
Delay class	'011'B / '100'B	'011'B / '100'B
	3 / 4 (Best effort)	3 / 4 (Best effort)
Precedence class	UL:'000'B, Subscribed	UL:'000'B, Subscribed
	DL:'011'B	DL:'011'B
	Class 3	Class 3
Peak throughput	'0100'B	'0011'
	8 000 Octets/s	Up to 4 000 octet/s
Mean throughput	'11111'B	'11111'B
	Best Effort	Best Effort
Delivery of erroneous SDU	'010' B	'010' B
_	Erroneous SDUs are delivered ('yes')	Erroneous SDUs are delivered ('yes')
Delivery order	'10'B	'10'B
	With delivery order ('yes')	With delivery order ('yes')
Traffic class	'011' B / '100'B	'011' B / '100'B
	Interactive / Background	Interactive / Background
Maximum SDU size	'20' O	'20'O
	320 bits]	320 bits
Maximum bit rate for uplink	'40' O	'20'O
_	64 kbps	32 kbps
Maximum bit rate for	'40' O	'20'O
downlink	64 kbps	32 kbps
Residual BER	'0111'	'0111'
	1X10E-5	1X10E-5
SDU error ratio	'0100'B	'0100'B
	1X10E-4	1X10E-4
Traffic Handling priority	UL: '00'B for Interactive,	UL: '00'B for Interactive,
	Any for Background	Any for Background
	DL: '11' B (for Interactive, for	DL: '11' B (for Interactive, for
	Background to be neglected by UE)	Background to be neglected by UE)
Transfer delay	UL: Any	UL: Any
	DL: '111111' B	DL: '111111' B
	spare (not applicable for Interactive /	spare (not applicable for Interactive /
	Background)	Background)
Guaranteed bit rate for	UL: Any	UL: Any
uplink	DL: '10' O	DL: '10'O
	16 kbps	32 kbps
Guaranteed bit rate for	UL: Any	UL: Any
downlink	DL: '10' O	DL: '10'O
	16 kbps	16 kbps
NOTE: Residual BER 1X10E	-5 corresponds to CRC 16.	

8.10.1 Mapping of Quality of service and AT command for HSDPA testing

Table 168 defines the encoding of the Maximum bit rate for downlink IE in QoS and the corresponding encoding in the AT command.

Table 168: Test QoS in HSDPA test cases (Rel-5 or later)

UE HS- DSCH Category	Min inter-TTI interval (TTI=2ms)	Max number of bits of an HS-DSCH TB received within an HS-DSCH TTI (NOTE 1)	Max number of MAC- d PDUs in a single MAC-hs PDU with RLC payload size 640 bits (NOTE 2)	Max bit rate (kbps)	Max bit rate for DL QoS (Octetstring)	AT command for Max bit rate of DL QoS (IA5string)
1, 2	3	7298	11	1173	89	1152
3, 4	2	7298	11	1760	92	1728
5, 6	1	7298	11	3520	AE	3520
7, 8	1	14411	21	6720	E0	6720
9	1	20251	30	9600	FE (octet 9) 0A (octet 15)	9600
10	1	27952	42	13440	FE (octet 9) 30 (octet 15)	13400
11	2	3630	5	800	83	768
12	1	3630	5	1600	90	1600
13	1	34800	53	16960	FE (octet 9) 4A (octet 15)	16000
14	1	42196	64	20480	FE (octet 9) 4E (octet 15)	20000
15	1	23370	35	11200	FE (octet 9) 1A (octet 15)	11200
16	1	27952	42	13440	FE (octet 9) 30 (octet 15)	13400

NOTE 1: Refer to 3GPP TS 25.306 [16a]

NOTE 2: The maximum number of single-sized MAC-d PDUs in a single MAC-hs PDU is calculated with the formula:

- Max number MAC-d PDU = DIV ((MAX TB size MAC-hs header fixed part), MAC-d PDU size)
- where MAC-d PDU size = 640 + 16 = 656
- MAC-hs header fixed part = Length of MAC-hs fixed header (VF + Queue Id + TSN) + Length of MAC-hs flexible header (SID + N + F) = 21 bits

Example of calculation for category 1:

Max number MAC-d PDU = DIV((7298-21), 656) = 11

8.10.2 Mapping of Quality of service and AT command for E-DCH testing

Table 169 defines the encoding of the Maximum bit rate for uplink IE in QoS and the corresponding encoding in the AT command.

Table 169: Test QoS in E-DCH test cases (Rel-6 or later)

of bits of TTI Max number of MAC-d Max bit Max bit rate for

UE E-DCH Category	Max number of bits of an E-DCH TB transmitted within an E-DCH TTI (NOTE 1)	ТП	Max number of MAC-d PDUs in a single MAC- e/es PDU with RLC paylaod size 320 bits (NOTE 2)	Max bit rate (kbps)	Max bit rate for UL QoS (Octetstring)	AT command for Max bit rate of UL QoS (IA5string)
1	7110	10ms	21	672	81	640
2	2798	2ms	8	1280	8B	1280
3	14484	10ms	43	1376	8C	1344
4	5772	2ms	17	2720	A1	2688
5	20000	10ms	59	1888	94	1856
6	11484	2ms	34	5440	CC	5440
7	22996	2ms	68	10880	FE (octet 8) 16 (octet 17)	10800

NOTE 1: Refer to 3GPP TS 25.306 [16a]

NOTE 2: The maximum number of MAC-d PDUs in a single MAC-e PDU containing a single MAC-es PDU is calculated with the formula:

- Max number MAC-d PDU = DIV ((MAX TB size - Length of MAC-e/es fixed header (DDI+N+TSN)), MAC-d PDU size)

Example of calculation for category 1: Max number MAC-d PDU = DIV((7110 - 18), (320+16)) = 21

8.11 DCH-DSCH Configurations

1. Configure PDSCH physical channel

```
CPHY_RL_Setup_REQ(
    physicalChannelIdentity,
    pDSCHInfo)
```

-- set up the scrambling code and transmission power level for the PDSCH identified by PhysicalChannelIdentity, and establishes the mapping between the spreading factor(and channelization codes) used for the PDSCH and TFCI(field2) transmitted in associated PDCH

2. Configure DSCH transport channels

```
CPHY_TrCH_Config_REQ(
    physicalChannelIdentity,
    dlconnectedTrCHList,
    dlTFCS)
```

-- set up TFS for each of DSCH's carried by the PDSCH defined in step 1 and TFCS (will be presented in TFCI(field2) of PDCH configured in step 5) for the CCTrCH consisting of these DSCH's

3. Configure MAC entity for DSCH

```
CMAC_Config_REQ(
    physicalChannelIdentity,
    uE_Info,
    dlconnectedTrCHList,
    dlTFCS)
```

-- set up TFS, DSCH-RNTI and TFCS (which will be presented in TFCI(field2) of PDCH configured in step 5) for DSCH's, and map logical channel to DSCH transport channel

4. Configure RLC entity for DTCHs

```
CRLC_Config_REQ(
    physicalChannelIdentity,
    rBInfo)
```

-- set up RLC entity on top of DTCH logical channel which is mapped onto DSCH

5. Configure DPCH physical channel

```
CPHY_RL_Setup_REQ(
    physicalChannelIdentity,
    dPCHInfo)
```

6. Configure DCH transport channels

7. Configure MAC entity for DCH

8. Configure RLC for DTCH, DCCH

8.11a DCH with HS-DSCH Configurations (Rel-5 or later)

1. Configure DPCH physical channel

2. Configure DCH transport channels

```
CPHY_TrCH_Config_REQ(
    physicalChannelIdentity,
    dlconnectedTrCHList,
    dlTFCS)
-- set up TFS for each DCH carried by the DPCH defined in step 5 and TFCS for the CCTrCH consisting of all DCH's mapped on the DPCH.
```

3. Configure MAC entity for DCH

4. Configure RLC for DCCH

```
CRLC_Config_REQ(
    rB_Identity,
    rBInfo)
-- set up RLC entity on top of DCCH logical channels which are mapped onto DCH
```

5. Configure HS-PDSCH physical channel

sttd Indicator

CPHY_TrCH_Config_REQ(

BOOLEAN

6. Configure HS-DSCH transport channels

for each MAChsQueue the configurable parameters are: machsQueueId; priority;
 mac_hsPduSizeInfoList; reorderingReleaseTimer, discardTimer and the MAC-dFlow identity to which this MAChsQueue belongs.

7. Configure MAC_hs entity for HS-DSCH

```
CMAC_MAChs_TFRCconfigre_REQ(
        explicit TRFC config mode with:
            modulationScheme,
            channelisationCodeOffset,
            noOfChannelisationCodes.
            tbSizeIndexOnHS SCCH,
            minimumInterTTIinterval,
            redundancyVersion,
            hs PDSCH TxPower)
    CMAC_Config_REQ(
        physicalChannelIdentity,
        uE Info,
        hsDSCHMacdFlows)
-- the hsDSCHMacdFlows shall be same as that used in CPHY_TrCH_Config_REQ.
-- set up MAC d flows identified by Mac dFlowId in the hsDSCHMacdFlows.
  for each MAC d flow the number of process queues of the MAC-d flow and their queue identities
    are configurable;
    for each MAChsQueue the configurable parameters are: machsQueueId; priority;
     mac hsPduSizeInfoList; reorderingReleaseTimer, discardTimer and the MAC-dFlow identity to which
     this MAChsQueue belongs.
-- set up the mapping between each MAC_d flow and the logical channels which mapped on the flow.
-- MAC_hs entity is created per cell. In case of Intra Node B Handover this entity at the UE will
not be reset whereas in the TTCN it will be released in the first cell and setup in the second cell.
As no data is sent on HS-DSCH, this implementation will not affect the signalling, as signalling is
transmitted through the associated DPCH channel.
```

8. Configure RLC entity for DTCHs which is mapped on HS-DSCH

```
CRLC_Config_REQ(
    rB_Identity,
    rBInfo)
-- set up RLC entity on top of DTCH logical channel which is mapped onto MAC_d flow
```

9. MAC-hs reset, release of SS resources for HSDPA

```
MAC-hs reset:
       CMAC_MAChs_Reset_REQ(
            cellId)
   RL release:
        CPHY_RL_Release_REQ(
            cellId, phyChId)
-- phyChid is the identity of HS-PDSCH physical channel or the associated DPCH channel
-- the HS-SSCH physical channel shall be also released when HS-PDSCH is released
-- the HS-DPCCH physical channel shall be released when the associated DPCH is released
   TrCH release:
        CPHY TrCH Release REQ(
           cellId, phyChId)
-- phyChid is the identity of HS-PDSCH physical channel
   MAChs release:
        CMAC_Config_REQ(
           cellId, phyChId)
-- phyChid is the identity of HS-PDSCH physical channel
   RLC release:
       CRLC_Config_REQ(
            cellId, rbId)
```

-- rbid is the identity of the radio bearer providing HSDPA service

8.11b HS-DSCH Configuration Verification

In most HSDPA test cases although the HSDPA channels (HS-SCCH, HS-PDSCH, HS-DSCH & HS-DPCCH) are set up and reconfigured using RRC peer messages, no data is sent on HS-DSCH and all the signalling is transmitted through the associated DPCH physical channel.

In order to ensure that the HS-DPCCH channel has been configured, the SS shall, upon request, forward one CQI report to the TTCN.

8.12 Pre- and postambles for GERAN to UTRAN tests

8.12.1 Preamble for GERAN to UTRAN tests

Before running inter-RAT test cases, radio conditions should be such that the mobile has to select the cell of the intended original RAT. The following steps should be used before running GERAN to UTRAN test cases.

- 1. UTRAN cell is powered OFF. The default radio conditions for a suitable GERAN cell are used for the serving cell, as defined in 3GPP TS 34.108 [3], clause 6.1.7. This step is performed while the UE is still switched OFF.
- 2. UE is switched ON and performs registration and attach.
- 3. The UTRAN cell is powered ON with an RF level such that the cell is a suitable neighbour cell, using the RF conditions defined in 3GPP TS 34.108 [3], clause 6.1.5, so that the UE will not re-select the UTRAN cell.

8.12.2 Postamble for GERAN to UTRAN tests

The following procedure is used after inter-RAT handover or cell change order test cases in case the test needs to be performed multiple times in a loop.

8.12.2.1 GERAN to UTRAN handover in CS

The test cases are defined in 3GPP TS 51.010-1 [26], clause 60.

Expected sequence

Step	Direction	Magaaga	Comments
Step	UE SS	- Message	Comments
1	<	SECURITY MODE COMMAND	Integrity protection is activated.
			UTRAN security keys in CS
			domain derived from GERAN
2	>	SECURITY MODE COMPLETE	
3	<	UTRAN MOBILITY INFORMATION	RRC
4	>	UTRAN MOBILITY INFORMATION CONFIRM	RRC
5	>	ROUTING AREA UPDATE REQUEST	GMM - Update type = 'RA updating'. Not performed by CS
			only mobile.
5a	<	SECURITY MODE COMMAND	Integrity protection is activated.
			UTRAN security keys in PS
			domain derived from GERAN
5b	>	SECURITY MODE COMPLETE	
6	<	ROUTING AREA UPDATE ACCEPT	GMM - P-TMSI is included
7	>	ROUTING AREA UPDATE COMPLETE	
8			The call is terminated. SS
			releases the RRC connection.
9	>	RRC CONNECTION REQUEST	RRC - establishment cause =
			'registration'
10	<	RRC CONNECTION SETUP	RRC
11	>	RRC CONNECTION SETUP COMPLETE	RRC
12	>	ROUTING AREA UPDATE REQUEST	CS/PS mobiles: GMM - Update
			type" = 'combined RA/LA
			updating' or 'combined RA/LA
			updating with ISMI Attach'
			Note: CS only mobiles will
			perform a normal LAU
13	<	SECURITY MODE COMMAND	Integrity protection is activated.
14	>	SECURITY MODE COMPLETE	
15	<	ROUTING AREA UPDATE ACCEPT	P-TMSI is included
16	>	ROUTING AREA UPDATE COMPLETE	
17			The SS releases the RRC
			connection.
18			UE is powered OFF

Specific message contents

UTRAN MOBILITY INFORMATION message:

Use the same message sub-type found in TS 34.108, clause 9, with the following exceptions:

Information Element	Value/remark
CN information info	
- PLMN identity	Not present
- CN domain related information	
- CN domain identity	PS
- CN domain specific NAS system information	
- GSM-MAP NAS system information	00 00H
- CN domain specific DRX cycle length coefficient	7

SECURITY MODE COMMAND message:

Use the same message sub-type found in TS 34.108, clause 9, with the following exceptions:

Information Element	Value/remark
Ciphering mode info	Not present

All remaining Specific message contents shall be referred to 34.108 clause 9 "Default Message Contents of Layer3 Messages for Layer 3 Testing".

8.12.2.2 GERAN to UTRAN cell change in PS (in PMM-CONNECTED)

These test cases are defined in 3GPP TS 51.010-1 [26], clause 42.4.7.

Expected sequence

Step	Direc	ction	Message	Comments
Step	UE	SS	wessage	Comments
1	1>		ROUTING AREA UPDATE REQUEST	GMM - Update type = 'Combined RA / LA updating' or 'combined RA/LA updating with ISMI Attach 'for CS/PS mobiles, and 'RA updating' for PS only mobiles. Follow-on request is made.
2	<		SECURITY MODE COMMAND	Integrity protection is activated, UTRAN security keys in PS domain derived from GERAN
3		·>	SECURITY MODE COMPLETE	
4	<	:	ROUTING AREA UPDATE ACCEPT	GMM - P-TMSI is included
5	> ROU		ROUTING AREA UPDATE COMPLETE	
				SS releases the RRC connection UE is powered OFF.

8.12.2.3 GERAN to UTRAN DTM test cases

These test cases are defined in 3GPP TS 51.010-1 [26], clauses 41.5.1.1.1.4 and 47.3.4.

Expected sequence

Step	Direction UE SS	- Message	Comments
			The SS releases the RR
			connection
1	>	RRC CONNECTION REQUEST	RRC - establishment cause =
			'registration'
2	<	RRC CONNECTION SETUP	RRC
3	>	RRC CONNECTION SETUP COMPLETE	RRC
A4	>	ROUTING AREA UPDATE REQUEST	UE behaviour type A, if the UE
			is still attached:
			GMM - Update type =
			'Combined RA / LA updating' or
			combined RA/LA updating with
			ISMI Attach
A5	<	SECURITY MODE COMMAND	Integrity protection is activated,
			UTRAN security keys in PS
			domain derived from GERAN
A6	>	SECURITY MODE COMPLETE	
A7	<	ROUTING AREA UPDATE ACCEPT	GMM - P-TMSI is included
A8	>	ROUTING AREA UPDATE COMPLETE	
B4	>	LOCATION UPDATING REQUEST	UE behaviour type B, if the UE
			has already detached
B5		AUTHENTICATION REQUEST	
B6		AUTHENTICATION RESPONSE	
B7	<	SECURITY MODE COMMAND	Integrity protection is activated,
			UTRAN security keys in CS
			domain derived from GERAN
B8	>	SECURITY MODE COMPLETE	
B8a	<	LOCATION UPDATING ACCEPT	
B8b	>	TMSI REALLOCATION COMPLETE	
9			SS releases the RRC
			connection
10			UE is powered OFF.

8.13 E-DCH configurations (Rel-6 or later)

8.13.1 DPCH (SRB) and E-DCH (RAB) configuration

8.13.1.1 Serving E-DCH cell

1. Configure DPCH physical channel

```
CPHY_RL_Setup_REQ
(
    cellId_1
    physicalChannelIdentity,
    dPCHInfo_r5OrLater
        r6 (
        ul_DPCH_Info6
    )
)
-- set up the UL-DPCH channel. When UL-DPCD
```

-- set up the UL-DPCH channel. When UL-DPCH is established, E-DPCH shall use the same scrambling code.

2. Configure DCH transport channels

3. Configure MAC entity for DCH

4. Configure RLC for DCCH

```
CRLC Config REQ(
        rB Identity,
        rBInfo)
-- set up RLC entity on top of DCCH logical channels which are mapped onto DCH
5. Configure E-DCH DL physical channel CPHY_RL_Setup_REQ
        physicalChannelIdentity,
        e_AGCHInfo
            e AGCHInfo
            tti
            e AGCH PowerOffset
   )
-- set up the E-AGCH identified by PhysicalChannelIdentity
-- E-AGCH channel is configured only in the serving E-DCH cell
-- for E-AGCH the configurable parameters are
                              E_AGCH_Information
        e_AGCHInfo
                                INTEGER (0..255)
        e_AGCH_PowerOffset
        e_RNTI_Primary
                                E_RNTI
                               E_RNTI
        e RNTI Secondary
-- The tti value shall be the same as the associated E-DPCH
    CPHY RL Setup REQ
        physicalChannelIdentity,
        e_HICHInfo
            e HICHInfo
            tti
            e HICH PowerOffset
        )
-- set up the E-HICH identified by PhysicalChannelIdentity
-- for {\hbox{\footnotesize E-HICH}} the configurable parameters are
                               E HICH Information
        e HICHInfo
        e_HICH_PowerOffset
                                INTEGER (0..255)
-- The tti value shall be the same as the associated E-DPCH
-- As E-HICH is having timing dependencies with DPCH, it is configured last
    CPHY_RL_Setup_REQ
        physicalChannelIdentity,
        e_RGCHInfo
            e RGCHInfo
            e RGCH PowerOffset
   )
-- set up the E-RGCH identified by PhysicalChannelIdentity
-- for E-RGCH the configurable parameters are
                               E_RGCH_Information
INTEGER (0..255)
        e_RGCHInfo
        e RGCH PowerOffset
-- The tti value shall be the same as the associated E-DPCH
```

```
6. Configure E-DCH UL physical channel
    CPHY RL_Setup_REQ
        physicalChannelIdentity
        e DPCHInfo
            (
                e_DPCCH_Info
e_DPDCH_Info
                scramblingCodeType
                scramblingCode
                tti
                edch_PhysicalLayerCategory
            )
   )
-- set up the E-DCH identified by PhysicalChannelIdentity
-- for \bar{\text{E-DPCH}} the configurable parameters are
        e_DPCCH_Info
                                         E DPCCH Info
        e DPDCH Info
                                         E DPDCH Info
                                         E DCH TTI
        tti
        edch PhysicalLayerCategory
                                         INTEGER (1..16)
-- The scramblingCodeType and scramblingCode shall be the same as for Ul-DPCH
7. Configure E-DCH UL transport channels
    CPHY TrCH Config REQ
        physicalChannelIdentity,
        e DCHMacdFlows )
-- set up the E-DCH transport channel which carries one or multiple MAC_d flows, one Mac_d flow is
defined as
    {
                                     E DCH TTI
        tti
                                     ENUMERATED { rv0 (0) }
        harqInfo
        addReconf_MAC_d_Flow
                                     E_DCH_AddReconf_MAC_d_Flow
-- the tti parameter is the same for all {\tt Mac\_d} flows
-- each Mac_d flow is identified by mac-d-FlowIdentity defined in the addReconf_MAC_d_Flow
-- for each MAC d flow the configurable parameters are: mac-d-FlowPowerOffset, mac-d-FlowMaxRetrans,
mac-d-FlowMultiplexingList, transmissionGrantType
```

8. Mapping E-DCH cells in Node B

9. Configure MAC_e entity for E-DCH

```
CMAC MACe Config REQ
    (
       nodeB_Id
       ddiMappinglist
        e DCHMacdFlows
       connectedToMAC es
   )
-- MAC_e entity is created per Node-B
-- the e_DCHMacdFlows shall be same as that used in CPHY_TrCH_Config_REQ
-- the field connectedToMAC es shall be set to TRUE in serving E-DCH cell
-- the field connectedToMAC es shall be set to FALSE in inter nodeB SHO
-- ddiMappinglist is defined as
           activationTime
                                           SS ActivationTime
                                           MAC_HeaderManipulation
           macHeaderManipulation
           logicalChannelIdentity
                                           LogicalChannelIdentity
           e_DCH_MAC_d_FlowIdentity
                                           E_DCH_MAC_d_FlowIdentity
           ddi
                                           DDI
           rlc PDU SizeList
                                           RLC PDU SizeList
           mac LogicalChannelPriority
                                           MAC LogicalChannelPriority
           logicalChannelType
                                           LogicalChannelType
```

10. Configure MAC_es entity for E-DCH

11. Configure RLC entity for DTCHs which is mapped on E-DCH

8.13.1.2 SHO - addition of E-DCH RL in a serving RL cell (intra node B)

1. Configure E-DCH physical channel

```
-- E-DPCH is not configured: the cell is under the control of the same nodeB as the initial RL.
-- E-AGCH channel is not configured, it is configured only in the serving E-DCH cell
    CPHY RL Setup REQ
        physicalChannelIdentity,
        e HICHInfo
            e HICHInfo
            tti
            e HICH PowerOffset
    }
-- set up the E-HICH identified by PhysicalChannelIdentity
  for E-HICH the configurable parameters are
                               E_HICH_Information
        e HICHInfo
        e HICH PowerOffset
                                INTEGER (0..255)
-- The tti value shall be the same as the associated E-DPCH in the serving E-DCH cell
    CPHY RL Setup REQ
        physicalChannelIdentity,
        e RGCHInfo
            e RGCHInfo
            tti
            e_RGCH_PowerOffset
-- set up the E-RGCH identified by PhysicalChannelIdentity
-- for E\text{-RGCH} the configurable parameters are
        e RGCHInfo
                               E_RGCH_Information
        e RGCH PowerOffset
                                INTEGER (0..255)
The tti value shall be the same as the associated E-DPCH in the serving E-DCH cell
```

2. Mapping E-DCH cells in Node B

```
CMAC_MACe_NodeB_CellMapping_REQ
{
    nodeB_Id
    celllist
}
-- set-up the mapping between NodeB-Id and the new E-DCH cell in celllist
```

8.13.1.3 SHO – addition of E-DCH RL in a non-serving RL cell (inter node B)

1. Configure E-DCH DL physical channel

```
CPHY RL Setup REQ
        physicalChannelIdentity,
        e_HICHInfo
            e HICHInfo
            tti
            e_HICH_PowerOffset
   }
-- set up the E-HICH identified by PhysicalChannelIdentity
-- for E-HICH the configurable parameters are
                               E HICH Information
        e HICHInfo
        e_HICH_PowerOffset
                               -- The {\sf tt\bar{i}} value shall be the same as the associated E-DPCH in the serving E-DCH cell
   CPHY RL Setup REQ
        physicalChannelIdentity,
        e RGCHInfo
            e RGCHInfo
           tti
            e_RGCH_PowerOffset
   )
-- set up the E-RGCH identified by PhysicalChannelIdentity
-- for \bar{\text{E-RGCH}} the configurable parameters are
        e RGCHInfo
                               E RGCH Information
        e RGCH PowerOffset
                               INTEGER (0..255)
-- The tti value shall be the same as the associated E-DPCH in the serving E-DCH cell
```

2. Configure E-DCH UL physical channel

```
CPHY_RL_Setup_REQ
        physicalChannelIdentity,
        e DPCHInfo
                e DPCCH Info
                e DPDCH Info
               scramblingCodeType
                scramblingCode
                edch_PhysicalLayerCategory
-- set up the E-DCH identified by PhysicalChannelIdentity, the same as in the serving E-DCh cell
-- for E-DPCH the configurable parameters are
        e DPCCH Info
                                       E DPCCH Info.
                                        E_DPDCH_Info,
        e_DPDCH_Info
        edch_PhysicalLayerCategory
                                       INTEGER (1..16)
-- The scramblingCodeType and scramblingCode shall be the same as for Ul-DPCH
-- The tti value shall be the same as the E-DPCH in the serving E-DCH cell
-- for E-DPCH, the scramblingCodeType and scramblingCode shall be the same as for Ul_DPCH
-- E-AGCH channel is not configured
```

3. Configure E-DCH transport channels

4. Configure MAC_e entity for E-DCH

```
CMAC_MACe_Config_REQ

(
    nodeB_Id
    ddiMappinglist
    e_DCHMacdFlows
    connectedToMAC_es FALSE
)

- MAC_e entity is created per Node-B
- the e_DCHMacdFlows shall be same as that used in CPHY_TrCH_Config_REQ
- the field connectedToMAC_es shall be set to FALSE in inter nodeB SHO
- ddiMappinglist is defined like in the initial RL
```

5. Mapping E-DCH cells in Node B

8.13.2 DPCH/HS-DSCH/E-DCH setup and release order

When setting up an HSUPA RAB, the following order of channel configuration is applied:

```
DL-DPCH, HS-DSCH, UL-DPCH, E-DCH.
```

When releasing an HSUPA RAB, the following order of channel release/ modification is applied:

E-DCH, HS-DSCH, UL-DPCH, DL-DPCH.

8.14 Guidelines of MBMS implementations

8.14.1 MCCH scheduling implementation

The rules for the transmission of MCCH messages are specified in 3GPP TS 34.108 [3], clause 11.1.2. The current clause provides the implementation guidelines.

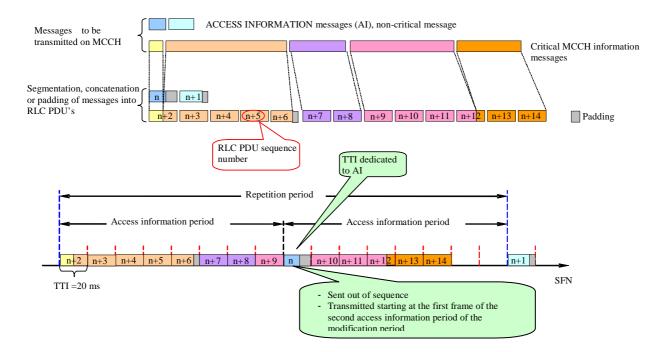
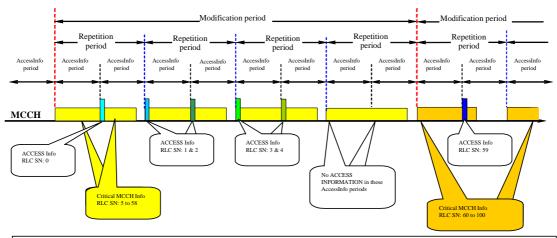


Figure 26: Segmentation and concatenation of MCCH messages into RLC PDU's

If required in the test, all ACCESS INFORMATION messages of a modification period are sent via RLC_UM_ACCESSinfo_REQ. Each ACCESS INFORMATION message corresponds to an access information period in an ordered way. The ACCESS INFORMATION is transmitted on the 1st TTI of the second access information period of the modification period.

All critical MCCH messages of a modification period are sent via RLC UM Critical MCCHMsg REQ. The sequence of the critical MCCH messages is segmented and concatenated without padding by a UM RLC entity configured specifically for MCCH. RLC_UM_ACCESSinfo_REQ precedes RLC_UM_CriticalMCCHMsg_REQ, or RLC UM CriticalMCCHMsg REQ can be used alone. The scenarios of RLC UM ACCESSinfo REQ used alone or RLC_UM_CriticalMCCHMsg_REQ preceding RLC_UM_ACCESSinfo_REQ are not applied.

The first RLC SN are always allocated consecutively to ACCESS INFORMATION messages, i.e. from n + 0 onwards as necessary. Then an RLC SN block is consecutively allocated to the critical MCCH messages, saying the last used SN = (n + m)MOD 128 in the current modification period. Renew n to (n + m + 1)MOD 128 for the next modification period.



- Different colour represents different message contents
- Contents of Critical MCCH info messages keep unchanged in Modification period Contents of ACCESS INFORMATION can change in Repetition/Modification period
- If an ACCESS INFORMATION is to be sent in an Access Information period, the message is sent in the first TTI of the Access Information period While sending the whole set of MCCH messages there shall be no idle/empty TTI between messages

Figure 27: RLC SN allocation in MCCH scheduling

ACCESS INFORMATION messages within a modification period have different RLC SN. The SN = n + 0 is allocated to the 1st ACCESS INFORMATION message. The critical MCCH messages to be transmitted in the different repetition periods within a modification period have the same RLC SN. RLC SN are incremented across the boundary of two consecutive modification periods without RLC reestablishment. The different RLC SN are allocated to the two consecutive modification periods.

In order to ensure UE can read the first ACCESS INFORMATION message, the message is sent by the TTCN in the second access information period.

8.14.2 MSCH scheduling and service data on MTCH

Multiple ordered SCHEDULING INFORMATION messages are sent by using RLC UM MSCH Msg REQ. Each SCHEDULING INFORMATION corresponds to a scheduling period, a 'noSend' MSCH_Message indicates that no MBMS services are scheduled in that scheduling period for all MTCH. The first SCHEDULING INFORMATION message is sent on the scheduledSFN and succesively the remaining messages are sent in every scheduling period.

The MBMS service data are fed by RLC UM TestDataReq. However the real MBMS service transmissions for multiple scheduling periods on each MTCH are controlled by CRLC_UM_MTCH_Scheduling_REQ. Within each scheduling period the information on the discontinuous service transmissions are conveyed through a list of pairs of (start, duration). The IE noServiceData as NULL being provided for a scheduling period indicates no service trasnmission on that MTCH.

The simulation of the continuous MBMS services is provided if an empty CRLC_UM_MTCH_Scheduling_REQ is sent without scheduling configuration parameter and scheduling information.

RLC_UM_MSCH_Msg_REQ precedes CRLC_UM_MTCH_Scheduling_REQ and RLC_UM_TestDataReq.

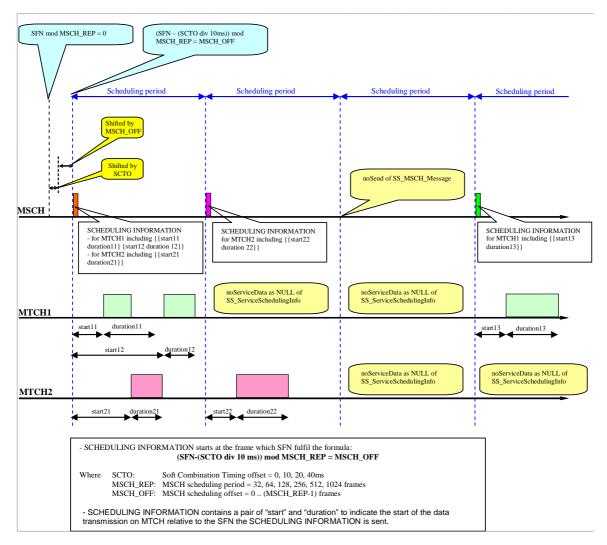


Figure 28: MSCH scheduling and MTCH data transfer

8.14.2.1 Scheduled service data on MTCH without MSCH configured

The scheduled service is a mechanism for synchronization of the initialization of the MBMS services announced on MCCH and the start of transmission the service data on MTCH. The mechanism can also be used at the SS side when MSCH is not configured.

In a PTM test session two separate sequences of critical MCCH messages are transmitted in an order of C4 - C2 or C5 - C3 in two consecutive modification periods. The MBMS MODIFIED SERVICES INFORMATION message in C4/C5 generally does not contain MBMS p-t-m activation time for the UE immediate reception of MBMS services. However, the SS shall not start test data transmission until on the 1st TTI of the next modification period to ensure that the UE can have a nearly full modification period to obtain critical MCCH messages and to apply the configuration required by the test.

The Figure 29 illustrates the relationship of the service scheduling on MTCH and the default1 MCCH information scheduling. The SS waits until the 2nd half of the last repetition period in the modification period when the C4 messages are sent before closing test loop. The test data are transmitted on the 1st TTI of the modification period when the C2 messages are sent. The whole test sequence is:

CPHY_SFN_REQ, calculating next MICH CFN,

MP n: next MICH CFN set MICH and transmit NI,

MP n+1: next MICH CFN+1 mp set modified services list (C4 or C5), set PTM activation time if necessary,

MP n+2: next MICH CFN+2 mp set unmodified service list and transmit data (C2 or C3).

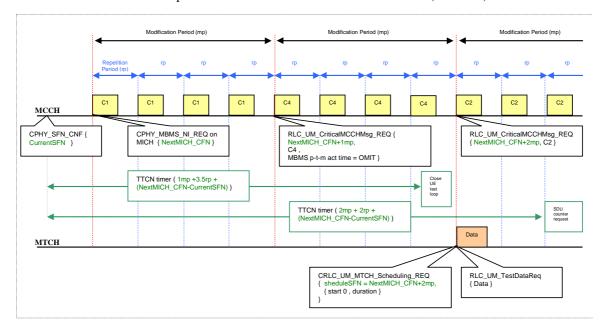


Figure 29: Synchronized MTCH data sending, no MSCH configured

If the test loop is already closed and the service data is to be sent the ASPs follow the order:

CPHY_SFN_REQ, CRLC_UM_MTCH_Scheduling_REQ and RLC_UM_TestDataReq.

8.15 Cell mapping

The following table defines the cell identities mapping between 3GPP TS 34.108 [3] and the ATS implementation.

Cell Number in 34.108 **ATS** Not Used

Table 170: Cell identities mapping

Annex A (normative): Abstract Test Suites (ATS)

This annex contains the approved ATSs.

The ATSs have been produced using the Tree and Tabular Combined Notation (TTCN) according to TR 101 666 [27].

The ATSs were developed on a separate TTCN software tool and therefore the TTCN tables are not completely referenced in the table of contents. Each ATS contains a test suite overview part which provides additional information and references.

NOTE:

Where an Abstract Test Suite (in TTCN) is published in both .GR and .MP format these two forms shall be considered equivalent. In the event that there appears to be syntactical or semantic differences between the two then the problem shall be resolved and the erroneous format (whichever it is) shall be corrected.

A.1 Version of specifications

Table A.1 shows the version of the test specifications which the delivered ATSs are referred to.

Table A.1: Versions of the test and Core specifications

Core specifications	3GPP TS 25.331 [21] (V6.f0)
Test specifications	3GPP TS 34.123-1 [1] (V7.1.0)
	3GPP TS 34.123-2 [2] (V7.1.0)
	3GPP TS 34.108 [3] (V7.2.0)
	3GPP TS 34.109 [4] (V6.4.0)

A.2 NAS ATS

The approved NAS test cases are listed. An 'X' in columns FDD or LCR TDD indicates the test case approved for the relevant ATS.

Table A.2: NAS TTCN test cases

Test case	Description	FDD	LCR TDD
	MM		
9.1	TMSI reallocation	Χ	Χ
9.2.1	Authentication accepted	Χ	Χ
9.2.2	Authentication rejected	Χ	
9.2.3	Authentication rejected by the UE (MAC code failure)	Χ	
9.2.4	Authentication rejected by the UE (SQN failure)	Х	
9.3.1	General Identification	X	Х
9.4.1	Location updating / accepted	X	
9.4.2.1	Location updating / rejected / IMSI invalid	X	
9.4.2.2.1	Location updating / rejected / PLMN not allowed/Test 1	X	
9.4.2.2.1	Location updating / rejected / PLMN not allowed / Test 1 Location updating / rejected / PLMN not allowed / Test 2	X	
		X	
9.4.2.3	Location updating / rejected / location area not allowed		
9.4.2.4.1	Location updating / rejected / roaming not allowed in this location area / Procedure 1	X	
9.4.2.4.2	Location updating / rejected / roaming not allowed in this location area / Procedure 2	Χ	
9.4.2.4.4	Location updating / rejected / roaming not allowed in this location area / Procedure 4	Х	
9.4.2.5	Location updating / rejected / No Suitable Cells In Location Area	Χ	
9.4.3.3	Location updating / rejected / No outlable delis in Location Area Location updating / abnormal cases / attempt counter equal to 4	X	
9.4.3.5	Location updating / abnormal cases / attempt counter equal to 4 Location updating / abnormal cases / Failure due to non-integrity	X	
9.4.3.3	protection	^	
9.4.4		~	
	Location updating / release / expiry of T3240	X	X
9.4.5.2	Location updating / periodic normal / test 1	X	
9.4.5.3	Location updating / periodic normal / test 2	X	
9.4.5.4.1	Location updating / periodic search for HPLMN or higher priority PLMN / UE waits time T	Х	
9.4.5.4.6	Location updating/periodic search of the higher priority PLMN, VPLMN in a foreign country- List of EPLMN contain HPLMN /UE is in automatic mode	Χ	
9.4.7	Location Updating / accept with replacement or deletion of Equivalent PLMN list	Х	
9.4.8	Location Updating after UE power off	Χ	
9.4.9	Location Updating / Accept, Interaction between Equivalent PLMNs and Forbidden PLMNs	X	
9.5.2	MM connection / establishment in security mode	Χ	Х
9.5.4	MM connection / establishment rejected	X	X
9.5.5	MM connection / establishment rejected cause 4	X	
9.5.7.1	MM connection / abortion by the network / cause #6	X	
9.5.7.2	MM connection / abortion by the network / cause not equal to #6	X	
3.3.1.2	CC		
10 1 0 1 1		~	
10.1.2.1.1	Outgoing call / U0 null state / MM connection requested	X	X
10.1.2.2.1	Outgoing call / U0.1 MM connection pending / CM service rejected	X	X
10.1.2.2.2	Outgoing call / U0.1 MM connection pending / CM service accepted	X	X
10.1.2.2.3	Outgoing call / U0.1 MM connection pending / lower layer failure	X	X
10.1.2.3.1	Outgoing call / U1 call initiated / receiving CALL PROCEEDING	X	X
10.1.2.3.2	Outgoing call / U1 call initiated / rejecting with RELEASE COMPLETE	X	X
10.1.2.3.3	Outgoing call / U1 call initiated / T303 expiry	Χ	Х
10.1.2.3.7	Outgoing call / U1 call initiated / unknown message received	Χ	Χ
10.1.2.4.3	Outgoing call / U3 Mobile originating call proceeding / PROGRESS received without in band information	Χ	Χ
10.1.2.4.4	Outgoing call / U3 Mobile originating call proceeding / PROGRESS with in band information	Х	Х
10.1.2.4.6	Outgoing call / U3 Mobile originating call proceeding / DISCONNECT without in band tones	Х	Х
10.1.2.4.7	Outgoing call / U3 Mobile originating call proceeding / RELEASE received	Х	Х
10.1.2.4.8	Outgoing call / U3 Mobile originating call proceeding / termination requested by the user	Х	Х
10.1.2.4.9	Outgoing call / U3 Mobile originating call proceeding / traffic channel allocation	Х	Х
10.1.2.4.10	Outgoing call / U3 Mobile originating call proceeding / timer T310 time-	Χ	Х
10.1.2.4.10	out	^	^

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10.1.2.5.1	Outgoing call / U4 call delivered / CONNECT received	Х	
10.1.2.5.2	Outgoing call / U4 call delivered / termination requested by the user	Χ	X
10.1.2.5.5	Outgoing call / U4 call delivered / RELEASE received	Х	X
10.1.2.6.2	U10 active / RELEASE received	Χ	Χ
10.1.2.6.3	U10 active / DISCONNECT with in band tones	Χ	Χ
10.1.2.6.6	U10 active / SETUP received	Χ	Χ
10.1.2.7.1	U11 disconnect request / clear collision	Χ	Χ
10.1.2.7.2	U11 disconnect request / RELEASE received	X	Χ
10.1.2.7.3	U11 disconnect request / timer T305 time-out	Χ	Χ
10.1.2.9.1	Outgoing call / U19 release request / timer T308 time-out	Χ	Χ
10.1.3.3.1	Incoming call / U9 mobile terminating call confirmed / alerting or immediate connecting	Х	Х
10.1.3.3.2	Incoming call / U9 mobile terminating call confirmed / DTCH	Х	Х
10.1.3.3.4	assignment Incoming call / U9 mobile terminating call confirmed / DISCONNECT received	Х	Х
10.1.3.4.1	Incoming call / U7 call received / call accepted	Х	Х
10.1.3.5.6	Incoming call / U8 connect request / RELEASE received	X	X
10.1.3.3.0	Session Management	_^	
11.1.1.1	Attach initiated by context activation/QoS Offered by Network is the	X	Х
	QoS Requested		
11.3.1	PDP context deactivation initiated by the UE	Х	Χ
11.3.2	PDP context deactivation initiated by the network	Χ	
	GPRS Mobility Management		
12.2.1.1	PS attach / accepted	Х	Х
12.2.1.2	PS attach / rejected / IMSI invalid / illegal UE	Х	
12.2.1.3	PS attach / rejected / IMSI invalid / PS services not allowed	Х	Χ
12.2.1.4 Proc 1	PS attach / rejected / PLMN not allowed / test procedure 1	Х	
12.2.1.4 Proc 2	PS attach / rejected / PLMN not allowed / test procedure 2	Х	
	PS attach / rejected / roaming not allowed in this location area / test	Х	
12.2.1.5a Proc 1	procedure 1		
	PS attach / rejected / roaming not allowed in this location area / test	Χ	
12.2.1.5a Proc 2	procedure 2		
12.2.1.5b	PS attach / rejected / No Suitable Cells In Location Area	Χ	
12.2.1.5d	PS attach / rejected / PS services not allowed in this PLMN	Χ	
12.2.1.6 Proc 1	PS attach / abnormal cases / access barred due to access class control / tes procedure 1	Х	
12.2.1.6 Proc 2	PS attach / abnormal cases / access barred due to access class	Х	
	control / test procedure 2	, ,	
12.2.1.7	PS attach / abnormal cases / change of cell into new routing area	Χ	Χ
12.2.1.10	PS attach / abnormal cases / Failure due to non-integrity protection	Х	
12.2.1.11	PS attach / accepted / follow-on request pending indicator set	Х	
12.2.2.1	Combined PS attach / PS and non-PS attach accepted	Х	Χ
12.3.1.1	PS detach / power off / accepted	Х	Χ
12.3.1.2	PS detach / accepted	Χ	Χ
12.3.1.5	PS detach / power off / accepted / PS/IMSI detach	Х	Х
12.3.2.1	PS detach / re-attach not required / accepted	X	X
12.3.2.7	PS detach / rejected / Roaming not allowed in this location area	Χ	
12.3.2.8.Proc 1	PS detach / rejected / PS services not allowed in this PLMN/ test1	Х	
12.4.1.1a	Routing area updating / accepted	X	
12.4.1.1b	Routing area updating / accepted / Signalling connection re-	Х	Х
10.4.1.0	establishment	V	
12.4.1.2	Routing area updating / rejected / IMSI invalid / illegal ME	X	
12.4.1.3	Routing area updating / rejected / UE identity cannot be derived by the network	Х	
12.4.1.4a	Routing area updating / rejected / location area not allowed	Χ	
12.4.1.4b	Routing area updating / rejected / No Suitable Cells In Location Area	Х	
12.4.1.4c Proc 1	Routing area updating / rejected / PS services not allowed in this PLMN	Х	
12.4.1.4c Proc 2	Routing area updating / rejected / PS services not allowed in this	Х	
12.4.1.4d Proc 1	PLMN Routing area updating / rejected / Roaming not allowed in this location	Х	
	area / test 1		
12.4.1.4d Proc 2	Routing area updating / rejected / Roaming not allowed in this location	Х	
12.4.1.5	area / test 2 Routing area updating / abnormal cases / attempt counter check /	Х	
	recurred area apacting, aprioring bases, attempt counter smoot,		

	miscellaneous reject causes		
12.4.2.1	Combined routing area updating / combined RA/LA accepted	Χ	
12.4.2.2	Combined routing area updating / UE in CS operation at change of RA	Х	Х
12.4.2.4	Combined routing area updating / rejected / PLMN not allowed	Χ	
12.4.2.5a Proc 1	Combined routing area updating / rejected / roaming not allowed in this	Χ	
12.4.2.5a.Proc 2	location area / test procedure 1	Х	
12.4.2.5a.Proc 2	Combined routing area updating / rejected / roaming not allowed in this location area / test procedure 2	^	
12.4.2.6 Proc 1	Combined routing area updating / abnormal cases / access barred due	Χ	
	to access class control / test procedure 1		
12.4.2.6.Proc 2	Combined routing area updating / abnormal cases / access barred due	Χ	
	to access class control / test procedure 2		
12.4.3.1	Periodic routing area updating / accepted	Χ	Χ
12.4.3.4	Periodic routing area updating / no cell available	Χ	
12.5	P-TMSI reallocation	Χ	Χ
12.6.1.1	Authentication accepted	Χ	
12.6.1.2	Authentication rejected - by the network	Χ	
12.6.1.3.1	GMM cause 'MAC failure	Χ	
12.6.1.3.2	GMM cause 'Synch failure'	Х	
12.6.1.3.3	Authentication rejected by the UE / fraudulent network	Х	
12.7.1	General Identification	Х	Χ
12.9.1	Service Request Initiated by UE Procedure	Χ	Χ
12.9.2	Service Request Initiated by Network Procedure	Х	Χ
12.9.3	Service Request / rejected / Illegal MS	Χ	Χ
12.9.4	Service Request / rejected / PS services not allowed	Χ	Χ
12.9.6	Service Request / rejected / PLMN not allowed	Χ	
12.9.7a	Service Request / rejected / No PDP context activated	Χ	
12.9.7b	Service Request / rejected / No Suitable Cells In Location Area	Χ	
12.9.7c	Service Request / rejected / Roaming not allowed in this location area	Х	
12.9.8	Service Request / Abnormal cases / Access barred due to access class control	Х	
12.9.9	Service Request / Abnormal cases / Routing area update procedure is triggered	Х	
12.9.12	Service Request / RAB re-establishment / UE initiated / Single PDP context	Х	
12.9.13	Service Request / RAB re-establishment / UE initiated / multiple PDP contexts	Х	
12.9.14	Service Request / RAB re-establishment / Network initiated / single PDP context	Х	Х
	General Tests		
13.2.1.1	Emergency call / with USIM / accept case	Χ	Χ
13.2.2.1	Emergency call / without USIM / accept case	Χ	Χ
13.2.2.2	Emergency call / without USIM / reject case	Χ	Χ

A.2.1 The TTCN Graphical form (TTCN.GR)

The TTCN.GR representation of this ATS is contained in an Adobe Portable Document FormatTM file (NASv650.PDF) which accompanies the present document.

A.2.2 The TTCN Machine Processable form (TTCN.MP)

The TTCN.MP representation corresponding to the corresponding FDD or LCR_TDD ATS is contained in an ASCII file (NASv650.MP) which accompanies the present document.

A.3 SMS ATS

The approved SMS test cases are listed. An 'X' in columns FDD or LCR TDD indicates the test case approved for the relevant ATS.

Table A.3: SMS TTCN test cases

Test case	Description	FDD	LCR TDD
16.1.1	SMS on CS mode / SMS mobile terminated	Х	X
16.1.2	SMS on CS mode / SMS mobile originated	Х	X
16.1.9.1	SMS on CS mode / Multiple SMS mobile originated / UE in idle mode	Х	
16.1.9.2	SMS on CS mode / Multiple SMS mobile originated / UE in active mode	Х	X
16.1.10	SMS on CS mode / Test of capabilities of simultaneously receiving a short	Х	
	message whilst sending a mobile originated short message		
16.2.1	SMS on PS mode / SMS mobile terminated	Χ	
16.2.2	SMS on PS mode / SMS mobile originated	Х	
16.2.10	SMS on PS mode / Test of capabilities of simultaneously receiving a short	Х	
	message whilst sending a mobile originated short message		
16.3	Short message service cell broadcast	Χ	

A.3.1 The TTCN Graphical form (TTCN.GR)

The TTCN.GR representation of this ATS is contained in an Adobe Portable Document FormatTM file (SMSv650.PDF) which accompanies the present document.

A.3.2 The TTCN Machine Processable form (TTCN.MP)

The TTCN.MP representation corresponding to the corresponding FDD or LCR_TDD ATS is contained in an ASCII file (SMSv650.MP) which accompanies the present document.

A.4 RRC ATS

The approved RRC test cases are listed. An 'X' in columns FDD or LCR TDD indicates the test case approved for the relevant ATS.

Table A.4: RRC TTCN test cases

Test case	Description	FDD	LCR TDD
	Single Cell		
6.1.1.4	PLMN selection of RPLMN, HPLMN, UPLMN and OPLMN; Automatic mode	Х	
6.1.1.5	PLMN selection of "Other PLMN / access technology combinations"; Automatic mode	Х	
6.1.1.7	Cell reselection of ePLMN in manual mode	Χ	
6.1.2.1	Cell reselection	Χ	
6.1.2.1a	Cell reselection for inter-band operation	Χ	
6.1.2.2	Cell reselection using Qhyst, Qoffset and Treselection	Х	
6.1.2.3	HCS Cell reselection	Χ	
6.1.2.4	HCS Cell reselection using reselection timing parameters for the H criterion	Х	
6.1.2.5	HCS Cell reselection using reselection timing parameters for the R criterion	Х	
6.1.2.6	Emergency calls	Х	
6.1.2.8	Cell reselection: Equivalent PLMN	X	
6.1.2.9a	Cell reselection using cell status and cell reservations – Type 'A' USIM	X	
	Cell reselection using cell status and cell reservations – Type 'B' USIM	X	
6.1.2.9b 8.1.1.1	RRC / Paging for Connection in idle mode	X	Х
8.1.1.2	RRC / Paging for Connection in Idle Hode RRC / Paging for Connection in connected mode (CELL_PCH)	X	^
		X	
8.1.1.3	R RRC / Paging for Connection in connected mode (URA_PCH)		
8.1.1.4	RRC / Paging for notification of BCCH modification in idle mode	X	Х
8.1.1.5	RRC / Paging for notification of BCCH modification in connected mode (CELL_PCH)	Х	
8.1.1.6	RRC / Paging for notification of BCCH modification in connected mode (URA_PCH)	Х	
8.1.1.7	RRC / Paging for connection in connected mode (CELL_DCH)	Х	X
8.1.1.8	RRC / Paging for Connection in connected mode (CELL_FACH)	Χ	X
8.1.1.9	RRC / Paging for Connection in idle mode (multiple paging records)	Х	
8.1.1.10	RRC / Paging for Connection in connected mode (URA_PCH, multiple paging records)	Х	
8.1.2.1	RRC / RRC Connection Establishment in CELL_DCH state: Success	Χ	
8.1.2.2	RRC / RRC Connection Establishment: Success after T300 timeout	Х	
8.1.2.3	RRC / RRC Connection Establishment: Failure (V300 is greater than N300)	Х	
8.1.2.4	RRC / RRC Connection Establishment: Reject ("wait time" is not equal to 0)	Х	
8.1.2.7	RRC Connection Establishment in CELL_FACH state: Success	Х	Х
8.1.2.9	RRC / RRC Connection Establishment: Success after Physical channel	X	
	failure and Invalid configuration		
8.1.2.10	RRC / Radio Bearer Establishment for transition from CELL_DCH to	X	
	CELL_FACH (Frequency band modification): Success		
8.1.2.10a	RRC connection establishment in CELL_DCH on another frequency in a different frequency band	Х	
8.1.2.11	RRC Connection Establishment in FACH state (Frequency band modification): Success	Х	
8.1.3.1	RRC / RRC Connection Release in CELL_DCH state: Successful	Χ	Χ
8.1.3.3	RRC / RRC Connection Release using on CCCH in CELL_FACH state: Failure	Х	Х
8.1.3.4	RRC / RRC Connection Release in CELL_FACH state: Failure	Х	
8.1.3.5	RRC / RRC Connection Release in CELL_FACH state: Invalid message	X	
8.1.3.9	RRC Connection Release in CELL_DCH state (Network Authentication Failure): Success	X	
8.1.5.1	RRC / UE Capability in CELL_DCH state: Success	Х	Y
8.1.5.4	RRC / UE Capability in CELL_FACH state: Success	X	X
8.1.6.1	Direct Transfer in CELL_DCH state (invalid message reception and no	X	
8.1.6.3	signalling connection exists) Measurement Report on INITIAL DIRECT TRANSFER message and	Х	
0 1 7 1	UPLINK DIRECT TRANSFER message	V	
8.1.7.1	Security mode command in CELL_DCH state (CS Domain)	X	
8.1.7.1b	Security mode command in CELL_DCH state (PS Domain)	X	
8.1.7.1c	Security mode control in CELL_DCH state (CN Domain switch and new keys at RRC message sequence number wrap around)	Х	

Test case	Description	FDD	LCR TDD
8.1.7.1d	Security mode control in CELL_DCH state interrupted by a cell update	Χ	
8.1.7.2	RRC / Security mode control in CELL_FACH state	Χ	
8.1.9	RRC / Signalling Connection Release Indication	X	Х
8.1.10.1	Dynamic change of segmentation, concatenation & scheduling and handling of unsupported information blocks	Х	
8.1.12	RRC / Radio Bearer Establishment for transition from CELL_FACH to CELL_DCH: Failure (Physical channel Failure and successful reversion to old configuration)	X	Х
8.2.1.1	Radio Bearer Establishment for transition from CELL_DCH to CELL_DCH: Success	Х	
8.2.1.4	RRC / Radio Bearer Establishment for transition from CELL_DCH to CELL_DCH: Failure (Physical channel Failure and successful reversion to old configuration)	Х	
8.2.1.7	RRC / Radio Bearer Establishment for transition from CELL_DCH to CELL_DCH: Failure (Invalid message reception and invalid configuration)	Х	
8.2.1.8	RRC / Radio Bearer Establishment for transition from CELL_DCH to CELL_FACH: Success	Х	X
8.2.1.9	RRC / Radio Bearer Establishment for transition from CELL_DCH to CELL_FACH: Success (Cell re-selection)	Х	
8.2.1.10	RRC / Radio Bearer Establishment for transition from CELL_DCH to CELL_FACH (Frequency band modification): Success	Х	
8.2.1.24	Radio Bearer Establishment for transition from CELL_DCH to CELL_DCH (Frequency band modification): Success	Х	
8.2.1.24a	Radio Bearer Establishment for transition from CELL_DCH to CELL_DCH (Inter band handover): Success	Х	
8.2.1.33	Radio Bearer Establishment for transition from CELL_DCH to CELL_DCH: Success (Unsynchronised RL Reconfiguration)	Х	
8.2.1.34	Radio Bearer Establishment for transition from CELL_DCH to CELL_DCH: Success (Unsynchronised RL Reconfiguration with frequency modification)	Х	
8.2.1.34a	Radio Bearer Establishment for transition from CELL_DCH to CELL_DCH: Success (Unsynchronised RL Reconfiguration with interband handover)	Х	
8.2.2.1	RRC / Radio Bearer Reconfiguration (Hard Handover) from CELL_DCH to CELL_DCH: Success	Х	
8.2.2.4	RRC / Radio Bearer Reconfiguration from CELL_DCH to CELL_DCH: Failure (Physical channel failure and reversion failure)	Х	
8.2.2.7	RRC / Radio Bearer Reconfiguration from CELL_DCH to CELL_DCH: Success (stop and continue)	Х	
8.2.2.8	RRC / Radio Bearer Reconfiguration from CELL_DCH to CELL_FACH: Success	Х	Х
8.2.2.9	RRC / Radio Bearer Reconfiguration from CELL_DCH to CELL_FACH: Success (Cell re-selection)	Х	Х
8.2.2.10	RRC / Radio Bearer Reconfiguration from CELL_FACH to CELL_DCH: Success	Х	
8.2.2.11	Radio Bearer Reconfiguration from CELL_FACH to CELL_DCH: Failure (Unsupported configuration)	Х	Х
8.2.2.17	RRC / Radio Bearer Reconfiguration from CELL_FACH to CELL_FACH: Success	Х	Х
8.2.2.18	RRC / Radio Bearer Reconfiguration from CELL_FACH to CELL_FACH: Success (Cell re-selection)	Х	
8.2.2.19	RRC / Radio Bearer Reconfiguration from CELL_DCH to CELL_DCH: Success (Subsequently received)	Х	
8.2.2.23	RRC / Radio Bearer Reconfiguration from CELL_FACH to CELL_PCH: Success	Х	
8.2.2.31	Radio Bearer Reconfiguration for transition from CELL_FACH to CELL_DCH (Frequency band modification): Success	Х	
8.2.2.35	Radio Bearer Reconfiguration from CELL_DCH to CELL_FACH: Successful channel switching with multiple PS RABs established	Х	
8.2.2.43	Radio Bearer Reconfiguration for transition from CELL_DCH to CELL_DCH: Success (Seamless SRNS relocation, without pending of ciphering, frequency band modification)	Х	
8.2.3.1	Radio Bearer Release for transition from CELL_DCH to CELL_DCH: Success	Х	
8.2.3.7	RRC / Radio Bearer Release for transition from CELL_DCH to	Х	Х

Test case	Description	FDD	LCR TDD
8.2.3.8	CELL_FACH: Success RRC / Radio Bearer Release for transition from CELL_DCH to	Х	
	CELL_FACH: Success (Cell re-selection)		
8.2.3.9	RRC / Radio Bearer Release for transition from CELL_FACH to CELL_DCH: Success	Х	Х
8.2.3.11	RRC / Radio Bearer Release for transition from CELL_FACH to	Х	Χ
	CELL_DCH: Failure (Physical channel failure and successful reversion to old configuration)		
8.2.3.15	RRC / Radio Bearer Release for transition from CELL_FACH to CELL_FACH: Success	Х	Х
8.2.3.18	RRC / Radio Bearer Release from CELL_DCH to CELL_PCH: Success	Χ	
8.2.3.19	RRC / Radio Bearer Release from CELL_DCH to URA_PCH: Success	Χ	Χ
8.2.3.29	Radio Bearer Release for transition from CELL_DCH to CELL_DCH: Associated with signalling connection release during multi call for PS and CS services	Х	Х
8.2.4.1	Transport channel reconfiguration (Timing re- initialised hard handover with transmission rate modification) from CELL_DCH to CELL_DCH: Success	Х	
8.2.4.1a	Transport channel reconfiguration (Transmission Rate Modification) from CELL_DCH to CELL_DCH of the same cell: Success	Х	
8.2.4.3	RRC / Transport channel reconfiguration from CELL_DCH to CELL_DCH: Failure (Physical channel failure and reversion to old configuration)	Х	
8.2.4.4	Transport channel reconfiguration from CELL_DCH to CELL_DCH: Failure (Physical channel failure and cell reselection)	Х	
8.2.4.10	RRC / Transport channel reconfiguration from CELL_FACH to CELL_DCH: Success	Х	
8.2.6.1	RRC / Physical channel reconfiguration for transition from CELL_DCH to CELL_DCH (Hard handover for code modification): Success	Х	
8.2.6.2	RRC / Physical channel reconfiguration for transition from CELL_DCH to CELL_DCH (Hard handover for code modification): Failure (Unsupported configuration)	Х	
8.2.6.7	RRC / Physical channel reconfiguration for transition from CELL_DCH to CELL_FACH: Success	Х	Х
8.2.6.8	RRC / Physical channel reconfiguration for transition from CELL_DCH to CELL_FACH: Success (Cell re-selection)	Х	
8.2.6.9	RRC / Physical channel reconfiguration for transition from CELL_FACH to CELL_DCH: Success	Х	
8.2.6.11	RRC / Physical channel reconfiguration for transition from CELL_FACH to CELL_DCH: Failure (Physical channel failure and successful reversion to old configuration)	Х	Х
8.2.6.12	RRC / Physical channel reconfiguration for transition from CELL_FACH to CELL_DCH: Failure (Physical channel failure and cell re-selection)	Х	
8.2.6.19	RRC / Physical channel reconfiguration from CELL_DCH to CELL_PCH: Success	Х	
8.2.6.20	RRC / Physical channel from CELL_DCH to URA_PCH: Success	Χ	Х
8.2.6.37	Physical channel reconfiguration for transition from CELL_DCH to CELL_DCH (Hard handover to another frequency with timing reinitialised)	Х	
8.2.6.37b	Physical channel reconfiguration for transition from CELL_DCH to CELL_DCH (Hard handover to another frequency band cell with timing re-initialised)	Х	
8.2.6.38	Physical channel reconfiguration for transition from CELL_DCH to CELL_DCH (Hard handover to another frequency with timing reinitialised): Failure (Physical channel failure and reversion to old channel)	Х	
8.2.6.39	Physical Channel Reconfiguration for transition from CELL_DCH to CELL_DCH: Success (Seamless SRNS relocation) (without pending of ciphering)	Х	
8.2.6.44	Physical Channel Reconfiguration for transition from CELL_DCH to CELL_DCH: Failure (Radio link failure in new configuration)	Х	
8.3.1.1	RRC / Cell Update: cell reselection in CELL_FACH	Χ	
8.3.1.1a	Cell Update: cell reselection in CELL_FACH (Cells belong to different frequency bands)	X	
8.3.1.2 8.3.1.3	RRC / Cell Update: cell reselection in CELL_PCH RRC / Cell Update: periodical cell update in CELL_FACH	X	
8.3.1.4	RRC / Cell Update: periodical cell update in CELL_PACH	X	

Test case	Description	FDD	LCR TDD
8.3.1.5	RRC / Cell Update: UL data transmission in URA_PCH	Χ	
8.3.1.6	RRC / Cell Update: UL data transmission in CELL_PCH	Χ	
8.3.1.9	RRC / Cell Update: re-entering of service area after T305 expiry and being out of service area	Х	
8.3.1.10	RRC / Cell Update: expiry of T307 after T305 expiry and being out of service area	Х	
8.3.1.11	RRC / Cell Update: Success after T302 time-out	Х	
8.3.1.12	RRC / Cell Update: Failure (After Maximum Re-transmissions)	X	
8.3.1.15	RRC / Cell Update: Unrecoverable error in Acknowledged Mode RLC	X	
8.3.1.17	RRC / Cell Update: Failure (UTRAN initiate an RRC connection release	X	
8.3.1.18	procedure on CCCH) RRC / Cell Update: Radio Link Failure (T314>0, T315=0), CS RAB	Х	
	established		
8.3.1.21	Cell Update: Cell reselection to cell of another PLMN belonging to the equivalent PLMN list	Х	
8.3.1.23	Cell Update: HCS cell reselection in CELL_FACH	Χ	
8.3.1.24	Cell Update: HCS cell reselection in CELL_PCH	Χ	
8.3.1.25	CELL UPDATE: Radio Link Failure (T314=0, T315=0)	Χ	
8.3.1.22	Cell update: Restricted cell reselection to a cell belonging to forbidden LA list (Cell_FACH)	Х	
8.3.1.30	Cell Update: Radio Link Failure (T314>0, T315>0), PS RAB	Х	
8.3.1.31	Cell Update: re-entering of service area from URA_PCH after T316	X	
0 2 2 4	expiry but before T317 expiry	~	
8.3.2.1	RRC / URA Update: Change of URA URA Update: Change of URA (Cells belong to different frequency bands)	X	
8.3.2.1a		X	
8.3.2.2	RRC / URA Update: Periodical URA update and Reception of Invalid message		
8.3.2.4	RRC / URA Update: loss of service after expiry of timers T307 after T306		
8.3.2.7	RRC / URA Update: Success after T303 timeout	Χ	
8.3.2.9	RRC / URA Update: Failure (UTRAN initiate an RRC connection release procedure on CCCH)		
8.3.2.11	URA Update: Cell reselection to cell of another PLMN belonging to the equivalent PLMN list	Х	
8.3.2.12	Restricted cell reselection to a cell belonging to forbidden LA list (URA_PCH)	Х	
8.3.2.13	URA Update: Change of URA due to HCS Cell Reselection	Х	
8.3.3.1	RRC / UTRAN Mobility Information: Success	X	
8.3.4.1	RRC / Active set update in soft handover: Radio Link addition	X	
8.3.4.2	RRC / Active set update in soft handover: Radio Link removal	X	
8.3.4.3	RRC / Active set update in soft handover: Combined radio link addition	X	
0.00	and removal	'`	
8.3.4.8	Active set update in soft handover: Radio Link addition in multiple radio link environment	Х	
8.4.1.1	Measurement Control and Report: Intra-frequency measurement for	Х	
8.4.1.2	transition from idle mode to CELL_DCH state RRC / Measurement Control and Report: Inter-frequency measurement	Х	
	for transition from idle mode to CELL_DCH state		
8.4.1.2B	Measurement Control and Report: Inter-band measurement for transition from idle mode to CELL_DCH state (FDD)	Х	
8.4.1.3	RRC / Measurement Control and Report: Intra-frequency measurement for transition from idle mode to CELL_FACH state	Х	
8.4.1.5	RRC / Measurement Control and Report: Intra-frequency measurement	Х	
8.4.1.6	for transition from CELL_DCH to CELL_FACH state RRC / Measurement Control and Report: Inter- frequency measurement	Х	
8.4.1.7	for transition from CELL_DCH to CELL_FACH state RRC / Measurement Control and Report: Intra- frequency measurement	Х	
=:	for transition from CELL_FACH to CELL_DCH state	``	
8.4.1.8	Measurement Control and Report: Inter-frequency measurement for transition from CELL_FACH to CELL_DCH state (FDD)	Х	
8.4.1.14	RRC / Measurement Control and Report: Cell forbidden to affect	Χ	
8.4.1.16	reporting range Measurement Control and Report: Traffic volume measurement for	X	Х
	transition from idle mode to CELL_FACH state		
8.4.1.17	RRC / Measurement Control and Report: Traffic volume measurement for transition from idle mode to CELL_DCH state	Х	Х

Test case	Description	FDD	LCR TDD
8.4.1.18	RRC / Measurement Control and Report: Traffic volume measurement for transition from CELL_FACH state to CELL_DCH state	Х	
8.4.1.19	RRC / Measurement Control and Report: Traffic volume measurement for transition from CELL_DCH to CELL_FACH state	Х	
8.4.1.23	RRC / Measurement Control and Report: Intra-frequency measurement for events 1C and 1D	Х	
8.4.1.24	RRC / Measurement Control and Report: Inter-frequency measurement for event 2A	Х	Х
8.4.1.24A	Measurement Control and Report: Inter-band measurement for event 2A	Χ	
8.4.1.25	RRC / Measurement Control and Report: Inter-frequency measurement for events 2B and 2E	Х	
8.4.1.25A	Measurement Control and Report: Inter-band measurement for events 2B and 2E	Х	
8.4.1.26	RRC / Measurement Control and Report: Inter-frequency measurement for events 2D and 2F	Х	
8.4.1.27	RRC / Measurement Control and Report: UE internal measurement for events 6A and 6B	Х	
8.4.1.28	Measurement Control and Report: UE internal measurement for events 6F (FDD) and 6G	Х	
8.4.1.29	RRC / Measurement Control and Report: Event based Traffic Volume measurement in CELL_FACH state	Х	
8.4.1.30	RRC / Measurement Control and Report: Event based Traffic Volume measurement in CELL_DCH state	Х	
8.4.1.37	Measurement Control and Report: UE internal measurement, event 6c	Χ	
8.4.1.38	Measurement Control and Report: UE internal measurement, event 6d	Χ	
8.4.1.41	Measurement Control and Report: Additional Measurements list	Χ	
8.4.1.42	Measurement Control and Report: Change of Compressed Mode Method	Χ	

A.4.1 The TTCN Graphical form (TTCN.GR)

The TTCN.GR representation of this ATS is contained in an Adobe Portable Document Format™ file (RRCv650.PDF) which accompanies the present document.

A.4.2 The TTCN Machine Processable form (TTCN.MP)

The TTCN.MP representation corresponding to the corresponding FDD or LCR_TDD ATS is contained in an ASCII file (RRCv650.MP) which accompanies the present document.

A.5 RLC ATS

The approved RLC test cases are listed. An 'X' in columns FDD or LCR TDD indicates the test case approved for the relevant ATS.

Table A.5: RLC TTCN test cases

Test case	Description	FDD	LCR TDD
7.2.2.3	UM RLC / Segmentation / 7-bit Length Indicators / Padding	Х	
7.2.2.4	UM RLC / Segmentation / 7-bit Length Indicators / LI = 0	Х	
7.2.2.5	UM RLC / Segmentation / 7-bit Length Indicators / Invalid LI value	Χ	
7.2.2.6	UM RLC / Segmentation / 7-bit Length Indicators / LI value > PDU	Х	
7.2.2.7	UM RLC / Segmentation / 7-bit Length Indicators / First data octet LI	Х	
7.2.3.4	AM RLC / Segmentation / 7-bit Length Indicators / LI = 0	Χ	
7.2.3.5	AM RLC / Segmentation / 7-bit Length Indicators / Reserved LI value	Χ	
7.2.3.6	AM RLC / Segmentation / 7-bit Length Indicators / LI value > PDU	Χ	
7.2.3.12	AM RLC / Correct use of Sequence Numbering	Χ	X
7.2.3.13	AM RLC / Control of Transmit Window	Χ	
7.2.3.14	AM RLC / Control of Receive Window	Χ	
7.2.3.15	AM RLC / Polling for status / Last PU in transmission queue	Χ	
7.2.3.16	AM RLC / Polling for status / Last PU in retransmission queue	Х	
7.2.3.17	AM RLC / Polling for status / Poll every Poll_PU PUs	Χ	
7.2.3.18	AM RLC / Polling for status / Poll every Poll_SDU SDUs	Χ	
7.2.3.19	AM RLC / Polling for status / Timer triggered polling	Х	
	(Timer_Poll_Periodic)		<u> </u>
7.2.3.20	AM RLC / Polling for status / Polling on Poll_Window of transmission	Χ	
7.0.0.1	window		<u> </u>
7.2.3.21	AM RLC / Polling for status / Operation of Timer_Poll timer / Timer expiry	Х	
7.2.3.22	AM RLC / Polling for status / Operation of Timer_Poll timer / Stopping	Х	
	Timer_Poll timer	1	
7.2.3.23	AM RLC / Polling for status / Operation of Timer_Poll timer / Restart of	Х	
	the Timer_Poll timer		
7.2.3.24	AM RLC / Polling for status / Operation of timer Timer_Poll_Prohibit	Χ	
7.2.3.25	AM RLC / Receiver Status Triggers / Detection of missing PUs	Χ	
7.2.3.26	AM RLC / Receiver Status Triggers / Operation of timer	Х	
	Timer_Status_Periodic	<u> </u>	
7.2.3.27	AM RLC / Receiver Status Triggers / Operation of timer	Х	
	Timer_Status_ Prohibit		
7.2.3.28	AM RLC / Status reporting / Abnormal conditions / Reception of LIST	Χ	
	SUFI with Length set to zero		
7.2.3.32	AM RLC / SDU discard after MaxDAT number of retransmissions	Χ	
7.2.3.33	AM RLC / Operation of the RLC Reset procedure / UE Originated	Χ	
7.2.3.34	AM RLC / Operation of the RLC Reset procedure / UE Terminated	Χ	X
7.2.3.35	AM RLC / Reconfiguration of RLC parameters by upper layers	Χ	

A.5.1 The TTCN Graphical form (TTCN.GR)

The TTCN.GR representation of this ATS is contained in an Adobe Portable Document Format TM file (RLCv650.PDF) which accompanies the present document.

A.5.2 The TTCN Machine Processable form (TTCN.MP)

The TTCN.MP representation corresponding to the corresponding FDD or LCR_TDD ATS is contained in an ASCII file (RLCv650.MP) which accompanies the present document.

A.6 MAC ATS

The approved MAC test cases are listed. An 'X' in columns FDD or LCR TDD indicates the test case approved for the relevant ATS.

Table A.6: MAC TTCN test cases

Test case	Description	FDD	LCR TDD
7.1.1.1	CCCH mapped to RACH/FACH / Invalid TCTF	Х	X
7.1.1.2	DTCH or DCCH mapped to RACH/FACH / Invalid TCTF	Х	X
7.1.1.3	DTCH or DCCH mapped to RACH/FACH / Invalid C/T Field	Х	
7.1.1.4	DTCH or DCCH mapped to RACH/FACH / Invalid UE ID Type Field	Х	
7.1.1.5	DTCH or DCCH mapped to RACH/FACH / Incorrect UE ID	Х	
7.1.1.8	DTCH or DCCH mapped to DCH / Invalid C/T Field	Х	Х
7.1.2.3.1	Correct Selection of RACH parameters (FDD)	Х	
7.1.2.4a	Access Service class selection for RACH transmission	Х	
7.1.3.1	Priority handling between data flows of one UE	Х	X
7.1.3.2	TFC Selection	Х	

A.6.1 The TTCN Graphical form (TTCN.GR)

The TTCN.GR representation of this ATS is contained in an Adobe Portable Document Format™ file (MACv650.PDF) which accompanies the present document.

A.6.2 The TTCN Machine Processable form (TTCN.MP)

The TTCN.MP representation corresponding to the corresponding FDD or LCR_TDD ATS is contained in an ASCII file (MACv650.MP) which accompanies the present document.

A.7 BMC ATS

Table A.7: BMC TTCN test cases

Test case	Description
-	-

A.7.1 The TTCN Graphical form (TTCN.GR)

The TTCN.GR representation of this ATS is contained in an Adobe Portable Document Format TM file (BMC.PDF) which accompanies the present document.

A.7.2 The TTCN Machine Processable form (TTCN.MP)

The TTCN.MP representation corresponding to this ATS is contained in an ASCII file (BMC.MP) which accompanies the present document.

A.8 PDCP ATS

Table A.8: PDCP TTCN test cases

Test case	Description
-	-

A.8.1 The TTCN Graphical form (TTCN.GR)

The TTCN.GR representation of this ATS is contained in an Adobe Portable Document FormatTM file (PDCP.PDF) which accompanies the present document.

A.8.2 The TTCN Machine Processable form (TTCN.MP)

The TTCN.MP representation corresponding to this ATS is contained in an ASCII file (PDCP.MP) which accompanies the present document.

A.9 RAB ATS

The approved RAB test cases are listed. An 'X' in columns FDD or LCR TDD indicates the test case approved for the relevant ATS.

Table A.9: RAB TTCN test cases

Test case	Description	FDD	LCR TDD
14.2.4	Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH	Х	
14.2.4a	Conversational / speech / UL:(12.2 7.95 5.9 4.75) DL:(12.2 7.95 5.9 4.75) kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH	Х	
14.2.5a	Conversational / speech / UL:(10.2, 6.7, 5.9, 4.75) DL:(10.2, 6.7, 5.9, 4.75) kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH	Х	
14.2.7a	Conversational / speech / UL:(7.4, 6.7, 5.9, 4.75) DL:(7.4, 6.7, 5.9, 4.75) kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH	Х	
14.2.9	Conversational / speech / UL:5.9 DL:5.9 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH	Х	
14.2.12	Conversational / unknown / UL:28.8 DL:28.8 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH	Χ	
14.2.13.1	Conversational / unknown / UL:64 DL:64 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH / 20 ms TTI	Х	
14.2.13.2	Conversational / unknown / UL:64 DL:64 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH / 40 ms TTI	Χ	
14.2.14.1	Conversational / unknown / UL:32 DL:32 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH / 20 ms TTI	Χ	
14.2.14.2	Conversational / unknown / UL:32 DL:32 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH / 40 ms TTI	Х	
14.2.15	Streaming / unknown / UL:14.4/DL:14.4 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH	Х	
14.2.16	Streaming / unknown / UL:28.8/DL:28.8 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH	Х	
14.2.17	Streaming / unknown / UL:57.6/DL:57.6 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH	Х	
14.2.23a1	Interactive or background / UL:8 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH	Х	
14.2.23a.2	Interactive or background / UL:8 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH / TC	Х	
14.2.23b	Interactive or background / UL:16 DL:16 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH	Х	
14.2.23c	Interactive or background / UL:32 DL:32 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH	Х	
14.2.26	Interactive or background / UL:64 DL: 64 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH	Х	
14.2.27	Interactive or background / UL:64 DL:128 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH	Х	
14.2.28	Interactive or background / UL:128 DL:128 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH	Х	
14.2.29	Interactive or background / UL:64 DL:144 kbps / PS RAB + UL:3.4 DL: 3.4 kbps SRBs for DCCH	Х	
14.2.31.1	Interactive or background / UL:64 DL:256 kbps / PS RAB + UL:3.4 DL: 3.4 kbps SRBs for DCCH /10 ms TTI	Х	
14.2.32.1	Interactive or background / UL:64 DL:384 kbps / PS RAB + UL:3.4 DL: 3.4 kbps SRBs for DCCH / 10 ms TTI	Х	
14.2.32.2	Interactive or background / UL:64 DL:384 kbps / PS RAB + UL:3.4 DL: 3.4	Х	
14.2.34.1	kbps SRBs for DCCH / 20 ms TTI Interactive or background / UL:384 DL:384 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH / 10 ms TTI	Х	
14.2.38a	Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:0 DL:0 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH	Х	
14.2.38b	Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:8 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH	Х	
14.2.38c	Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:32 DL:32 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH	Х	
14.2.38e	Conversational / speech / UL:(12.2 7.95 5.9 4.75) DL:(12.2 7.95 5.9 4.75) kbps / CS RAB + Interactive or background / UL:0 DL:0 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH	Х	

14.2.38f	Conversational / speech / UL:(12.2 7.95 5.9 4.75) DL:(12.2 7.95 5.9 4.75) kbps / CS RAB + Interactive or background / UL:8 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH	Х	
14.2.40	Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:64 DL:64 kbps / PS RAB+ UL:3.4 DL: 3.4 kbps SRBs for DCCH	Х	
14.2.41	Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:64 DL:128 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH	Х	
14.2.43.1	Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:64 DL:384 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH / 10 ms TTI	Х	
14.2.43.2	Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:64 DL:384 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH / 20 ms TTI	Х	
14.2.49.1	Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Conversational / unknown / UL:64 DL:64 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH / 20 ms TTI	Х	
14.2.51.1	Conversational / unknown / UL:64 DL:64 kbps / CS RAB / 20 ms TTI + Interactive or background / UL:64 DL:64 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH	Х	
14.2.51a.1	Conversational / unknown / UL:64 DL:64 kbps / CS RAB / 20 ms TTI + Interactive or background / UL:8 DL:8 kbps / PS RAB	Х	
14.2.51b.1	Conversational / unknown / UL:64 DL:64 kbps / CS RAB / 20 ms TTI + Interactive or background / UL:16 DL:64 kbps / PS RAB	Х	
14.2.57	Interactive or background / UL:64 DL:64 kbps / PS RAB + Interactive or background / UL:64 DL:64 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH	Х	
14.2.58	Streaming / unknown / UL:16 DL:64 kbps / PS RAB + Interactive or background / UL:8 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.	Х	
14.2.58a	Streaming / unknown / UL:16 DL:128 kbps / PS RAB + Interactive or background / UL:8 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.	Х	
14.4.2.1	One SCCPCH: Interactive/Background 32 kbps PS RAB + SRBs for CCCH + SRB for DCCH + SRB for BCCH	Χ	
14.4.2.2	Two SCCPCHs: Interactive/Background 32 kbps PS RAB + SRBs for CCCH + SRB for DCCH + SRB for BCCH	Χ	
14.4.2.3	One SCCPCH/connected mode: Interactive/Background 32 kbps PS RAB + SRBs for CCCH + SRB for DCCH + SRB for BCCH	Х	
14.4.2a.1	One SCCPCH: Interactive/Background 32 kbps PS RAB + Interactive/Background 32 kbps PS RAB + SRBs for CCCH + SRB for DCCH + SRB for BCCH	Х	
14.4.2a.2	Two SCCPCHs: Interactive/Background 32 kbps PS RAB + Interactive/Background 32 kbps PS RAB + SRBs for CCCH + SRB for DCCH + SRB	Х	
14.4.2a.3	One SCCPCH/connected mode: Interactive/Background 32 kbps PS RAB + Interactive/Background 32 kbps PS RAB + SRBs for CCCH + SRB for DCCH + SRB for BCCH	Х	
14.4.3	Interactive/Background 32 kbps RAB + SRBs for PCCH + SRB for CCCH + SRB for DCCH + SRB for BCCH	Χ	
14.4.4	RB for CTCH + SRB for CCCH +SRB for BCCH	Χ	
18.1.2.6	Conversational / speech / UL:7.95 DL:7.95 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH		Х
18.1.2.7	Conversational / speech / UL:7.4 DL:7.4 kbps / CS RAB+ UL:3.4 DL:3.4 kbps SRBs for DCCH		Х
18.1.2.13.2	Conversational / unknown / UL:64 DL:64 kbps / CS RAB / 40 ms TTI		Χ
18.1.2.15	Streaming / unknown / UL:14.4/DL:14.4 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH		Х
18.1.2.26	Interactive or background / UL:64 DL: 64 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH		Х

A.9.1 The TTCN Graphical form (TTCN.GR)

The TTCN.GR representation of this ATS is contained in an Adobe Portable Document Format™ file (RABv650.PDF) which accompanies the present document.

A.9.2 The TTCN Machine Processable form (TTCN.MP)

The TTCN.MP representation corresponding to the corresponding FDD or LCR_TDD ATS is contained in an ASCII file (RABv650.MP) which accompanies the present document.

A.10 IR_U ATS

The approved IR_U test cases are listed. An 'X' in columns FDD or LCR TDD indicates the test case approved for the relevant ATS.

Table A.10: InterRat TTCN test cases

Test case	Description	FDD	LCR_TDD
6.2.1.1	Selection of the correct PLMN and associated RAT	Х	
6.2.1.6	Selection of RAT for HPLMN; Automatic mode	Χ	
6.2.1.7	Selection of RAT for UPLMN; Automatic mode	Χ	
6.2.1.8	Selection of RAT for OPLMN; Automatic mode	Х	
6.2.1.9	Selection of "Other PLMN / access technology combinations"; Automatic mode	Х	
6.2.2.1	Cell reselection if cell becomes barred or S<0; UTRAN to GSM	Χ	
6.2.2.2	Cell reselection if cell becomes barred or C1<0; GSM to; UTRAN	Χ	
6.2.2.3	Cell reselection timings; GSM to UTRAN	Х	
8.1.2.12	RRC Connection Establishment: Reject with interRATInfo is set to GSM	Х	
8.1.2.13	RRC Connection Establishment: Reject with InterRATInfo is set to GSM and	Х	
	selection to the designated system fails		
8.3.7.1	Inter system handover from UTRAN/To GSM/Speech/Success	Χ	
8.3.7.2	Inter system handover from UTRAN/To GSM/Data/Same data rate/Success	Х	
8.3.7.3	Inter system handover from UTRAN/To GSM/Data/Data rate down grading/Success	Х	
8.3.7.4	Inter system handover from UTRAN/To GSM/Speech/Establishment/Success	Х	
8.3.7.5	Inter system handover from UTRAN/To GSM/Speech/Failure	Х	
8.3.7.7	Inter system handover from UTRAN/To GSM/Speech/Failure (L1 Synchronization)	Х	
8.3.7.9	Inter system handover from UTRAN/To GSM/Speech/Failure (Unsupported	Х	
8.3.7.12	configuration) Inter system handover from UTRAN/To GSM/Speech/Failure (Physical channel	Х	
	Failure and Reversion Failure)		
8.3.7.13	Inter system handover from UTRAN/To GSM/ success / call under establishment	Χ	
8.3.7.16	Inter system handover from UTRAN/To GSM/Simultaneous CS and PS domain services/Success/TBF Establishment Success	Х	
8.3.7.17	Inter system handover from UTRAN/To GSM/DTM Support/Simultaneous CS and PS domain services/Success	Х	
8.3.9.1	Cell reselection if cell becomes barred or S<0; UTRAN to GPRS (CELL_FACH)	Х	
8.3.9.3	Cell reselection fails if S<0; UTRAN to GPRS (CELL_FACH)	X	
8.3.9.5	Cell Reselection with RAU - Qoffset value modification; UTRAN to GPRS	X	
0.0.0.0	(CELL FACH)	•	
8.3.11.1	Cell change order from UTRAN/To GPRS/CELL_DCH/Success	Х	
8.3.11.4	Cell change order from UTRAN/To GPRS/CELL_DCH/Failure (Physical channel & Reversion Failure)	Х	
8.4.1.31	RRC / Measurement Control and Report: Inter-RAT measurement in CELL_DCH state	Х	
8.4.1.33	Measurement Control and Report: Inter-RAT measurement, event 3a	Х	
8.4.1.34	Measurement Control and Report: Inter-RAT measurement, event 3b	X	
8.4.1.35	Measurement Control and Report: Inter-RAT measurement, event 3c	X	
8.4.1.36	Measurement Control and Report: Inter-RAT measurement, event 3d	X	
8.4.1.40	Measurement Control and Report: Inter-RAT measurement event 3C in CELL_DCH	X	
	state using sparse compressed mode pattern		
8.4.1.48	Measurement Control and Report: Combined Inter-frequency measurement for event 2b and Inter-RAT measurement, event 3a (FDD)	Х	
12.8	GMM READY timer handling	Х	

A.10.1 The TTCN Graphical form (TTCN.GR)

The TTCN.GR representation of this ATS is contained in an Adobe Portable Document Format $^{\text{TM}}$ file (IR_Uv650.PDF) which accompanies the present document.

A.10.2 The TTCN Machine Processable form (TTCN.MP)

The TTCN.MP representation corresponding to the corresponding FDD or LCR_TDD ATS is contained in an ASCII file (IR_Uv650.MP) which accompanies the present document.

A.11 AGPS ATS

The approved AGPS test cases are listed. An 'X' in columns FDD or LCR TDD indicates the test case approved for the relevant ATS.

Table A.11: AGPS TTCN test cases

Test case	Description	FDD	LCR_TDD
17.2.2.1	LCS Network Induced location request/ UE-Based GPS/ Emergency Call / with USIM	Х	
17.2.2.2	LCS Network Induced location request/ UE-Based GPS/ Emergency Call / without USIM	Х	
17.2.2.3	LCS Network induced location request/ UE-Assisted GPS/ Emergency call/ With USIM	Х	
17.2.2.4	LCS Network induced location request/ UE-Assisted GPS/ Emergency call/ Without USIM	Х	
17.2.3.2	LCS Mobile originated location request/ UE-Based GPS/ Position estimate request/ Success	Х	
17.2.3.3	LCS Mobile originated location request/ UE-Based or UE-Assisted GPS/ Assistance data request/ Success	Х	
17.2.3.4	LCS Mobile originated location request/ UE-Assisted GPS/ Position Estimate/ Success	Х	
17.2.3.8	LCS Mobile originated location request/ UE-Based or UE-Assisted GPS/ Assistance data request/ Failure	Х	
17.2.3.9	LCS Mobile originated location request/ UE-Assisted GPS/ Position Estimate/ Success	Х	
17.2.4.1	LCS Mobile terminated location request/ UE-Based GPS	Χ	
17.2.4.2	LCS Mobile-terminated location request/UE-Based GPS/ Request for additional assistance data/ Success	Х	
17.2.4.3	LCS Mobile-terminated location request/UE-Based GPS/ Failure – Not Enough Satellites	Х	
17.2.4.4	LCS Mobile terminated location request/ UE-Assisted GPS/ Success	Х	
17.2.4.5	LCS Mobile terminated location request/ UE-Assisted GPS/ Request for additional assistance data/ Success	Х	
17.2.4.6	LCS Mobile terminated location request/ UE-Based GPS/ Privacy Verification/ Location Allowed if No Response	Х	
17.2.4.7	LCS Mobile terminated location request/ UE-Based GPS/ Privacy Verification/ Location Not Allowed if No Response	Х	
17.2.4.8	LCS Mobile terminated location request/ UE-Assisted GPS/ Privacy Verification/ Location Allowed if No Response	Х	
17.2.4.9	LCS Mobile terminated location request/ UE-Assisted GPS/ Privacy Verification/ Location Not Allowed if No Response	Х	

A.11.1 The TTCN Graphical form (TTCN.GR)

The TTCN.GR representation of this ATS is contained in an Adobe Portable Document FormatTM file (AGPSv650.PDF) which accompanies the present document.

A.11.2 The TTCN Machine Processable form (TTCN.MP)

The TTCN.MP representation corresponding to the corresponding FDD or LCR_TDD ATS is contained in an ASCII file (AGPSv650.MP) which accompanies the present document.

A.12 HSD_ENH ATS

The approved HSD_ENH test cases are listed. An 'X' in columns FDD or LCR TDD indicates the test case approved for the relevant ATS.

Table A.12: HSDPA and Rel-5 enhancement TTCN test cases

Test case	Description	FDD	LCR_TDD
6.1.2.10	HCS inter-frequency cell reselection	Χ	
6.1.2.10a	HCS inter-frequency cell reselection for inter-band operation	Χ	
7.1.5.1	MAC-hs reordering and stall avoidance	X	
7.1.5.2 7.1.5.3	MAC-hs priority queue handling	X	
7.1.5.3 7.1.5.4	MAC-hs PDU header handling MAC-hs retransmissions	X	
7.1.5.5	MAC-hs reset	X	
7.1.5.6	MAC-hs transport block size selection	X	
8.1.2.14	RRC Connection Establishment using the default configuration for 3.4 kbps	X	
	signalling bearers		
8.1.2.15	RRC Connection Establishment using the default configuration for 13.6 kbps signalling bearers	Χ	
8.1.6.5	Initial Direct Transfer: Inclusion of establishment cause	X	
8.2.1.27	RRC / Radio Bearer Establishment for transition from CELL_DCH to	Х	
	CELL_DCH: Success (two radio links, start of HS-DSCH reception)		
8.2.1.28	RRC/Radio Bearer Establishment for transition from CELL_DCH to CELL_DCH: Success (RB mapping for both DL DCH and HS-DSCH in cell without HS-DSCH support)	Χ	
8.2.1.29	Radio Bearer Establishment for transition from CELL_DCH to CELL_DCH: Success (Timing re-initialized hard handover to another frequency, uplink TFCS restriction and start of HS-DSCH reception)	Х	
8.2.1.30	Radio Bearer Establishment for transition from CELL_DCH to CELL_DCH: Success (Timing re-initialised hard handover to another frequency, start of HSDSCH reception)	Х	
8.2.1.31	Radio Bearer Establishment for transition from CELL_FACH to CELL_DCH: Success (start of HS-DSCH reception)	Х	
8.2.1.32	Radio Bearer Establishment for transition from CELL_FACH to CELL_DCH: Success (start of HS-DSCH reception with frequency modification)	Х	
8.2.2.36	RRC / Radio Bearer Reconfiguration for transition from CELL_DCH to CELL_DCH: Success (Start and stop of HS-DSCH reception)	Х	
8.2.2.38	Radio Bearer Reconfiguration from CELL_DCH to CELL_DCH: Success (with active HS-DSCH reception)	Χ	
8.2.2.39	Radio Bearer Reconfiguration for transition from CELL_DCH to CELL_DCH: Success (Timing re-initialised hard handover to another frequency, start and stop of HS-DSCH reception)	Х	
8.2.2.40	Radio Bearer Reconfiguration for transition from CELL_DCH to CELL_FACH and from CELL_FACH to CELL_DCH: Success (frequency band modification, start and stop of HS-DSCH reception)	Х	
8.2.2.41	Radio Bearer Reconfiguration for transition from CELL_DCH to CELL_DCH: Success (Start and stop of HS-DSCH reception, during an active CS bearer)	Χ	
8.2.2.42	Radio Bearer Reconfiguration for transition from CELL_DCH to CELL_DCH: Success (Timing re-initialised hard handover to another frequency, start and stop of HS-DSCH reception, during an active CS bearer)	Х	
8.2.2.50	Radio Bearer Reconfiguration from CELL_DCH to CELL_DCH: Success (from speech to speech plus PS data with modification of downlink spreading factor)	Х	
8.2.3.30	RRC / Radio Bearer Release for transition from CELL_DCH to CELL_DCH: Success (stop of HS-DSCH reception)	Х	
8.2.3.31	Radio Bearer Release for transition from CELL_DCH to CELL_DCH: Success (With active HS-DSCH reception)	Х	
8.2.3.32	Radio Bearer Release for transition from CELL_DCH to CELL_DCH: Success (Timing re-initialised hard handover to another frequency, with active HS-DSCH reception)	Х	
8.2.3.33	Radio Bearer Release for transition from CELL_DCH to CELL_DCH: Success (stop of HS-DSCH reception with frequency modification)	Х	
8.2.3.34	Radio Bearer Release for transition from CELL_DCH to CELL_FACH: Success (stop of HS-DSCH reception with frequency modification)	Х	
8.2.3.35	Radio Bearer Release for transition from CELL_DCH to CELL_PCH: Success (stop of HS-DSCH reception)	Х	
8.2.4.36	Transport Channel Reconfiguration from CELL_DCH to CELL_DCH: Success (with active HS-DSCH reception, not changing the value of TTI during UL rate modification)	Х	
8.2.6.39a	Physical Channel Reconfiguration for transition from CELL_DCH to CELL_DCH: Success (serving HS-DSCH cell change without MAC-hs reset)	Х	
	Physical Channel Reconfiguration for transition from CELL_DCH to	Χ	

	CELL_DCH: Success (serving HS-DSCH cell change with MAC-hs reset)		
8.2.6.40	Physical Channel Reconfiguration for transition from CELL_DCH to CELL_DCH: Success (Two radio links, change of HS-PDSCH configuration)	X	
8.2.6.41	Physical Channel Reconfiguration for transition from CELL_DCH to CELL_DCH: Success (Timing re-initialised hard handover to another frequency, signalling only)	Х	
8.2.6.42	Physical Channel Reconfiguration for transition from CELL_DCH to CELL_DCH: Success (Timing re-initialized hard handover to another frequency, Serving HS-DSCH cell change)	Х	
8.2.6.46	Physical channel reconfiguration for transition from CELL_DCH to CELL_DCH (Hard handover to another frequency with timing re-initialised. Serving HS-DSCH cell change): Failure (Physical channel failure and reversion to old channel)	Х	
8.2.6.48	Physical Channel Reconfiguration for transition from CELL_DCH to CELL_DCH: Success (Timing re-initialized hard handover to another frequency, serving HS-DSCH cell change, compressed mode)	Х	
8.2.6.49	Physical Channel Reconfiguration from CELL_DCH to URA_PCH: Success (stop of HS-DSCH reception)	Х	
8.3.1.32	Cell Update: Transition from URA_PCH to CELL_DCH, start of HS-DSCH reception	Х	
8.3.1.33	Cell Update: Transition from CELL_PCH to CELL_DCH, start of HS-DSCH reception, frequency band modification	Х	
8.3.1.34	Cell Update: Transition from CELL_DCH to CELL_FACH, stop of HS-DSCH reception	Х	
8.3.1.35	Cell Update: Transition from CELL_DCH to CELL_DCH, with active HS-DSCH reception	Х	
8.3.1.36	Cell Update: Transition from CELL_DCH to CELL_FACH (stop of HS-DSCH reception with frequency modification)	Х	
8.3.1.37	Cell Update: Transition from CELL_DCH to CELL_DCH (with active HS-DSCH reception and frequency modification)	Х	
8.3.1.38	Cell Update: state specific handling of Treselection and Qhyst for cell reselection in CELL_FACH	Х	
8.3.1.39	Cell Update: state specific handling of Treselection and Qhyst for cell reselection in CELL_PCH	Х	
8.3.1.40	Cell update: Transition from CELL_PCH to CELL_DCH, inclusion of establishment cause	Х	
8.3.4.9	Active set update in soft handover: Radio Link removal (stop of HS-PDSCH reception)	Х	
8.3.7.14	Inter system handover from UTRAN/To GSM/Speech/Success (stop of HS-DSCH reception)	Х	
8.3.11.9	Inter-RAT Cell Change Order from UTRAN to GPRS/CELL_DCH/Success (stop of HS-DSCH reception)	Х	
8.3.11.10	Inter-RAT Cell Change Order from UTRAN to GPRS/CELL_DCH/Failure (Physical channel Failure, stop of HS-DSCH reception)	Х	
8.3.11.12	Inter-RAT cell change order from UTRAN/To GPRS/CELL_DCH/Network Assisted Cell Change/Success	Х	
8.3.11.13	Inter-RAT cell change order from UTRAN/To GPRS/CELL_DCH/Failure (T309 expiry)	Х	
8.4.1.47	Measurement Control and Report: Event triggered periodic measurement for event 1B (FDD)	Х	
14.2.4b	Conversational / speech / UL:(12.2 7.4 5.9 4.75) DL:(12.2 7.4 5.9 4.75) kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH + DL:0.15 kbps SRB#5 for DCCH	Х	
14.2.62	Conversational / speech / UL:(12.65 8.85 6.6) DL:(12.65 8.85 6.6) kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH + DL:0.15 kbps SRB#5 for DCCH.	Х	
14.6.1	Interactive or background / UL:64 DL: [max bit rate depending on UE category] / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH	Х	
14.6.1a	Interactive or background / UL:128 DL: [max bit rate depending on UE category] / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH	Х	
14.6.2	Interactive or background / UL:384 DL: [max bit rate depending on UE category] / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH	X	
14.6.3	Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:384 DL:[Bit rate depending on the UE category] / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH	X	
14.6.3a	Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL: 64 DL:[Bit rate depending on the UE category] / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH	Х	

14.6.4	Conversational / unknown / UL:64 DL:64 kbps / CS RAB + Interactive or background / UL:384 DL:[Bit rate depending on the UE category] / PS RAB +	Х	
14.6.4a	UL:3.4 DL:3.4 kbps SRBs for DCCH Conversational / unknown / UL:64 DL:64 kbps / CS RAB + Interactive or background / UL:64 DL:[Bit rate depending on the UE category] / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH	Х	
14.6.5	Interactive or background / UL:384 DL:[Bit rate depending on the UE category] / PS RAB + Interactive or background / UL:384 DL:[Bit rate depending on the UE category] / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH	Х	
14.6.5a	Interactive or background / UL:64 DL:[Bit rate depending on the UE category] / PS RAB + Interactive or background / UL:64 DL:[Bit rate depending on the UE category] / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH	Х	
14.6.6	Streaming / unknown / UL:128 DL: [min 128, max bit rate depending on UE category] kbps / PS RAB + Interactive or background / UL:128 DL: [max bit rate depending on UE category] / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH	Х	
14.6.7	Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Streaming / unknown / UL:128 DL: [guaranteed 128, max bit rate depending on UE category] kbps / PS RAB + Interactive or background / UL:128 DL: [max bit rate depending on UE category] / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH	Х	
14.6.8	Conversational / speech / UL:(12.65 8.85 6.6) DL:(12.65 8.85 6.6) kbps / CS RAB + Interactive or Background / UL:384 DL:[Bit rate depending on the UE category] / PS RAB+ UL:3.4 DL:3.4 kbps SRBs for DCCH + DL:0.15 kbps SRB#5 for DCCH	Х	

A.12.1 The TTCN Graphical form (TTCN.GR)

The TTCN.GR representation of this ATS is contained in an Adobe Portable Document FormatTM file (HSD_ENHv650.PDF) which accompanies the present document.

A.12.2 The TTCN Machine Processable form (TTCN.MP)

The TTCN.MP representation corresponding to the corresponding FDD or LCR_TDD ATS is contained in an ASCII file (HSD_ENHv650.MP) which accompanies the present document.

A.13 HSU_ENH ATS

The approved HSU_ENH test cases are listed. An 'X' in columns FDD or LCR TDD indicates the test case approved for the relevant ATS.

Table A.13: EDCH and Rel-6 enhancement TTCN test cases

Test case	Description	FDD	LCR_TDD
6.2.2.4	Cell reselection in multi-mode shared network environment	Χ	
6.2.2.5	Cell reselection using SIB18; UTRAN to GSM	Х	
7.1.6.1.1	MAC-es/e multiplexing without RRC restrictions	Х	
7.1.6.1.2	MAC-es/e multiplexing with RRC restrictions	Χ	
7.1.6.1.3	Correct settings of MAC-es/e header fields	Х	
7.1.6.2.1	Correct settings of MAC-es/e scheduling information	Х	
7.1.6.2.2	Happy bit setting	Χ	
7.1.6.2.3	MAC-es/e non-scheduled transmissions	Х	
7.1.6.2.4	MAC-es/e correct handling of scheduled transmissions when absolute grant varies	Х	
7.1.6.2.7	MAC-es/e correct handling of absolute grants on Primary and Secondary E-RNTI	Х	
7.1.6.2.8	MAC-es/e combined non-scheduled and scheduled transmissions	Х	
7.1.6.2.9	MAC-es/e Correct handling of HARQ profile power offsets	X	
7.1.6.2.10	MAC-es/e Correct handling of minimum set of E-TFCI	X	
7.1.6.3.1	MAC-es/e E-TFC priority	X	
7.1.6.4.2	MAC-es/e maximum number of retransmissions	Х	
7.1.6.4.3	MAC-es/e Correct handling of MAC-es/e reset	X	
8.1.2.16	RRC Connection Establishment / Domain Specific Access Control: Success	X	
8.2.1.35	Radio Bearer Establishment for transition from CELL_DCH to CELL_DCH:	Х	
	Success (start of E-DCH transmission)	.,	
8.2.1.36	Radio Bearer Establishment for transition from CELL_DCH to CELL_DCH:	Х	
0.0.0.11	Success (hard handover to another frequency, start of E-DCH transmission)		
8.2.2.44	Radio Bearer Reconfiguration from CELL_DCH to CELL_DCH: Success (With	Х	
0.0.0.45	active E-DCH transmission)		
8.2.2.45	Radio Bearer Reconfiguration for transition from CELL_FACH to CELL_DCH and	Х	
0.0.0.40	CELL_DCH to CELL_FACH: Success (start and stop of E-DCH transmission)	V	
8.2.2.46	Radio Bearer Reconfiguration for transition from CELL_DCH to CELL_DCH:	Х	
	Success (hard handover to another frequency, start and stop of E-DCH transmission)		
8.2.2.47	Radio Bearer Reconfiguration for transition from CELL_FACH to CELL_DCH and	Х	
0.2.2.47	CELL_DCH to CELL_FACH: Success (frequency modification, start and stop of E-	^	
	DCH transmission)		
8.2.3.36	Radio Bearer Release for transition from CELL_DCH to CELL_DCH: Success	Χ	
0.2.0.00	(frequency modification, stop of E-DCH transmission)		
8.2.2.48	Radio Bearer Reconfiguration for transition from CELL_DCH to CELL_DCH:	Χ	
	Success (Start and stop of E-DCH transmission)		
8.2.6.50	Physical Channel Reconfiguration for transition from CELL_DCH to URA_PCH:	Х	
	Success (frequency modification, stop of E-DCH transmission)		
8.2.6.51	Physical Channel Reconfiguration for transition from CELL_DCH to CELL_DCH:	Х	
	Success (serving E-DCH cell change)		
8.2.6.54	Physical Channel Reconfiguration for transition from CELL_DCH to CELL_DCH:	Х	
	Failure (Timing re-initialized hard handover, Serving E-DCH cell change, physical		
	channel failure and reversion to old channel)		
8.3.1.41	Cell Update: Transition from URA_PCH to CELL_DCH: Success (start of E-DCH	Х	
	transmission)		
8.3.4.10	Active set update in soft handover: Radio Link addition and serving HS-DSCH / E-	Χ	
	DCH cell change	,,	
8.3.11.14	Inter-RAT Cell Change Order from UTRAN to GPRS/CELL_DCH/Success (stop of	Х	
2 4 4 42	E-DCH transmission)		
8.4.1.49	Measurement Control and Report: Intra-frequency measurement for event 1J	X	
9.4.3.6	Location updating /abnormal cases / CS domain is changed from barred to	Х	
9.5.9	unbarred because of domain specific access control MM connection / abnormal cases / CS domain barred because of domain specific	Х	
9.5.9	access control	^	
12.2.1.12	PS attach / abnormal cases / access barred due to domain specific access	Х	1
12.2.1.12	restriction for PS domain	^	
12.4.2.11	Combined routing area updating / abnormal cases / access barred due to domain	Х	
14.7.4.11	specific access restriction for CS domain	^	
12.4.2.12	Combined routing area updating / abnormal cases / access barred due to domain	Х	
12.7.2.12	specific access restriction for PS domain	^	
12.9.15	Service Request / abnormal cases / access barred due to domain specific access	Х	
	restriction for PS domain	, ,	
14.7.1	Interactive or background / UL: [max bit rate depending on UE category and TTI]	Χ	
	DL: [max bit rate depending on UE category] / PS RAB + UL:3.4 DL:3.4 kbps		
	SRBs for DCCH on DCH		

14.7.8	Conversational / speech / UL:(12.65 8.85 6.6) DL:(12.65 8.85 6.6) kbps / CS RAB + Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] DL: [max bit rate depending on UE category] / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH + DL:0.15 kbps SRB#5 for DCCH	Х	
14.7.5	Streaming or interative or background / UL:[max bit rate depending on UE category and TTI] DL: [max bit rate depending on UE category] kbps / PS RAB + Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] DL: [max bit rate depending on UE category] / PS RAB + UL:[max bit rate depending on UE category and TTI] DL:3.4 kbps SRBs for DCCH on E-DCH and DL DCH	Х	
14.7.4	Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] DL: [max bit rate depending on UE category] / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH	Х	
14.7.2	Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] DL: [max bit rate depending on UE category] / PS RAB + UL:[max bit rate depending on UE category and TTI] DL:3.4 kbps SRBs for DCCH on E-DCH and DL DCH	Х	

A.13.1 The TTCN Graphical form (TTCN.GR)

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A.13.2 The TTCN Machine Processable form (TTCN.MP)

The TTCN.MP representation corresponding to the corresponding FDD or LCR_TDD ATS is contained in an ASCII file (HSU_ENHv650.MP) which accompanies the present document.

Annex B (normative): Partial IXIT proforma

Notwithstanding the provisions of the copyright related to the text of the present document, The Organizational Partners of 3GPPgrant that users of the present document may freely reproduce the partial IXIT proforma in this annex so that it can be used for its intended purposes and may further publish the completed partial IXIT.

B.0 Introduction

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 comments for guidance for the production of a 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.

B.1 Parameter values

B.1.1 BasicM test suite parameter declarations

The following parameters are common to all ATSs.

Table B.1: BasicM PIXIT

Parameter name	Description	Туре	Default value	Supported value
px_AuthAMF	Authentication Management Field (16 bits). The value shall be different from '1111 1111 1111 1111 (AMFresynch).	BITSTRING	See note 2	
px_AuthK	Authentication Key (128 bits)	BITSTRING	'0101111001001 0101011001101 011000100100	
px_AuthN	Value of n to initialize tcv_Auth_n (length of extended response) min 31, max 127 (3GPP TS 34.108 [3] clause 8.1.2)	INTEGER	127	
px_AuthRAND	Random Challenge (128 bits)	BITSTRING	'0101010101' B	
px_CipherAlg	Cipher algorithm.	B3	Default value: (GEA/1) '001'B	
px_CipheringOnOff	Security mode - TRUE if ciphering is applicable	BOOLEAN	TRUE	
px_CN_DomainTested	CN domain to be tested. This parameter is used in test cases that handle both PS and CS domains.	CN_DomainI dentity	ps_domain	
px_DL_MaxCC_TB_bits	Maximum sum of number of bits of all convolutionally coded transport blocks being received at an arbitrary time instant.	MaxNoBits	b163840	

Parameter name	Description	Туре	Default value	Supported value
px_DL_MaxCCTrCH	Maximum number of Simultaneous CCTrCH for downlink	MaxSimultan eousCCTrCH _Count	8	
px_DL_MaxTB_bits	Maximum sum of number of bits of all transport blocks being received at an arbitrary time instant.	MaxNoBits	b163840	
px_DL_MaxTF	Maximum number of TF for downlink	MaxNumber OfTF	tf1024	
px_DL_MaxTFS	Maximum number of TFC in the TFCS for downlink	MaxNumber OfTFC_DL	tfc1024	
px_DL_MaxTrCHs	Maximum number of simultaneous transport channels for downlink.	MaxSimultan eousTransCh sDL	e32	
px_DL_MaxTTI_TB	Maximum total number of transport blocks received within TTIs that end within the same 10 ms interval.	MaxTranspor tBlocksDL	tb512	
px_FRESH	Value for FRESH	Fresh	See note 1	
px_FDD_OperationBand	Applicable for FDD The operation band under test as defined in 34.108 clause 5.1.1.	INTEGER	1, see note 3	px_UARFCN_D_ Mid, px_UARFCN_D_L ow and px_UARFCN_D_ High shall take the values according to the value of px_FDD_Operatio nBand.
px_IMSI_Def	Default IMSI value	HEXSTRING	'0010101234560 63'H	
px_IP_Version	IP version under test	IP_VersionTy	IPv4	
px_JapanMCC	Japan MCC to be used for Band VI	HEXSTRING	'442'H	
px_PriScrmCode	Applicable for FDD Primary scrambling code	PrimaryScra mblingCode	100	
px_MaxAM_EntityNumber RLC_Cap	Maximum AM Entity Number for RLC.	MaximumAM _EntityNumb erRLC_Cap	am30	
px_MaxNoDPDCH_BitsTra nsmitted	Part of UL_PhysChCapabilityFDD	MaxNoDPDC H_BitsTrans mitted	b57600	
px_MaxNoDPCH_PDSCH_ Codes	Part of DL_PhysChCapabilityFDD. INTEGER (18).	INTEGER	8	
px_MaxNoPhysChBitsRec eived	Part of DL_PhysChCapabilityFDD.	MaxNoPhys ChBitsReceiv ed	b76800	
px_MaxRLC_WindowSize	Maximum RLC window size.	MaximumRL C_WindowSi ze	mws4095	
px_MS_ClsmkESIND	default Early Sending Indication	B1	'0'B	
px_MS_ClsmkRevLvl	default Revision Level	B2	'10'B	
px_PTMSI_Def	default PTMSI	OCTETSTRI NG	'C2345678'O	
px_PTMSI_SigDef	default PTMSI signature (3 octets, 3GPP 24.008 [9], clause 10.5.5.8).	OCTETSTRI NG	'AB1234'O	
px_RAT	Applicable for FDD This parameter is used to specify which radio access technology is being used for the current test execution. Valid values: fdd and tdd	RatType	fdd	
px_RRC_CS_ServTested	CS service to be tested for RRC test cases.	RRC_ServTe sted	Speech	
px_RRC_PS_ServTested	PS service to be tested for RRC test cases.	RRC_ServTe sted	ps_Interactive	

Parameter name	Description	Туре	Default value	Supported value
px_SRNC_Id	SRNC Id	SRNC_Identi ty	'0000 0000 0001'B	
px_SRNTI	S RNTI	S_RNTI	'0000 0000 0000 0000 0001'B	
px_TCellA	TCell value for cell A. Except for the first created cell, the value 0 applied in ts_SS_CellCfg.	Tcell	256	
px_TCellB	TCell value for cell B. Except for the first created cell, the value 0 applied in ts_SS_CellCfg.	Tcell	512	
px_TCellC	TCell value for cell C. Except the first created cell, the value 0 applied in ts_SS_CellCfg.	Tcell	1536	
px_TCellD	TCell value for cell D. Except the first created cell, the value 0 applied in ts_SS_CellCfg.	Tcell	321	
px_TCellE	TCell value for cell E. Except the first created cell, the value 0 applied in ts_SS_CellCfg.	Tcell	833	
px_TCellF	TCell value for cell F. Except the first created cell, the value 0 applied in ts_SS_CellCfg.	Tcell	6577	
px_TCellG	TCell value for cell G. Except the first created cell, the value 0 applied in ts_SS_CellCfg.	Tcell	7253	
px_TCellH	TCell value for cell H. Except the first created cell, the value 0 applied in ts_SS_CellCfg.	Tcell	4351	
px_TimerDequeuePCO	Additional time for dequeueing PCO	INTEGER	5000 (ms)	
px_TMSI_Def	Default TMSI	OCTETSTRI NG	'12345678'O	
px_TotalRLC_AM_BufferSi ze	Total RLC AM buffer size.	TotalRLC_A M_BufferSize	NA	
px_UARFCN_D_Mid	Applicable for FDD Mid Range downlink UARFCN value	INTEGER	10700	
px_UARFCN_D_Low	Applicable for FDD Low Range downlink UARFCN value	INTEGER	10563	
px_UARFCN_D_High	Applicable for FDD High Range downlink UARFCN value	INTEGER	10837	
px_UE_OpModeDef	Default UE operation mode (either opModeA or opModeC). (For most UEs this corresponds class-A or class-C, and can not be changed by the user)	UE_Operatio nMode	opModeA	
px_UE_PositioningNetwork AssistedGPS_Sup	UE positioning capability: supports the network assisted GPS	pported	networkBased	
px_UE_PowerClass	UE_PowerClass value.	UE_PowerCl ass	1	
px_UL_MaxCC_TB_bits	Maximum sum of number of bits of all convolutionally coded transport blocks being transmitted at an arbitrary time instant.	MaxNoBits	b163840	
px_UL_MaxTB_bits	Maximum sum of number of bits of all transport blocks being transmitted at an arbitrary time instant.	MaxNoBits	b163840	
px_UL_MaxTF	Maximum number of TF for uplink.	MaxNumber OfTF	tf1024	
px_UL_MaxTFS	Maximum number of TFC in the TFCS for uplink.	MaxNumber OfTFC_DL	tfc1024	
px_UL_MaxTrCHs	Maximum number of simultaneous transport channels for uplink.	MaxSimultan eousTransCh sUL	e32	
px_UL_MaxTTI_TB	Maximum total number of transport blocks transmitted within TTIs that start at the same time.	MaxTranspor tBlocksUL	tb512	

Para	meter name	Description	Type	Default value	Supported value
px_UL_So	cramblingCode	Applicable for FDD UL scrambling code value to be used by UE.	UL_Scrambli ngCode	0	
NOTE 1:	NOTE 1: No default value can be proposed (Manufacturer defined value).				
NOTE 2:	No default value	can be proposed, because not enough ir	nformation is av	ailable in 3GPP T	S 34.109 [4]
	clause 8.1.2.				
NOTE 3:	NOTE 3: This value shall be set in synchronization with the values that are being set for the 3 other pixits viz:				
	px UARECN D High, px UARECN D Mid, px UARECN D Low				-

B.1.2 L3M test suite parameters declarations

The following parameters are commonly used in the RRC and NAS ATSs.

Table B.2: L3M PIXIT

Parameter name	Description	Туре	Default value	Supported value
px_3G324M_MmediaEnabl e	For a Multimedia UE: set to TRUE if a multimedia call is enabled; set to FALSE if a speech call is enabled.	BOOLEAN	TRUE	
px_BcapDataCompression	Data compression supported (used in the Bearer Capability)	B1	'0'B	
px_BcapFNUR	Fixed Network User rate supported: '00001'B: FNUR 9.6 kbit/s '00010'B: FNUR 14.4 kbit/s '00011'B: FNUR 19.2 kbit/s '00100'B: FNUR 28.8 kbit/s '00101'B: FNUR 38.4 kbit/s '00110'B: FNUR 48.0 kbit/s '00111'B: FNUR 56.0 kbit/s '01000'B: FNUR 64.0 kbit/s '01001'B: FNUR 33.6 kbit/s '01010'B: FNUR 32.0 kbit/s	B5	'00001'B	
px_BcapITC	Information transfer capability supported (used for the generation of the Bearer Capability) 0 - UDI 1 - RDI 2 - 31 kHz Audio 3 - Other	ItcInt	2	
px_BcapModemType	Modem type supported (used in the Bearer Capability)	B5	'00110'B	
px_BcapNumberDataBits	Number of data bits supported (used in the Bearer Capability)	B1	'1'B	
px_BcapNumberStopBits	Number of Stops bits supported (used in the Bearer Capability)	B1	'1'B	
px_BcapOtherModemType	Other modem type supported (used in the Bearer Capability)	B2	'10'B	
px_BcapParity	Parity supported (used in the Bearer Capability)	В3	'011'B	
px_BcapSACP	Signalling access protocol supported (used in the Bearer Capability)	В3	'001'B	
px_BcapSyncAsync	Synchronous '0'B or Asynchronous '1'B mode supported by IUT	B1	'1'B	
px_BcapUeFlowControl	UE flow control. 0-outband, 1-inband, 2-no flow control. 3- X.25 4- X.75 Default: 0, outband flow control	FlowControl	0	
px_CC_CallDiallingDigits	Dialling digits used to initiate a CC MO call (used with the AT dial D command).	IA5String	"0123456902"	
px_CC_Serv	Service selected for Mobile Originated	Services	"31kHz"	

Parameter name	Description	Туре	Default value	Supported value
px_3G324M_MmediaEnabl e	For a Multimedia UE: set to TRUE if a multimedia call is enabled; set to FALSE if a speech call is enabled.	BOOLEAN	TRUE	
	calls and Mobile Terminated calls. The possible values are ("Telephony", "EmergencyCall", "31kHz", "V110", "V120", "PIAFS", "FTM", "X31", "BTM", "MmediaCall")			
px_DeltaSS_DelayTime	Tdelta value (refer to 34.108 clause 4.2.3) in ms.	INTEGER	55ms	
px_EmergencyCallNumber	Emergency Number used by UE to initiate an emergency call	EmergencyN umber	"112"	
px_IMEI_Def	Default IMEI value	HEXSTRING	See note 1	
px_IMEISV_Def	Default IMEISV value	HEXSTRING	See note 1	
px_IMSI_Diff	Different IMSI from the IMSI stored in the USIM	HEXSTRING	'0010106543210 63'H	
px_SupportOpModeC	TRUE if UE supports operation mode C, i.e. UE offers PS services only (see 3GPP 23.060 clause 4.1 and 3GPP 24.008)	BOOLEAN	TRUE	
px_NwOrgPDP_Support	This indicates if the UE implementation supports network originated PDP Context. TRUE indicates, supported FALSE indicate, not supported	BOOLEAN	FALSE	
px_PDP_IP_AddrInfoDCH	A string parameter that identifies the MT in the address space applicable to the PDP for DCH.	IA5String	"200.1.1.80"	
px_PDP_IP_AddrInfoFAC H	A string parameter that identifies the MT in the address space applicable to the PDP for FACH.	IA5String	"200.1.1.90"	
px_PTMSI_2	Second PTMSI used for testing.	OCTETSTRI NG	'C9876543'O	
px_PTMSI_Sig2	Second PTMSI signature used for testing.	OCTETSTRI NG	'AB1234'O	
px_TMSI_2	Second TMSI value for testing	OCTETSTRI NG	'09876543'O	
px_SMS_IndexOffset	SMS index offset for the numbering of short messages, value range: (0,1)	INTEGER	0	
NOTE 1: No default value	can be proposed (Manufacturer defined	value).	<u> </u>	

B.1.3 NAS test suite parameters declarations

The following parameters are commonly used in the NAS ATS.

Table B.3: NAS PIXIT

Parameter name	Description	Туре	Default value	Supported value
px_AuthRAND_2	A second Random Challenge (128 bits)	BITSTRING	'101010110'B	
px_AutocallingBlacklistNum ber	Number of B-party numbers that can be stored in the list of blacklisted numbers	INTEGER	20	
px_AutocallingCause1or2	Cause value of category 1 or 2 to be used in TC_17_1_3	INTEGER	18	
px_AutocallingNumber	Called number to be used for auto calling	IA5String	"0613454120"	
px_AutocallingRepeatCat1o r2	Number of repeat attempt done for the category 1 or 2 to be used in TC_17_1_3	INTEGER	10	
px_CC_ServNotSupp	Not supported service selected for Mobile Originated calls and Mobile Terminated calls. The possible values are ("Telephony", "EmergencyCall", "31kHz", "V110", "V120", "PIAFS", "FTM", "X31", "BTM", "MmediaCall")	Services	"ВТМ"	
px_DTMF_BasicCharSet	TRUE if DMTF Chars 0-9, *, # supported	BOOLEAN	TRUE	
px_DTMF_OtherCharSet	TRUE if DMTF Chars A, B, C, D supported	BOOLEAN	TRUE	
px_DTMF_ToneInd	TRUE if UE support DTMF tone indication	BOOLEAN	TRUE	
px_PTMSI_Sig3	Second PTMSI signature used for testing	OCTETSTRI NG	'AB1239'O	
px_UuInfo	User-user information for TC 10_3	OCTETSTRI NG	'01020304'O	
px_Uupd	User-user protocol discriminator for TC 10_3	B8	'00000100'B	
px_VTS_AT_CommandSup p	TRUE if the AT command +VTS is supported	BOOLEAN	TRUE	

B.1.4 SMS test suite parameters declarations

These parameters are used in the SMS ATS.

Table B.4: SMS PIXIT

Parameter name	Description	Туре	Default value	Supported value
px_BMC_CB_RepPeriod01	CB repetition period for CB message 1	INTEGER	2	
px_BMC_CB_RepPeriod02	CB repetition period for CB message 2	INTEGER	2	
px_BMC_NoOfBC_Req01	No of broadcasts requested for CB message 1	INTEGER	2	
px_BMC_NoOfBC_Req02	No of broadcasts requested for CB message 2	INTEGER	2	
px_MaxCP_DataRetx	max. number of CP data retransmissions for SMS	INTEGER	3	
px_SMS_CB_Data01	Contents of the first Cell Broadcast Message sent will be converted to an OCTETSTRING	IA5String	"First Cell Broadcast Message"	
px_SMS_CB_Data02	Contents of the second Cell Broadcast Message sent will be converted to an OCTETSTRING	IA5String	"Second Cell Broadcast Message"	
px_SMS_CB_Msgld02	9	HEXSTRING [4]	"0002"H	
px_SMS_CB_Store	TRUE if Broadcast Messages are kept in BM storage	BOOLEAN	TRUE	
px_SMS_MsgFrmt	SMS Message Format <mode> of TS 27.005 cl. 3.2.3</mode>	IA5String	"0"	
px_SMS_PrefMem1	SMS Preferred Memory 1 <mem1> of TS 27.005 cl. 3.1</mem1>	IA5String	"SM"	
px_SMS_PrefMem2	SMS Preferred Memory 2 <mem2> of TS 27.005 cl. 3.1</mem2>	IA5String	"SM"	
px_SMS_PrefMem3	SMS Preferred Memory 3 <mem3> of TS 27.005 cl. 3.1</mem3>	IA5String	"MT"	
px_SMS_Service	SMS Service <service> of TS 27.005 cl. 3.2.1</service>	IA5String	"0"	
px_TC1M	Value for timer TC1M, to be declared by the manufacturer	INTEGER	10000	

B.1.5 RRC_M test suite parameters declarations

These parameters are used in the RRC and RAB ATS.

Table B.5: RRC and RAB PIXIT

Parameter name	Description	Туре	Default value	Supported value
px_DL_MaxTC_TB_bits	Maximum sum of number of bits of all turbo coded transport blocks being received at an arbitrary time instant.	MaxNoBits	b163840	
px_MaxHcContextSpace	MaxHcContextSpace if RFC 2507 [30] is supported.	MaxHcContext Space	by1024	
px_MaxNoSCCPCH_RL	Part of SimultaneousSCCPCH_DPCH_Rec eption.	MaxNoSCCPC H_RL	rl1	
px_PrimaryBand	The primary operation band under test, as defined in 34.108 clause 5.1.1. Value 1 means Band 1, 2 means Band 2, 3 means Band 3, 6 means Band 6.	INTEGER	1	This pixit shall be set in synchronization with the values that are being set to other Pixit: px_UARFCN_D_Mid
px_SecondaryBand	The secondary operation band under test, as defined in 34.108 clause 5.1.1. Value 1 means Band 1, 2 means Band 2, 3 means Band 3, 6 means Band 6.	INTEGER	8	
px_SMS_CB_Msgld01	the operator shall define the CB Message ID for the CB data1 used for transmitting this CB data, different to CB-Data 2 IXIT	HEXSTRING[4]	'0001'H	
px_UL_MaxTC_TB_bits	Maximum sum of number of bits of all turbo coded transport blocks being transmitted at an arbitrary time instant.	MaxNoBits	b163840	

B.1.6 PDCP test suite parameters declarations

These parameters are used in the PDCP ATS.

Table B.6: PDCP PIXIT

Parameter name	Description	Туре	Default value	Supported value
px_PDCP_TcplpCompressedTcpN onDeltaPacket01	IP header compressed packet type (PID=3) of px PDCP_TcplpUncompressedPacket01	IP_Packet	0000 0000 0000 0a00 0000 0050 1000 0026 3400 006a 6e6e 206a 6e6e 206a 6e6e	
	IP header compressed packet type (PID=3) of px_PDCP_TcplpUncompressedPacket02	IP_Packet	"Test_PDCP_TC PIP_Packet2_PI D_Type3"	
px_PDCP_TcplpCompressedTcpP acket01	IP header compressed packet type (PID=2) of px_PDCP_TcplpUncompressedPacket01	IP_Packet	0028 2634 0a00 0000 6a6e 6e20 6a6e 6e	
px_PDCP_TcpIpCompressedTcpP acket02	IP header compressed packet type (PID=2) of px PDCP TcplpUncompre ssedPacket02	IP_Packet	"Test_PDCP_TC PIP_Packet2_PI D_Type2"	

Parameter name	Description	Туре	Default value	Supported value
px_PDCP_TcpIpFullHeaderPacket 01	px PDCP TcplpUncompre ssedPacket01	IP_Packet	c500 0000 0000 0000 4006 7ac6 0000 0000 0000 0000 0000 0000 0000 0000 0000 0000 5010 0000 263e 0000 6a6e 6e20 6a6e 6e	
px_PDCP_TcplpFullHeaderPacket 02	IP header compressed packet type (PID=1) of px PDCP TcplpUncompressedPacket02	IP_Packet	"Test_PDCP_TC PIP_Packet2_PI D_Type1"	
px_PDCP_TcplpUncompressedPa cket01	uncompressed TCP/IP Packet01	IP_Packet	4500 0033 0000 0000 4006 7ac6 0000 0000 0000 0000 0000 0000 0000 5010 0000 263e 0000 6a6e 6e20 6a6e 6e	
px_PDCP_TcpIpUncompressedPacket02	uncompressed TCP/IP Packet02	IP_Packet	"Test_PDCP_TC PIP_Packet2"	
px_PDCP_UdpIpCompressedTcp NonTcpPacket01	IP header compressed packet type (PID=4) of px_PDCP_UdpIpUncompressedPacket01	IP_Packet	0001 0000 763c 6a6e 6e20 6a6e 6e20 6a6e 6e	
px_PDCP_UdpIpCompressedTcp NonTcpPacket02	IP header compressed packet type (PID=4) of px_PDCP_UdpIpUncompressedPacket02	IP_Packet	"Test_PDCP_U DPIP_Packet2_ PID_Type4"	
px_PDCP_UdplpFullHeaderPacket 01	px PDCP UdplpUncompre ssedPacket01	IP_Packet	8500 0100 0000 0000 4011 7ac7 0000 0000 0000 0000 0000 0000 0013 763c 6a6e 6e20 6a6e 6e20 6a6e 6e	
px_PDCP_UdplpFullHeaderPacket 02	IP header compressed packet type (PID=1) of px PDCP UdplpUncompressedPacket02	IP_Packet	"Test_PDCP_U DPIP_Packet2_ PID_Type1"	
px_PDCP_UdplpUncompressedPa cket01	uncompressed UDP/IP Packet01	IP_Packet	4500 0027 0000 0000 4011 7ac7 0000 0000 0000 0000 0000 0000 0013 763c 6a6e 6e20 6a6e 6e20 6a6e 6e	
px_PDCP_UdplpUncompressedPa cket02	uncompressed UDP/IP Packet02	IP_Packet	"Test_PDCP_U DPIP_Packet2"	

B.1.7 BMC test suite parameters declarations

These parameters are used in the BMC ATS.

Table B.7: BMC PIXIT

Parameter name	Description	Туре	Default value	Supported value
px_CB_Data1	Data to be sent for each PDCP test, except TC 7.4.1.4, 7.4.1.5 and 7.4.1.6	IA5String [11246]	"CB Data1"	
px_CB_Data2	Data to be sent in TC 7.4.2.1	IA5String [11246]	"CB Data2"	
px_SMS_CB_Msgld01	Data to be sent for each PDCP test, except TC 7.4.1.4, 7.4.1.5 and 7.4.1.6	HEXSTRING[4]	'0000'H	
px_SMS_CB_Msgld02	Data to be sent in TC 7.4.2.1	HEXSTRING[4]	'0000'H	
px_gS01	Data to be sent for each PDCP test, except TC 7.4.1.4, 7.4.1.5 and 7.4.1.6	BITSTRING[2]	"Test_gS1"	
px_ggS02	Data to be sent in TC 7.4.2.1	BITSTRING[2]	"Test_gS2"	
px_MsgCode01	Data to be sent for each PDCP test, except TC 7.4.1.4, 7.4.1.5 and 7.4.1.6	BITSTRING[10]	"Test_msgCode01"	
px_MsgCode02	Data to be sent in TC 7.4.2.1	BITSTRING[10]	"Test_msgCode02"	
px_UpdateNumber01	Data to be sent for each PDCP test, except TC 7.4.1.4, 7.4.1.5 and 7.4.1.6	BITSTRING[4]	"Test_ updateNumber01"	
px_UpdateNumber02	Data to be sent in TC 7.4.2.1	BITSTRING[4]	"Test_ updateNumber02"	

B.1.8 RRC test suite parameters declarations

These parameters are used in the RRC ATS.

Table B.8: RRC PIXIT

Parameter name	Description	Туре	Default value	Supported value
-	-	-	-	-

B.1.9 RAB test suite parameters declarations

These parameters are used in the RAB ATS.

Table B.9: RAB PIXIT

Parameter Name	Description	Туре	Default Value	Supported Value
px_CB_Data1	the operator shall define	IA5String_BMC		the CB data
	CBS data as IA5String			range is 11246
	together with the CB			Octets which
	message ID used for			refers to a
	transmitting this CB data,			IA5String of
	which is indicated by the			11246
	UE after reception in a			
	clear way according to the			
	capabilities stored on the			
	SIM. Furthermore, the			
	operator shall describe the			
	indication on the UE side			
	(e.g. certain CBS traffic			
	information)			
px_DSCH_RNTI	DSCH RNTI	DSCH_RNTI	0000 0000 0000	
			0010'B	
px_gS01	used in the Serial No. of the	B2	'00'B	
	CB_Data01 given as PIXIT,			
	which differentiates			
	between CBS messages			
	from the same source and			
	type			
px_MsgCode01	used in the Serial No. of the		'0000000000'B	
	CB_Data01 given as PIXIT,			
	which is the Geographical			
	Scope indicates the area			
	over which the msg code is			
	unique			
px_UpdateNumber01	used in the Serial No. of the		'0000'B	
	CB_Data01 given as PIXIT,			
	which indicates a change of			
	the message content of the			
	same CBS message			
px_PowerDSCH	transmission power level of	DL_TxPower		
	DSCH			

B.1.10 RLC and MAC test suite parameters declarations

These parameters are used in the MAC ATS.

Table B.10: RLC & MAC PIXIT

Parameter Name	Description	Type	Default Value	Supported Value
px_NumOfSegInPagResOrServ	This Pixit is used in MAC	INTEGER	2	
Req	test cases 7.1.1.2, 7.1.1.3,			
	7.1.1.4, 7.1.1.5 and 7.1.1.8			
	This indicates the number			
	of RLC segments the			
	Paging Response (CS			
	Domain) or Service			
	Request (PS domain) will			
	be segmented in.			
px_RLC_SDU_buffering	Is used in RLC TC			
	7.2.3.13, indicating the way	BOOLEAN(TRU		
	to handle RLC SDU data	E for buffering,		
	for UL transmission when	FALSE for		
	the transmission window is	discard)		
	full			

B.1.11 Multi RAT test suite parameters declarations

These parameters are used in the MultiRAT ATS.

Table B.11: MultiRAT PIXIT

Parameter name	Description	Туре	Default value	Supported value
px_GSM_BandUnder	indicates which band	INTEGER		1 -> GSM450;
Test	is under test			2 -> GSM480;
				3 -> GSM750;
				4 -> GSM850;
				5 -> GSM-P-900;
				6-> GSM-E-900;
				7-> DCS1800;
				8 -> PCS1900;
				9 -> 450 & 900
				MultiBand test;
				10 -> 450 & 1800
				MultiBand test;
				11 -> 480 & 900
				MultiBand test;
				12 -> 480 & 1800
				MultiBand test;
				13 -> 900 & 1800
				MultiBand test;
				14-> GSM710;
				15->T-GSM810;
px_GSM_CipheringO	GSM Ciphering to be	B1	1	
nOff	started or not			
px_GSM_CipherAlg	GSM Cipher	B3_CipherAlg	(A5/1) '000'B	
	algorithm. Allowed			
	values are:			
	'000'B(A5/1),			
	<u>'010'B(A5/3)</u>			
px_CipherKey	Cipher key (64 bits)	B64	'01011110010010101	
			011001101011000100	
			100010011011101011	
MO TYPINE ::::	MO TYPIND MAY	5-	10100101010'B	
px_MS_TXPWR_MAX		B5	'01010'B	
_CCH	CH			
px_RXLEV_ACCESS	minimum received	B6	'000000'B	

Parameter name	Description	Type	Default value	Supported value
_MIN	signal level at MS			
px_SplitOnCCCH	split paging cycle on CCCH supported indication	B1	'0'B not supported	
px_TSC	Training sequence code for traffic channels	B3	'011'B	
px_PowerLevel	power level value for L1 header	B5		
px_TimingAdvance	Timing advance value for L1 header	B1	'0000000'B	

B.1.12 MMI questions

Table B.12 requests additional information needed for the execution of the MMI commands used in the ATSs, the column 'ATS' indicates in which ATS the question is used.

Table B.12: MMI questions

Required information for MMI question	ATS
	RRC, SMS, NAS,
Please switch the PLMN selection mode of the UE to automatic selection	RAB, HSD_ENH,
Flease Switch the Flivin Selection mode of the OL to automatic Selection	IR_U, AGPS,
	HSU_ENH
	RRC, SMS, NAS,
Please switch the PLMN selection mode of the UE to manual selection	RAB, HSD_ENH,
Flease Switch the FEMIN Selection mode of the OE to manual selection	IR_U, AGPS,
	HSU_ENH
	RRC, SMS, NAS,
Please select the following PLMN manually: MCC = <p_mcc>, MNC = <p_mnc></p_mnc></p_mcc>	RAB HSD_ENH,
riease select the following PLIVIN manually. MIGG = <p_migg>, MING = <p_ming></p_ming></p_migg>	IR_U, AGPS,
	HSU_ENH
Please power off the UE	All ATSs
Please power on the UE	All ATSs
Please switch off the UE	All ATSs
Please switch on the UE	All ATSs
Please insert the USIM card into the UE	All ATSs
Please remove the USIM card into the UE	All ATSs
	RRC, SMS, NAS,
Oleans should that the DTOU is those who are needed have a more in	RAB, HSD_ENH,
Please check that the DTCH is through connected by generating a noise	IR_U, AGPS,
	HSU_ENH
	RRC, SMS, NAS,
Configure UE for an MO Telephony call	RAB, HSD_ENH,
Configure OL for all two Telephorty call	IR_U, AGPS,
	HSU_ENH
	RRC, SMS, NAS,
Configure UE for an Emergency call	RAB, HSD_ENH,
Configure of for an Emergency can	IR_U, AGPS,
	HSU_ENH
	RRC, SMS, NAS,
Configure UE for an MT telephony call	RAB, HSD_ENH,
Configure of for arrivit telephorty call	IR_U, AGPS,
	HSU_ENH
	RRC, SMS, NAS,
Please set UE in operation mode C (PS services only)	RAB, HSD_ENH,
r lease set of in operation mode of to services only)	IR_U, AGPS,
	HSU_ENH
	RRC, SMS, NAS,
Please set UE in operation mode A (to support simultaneous CS and PS services)	RAB, HSD_ENH,
Tiedde det OL iii operation mode a (to dupport dimuitamedud Co and Fo delvices)	IR_U, AGPS,
	HSU_ENH
Please configure UE to use the following emergency number <p_emergencynumber></p_emergencynumber>	RRC, SMS, NAS,

Required information for MMI question	ATS
	RAB, HSD_ENH,
	IR_U, A-GPS
Please initiate a non call related supplementary service which is supported by the UE	NAS
Please insert Test USIM programmed with Access Class: <p_accessclass></p_accessclass>	NAS
· -	NAS, SMS,
Please insert 2nd SIM card with short IMSI	AGPS
Please initiate an autocalling call with the number: <p_autocallingnumber></p_autocallingnumber>	NAS
Please initiate an autocalling call with a number that will be put in the blacklisted list. The	NAS
following number shall not be used: <p_autocallingnumber></p_autocallingnumber>	
Please reset the autocalling list of blacklisted numbers	NAS
Please initiate a DTMF tone with the character <p_character> and the tone duration</p_character>	NAS
<p_toneduration></p_toneduration>	
Please enable call refusal on the UE	NAS
Please check that the DTMF tone indication has been generated	NAS
Please insert another USIM card as required for test case tc_9_4_5_4_6. The PLMN selector on the USIM card shall contain entries for PLMNs MCC='022'H, MNC='01F'H resp.	NAS
MCC='022'H, MNC='03F'H. The latter PLMN shall be ranked better than the first one	
Please trigger UE to initiate a Detach procedure for non-PS services only	NAS
Please check that the mobile indicates the reception of a message with message id:	SMS
<p_messageid> and message code: <p_messagecode></p_messagecode></p_messageid>	
Please check the length of the received Short Message: <p_lengthmessage> and the</p_lengthmessage>	SMS
contents of the received Short Message: <p_message></p_message>	
Please send an SMS COMMAND message containing a request to delete the previously	SMS
submitted Short Message	
Please send an SMS COMMAND message containing an enquiry about the previously	SMS
submitted Short Message	
Please check that NO recalled Short Message is displayed	SMS
Please check that the reception of a received Short Message is indicated	SMS
Please check that the Mobile does not indicate the reception of a new message with	SMS
message id: <p_messageid> and message code: <p_messagecode></p_messagecode></p_messageid>	
Please check that NO reception of a received Short Message of type 0 is indicated	SMS
Please insert the USIM card of type B into the UE	MAC
Please insert the USIM card, with information given in <p_testcase></p_testcase>	RRC, NAS, IR_U, HSU_ENH
Please check that the UE display the registered PLMN as PLMN <p_plmn></p_plmn>	RRC, HSU_ENH
Please insert the USIM card, with Type A EFACC	RRC
Please insert the USIM card, with Type B EFACC	RRC
Please trigger UE to send three SNDCP PDUs of 500 bytes each on SAPI 11	IR_G
Please trigger PDP Context Activation Type 2 in UE	IR_G
Please trigger MO-LR for position estimate	AGPS
Please trigger MO-LR for assistance data	AGPS
Please trigger MO-LR for transfer to 3rd party	AGPS
Please check that the UE displays the correct information about the LCS client	AGPS
Please accept the location request within 20 s	AGPS
Please deny the location request within 20 s	AGPS
Please do not reply to the location request	AGPS
Please check that the UE notifies the user of the location request	AGPS
If the UE does not support the RESET command defined in 34.109, please ensure that the	AGPS
UE has no assistance data stored before running this test case	
Please trigger UE to send 10 kbytes of data on SAPI 3	IR_G
Please trigger UE to send 1 kbyte of data on SAPI 3	IR_G
Please check that the UE display the PLMN list: <p_plmn_list></p_plmn_list>	HSU_ENH

B.1.13 A-GPS test suite parameters declarations

These parameters are used in the A-GPS ATS.

Table B.13: A-GPS PIXIT

Parameter Name	Description	Туре	Default Value	Supported Value
px_GpsScenario	Pre-defined GPS scenario to be loaded by the upper tester in the Satellite Simulator. See 34.108, 10.7. Minimum value:0, Maximum value: 31	GpsScenarioType	0	
px_GeoInfo	in FACILITY message from the System Simulator.	Ext_Geographical Information	9032B9D66360B 600323C3C0065 44	
px_LcsClientName	LCS Client name	IA5String	OPERATOR	
px_LcsClientAddressTOA	LCS Client external address TOA	B4	'1001'B	
px_LcsClientAddressNPI	LCS Client external address NPI	B4	'0001'B	
px_LcsClientAddressDigits	LCS Client external address Digits	IA5String	0123456	
px_ResetStoredInfo	Support of RESETUEPOSITIONINGSTO REDINFORMATION command as defined in 3GPP TS 34.109 cl. 6.10	BOOLEAN	TRUE	

B.1.14 HSD_ENH test suite parameters declarations

These parameters are used in the HSD_ENH ATS.

Table B.14: HSD_ENH PIXIT

Parameter Name	Description	Туре	Default Value	Supported Value
px_GERANIu_RadioAccessCapa		BITSTRING		
bility	Access Capability	DITOTINIO		
	Execute UL 128 KBPS RAB			
px_RAB_HS_Exec128_384Supp	HS test cases, when UE	BOOLEAN	TRUE	
	supports UL384			
	Set to TRUE if 384kbps is			
px_RAB_HS_Exec64_384Supp	supported and if tests on	BOOLEAN	TRUE	
	64kbps shall be executed			
	Execute UL 64 KBPS RAB HS			
px_RAB_HS_Exec64_128Supp	test cases, when UE supports	BOOLEAN	TRUE	
	UL128			

B.1.15 HSU_ENH test suite parameters declarations

These parameters are used in the HSU_ENH ATS.

Table B.15: HSU_ENH PIXIT

Parameter Name	Description	Туре	Default Value	Supported Value
I FDPCHSUpp	To execute Non-FDPCH test case when fully FDPCH is supported	BOOLEAN	TRUE	

Annex C (informative): Additional information to IXIT

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Additional information may be provided when completing the IXIT questions listed in annex A.

C.1 Identification Summary

Table C.1 is completed by the test laboratory. The item "Contract References" is optional.

Table C.1: Identification Summary

IXIT Reference Number	
Test Laboratory Name	
Date of Issue	
Issued to (name of client)	
Contract References	

C.2 Abstract Test Suite Summary

In table C.2 the test laboratory provides the version number of the protocol specification and the version number of ATS which are used in the conformance testing.

Table C.2: ATS Summary

Protocol Specification	3GPP TS 25.331
Version of Protocol Specification	
Test Specification in prose	3GPP TS 34.123-1
Version of TSS & TP Specification	
ATS Specification	3GPP TS 34.123-3
Version of ATS Specification	
Abstract Test Method	Distributed Test Method

C.3 Test Laboratory

C.3.1 Test Laboratory Identification

The test laboratory provides the following information.

Table C.3: Test Laboratory Identification

Name of Test Laboratory	
Postal Address	
Office address	
e-mail address	
Telephone Number	
FAX Number	

C.3.2 Accreditation status of the test service

The test laboratory provides the following information.

Table C.4: Accreditation status of the test service

Accreditation status	
Accreditation Reference	

C.3.3 Manager of Test Laboratory

The test laboratory provides the information about the manager of test laboratory in table C.5.

Table C.5: Manager of Test Laboratory

Name of Manager of Test Laboratory	
e-mail address	
Telephone Number	
FAX Number	
E-mail Address	

C.3.4 Contact person of Test Laboratory

The test laboratory provides the information about the contact person of test laboratory in table C.6.

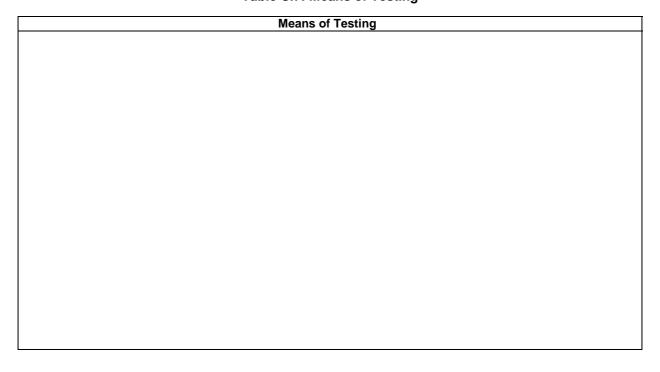
Table C.6: Contact person of Test Laboratory

Name of Contact of Test Laboratory	
e-mail address	
Telephone Number	
FAX Number	
E-mail Address	

C.3.5 Means of Testing

In table C.7, the test laboratory provides a statement of conformance of the Means Of Testing (MOT) to the reference standardized ATS, and identifies all restrictions for the test execution required by the MOT beyond those stated in the reference standardized ATS.

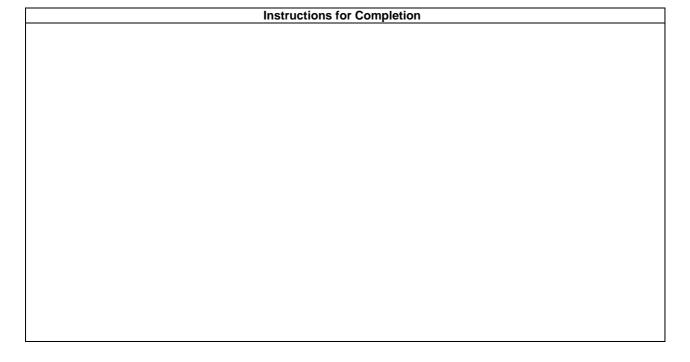
Table C.7: Means of Testing



C.3.6 Instructions for Completion

In table C.8, the test laboratory provides any specific instructions necessary for completion and return of the proforma from the client.

Table C.8: Instruction for Completion



C.4 Client

C.4.1 Client Identification

The client provides the identification in table C.9.

Table C.9: Client Identification

Name of Client	
Postal Address	
Office Address	
Telephone Number	
FAX Number	

C.4.2 Client Test Manager

In table C.10 the client provides information about the test manager.

Table C.10: Client Test Manager

Name of Client Test Manager	
Telephone Number	
FAX Number	
E-mail Address	

C.4.3 Client Contact person

In table C.11 the client provides information about the test contact person.

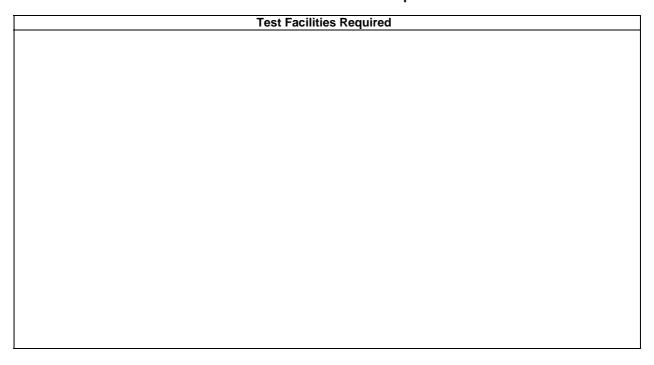
Table C.11: Client Contact person

Name of Client contact person	
Telephone Number	
FAX Number	
E-mail Address	

C.4.4 Test Facilities Required

In table C.12, the client records the particular facilities required for testing, if a range of facilities is provided by the test laboratory.

Table C.12: Test Facilities Required



C.5 System Under Test

C.5.1 SUT Information

The client provides information about the SUT in table C.13.

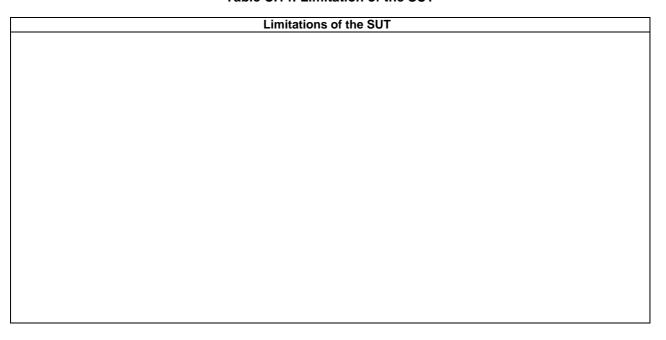
Table C.13: SUT Information

System Name	
System Version	
SCS Reference	
Machine Configuration	
Operating System Identification	
IUT Identification	
ICS Reference for the IUT	

C.5.2 Limitations of the SUT

In table C.14, the client provides information explaining if any of the abstract tests cannot be executed.

Table C.14: Limitation of the SUT



C.5.3 Environmental Conditions

In table C.15 the client provides information about any tighter environmental conditions for the correct operation of the SUT.

Table C.15: Environmental Conditions

Environmental Conditions

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C.6 Ancillary Protocols

This clause is completed by the client in conjunction with the test laboratory.

In the following tables, the client identifies relevant information concerning each ancillary protocol in the SUT other than the IUT itself. One table for one ancillary protocol.

Based on the MOT the test laboratory should create question proforma for each ancillary protocol in the blank space following each table. The information required is dependent on the MOT and the SUT, and covers all the addressing, parameter values, timer values and facilities (relevant to ENs) as defined by the ICS for the ancillary protocol.

C.6.1 Ancillary Protocols 1

Table C.16: Ancillary Protocol 1

Protocol Name	
Version number	
ICS Reference (optional)	
IXIT Reference (optional)	
PCTR Reference (optional)	

C.6.2 Ancillary Protocols 2

Table C.17: Ancillary Protocol 2

Protocol Name	
Version number	
ICS Reference (optional)	
IXIT Reference (optional)	
PCTR Reference (optional)	

Annex D (informative): PCTR Proforma

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PROTOCOL

Conformance Test Report

(PCTR)

Universal Mobile Telecommunication System, UMTS, User Equipment-Network Access

Layer 3 Signalling Functions

Took Condidate	
Test Candidate	
Name:	SUT name
Model:	model
H/W version :	hw
S/W version :	sw
Serial No. :	serienr

Client	
Name:	
Street / No. :	
Postal Code / City:	
Country :	

This Test Report shall not be reproduced except in full without the written permission of TEST LAB REFERENCE, and shall not be quoted out of context.

Annex E (informative): TTCN style guide for 3GPP ATS

E.1 Introduction

This annex provides a set of coding standards and development guidelines for use in the development of TTCN abstract test suites for ensuring that user equipment for the 3GPP standard conforms to the relevant core specifications.

The following items are assumed to exist, but their specification is outside the scope of this annex.

- A complete unambiguous prose detailing all test cases to be implemented.
- A complete unambiguous set of core specifications.
- A complete unambiguous detailed description of all the messages that are to be sent.
- A tool or human process that can convert Test Suite Operation Definitions to physical processes within the test system or unit under test.
- An abstracted or generic application programmers interface to all hardware components in the system.
- A tool for the translation and/or compilation of ISO/IEC 9646 [41] series TTCN to run on a test platform.

It is recognized within the context of the 3GPP User Terminal that some of these items are not yet stabilized.

The structure of the present annex maps directly to the guidelines provided in ETR 141 [37]. Rules are repeated in the present annex for convenience, with additional information specific to 3GPP test suite development provided where relevant. For more detailed information or examples about the rules, see ETR 141 [37].

In the present annex, the terms 'should' and 'shall' are frequently used. For the purpose of this annex, the following definitions apply:

- **Shall** means that the rule must be adhered to for all ATS development. If a rule expressed in terms of 'shall' is not followed, either the ATS must be updated so that the rule is followed, or the rule in the coding conventions must be updated to resolve the difference.
- **Should** means that the rule is a guideline. If a rule expressed in terms of 'should' is broken, a brief comment should be provided describing why the guideline does not apply.

E.2 ETR 141 rules and applicability

RULE 1: Statement of naming conventions

Naming conventions should be explicitly stated. Naming conventions should not exist only for a single ATS, and the reader of an ATS should not be forced to "derive" the rules implicitly. The naming conventions should be part of the ATS conventions contained in the ATS specification document.

Names used in the present annex are comprised of a prefix part and a name body part. Conventions for deriving prefixes and name bodies are described after Rule 3 in the present annex.

RULE 2: Coverage of naming conventions

Naming conventions stated should, as a minimum, cover the following TTCN objects:

- test suite parameters/constants/variables;
- test case variables;
- formal parameters;
- timers:
- PDU/ASP/structured types;
- PDU/ASP/structured types constraints;
- test suite operations;
- aliases;
- test case/test step identifiers.

RULE 3: General properties of naming conventions

a) Protocol standard aligned

When there is a relationship between objects defined in the ATS and objects defined in the protocol standard, e.g. PDU types, the same names should be used in the ATS if this does not conflict with the character set for TTCN identifiers or with other rules. In case of a conflict, similar names should be used.

b) Distinguishing

The naming conventions should be defined in such a way, that objects of different types appearing in the same context, e.g. as constraint values, can be easily distinguished.

c) Structured

When objects of a given type allow a grouping or structuring into different classes, the names of these objects should reflect the structuring, i.e. the names should be composed of 2 or more parts, indicating the particular structure elements

d) Self-explaining

The names should be such that the reader can understand the meaning (type/value/contents) of an object in a given context. When suffixes composed of digits are used, it is normally useful to have some rule expressed explaining the meaning of the digits.

e) Consistent

The rules stated should be used consistently throughout the document, there should be no exceptions.

f) Appropriate name length

Following the above rules extensively may occasionally lead to very long names, especially when structuring is used. The names should still be easily readable. When TTCN graphical form (TTCN.GR) is used, very long names are very inconvenient.

NOTE: Also, test tools may not be able to implement very long identifier names, which is an important aspect in this context.

E.2.1 Multiple words are separated by upper case letters at the start of each word

Many names consist of more words, and it shall be easy to distinguish the different words building up the same name. For all TTCN Object classes this is done using the case of the letters.

This rule is mandatory for all names appearing in the body of a dynamic behaviour table, and is recommended for all other TTCN object classes.

Generally every word a name consists of shall start with an upper case letter and the rest of this word shall be in lower case letters.

- E.g.: "channel" + "description" -> "ChannelDescription".

This rule also applies if a word starts after another upper case letter.

- E.g.:. "px" + "Cell" + "A" + "Cell" + "Id" -> px_CellACellId.

This rule also applies if the name has a prefix, which is always lower case.

- E.g.: A test case variable "sequence" + "number" -> tcv_SequenceNumber.

This rule does not apply if the word is a unit, in which case the word retains it's original case.

- E.g.: Power level 1.5 dBm ->PowerLvl1_5dBm.

This rule does not apply if the word in the name is an acronym, in which case the word retains it's normal case.

- If an acronym is followed by another word, an underscore shall be used to separate the acronym from the following word. If an acronym is followed by a number in order to represent an identity (e.g. channel or radio bearer identity) then this acronym is not followed by an underscore.
 E.g.: "this" + "Is" + "SIM" + "Message" + "With" + "CC" + "And" + "RR" + "Things" + "In" + "It" -> "thisIsSIM MessageWithCC AndRR ThingsInIt".
- An exception to acronyms retaining their case is if the name is a field / element / parameter in a structured type / PDU / ASP, in which case it must start with a lower case letter.

 E.g.: "SCH" + "info" + "element" -> "sCH_InfoElement".
- A further exception to acronyms retaining their case is if the name is an ASN.1 constraint, in which case, in which case the first letter is upper case, and the remaining letters are lower case.

For all objects used in the body of dynamic behaviour tables, use of underscores is forbidden, except for the following situations:

- As a replacement for a '.'. E.g. Test case that maps to prose clause 7.2.3.1 -> tc_7_2_3_1.
- To separate prefixes from names.
- To separate acronyms from the following word.
- To separate a number from the following word.
- To replace hyphens when types are re-used / imported from core specifications. This applies to types imported from ASN.1 definitions, and to names derived from table definitions in core specifications.
- To separate an ASP name from the embedded PDU name when the metatype PDU is not used.
 E.g. RRC_DataInd_ConnAck for an RRC data indication ASP with an embedded CONNECT ACKNOWLEDGE PDU.

E.2.2 Identifiers shall be protocol standard aligned

To support rule 3(a), the mapping guidelines in table E1 shall be used. This mapping table also supports rule 6.

Table E.1: Mapping guidelines between protocol standards and identifiers

Туре	Naming rule
Objects of Structured Type	Shall be derived from the name of the Information Element in the standard, if it
	corresponds to this (use standard acronyms where appropriate).
	E.g.: "Window Size super-field" -> "WindowSizeSUFI"
Fields in a Structured Type	Shall be derived from the name of the same field in the corresponding Information Element
	in the standard. (Acronyms for the entire field name shall not be used)
	E.g.: "Header Extension Type" -> "headerExtensionType" (not "HE")
Objects of ASP type	Shall be derived from the name of the corresponding Service Primitive in the Standard,
	using any relevant abbreviations from the present annex. The full name as it appears in the
	core specification shall be included in parentheses after the name.
	E.g.: "CRLC-SUSPEND-Conf" -> "CRLC_SuspendCnf (CRLC-SUSPEND-Conf)"
	If the metatype PDU is not used, the ASP name shall reflect both the ASP, and the
	embedded PDU name, using an underscore to separate the ASP part from the PDU part.
	E.g.: DataReq_StartDTMF_Ack for an RRC-DATA-Req with an embedded START DTMF ACKNOWLEDGE PDU
Objects of PDU type	Shall have exactly the same name as the Message it corresponds to in the standard. If this
Solecie of 1 Do type	Message is named by more words, they shall be joined, leaving the blanks out
	E.g.: "AMD PDU" -> "AMDPDU".

E.2.3 Identifiers shall be distinguishing (use of prefixes)

To support rules 2, 3(b), 4, and 5, the prefixes shown in table E2 shall be used for TTCN objects. Prefixes are separated from the name by an underscore to improve readability by clearly separating the prefix from the name. This convention will also support searching operations. For example, a search for all uses of PIXIT parameters in the test suite is possible by searching for 'px_'.

The optional *<protocol>* part shall be included in the name when the object is closely related to the protocol (e.g. PICS, some PIXIT parameters), it is necessary to be unambiguous or improves comprehension significantly (e.g. no need to think about protocol stacks on all used interfaces during reading). The optional *<protocol>* part shall be used for types defined in common modules.

Table E.2: Prefixes used for TTCN objects

TTCN object	Case of first character	Prefix	Comment	
Test Suite	Upper	_		
TTCN Module	Upper	_		
Simple Type	Upper	[<protocol>_]</protocol>	Note 8	
Structured Type	Upper	[<protection=]< td=""><td>Note 8</td></protection=]<>	Note 8	
Element in Structured Type	Lower	[_\protocot>_]	Note o	
ASN.1 Type	Upper	[<protocol>_]</protocol>	Note 8	
Element in ASN.1 Type	Lower	[[<pre>protocol>_]</pre>	Note o	
Test Suite Operation	Upper	o_[<protocol>_]</protocol>	Notes 1 and 8	
TSO Procedural Definition	Upper	o_[<protocol>_]</protocol>	Notes 1 and 8	
Formal Parameter to TSO or TSOP			Notes i and o	
	Upper	<u>p_</u>	Note 0	
Test Suite Parameter (PICS)	Upper	pc_[<pre>pc_[<pre>c_l</pre></pre>	Note 8	
Test Suite Parameter (PIXIT)	Upper	px_[<pre>protocol>_]</pre>	Note 8	
Test Case Selection Expression	Upper	[<protocol>_]</protocol>	Note 8	
Test Suite Constant	Upper	tsc_[<protocol>_]</protocol>	Note 8	
Test Suite Variable	Upper	tsv_[<protocol>_]</protocol>	Note 8	
Test Case Variable	Upper	tcv_[<protocol>_]</protocol>	Note 8	
PCO Type	Upper	-		
PCO	Upper	-	Note 2	
CP	Upper	cp_	Note 2	
Timer	Upper	t_[<protocol>_]</protocol>	Note 8	
Test Component	Upper	mtc_[<protocol>_] or ptc_[<protocol>_]</protocol></protocol>	Notes 3 and 8	
Test Component Configuration	Upper	-		
ASP Type	Upper	[<protocol>_]</protocol>	Notes 4 and 8	
Parameters within ASP Type	Lower	-	Note 4	
PDU Type	Upper	[<pre>cprotocol>_]</pre>	Notes 4 and 8	
TTCN object	Case of first character	Prefix	Comment	
Fields within PDU Type	Lower	-	Note 4	
Encoding Definition	Upper	enc_		
Encoding Variation	Upper	var_		
Invalid Field Encoding Variation	Upper	inv_		
CM Type	Upper	cm_		
Field within CM Type	Lower	-		
Alias	Upper	a_		
ASP constraint	Upper	ca[b d][s r w]_[<protocol>_]</protocol>	Notes 5 and 8	
PDU constraints	Upper	c[b d][s r w]_[<protocol> AA 108]</protocol>	Notes 5, 8 and 10	
Constraint (other types)	Upper	c[b d][s r w]_[<protocol>_]</protocol>	Notes 5 and 8	
Formal Parameter for a Constraint	Upper	D		
Test Case Group	Upper	<pre><pre><pre><pre><pre><pre></pre></pre></pre></pre></pre></pre>	Note 8	
Test Step Group	Upper	7.0000		
Test Case	Upper	tc	Note 6	
Test Step	Upper	(ts_ pr_ po_) <cn domain="">_<protocol>_</protocol></cn>	Notes 7, 8 and 9	
Local tree	Upper	It_	110100 7, 0 4114 0	
Local troc	l o b b c i	I ¹		

Defaults	lUpper	<pre> <pre>corotocol></pre></pre>	Note 8

- NOTE 1: Coding rules are not specified for test suite operation procedural definitions at this stage. These rules will be defined when the need arises
- NOTE 2: A prefix is not used for PCO declarations, but is used for CP declarations. This is because PCOs and CPs will only be used in send and receive statements, and PCOs will be used more frequently than CPs. Since a PCO name or a CP name will be used on most behaviour lines, PCO names should be as short as possible E.g. 2 to 3 characters.
- NOTE 3: The prefix is mtc if the component role is MTC, or ptc if the component role is PTC. If multiple PTCs are used, the rest of the identifier will clarify which PTC is being referred to. E.g. ptc Cell1, ptc Cell2.
- NOTE 4: This applies for both tabular and ASN.1 definitions.
- NOTE 5: Constraint prefixes are built up from the following regular expression. c[a][b|d][s|r|w].
 - 'c' shall always be present to indicate that the object is a constraint.
 - 'a' shall be present for ASP constraints to distinguish them from PDU constraints.
 - 'b' shall be present if and only if the constraint is used as a base constraint. (i.e. included in the derivation path of any other constraint).
 - 'd' shall be present if the constraint is derived from another constraint.(i.e. has an entry in it's derivation path field)
 - 'b' and 'd' cannot both be used in the same constraint, thereby limiting the derivation path to 1.
 - For the purpose of the present note, the following definitions are required (see TR 101 666 [27] clause 12.6.2):
 - The term 'field' is used to represent a structured type element, an ASP parameter, or a PDU field.
 - A 'bound field' is a field that either contains a SpecificValue, or is Omitted (-).
 - An 'unbound field' is a field that contains any of the following matching mechanisms: Complement, AnyValue (?), AnyOrOmit (*), ValueList, Range, SuperSet, SubSet, AnyOne (?), AnyOrNone (*), Permutation, Length, or IfPresent.
 - 's' may optionally be present if the constraint is only used in send statements. 's' shall not be present if
 the constraint contains any unbound fields, or any fields chained to a constraint whose prefix includes 'w'
 or 'r'.
 - 'r' may optionally be present if the constraint is only used in receive statements.
 - 'w' may optionally be present to indicate that the constraint contains fields that are unbound. Before these constraints are used in SEND events, all unbound fields must either be bound by using a derived constraint, or explicitly assigned a value in the SEND event behaviour line.
 - Either 'w' or 'r' shall be used if any fields in the constraint are unbound or are chained to a constraint whose prefix includes 'w' or 'r'.
- NOTE 6: Test case names will correspond to the clause in the prose that specifies the test purpose. E.g. tc_7_2_23_2. An additional digit may be specified if more than one test case is used to achieve the test purpose. If an additional digit is required, this probably means that the test prose are not well defined.
- NOTE 7: Test steps may optionally use the prefixes pr_ or po_ to indicate that the test step is a preamble or postamble respectively.
- NOTE 8: Protocol abbreviations are provided in table E3. Protocol abbreviations may optionally be used to clarify the scope of TTCN objects, or to resolve conflicts when the same name is required by multiple protocols within the ATS. The protocol abbreviation indicates that the object is related to a particular procedure (e.g. an MM procedure). This does not prevent the object from being used by an ATS testing a different protocol. If an object is specific to one ATS, this should be indicated in comments, rather than using a protocol abbreviation (e.g. if a timer is only used in RLC tests this should be stated in the comments, rather than using the abbreviation RLC in the timer name). If two different types exist in the ATS that represent the same information (e.g. IMSI) conversion operations shall be used to ensure consistency between the types. Also, conversion operations shall be used to avoid asking the same PIXIT question twice. For example, if a type is defined as an OCTETSTRING[4] for a NAS protocol, and the same type is represented as a BITSTRING[32] for RRC, a single PIXIT question shall be asked, and conversion operations shall be used to ensure that the same value is used for both types.
- NOTE 9: The prefixes CS and PS may optionally be used to indicate that a test step is specific to circuit switched, or packet switched signalling respectively. For test steps specific to the Upper Tester, the prefixes AT or MMI or UT shall be used to indicate that, respectively, AT or MMI or both types of commands are used.
- NOTE 10: The prefix AA shall be used for RRC PDU constraints to indicate that it is defined in 3GPP TS 34.123-1 [1] annex A. The prefix 108 shall be used for RRC PDU constraints to indicated that it is defined in 3GPP TS 34.108 [3] clause 9.

Table E.3: Protocol abbreviations for prefixes

Protocol / prefix
BMC
CC
CS
GMM
MAC
MM
PDCP
RLC
RRC
SMS
SS
SUS (Supplementary services)
TC

E.2.4 Identifiers should not be too long (use standard abbreviations)

To assist in keeping TTCN identifiers shorter, table E.4provides a non-exhaustive set of standard abbreviations that shall be used when naming objects that are used in the body of dynamic behaviour tables. Consistent use of abbreviations will improve test suite readability, and assist maintenance.

Table E.4: Standard abbreviations

Abbreviations	Meaning
Acs	access
Acp	accept
Ack	acknowledge
act	activation
addr	address
(re)alloc	(re)allocated, (re)allocation
arg	argument
ass	assignment
auth	authentication
ava	avail, available
bCap	bearer capability
cau	cause
clg	calling
ch	channel
chk	check
ciph	cipher, ciphering
cld	called
clsmk	classmark
cmd	command
cmpl	complete
cnf	confirm
cfg	configuration
conn	connect
ctrl	control
def	default
descr	description
disc	disconnect
enq	enquiry
err	error
(re)est	(re)establish
ext	extended
fail	failure
ho	handover
id	identity / identification

Abbreviations	Meaning
ie	information element
iel	information element length
ind	indication
info	information
init	initialize
IvI	level
loc	location
locUpd	location update
max	maximum
mgmt	management
min	minimum
misc	miscellaneous
mod	modification
ms	mobile station
msg	message
mt	mobile terminal
neigh	neighbour
ntw	network
num	number
orig	origin/-al
pag	page/-ing
params	parameters
perm	permission
phy	physical
qual	quality
rand	random
ref	reference
reg	register
rej	reject
rel	release
req	request
rsp	response
rx	receiver
sel	selection
seq	sequence
serv	service
st	state
sysInfo	system information
sync	synchronization
sys	system
tx	transmitter

RULE 4: Specific naming rules for test suite parameters/constants/variables test case variables and formal parameters

- a) The name should reflect the purpose/objective the object is used for.
- b) If the type is not a predefined one, it is useful that the name reflects the type, too.
- c) It could be useful, that the individual naming conventions are not the same for all object classes this rule applies to. e.g. use upper case letters for test suite parameters/constants, and use one of the other possibilities presented in ETR 141 [37] example 1 for other object classes.

See also ETR 141 [37] clauses 5.1 to 5.4 for further discussion on naming test suite parameters.

RULE 5: Specific naming rule for timers

If the timer is not defined in the protocol to be tested, the name should reflect the objective of the timer used for testing.

NOTE: There is no need to indicate the object type "timer" in the name, since timers only occur together with timer operations

RULE 6: Specific naming rule for PDU/ASP/structured types

As far as applicable, derivation rules or mapping tables should be used to relate the names of the types to the corresponding objects in the protocol or service definition.

NOTE: There may be types, e.g. erroneous PDU types, that do not relate to an object in the protocol or service definition.

Whenever names of types are derived from ASN.1 type definitions provided in the core specifications, the names shall remain the same as the ASN.1 specifications, and references shall be provided in the comment fields.

RULE 7: Specific naming rule for PDU/ASP/structured types constraints

Rules should be stated to derive the names from the names of the corresponding type definitions. It is often possible to use the type name plus an appropriate suffix reflecting the specific constraint value. In case of lengthy names, useful abbreviations or a defined numbering scheme can be chosen.

Constraint names begin with the appropriate prefix, followed by the first letter of each word in the type, followed by words describing the peculiarity of the constraint. E.g. Type = RadioBearerSetupPDU, constraint name could be cb_RBSP_GenericUM_DTCH.

RULE 8: Specific naming rule for test suite operations

The name should reflect the operation being performed.

i.e. the name should indicate an activity, not a status. This can be achieved e.g. by using appropriate prefixes like "check", "verify", etc.

RULE 9: Specific naming rule for aliases

The name should reflect that aspect of its expansion, that is important in the situation where the alias is used. Derivation rules should be provided to derive the alias name from its macro expansion or from the name of an embedded ASP / PDU.

See also ETR 141 [37] clauses 6.3.6 and 9 for further guidelines on naming aliases.

RULE 10: Specific naming rule for test steps

The name should reflect the objective of the test step.

RULE 11: Selecting the ASN.1 format for type definitions

- a) If the protocol standard uses ASN.1 to specify the PDUs, the ATS specifier should also use ASN.1.
- b) If the protocol standard does not use ASN.1, check carefully whether features of ASN.1 that the tabular format of type definition does not present are necessary in the ATS, or could ease the design and understanding of the definitions as a whole. Check especially whether fields or parameters have to be specified, the order of appearance of which, in a received ASP/PDU, cannot be predicted. If any of these conditions apply, use ASN.1 for type and ASP/PDU type declarations.
- c) Use the option of "ASN.1 ASP/PDU type Definitions by Reference" whenever applicable.
- d) Example 14 shows a compatibility problem that could occur, when ASN.1 type declarations as well as tabular type declarations are used in an ATS. Use the ATS Conventions to describe how this compatibility problem is handled in the ATS, i.e. whether in expressions and assignments entities defined in ASN.1 are only related to entities defined in ASN.1 or not.

Names of ASN.1 objects shall be kept the same as the core specifications in this case, even where the names are at odds with the naming conventions adopted for other TTCN objects.

RULE 12: Further guidelines on type definitions

- Use simple type or ASN.1 type definitions whenever an object of a base type with given characteristics (length, range, etc.) will be referenced more often than once.
- b) Use the optional length indication in the field type or parameter type column of structured type and ASP/PDU type definitions whenever the base standard/profile restricts the length.
- NOTE 1: This can often be achieved by references to simple types.
- Map the applicable ASPs/PDUs from the service/protocol standard to corresponding ASP/PDU type definitions in the ATS
- NOTE 2: It may happen that not all ASPs/PDUs of a service/protocol standard are applicable to a particular ATS for the related protocol. It may also happen that additional ASP/PDU type declarations are necessary, e.g. to create syntactical errors.
- d) Map the structure of ASPs/PDUs in the service/protocol standard to a corresponding structure in the ATS.
- NOTE 3: This mapping is not always one-to-one, e.g. because a field in the PDU definition of the protocol standard is always absent under the specific conditions of an ATS. But it should normally not happen, that a structured element in the protocol standard is expanded using the "<-" macro expansion, so that the individual fields are still referenced, but the structure is lost in the ATS.

RULE 13: Specification of test suite operations

- a) Use a test suite operation only if it cannot be substituted by other TTCN constructs.
- Write down the rationale/objective of the test suite operation.
 Reference standards if applicable.
- c) Classify and simplify algorithm.
 - Split test suite operation if too complex.
- d) Choose an appropriate specification language depending on the rationale/objective:
 - predicates for Boolean tests;
 - abstract data types for manipulation of ASN.1 objects;
 - programming languages for simple calculation.
- e) Check/proof the test suite operation:
 - is the notation used known/explained;
 - are all alternative paths fully specified;
 - is the test suite operation returning a value in all circumstances;
 - are error situations covered (empty input variables, etc.).
- State some evident examples.

E.2.5 Test suite operations must not use global data

All information required by test suite operations must be passed as formal parameters. This includes test suite variables, test case variables, test suite parameters, and constraints.

RULE 14: General aspects of specifying constraints

- a) Develop a design concept for the complete constraints part, particularly with respect to the "conflicting" features as indicated in items i) to iv) and including naming conventions (see ETR 141 [37] clause 6).
- b) Make extensive use of the different optional "Comment" fields in the constraint declaration tables to highlight the peculiarity of each constraint.

RULE 15: Relation between base constraints and modified constraints

- a) Define different base constraints for the send- and receive direction of a PDU (when applicable).
- b) Use modified constraints preferably when only a small number of fields or parameter values are altered with respect to a given base.
- NOTE 1: For SEND events the creation of a further modified constraint can sometimes be avoided, if an assignment is made in the SEND statement line, thus overwriting a particular constraint value.
- Design the relation between base constraints and modified constraints always in connection with parameterization of constraints (see the two subsequent subclauses).
- NOTE 2: Additional parameters in a constraint, introduced to avoid the declaration of further base/modified constraints can reduce the amount of constraints needed in an ATS, but then the constraint reference is getting more and more unreadable.
- d) When modified constraints are used, keep the length of the derivation path small. The length of the derivation path (resulting from the number of dots in it) is a kind of nesting level, and it is known from experience that a length greater than 2 is normally difficult to overview and maintain.

Modified constraints should not have a derivation path longer than 1. A modified constraint should not alter more than 5 values with respect to a given base constraint. If a constraint is used as a base constraint, it must have the prefix 'cb', to warn test suite maintainers / developers that any changes to this constraint may cause side effects.

Note that if an existing constraint without the 'cb' prefix is to be used as a base constraint, either a new, identical constraint with an 'cb' prefix must be created, or the existing constraint must be renamed to include the 'cb' prefix in all places it is referenced in the test suite.

RULE 16: Static and dynamic chaining

- a) Make a careful evaluation of which embedded PDUs are needed in ASPs/PDUs, in which (profile) environment the ATS may operate and which kind of parameterization for other parameters/fields is needed, to find an appropriate balance between the use of static and/or dynamic chaining in a particular ATS.
- b) When the ATS is used in different profile environments and the types and values of embedded PDUs cannot be predicted, dynamic chaining is normally the better choice.
- c) When static chaining is used, chose the name of the ASP/PDU constraint such that it reflects the peculiar value of the embedded PDU (see also the clause on naming conventions in ETR 141 [37]).

RULE 17: Parameterization of constraints

- Make a careful overall evaluation of which field/parameter values are needed in ASPs and PDUs to find an appropriate balance between the aim of a comparably small number of constraint declarations and readable and understandable constraint references.
- b) Keep the number of formal parameters small. Keep in mind, that the number of formal parameters in structured/ASN.1 types Constraints will add up to the total number of ASP/PDU constraints.
 - A clear border for the number of formal parameters cannot be stated, but it is known from experience that a number bigger than 5 normally cannot be handled very well.

Constraints should not be passed more than five parameters. Instead, more constraints should be defined. Related parameters can be grouped in new structured types to reduce the number of parameters that must be passed to constraints.

NOTE 1: The value five has been selected based on the recommendation in ETR 141 [37] rule 17. If more parameters are required, we can update this rule, or use more than 5 parameters, and provide documentation indicating why more parameters are required.

A constraint should not be passed parameters to that are not processed in that constraint. If for example a parameter is to be passed from a PDU constraint to a structured type constraint then the PDU constraint should be made specific and not have that parameter passed. The reason for this is that no editors as yet can trace through this mechanism and it becomes very difficult in a complex suite to see exactly what is being passed.

For example:

```
PduA ::= SEQUENCE {
  infoElement1    InformationElementType1,
    infoElement2    INTEGER
}

InformationElementType1 ::= SEQUENCE {
  field1    INTEGER,
    field2    INTEGER
}

cb_PATypical( p_Field1: INTEGER; p_Field2: INTEGER ) ::= {
  infoElement1    c_IET1Typical( p_Field1 ),
    infoElement2    pField2
}

c_IET1Typical( p_Field1: INTEGER ) ::= {
  field1    p_Field1,
    field2    5
}
```

In the example constraint cb_PATypical, passing p_Field1 through to a nested constraint is not allowed, but the use of p_Field2 is acceptable.

RULE 18: Constraint values

- Use comments to highlight the peculiarity of the value, especially when the value is a literal, whose meaning is not apparent.
- b) Use test suite constants instead of literals, when appropriate. Normally not all literals can be defined as Test Suite Constants, but a rule by thumb is: if a literal value of a given type occurs more than once (as a constraint value or more generally in an expression), then it is useful to define it as a Test Suite Constant, letting the name reflect the value.
- c) Use the length attribute when possible and when the length is not implicit in the value itself or given by the type definition (e.g. for strings containing "*").

RULE 19: Verdict assignment in relation to the test body

Make sure that verdict assignment within a default tree is in relation to the test body. If an unsuccessful event arising in the test body is handled by the default tree, then assign a preliminary result "(FAIL)" within the corresponding behaviour line of the default tree. If the position of the unsuccessful event is not in the test body, assign a preliminary result "(INCONCLUSIVE)". If the behaviour line handling the unsuccessful event is a leaf of the default tree, assign a final verdict instead.

RULE 20: Test body entry marker

The entry of the test body should be marked.

RULE 21: State variable

For realizing test purposes dependent on protocol states, use a variable to reflect the current state of the IUT.

RULE 22: State checking event sequences

Combine event sequences used for checking a state of the IUT within test steps.

RULE 23: Easy adaptation of test steps to test cases

For easy adaptation of a test step to test case needs, parameterize the constraints used within a test step.

Test steps may be parameterized, but with no more than five parameters. See also ETR 141 [37] clause 12.2 and rule 28. Related parameters can be grouped in new structured types to reduce the number of parameters that must be passed to constraints.

NOTE 2: Again, the value five has been selected based on the recommendation in ETR 141 [37] rule 17. If more parameters are required, we can update this rule, or use more than 5 parameters, and provide documentation indicating why more parameters are required.

RULE 24: Minimizing complexity of test steps

Minimize the complexity of test steps either by restricting the objective of a test step to atomic confirmed service primitives or by separating event sequences, which build different "logical" units into different test steps.

RULE 25: Nesting level of test steps

Keep the nesting level of test steps to a minimum.

RULE 26: Recursive tree attachment

Avoid recursive tree attachment. Where possible, use loops instead of recursive tree attachments.

RULE 27: Verdict assignment within test steps

If verdicts are assigned within a test step, guarantee at least the partial (i.e. not general) re-use of the test step.

RULE 28: Parameterized test steps

Use parameterized test steps to ensure re-use of test steps within test cases for different needs.

RULE 29: Combining statements in a sequence of alternatives

If there is no Boolean expression included in an alternative sequence, a statement of type UCS (unconditional statement) should never be followed by a statement of type UCS or CS (conditional statement) within a sequence of alternatives.

RULE 30: Using relational expressions as alternatives

- A relational expression should never restrict the value range of a preceding relational expression in the same alternative sequence using the same variable.
- b) The value range of a relational expression should be different from the whole value range of all preceding relational expressions in the same alternative sequence using the same variable.

RULE 31: Loop termination

Do not use conditions for terminating loops, which depend only on the behaviour of the IUT.

RULE 32: Avoiding deadlocks

- Make sure that each alternative sequence of receive events contains an OTHERWISE statement (without any qualifier) for each PCO.
- Make sure that each alternative sequence of receive events contains at least one TIMEOUT event (implying that a corresponding timer was started).

A set of alternatives using qualifiers shall always include an alternative containing the qualifier [TRUE], to provide a default behaviour if none of the qualifiers match.

For example:

RULE 33: Straightforward specification of test cases

- a) Use only event sequences leading to the test body within a preamble.
- b) Handle all event sequences not leading to the test body within the default tree of the test case/step.
- c) If the very same event sequence can be used to transfer the IUT from each possible state to the idle state, then realize this event sequence as a postamble.

RULE 34: Test component configuration declaration

Avoid recursive test component configuration declarations.

RULE 35: Default trees with RETURN statement

Special care should be taken by using a RETURN statement within a default tree in order to avoid an endless loop resulting from the expansion of the default tree.

E.3 3GPP ATS implementation guidelines

This clause provides a set of guidelines that must be followed during ATS development. In general, these guidelines are intended to prevent developers from making common errors, or discuss considerations that must be taken into account before using specific features of the TTCN language.

E.3.1 Test case groups shall reflect the TSS&TP document

Test groups shall be used to organize the test cases in the same way as the test purposes are structured in the prose specification.

The general structure of the test groups should be in the following format.

cprotocol>/<group>/<subgroup>

E.g. RLC/UM/Segmentation/LengthIndicator7bit/

E.3.2 Test case names correspond to the clause number in the prose

Test case names are derived directly from the clause number in the prose specification. Decimal points between digits in the clause number are replaced with underscores. E.g. the test case name for the test purpose specified in clause 7.2.3.2 of 3GPP TS 34.123-1 [1] is tc_7_2_3_2. If more than one test case is required to achieve a test purpose, an additional digit may be added. See also ETR 141 [37] clause 6.3.7.

E.3.3 Use standard template for test case and test step header

Table E.5 illustrates how the Test Case dynamic behaviour header fields should be used.

Table E.5: Template for TTCN test case table header

	F	ield		Contents			
Test Case Name: tc_NUMBER_OF_TESTCASE							
				which is used in the name of the tes	t case,	is the nur	nber it has in
the prose specification.							
	e.g.: "tc_26_13_1_3_1"						
Grou	Group: Is automatically filled and cannot be changed						
-	ose:		This is taken directly from the				
Conf	figura	tion:	As required if concurrent TTC	N is being used.			
Defa	ult		The appropriate default				
Com	ment	S:	First line contains:				
				clauses of relevant core specification	ons.		
			Next line contains:				
				nation if not ok) / Version number / \	Validate	ed / Revie	wed, etc.
			E.g.: Status: OK				
			Rest of lines give comments				
			What has to be done before ru		41-1-	44	
				ure must be completed before runni			ooifio
				what might be needed for the testing stem, specific hacks, certain setting			
				eded it must be put into Detailed Co			Silouid be
مام	ction	Rof.	The appropriate test case sele		iiiiiieiii	3)	
	criptio			ble, this should be the title of the pr	ose cla	usa Nota	. 1
Nr	Labe		ur Description	Constraints Ref	USC CIA	Verdict	Comments
1	Labe	Note 3	di Description	Note 3		Vertice	Note 2
Deta	iled C	Comments	Contains detailed information	about test steps + additional information	ation N	ote 2	INOTE Z
				eader is used to generate the test s			nd should only
1101				p with a maximum of 4 lines. For a			
				tc, the comments or detailed comm			
NOT	NOTE 2: The comments field for each behaviour line should usually consist of a number that is a reference to a specific						
	numbered comment in the detailed comments field. If this extra level of indirection reduces readability, brief						
			an be used in the comments field				<i>,</i>
NOT	E 3:	If entries in t	he behaviour description or cons	straints reference column contain lis	sts with	more that	n one
				tween list elements to prevent the li			
				•			_

Table E.6 illustrates how the Test Case dynamic behaviour header fields should be used.

Table E.6: Template for TTCN test step table header

Test Step Name	ts_TestStepName(p_Param1:	Param1Tvpe: p Para	am2: Param2Tvpe)				
Group	Is automatically filled and cannot be changed						
Objective	The objective of the test case. Provides a brief summary of the functionality of the test step.						
Default	The appropriate default			,			
Comments							
	Algorithm A detailed description of the alg	lgorithm detailed description of the algorithm / principles used within the test step					
	Parameters: A description of each of the par parameter, valid values, restrict		ne test step, including the pu	rpose of the			
	Preconditions The required state of the UE and / or SS before using this test step, including test steps that should be executed before using the present test step, and a description of all test case variables that must contain appropriate values before using this test step.						
	Postcondidions The expected state of the UE and / or SS after using this test step, including a description of all test case variables that will be modified by this test step. NOTE: It is too difficult to maintain the list of variables required / affected by nested test steps, so it is the users responsibility to check which variables are required /						
Description	affected by nested to Optional. Max 4 lines. Note 1	ост оторо.					
	Description	Constraints Ref	Verdict	Comments			
1 Note 3		Note 3		Note 2			
Detailed Comments	Contains detailed information a	bout test steps + add	itional information Note 2				
	n field in the test case / step hea			nd should			
only include a language of the description of the should be used NOTE 2: The comments specific number	only include a brief overview of the test case / step with a maximum of 4 lines. For a more detailed description of the test case / step algorithm / parameters etc, the comments or detailed comments fields should be used. NOTE 2: The comments field for each behaviour line should usually consist of a number that is a reference to a specific numbered comment in the detailed comments field. If this extra level of indirection reduces readability, brief comments can be used in the comments field for each behaviour line.						
NOTE 3: If entries in the	behaviour description or constr	aints reference colum	nn contain lists with more tha	NOTE 3: If entries in the behaviour description or constraints reference column contain lists with more than one element, carriage returns should be used between list elements to prevent the line from becoming too long.			

E.3.4 Do not use identical tags in nested CHOICE constructions

A nested CHOICE requires tags in the different alternative type lists to differ (see ISO/IEC 8824 [29], clause 24.4, example 3, INCORRECT). "The tag shall be considered to be variable, ... becomes equal to the tag of the "Type" ... from which the value was taken".

EXAMPLE: components are defined in a nested CHOICE construction, but no distinguishing tags are used to make the difference between component types, i.e. tags for different types turn out to be identical.

```
GSMLocationCancellation_Components ::= CHOICE {
   gSMLocationCancellation_InvokeCpt [1] IMPLICIT GSMLocationCancellation_InvokeCpt,
   gSMLocationCancellation_RejectCpt [4] IMPLICIT RejectComponent
}
```

gSMLocationRegistrationInvokeCpt and gSMLocationCancellation_InvokeCpt have the same tag and can therefore not distinguished anymore. Note that ITEX 3.5 does not report this error.

E.3.5 Incorrect usage of enumerations

Enumerations may contain distinct integers only (see ISO/IEC 8824 [29], clause 15.1).

EXAMPLE: TypeOfNumber containing a NamedValueList in which there are non-distinct values.

```
TypeOfNumber ::= ENUMERATED {
....,
  internationalnumber (1),
  level2RegionalNumber (1),
  nationalNumber (2),
  level1RegionalNumber (2),
.....
}
```

E.3.6 Structured type as OCTETSTRING should not be used

"It is required to declare all fields of the PDUs that are defined in the relevant protocol standard, ..." TR 101 101 [38] TTCN specification clause 11.15.1.

EXAMPLE 1: The ISDN Bearer Capability Information Element (BCAP) contents is defined as OCTETSTRING.

EXAMPLE 2: Usage of data type BITSTRING [7..15] as data type of the Call Reference (= 7 bits or =15 bits, but not 8 bits for example) does not correspond to the specification !!).

E.3.7 Wildcards in PDU constraints for structured types should not be used

Contrary to popular belief, TR 101 666 [27] does not support the use of wildcards for TTCN ASP parameters, or TTCN PDU fields whose type is structured. It is not clearly stated if wildcards are permitted for TTCN structured type elements whose type is structured but it is assumed that they are not permitted because the semantics for this are not clearly specified.

Note that this does not apply to ASN.1 Type definitions, ASPs, or PDUs.

Most tools do support wildcards for TTCN ASP parameters / TTCN PDU fields / TTCN structured type elements whose type is structured, but there is ambiguity between implementations since the semantics are not clearly specified in the core specification.

This feature is commonly used by TTCN developers, and is present in many existing test suites, including the 3GPP test suite, and in constraints that are being re-used from GERAN tests.

One problem with values '?' and '*' in constraints where they are used to indicate values of structured types, is that they would allow any combinations of values - even incorrect ones - which is not admissible according to the specifications. It is to be kept in mind that in tabular form each field is optional! It would be better to create and use an "any"-constraint which would deal with all the fields in detail (mandatory, IF PRESENT, etc.).

For the purpose of the present annex, the following rules shall apply:

1. '?' shall not be used to indicate values of TTCN ASP parameters / TTCN PDU fields / TTCN structured type elements whose type is structured. Known TTCN implementations differ significantly in their implementation of this feature.

- 2. '*' shall not be used for TTCN PDU fields, or TTCN ASP parameters whose type is structured (i.e. at the top level).
 - 2.1 Usage of wildcards should be avoided in structured type identifiers. Only simple type fields should use * or ?
- 3. '*' is permitted but discouraged for structured type elements whose type is structured. Note that this may result in ambiguous behaviour between TTCN implementations because the semantics are not specified in TR 101 666 [27].
- 4. One of the following two options shall be used as an alternative to using a '?' for a TTCN ASP parameter / TTCN PDU field / TTCN structured type element whose type is structured.
 - 4.1 Option 1: Use '*' instead (only applicable to structured type elements due to rules 2 and 3 above).

WARNING: This may result in the situation where a UE omits a mandatory field, but passes the test anyway, and / or different behaviour depending on the TTCN tool used.

- 4.2 Option 2 (preferred option; supported by TR 101 666 [27]): Use an 'any' constraint, in conjunction with IF PRESENT if appropriate (whole TTCN ASP parameters / TTCN PDU fields / TTCN structured type elements may be omitted according to TR 101 666 [27]). This means that the constraint value specified for the parameter / field / element shall be a reference to another constraint of the appropriate structured type, which may in turn use wildcards for each of it's elements according to the rules specified in the present annex.
- 5. A structured type formal parameter should not be used together with the IF_PRESENT indication inside a structured type constraint. If this is required, then this shall be clearly commented.

E.3.8 TSOs should be passed as many parameters as meaningful to facilitate their implementation

Parameters should be passed to TSOs to facilitate the TSO realization. If a TSO is used in various contexts, this should be reflected in the parameters passed to the TSO. Specifically, TSOs operating on well-defined (parameterized) constraints should take these constraints (including relevant parameters) as parameters if required.

BAD EXAMPLE: In this example, the TSO may be used in many contexts, but no information is passed to the TSO, which makes TSO realization difficult.

L?SETUPr (Sr (SU_GR3(
tcv_invokeld := TSO_GET_INVOKEID (),	GSM_IncomingCallMMInfo_In	
)	voke()))	

GOOD EXAMPLE: In this case, the TSO is provided with information about the data object from which the invoke Id is to be extracted, and the type of component from which the invoke Id is to be extracted is identified by passing the component constraint.

L?SETUPr (Sr (SU_GR3(
tcv_invokeld := TSO_GET_INVOKEID (GSM_IncomingCallMMInfo_In	
DL_DataInd_Setup.msg,	voke()))	
GSM_IncomingCallMMInfo_Invoke()),		
)		

To calculate the invocation identification and store the result in variable tcv_invokeId the TSO has to be provided with information about the data object from which the invoke Id is to be extracted. PDU constraint SU_GR3 may contain several components. In the specific situation only one of these components is relevant.

Depending on the nature of the TSO, passing the received value, or a subcomponent of the received value may be more appropriate than passing the constraint.

E.3.9 Specification of Encoding rules and variation should be indicated

TTCN does not mandate encoding rules, although TTCN foresees that applicable encoding rules and encoding variations can be indicated for the data structures used in a test suite.

There are standards defining encoding rules, e.g. the ITU-T Recommendation X.680 [39] series. However, the type of encoding called "Direct Encoding" - a bit-by-bit-mapping from the data definitions onto the data stream to be transmitted - is not defined anywhere. It therefore needs a "home".

TTCN should therefore define which encoding rules may legally be used by TTCN test suite specifiers. All the encoding rules defined in the ITU-T Recommendation X.680 [39] series should be contained in this repertoire. Additionally an encoding rule called Direct Encoding is needed in particular for tabular TTCN.

ITU-T Recommendation X.680 [39] allows to encode data objects using different length forms (short, long, indefinite). These could be used alternatively as encoding variations. Another encoding variation could be the "minimum encoding", accepting any of the length forms in reception, and using the shortest of the available forms in sending. The variation actually used has to be described somewhere (in the ATS).

E.3.10 Use of global data should be limited

The Phase 2 ATS became extremely complex due to the global definition of data. Data should be defined locally where possible if the language allows, alternatively the names of global constraints could be given prefixes to indicate their use.

E.3.11 Limit ATS scope to a single layer / sub-layer

Separate ATSs should be produced to test each Layer and perhaps sub Layer. By doing this preambles and common areas particular to one sub Layer can be confined to one test suite and parallel development of test suites can be facilitated.

E.3.12 Place system information in specially designed data structures

System Information data could be stored in specially defined data structures, use of these structures to build PDUs may help to ensure that a consistent set of data is transmitted in all the channels in a cell.

E.3.13 Place channel configuration in specially designed data structures

Likewise the configuration of a 'channel' could be stored in similar structures. This data can then be used to configure the test system and to build Assignment messages to the UE under test. This may help avoid the situation where the TTCN creates one channel and unintentionally commands the mobile to a different, non-existent, channel.

E.3.14 PICS / PIXIT parameters

It is desirable to limit the scope of PICS / PIXIT parameters.

A default value shall be provided in the PIXIT document for all PIXIT parameters.

PICS / PIXIT parameters shall not include structured types. If a structured parameter is required, several parameters shall be used, one for each simple element within the type, and a constraint shall be created to combine the simple parameters into a structured type.

For example, to use the following structured type as a parameter.

Type Name	LocAreald_v				
Encoding Variation					
Comments	Location Area Identification Value 3GPP TS 24.008 [9] clause 10.5.1.3				
Element Name	Type Definition	Field Encoding	Comments		
mcc	HEXSTRING[3]		MCC 3 digits		
mnc	HEXSTRING[3]		MNC 3 digits		
lac	OCTETSTRING[2]		LAC		
Detailed Comments					

The following three PIXIT parameters should be defined: Parameter Name	Туре	PICS/PIXIT Ref	Comments
px_LACDef	OCTETSTRING	PIXIT TC	default LAC
px_MCCDef	HEXSTRING	PIXIT TC	default MCC
px_MNCDef	HEXSTRING	PIXIT TC	default MNC

And then the following constraint can be used to combine the simple parameters into a structured parameter.

Constraint Name	cb_LocArealdDef_v		
Structured Type	LocAreald_v		
Derivation Path			
Encoding Variation			
Comments			
Element Name	Element Value	Element Encoding	Comments
mcc	px_MCCDef		
mnc	px_MNCDef		
lac	px_LACDef		
Detailed Comments			

E.3.15 Dynamic vs. static choices

Don't use wildcards for static choice constraints. For example, a type that is similar for FDD and TDD should have 2 type definitions, rather than a single type that uses an ASN.1 choice. Then in the TTCN, the correct type should be selected based on test suite parameters.

E.g.:

```
[ pxUseTddMode ] AM ! TddSpecificAsp
AM ?
...
[ pxUseFddMode ] AM ! FddSpecificAsp
AM ? ...
```

E.3.16 Definition of Pre-Ambles and Post Ambles

Test cases should, as far as possible, use one of a set of standard pre-ambles to place the user equipment in its initial conditions. These pre-ambles should align with the generic setup procedures in the conformance specification. All non-standard pre-ambles should be identified and added to the pre-amble library.

With pre-ambles readability is very important so they should not use other test steps to send message sequences, and they should be passed as few parameters as possible. This also makes the results log easier to read.

The prose message sequence charts should be analysed, and a catalogue of common ways in which the test cases can terminate (correctly) created. This catalogue should be used to create a set of post-ambles. All final verdicts should be assigned in the post-ambles.

Wherever possible, a post-amble should return the test system and the User Equipment under test to a known idle state.

E.3.17 Use test steps to encapsulate AT and MMI commands

When the same AT or MMI command is to be used more than once within a test suite, the command should be placed within a test step, to ensure that the same information is provided consistently. The main intention of this guideline is to ensure that MMI commands provided to the user are consistent, and can be changed easily if required.

For example, a test step similar to the one illustrated in table E.7 should be created and attached so that the same information is provided to the user each time the test step is used, and the string to be sent only exists in one place within the test suite.

Table E.7: Example test step to encapsulate AT / MMI commandsDefault behaviour

Test	Step Na	me	ts_AT_M	MI_Example		
Gro	Group					
Objective Send an MMI command instructing the user to insert the USIM card into the UE.					ie UE.	
Defa	ault					
Comments inform				late an AT / MMI command within a test step to ensure that the same on is used consistently, and the information only exists in one place within the		
Nr	Label	Behaviour Desc	cription	Constraints Ref	Verdict	Comments
1	Ut! MMI_CmdReq		eq	ca_MMICmdReq (" Please insert the USIM card into		
				the UE ")		
2		Ut ? MMI_Cmd	Cnf	ca_MMICmdCnf		

Defaults are test steps that are executed when ever a receive event occurs that is not expected. Not expected means that it does not match any of the defined ASP constraints at that point in the test case. The default behaviour used in test case is defined in the test case declaration. They can be defined to stop the test case by calling a standard post-amble or receive the event as OTHERWISE and RETURN back to step where the unexpected event occurred.

A strategy for dealing with unexpected behaviour involving consistent use of defaults should be developed, and applied to test cases wherever possible.

If during a test case or test step it is necessary to change the default behaviour, the ACTIVATE statement may be used.

E.3.18 Use system failure guard timers

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

E.3.19 Mapping between prose specification and individual test cases

The ATS should map one-to-one between test cases and tests as described in 3GPP TS 34.123-1 [1]. A method for ensuring that the two specifications track each other needs to be defined.

E.3.20 Verdict assignment

E.3.20.1 General

Final verdicts shall only be used to indicate test case errors, or when unexpected UE behaviour occurs such that it not sensible to continue the test. When a test case reaches a leaf node, the test case ends, and the current preliminary verdict is assigned. At least one preliminary verdict shall be assigned for every test case. If a test case terminates and no final or preliminary verdicts have been assigned, the current value of the predefined variable R will be 'none', and a test case error is recorded instead of a final verdict.

Labels shall be used for every line in which a verdict is posted to improve the traceability of the conformance log produced when the test case is executed. These labels should be kept short, since they appear in the dynamic behaviour tables.

All test suites shall make use of a global boolean variable, defined in the common module, called tcv_TestBody. tcv_TestBody is updated within each test case to indicate if the test body is currently being executed. tcv_TestBody is referenced in defaults and test steps to assign a preliminary inconclusive verdict when unexpected events occur outside of the test body, or a preliminary failure verdict when unexpected events occur within the test body.

The initial value in the declaration of the test case variable tcv_TestBody shall be FALSE. The variable will be bound to this value when the ATS is initialized, and will be re-bound to this value after termination of each test case, ready for execution of the next test case.

E.3.20.2 Test cases

A line similar to line 3 in table E.8 shall be used in all test cases to set tcv_TestBody to TRUE. This line shall have the label TBS to indicate the Test Body Start point.

A line similar to line 6 in table E.8 shall be used in all test cases to set tcv_TestBody to FALSE. This line shall have the label TBE[N] to indicate the Test Body End point. A number N (with one or more digits) may optionally be appended to the label to distinguish between multiple test body end points. If the number of possible test sequences makes management of the tcv_TestBody variable too difficult, the variable can be set to TRUE at the beginning of the test. In this case, a comment shall be added to the test case noting that tcv_TestBody is not updated, so verdicts assigned within preambles and postambles will be treated as if they are part of the test body.

Within the test body, preliminary verdicts shall be used to indicate the result of the test purpose. Each behaviour line within the test body containing a preliminary verdict shall have a label of the form TBXN, where X is one of P, F, I for pass, fail, and inconclusive respectively, and N is a number (with one or more digits) used to distinguish multiple TBPs, TBFs, or TBIs in the same test case.

If an unexpected event occurs corresponding to a test case error, a final inconclusive verdict shall be assigned, and the behaviour line shall have a label ERRN, where N is a number used to distinguish multiple ERRs, and ERR indicates that a test case error has occurred. An example of this is provided in the test step clause.

Table E.8 contains an example test case illustrating these concepts.

In case of a failure event of a time consumed test case (longer than 30 minutes), the test case can be stopped by using a final verdict after the execution of the postamble.

Table E.8: Example test case illustrating use of verdicts, labels and tcv_TestBody test case variable

Nr	Label		Behaviour Description	Constraints Ref	Verdict	Comments
1		+ts_Pream	bles			
2	TBS	(tcv_Test	:Body := TRUE)			1
3		L! Stimu	ılus	cs_Stimulus1		
4		+lt_Res	sponse			
5	TBE	(tcv_T	estBody := FALSE)		(P)	2
6		+ts_	Postambles			
		It_Respons	se			
7	TBP1	L? Respor	nse	cr_ValidResponse1	(P)	3
8	TBP2	L? Respor	nse	cr_ValidResponse2	(P)	3
9	TBF1	L? Respor	nse	cr_InvalidResponse	(F)	4
10	TBI1	L? Respor	nse	cr_OtherResponse	(I)	5
The behaviour line setting to The behaviour line setting to Can optionally be used to assepassed or failed (i.e. if the fir attachment). The label TBPN is used to in Nth possible valid UE behave 4. The label TBFN is used to into the Nth possible failure can optionally be used to into the Nth possible failure can be some the setting to can optionally be used to into the Nth possible failure can be some the setting to can optionally be used to into the Nth possible failure can be some the setting to can optionally be used to income the setting to can optionally be used to assept the setting to can optionally be used to assept the setting to can optionally be used to assept the setting to can optionally be used to assept the setting to can optionally be used to assept the setting to can optionally be used to assept the setting to can optionally be used to assept the setting to can optionally be used to assept the setting to can optionally be used to assept the setting to can optionally be used to income the setting t				stBody to FALSE shall he verdict indicating that the haviour statement in the e that the test purpose he that the test purpose he that the test result is income.	nave the label he test purpo te test body is has been ach has not been	TBE, and use has a tree lieved via the achieved, due

E.3.20.3 Test steps

To promote re-use, test steps shall only assign preliminary verdicts (I) and (F). (P) verdicts shall be managed at the test case level in general, but may be used sparingly within test steps. ETR 141 [37] clause 12.4 recommends that a preliminary pass verdict should be assigned at the leaf of each passing event sequence of the test step. If a test step includes an alternative for unexpected / invalid behaviour, then either a preliminary inconclusive verdict shall be assigned if tcv_TestBody is FALSE, or a preliminary failure verdict shall be assigned if tcv_TestBody is TRUE.

Each behaviour line within the test step containing a preliminary verdict shall have a label of the form TSXN, where X is one of P, F or I for pass, fail, and inconclusive respectively, and N is a number (with one or more digits) used to distinguish multiple TSPs, TSFs, or TSIs in the same test step.

If an unexpected event occurs corresponding to a test case error, a final inconclusive verdict shall be assigned, and the behaviour line shall have a label ERRN, where N is a number used to distinguish multiple ERRs, and ERR indicates that a test case error has occurred.

Table E.9 contains an example test step illustrating these concepts.

Table E.9: Example test step illustrating use of verdicts, labels and tcv_TestBody test case variable

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		[p_Mode = tsc_Mode1]			
2		L! Stimulus	cs_Stimulus1		
3		+lt_Response			
4		[p_Mode = tsc_Mode2]			
5		L! Stimulus	cs_Stimulus2		
6		+lt_Response			
7	ERR1	[TRUE]		I	1
		It_Response			
8		L ? Response	cr_ValidResponse1		2
9		L ? Response	cr_InvalidResponse		
10	TSI1	[tcv_TestBody = FALSE]		(I)	3
11	TSF1	[tcv_TestBody = TRUE]		(F)	4
Deta	ailed con	 An invalid value for the parameter final inconclusive verdict is assign occurred. If the expected behaviour occurs, the current preliminary verdict is not a second of the current preliminary verdict is not preamble or postamble (tov_Test verdict is assigned. If unexpected / invalid behaviour opart of the test purpose (tov_Test assigned. 	then the test step completed to the test step completed to changed. Securs, and the current to body = FALSE then a procurs, and the current to cours, and the current to	g that a test etes at the lest step is be oreliminary in the est step is be	eaf node, and eing used as a anconclusive eing used as

E.3.20.4 Defaults

Each behaviour line within a default behaviour table containing a preliminary verdict shall have a label of the form DFXN, where X is one of F or I for fail, and inconclusive respectively, and N is a number (with one or more digits) used to distinguish multiple DFFs, or DFIs in the same test step.

tcv_TestBody shall be referenced from within default behaviour tables to assign the appropriate verdict when unexpected events occur.

Table E.10 contains an example default behaviour table illustrating these concepts.

Table E.10: Example default behaviour table illustrating use of verdicts, labels and tcv_TestBody test case variable

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		L ? Response	cr_IgnoredResponse		1
2		RETURN			
3	DFI1	L ? OTHERWISE [tcv_TestBody = FALSE]		(I)	2
4	DFF1	L ? OTHERWISE [tcv_TestBody = TRUE]		(F)	3
Detailed comments 1. Valid events that are to be ignored can be included in the default behaviour, but should have no preliminary verdict assigned. 2. If unexpected data is received in the preambles or postambles, a preliminary inconclusive verdict is assigned, and the test case is terminated. 3. If unexpected data is received in the test body, a preliminary failure verdict is assigned, and the test case is terminated.					

See also ETR 141 [37] clauses 11.2, 12.4 and 14.3.

E.3.21 Test suite and test case variables

A default value shall be provided for all test suite and test case variables.

E.3.22 Use of macros is forbidden

The use of macros is forbidden, to support migration to TTCN3.

E.3.23 Support for future Radio Access Technologies

To allow existing test cases to be updated in future to support other radio access technologies, test suites shall make use of a PIXIT parameter px_RAT of type RatType as shown in the following example.

Test	Test Case Name tc_RAT_Example1								
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments				
1		START t_Guard(300)							
2		[px_RAT = fdd]							
3		PCO!FDD_PDU	c_FDD_PDU1		FDD specific behaviour				
4	TBP1	PCO ? COMMON_PDU	c_COMMON_PDU1	(P)					
5		$[px_RAT = tdd]$							
6		PCO!TDD_PDU	c_TDD_PDU1		TDD specific behaviour				
7	TBP2	PCO ? COMMON_PDU	c_COMMON_PDU1	(P)					
8		[px_RAT = other_rat]		I	Tests for this RAT not implemented yet				
9	TCE1	[TRUE]		I	Unexpected px_RAT value				
Deta	Detailed Comments								

In general, alternatives should be used to separate behaviour specific for each RAT, and common behaviour should be re-used as much as possible. A final inconclusive verdict shall be used for any alternatives that have not been implemented yet.

Local trees may be used as shown in the following example to improve re-use of common behaviour.

Test Case Name

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments			
1		START t_Guard(300)						
2		+lt_RAT_SpecificPart						
3	TBP1	PCO ? COMMON_PDU	c_COMMON_PDU1	(P)	Common behaviour			
		It_RAT_SpecificPart						
4		[px_RAT = fdd]						
5		PCO!FDD_PDU	c_FDD_PDU1		FDD specific behaviour			
6		$[px_RAT = tdd]$						
7		PCO!TDD_PDU	c_TDD_PDU1		TDD specific behaviour			
8	TCE1	[TRUE]		(I)	Unexpected px_RAT value			
Detailed Comments								

E.3.24 Managing multiple representations of the same information

When the same information is represented using multiple types within the same test suite, it is necessary to manage conversions between the types, and ensure that the information remains consistent across all of the representations.

For example, IMSI is represented as 'SEQUENCE (SIZE (6..15)) OF Digit' in the RRC ASN.1 definitions, as a HEXSTRING for input as a PIXIT parameter, and as an information element defined in TTCN tabular format for MM.

E.3.24.1 Predefined types

Conversion operations are not required to convert the following TTCN predefined types to their counterparts in ASN.1.

- a) INTEGER predefined type.
- b) BOOLEAN predefined type.

- c) BITSTRING predefined type.
- d) HEXSTRING predefined type.
- e) OCTETSTRING predefined type.
- f) OBJECTIDENTIFIER predefined type.
- g) R_TYPE predefined type.
- h) CharacterString predefined types.

Therefore it is valid to pass a value of type BIT STRING (ASN.1) as a formal parameter of type BITSTRING (TTCN predefined).

E.3.24.2 Simple types

TR 101 666 [27] clause 11.2.1 states:

- "TTCN is a weakly typed language, in that values of any two types which have the same base type are considered to be type compatible (e.g. for the purposes of performing assignments or parameter passing)".

When simple types have restrictions, it is the TTCN author's responsibility to ensure that the restrictions are compatible. The TTCN compiler provides some assistance with this, but the extent of the checking is compiler specific.

E.3.24.3 Structured types

For conversion between more complex representations, test suite operations will generally be required. If the mapping is simple enough, it may be possible to perform the conversion using a test step, which takes the common representation as a parameter, and stores the required representation in a test case variable. This may avoid the need for an extra test suite operation.

E.3.24.4 Conversion responsibility

Two design approaches are possible for deciding where the responsibility of conversion lies: Calling party conversion and called party conversion.

The appropriate option should be selected on a case-by-case basis with the following restrictions:

- If one representation of the information is a PIXIT parameter, and this information must be passed to a test step, the called party conversion option shall be used, and the formal parameter to the test step shall always have the same type as the PIXIT parameter.
- If a test step provides multiple alternatives for different radio access technologies, which require different representations of the same information, the called party conversion convention shall be used. In this case a technology independent representation of the information shall be passed as a parameter, and the test step shall perform the conversion to the appropriate type depending on which RAT is being used.

E.3.24.5 Option 1: Calling party conversions

For this approach, each test step provides an interface based on its internal representation. It is the responsibility of the test case / step attaching the test step to perform the conversion before the attachment.

E.3.24.5.1 Advantages

- The number of calls to conversion operations is minimized.
- The complexity of the attached test steps is reduced because fewer conversions are required than for the called party conversion approach.

E.3.24.5.2 Disadvantages

- Different types are used to transfer the same information across the test step interfaces.
- The complexity of the attaching test steps / cases may be increased because conversions are required before attaching a test step.
- The attaching test steps / cases are responsible for ensuring that multiple representations contain consistent information.

E.3.24.6 Option 2: Called party conversions

In this case, the same representation is used wherever the information must be used as a formal parameter value to a test step, and it is the responsibility of the test step to perform any conversions required.

E.3.24.6.1 Advantages

- The complexity in the attaching test case / step is reduced, which will often improve readability.
- The test step interfaces are cleaner, because the same representation is always passed as a formal parameter.
- Internal representations may be hidden within test steps so that calling parties do not need to have any knowledge of them.

E.3.24.6.2 Disadvantages

- Conversion operations may be called more times than necessary, for example if the same test step is attached twice within one test case.

E.3.25 Assignment using constraint

According to TR 101 666 [27], the Right Hand Side (RHS) of an assignment shall not contain any unbound variables. The matching symbols, AnyValue or AnyOrOmit, in both tabular and ASN.1 constraints shall not be assigned to a test case variable, independent of the type of the test case variable.

E.3.26 Guidelines for use of timers when tolerances are applicable

Timed events within the test suite should implement the timer tolerances specified in 3GPP TS 34.108 [3], clause 4.2.3. It is the TTCN author's responsibility to ensure that appropriate tolerance checks and tolerance values are being used.

NOTE: Tolerances are not applicable to guard timers as described in clause E.3.18 of the present document.

E.3.26.1 Specific situations

The present clause provides recommendations for how to implement timers with tolerances for the following situations:

- a) The timed event must occur before a given time.
- b) The timed event must occur after a given time.
- c) The timed event must occur between two given times.

NOTE: A specific case of this situation is when the desired event occurs at a specific time, plus or minus a tolerance.

E.3.26.2 Example situations

The examples below assume:

- a) The test case variable tcv_Duration contains the timer duration (in terms of the units used in the timer declaration).
- b) The test case variable tcv_Tolerance has been initialized using one of the following assignments (it is the TTCN author's responsibility to select the calculation resulting in the greatest value of tcv_Tolerance. Reference 3GPP TS 34.108 [3], clause 4.2.3):
 - 1) (tcv_Tolerance := tcv_Duration / 10)
 - 2) (tcv_Tolerance := 2 * tcv_TTI + tsc_T_Delta)
 Where tcv_TTI contains the applicable TTI (in ms), and tsc_T_Delta is 55 ms.

NOTE: The timer value parameters used when starting the timers in the examples are recommendations only. Other timer value parameter expressions may be used if appropriate.

E.3.26.2.1 Example of situation 1

Tes	Test Step Name ts_TimerSituation1Example						
Pur	pose		To demonstrate implementation of a timed ev	vent that must occ	ur before	a given time.	
Nr	Label		Behaviour Description Constraints Ref Verdict Com				
1			Tt_UpperBound (tcv_Duration + lerance)			1.	
2		+lt_Ti	medEvent			2.	
3	TSP1	CAN	ICEL t_UpperBound		(P)	3.	
4	TSF1	? TIM	EOUT t_UpperBound		(F)	4.	
		It_Time	edEvent				
5		[TRUE	[]			2.	
Detailed Comments			 Start the timer, allowing tcv_Tolerance extra units for the timed event to arrive. The timed event is observed. The timed event occurred before the timeout, so cancel the timer, and assign a preliminary pass verdict. The timer expired before the timed event occurred, so assign a preliminary failure verdict. 				

E.3.26.2.2 Example of situation 2

Tes	t Step N	lame ts_	TimerSituation2Example			
Pur	pose	To	demonstrate implementation of a timed even	ent that must occu	r after a g	iven time.
Nr	Label		Behaviour Description	Constraints Ref	Verdict	Comments
1		START t	_LowerBound (tcv_Duration -			1.
L'		tcv_Tole	rance)			1.
2		? TIME	OUT t_LowerBound			2.
3		+lt_Tir	medEvent			3.
4	TSP1	[TRI	JE]		(P)	3.
5		+lt_Tim	edEvent			4.
6	TSF1	CANC	EL t_LowerBound		(F)	4.
		It_Timed	Event			
7		[TRUE]				
Detailed Comments			 Start the timer, allowing tcv_Tolerance extra units for the timed event to arrive. The timeout is observed before the timed event. The timed event is observed, so assign a preliminary pass verdict. The timed event occurred before the timeout, so cancel the timer, and assign a preliminary failure verdict. 			

E.3.26.2.3 Example of situation 3

Test S	tep Nai	me	ts_Time	s_TimerSituation3Example				
Purpos	se		To demo	demonstrate implementation of a timed event that must occur between two givennes.				
Nr	Label			Behaviour Description	Constraints Ref	Verdic t	Comments	
1		tcv_ STA	Toleranc	verBound (tcv_Duration -			1.	
2		? T	? TIMEOUT t_LowerBound 2.				2.	
3		+11	+It_TimedEvent 3				3	
4	TSP1	(CANCEL	t_UpperBound		(P)	3.	
5	TSF1	?	? TIMEOUT t_UpperBound (F) 4.				4.	
6		+lt_	TimedE	vent			5.	
7	TSF2		ANCEL to perBour	_LowerBound , CANCEL id		(F)		
		lt_Tir	medEve	nt				
8		[TRI	UE]					
Detailed Comments			2. 3. 4.	 Start the upper and lower bound timers, allowing tcv_Tolerance extra units each side of the expected time for the timed event to arrive. The lower bound timeout is observed before the timed event. The timed event is observed, so cancel the upper bound timer, and a preliminary pass verdict is assigned. The upper bound timer expired before the timed event occurred, so a preliminary failure verdict is assigned. The timed event occurred before the lower bound timer expired, so a preliminary failure verdict is assigned. 				

Annex F (informative): Void

Void.

Annex G (informative): Recommendation of an unique ICS/IXIT electronic exchange format

With standardization of ICS/IXIT file format, same Test Suite Parameter (TSP) files can be used across different System Simulators. The ICS/PIXIT will be simple ASCII text files. The assumption is that the test suite parameters are of simple type definitions only and do not include structured types (clause E.3.14).

G.1 Syntax

The proposed format of the ICS/IXIT file is as follows:

[<Parameter Name> <Parameter Type> <Value>] [<#Comment>]

- At the most one TSP value can be defined in a line.
- The comment starts with # and ends with new line.
- [..] represent OPTIONAL field(s).
- <..> represent MANDATORY field(s).
- Fields will be separated by one or more space characters.

The syntax for different Parameter Types will be as follows:

INTEGER

<Parameter Name> INTEGER <Integer Value>

- BOOLEAN

<Parameter Name> BOOLEAN <Value>

NOTE 1: Here Value will be either 'TRUE' or 'FALSE'.

- BITSTRING

<Parameter Name> BITSTRING <Value>

HEXSTRING

<Parameter Name> HEXSTRING <Value>

OCTETSTRING

<Parameter Name> OCTETSTRING <Value>

- ENUMERATED

<Parameter Name> ENUMERATED <Integer Value>

IA5String

<Parameter Name> IA5String "<Value>"

NOTE 2: Here Value will be string and is mandatory to put the actual value in double quotes.

G.2 Examples

This clause gives an example of ICS/IXIT file format.

# TSP file version 1.0.0								
px_CS	BOOLEAN	TRUE	# TRUE if Circuit Switched is applicable					
px_PTMSI_Def	OCTETSTRING	12345678	#Default PTMSI					
px_RAT	ENUMERATED	0	<pre>#px_RAT is of Type RatType and is of Type of ENUMERATED {fdd(0), tdd(1)}.</pre>					
px_Region IA5String ("Europe", Japan").		"Europe"	#px_Region is of Type Region and is of Type IA5String					
px_PriScrmCode	eA	INTEGER	100 #px_PriScrmCodeA is of Type PrimaryScramblingCode					
and is of Type			INTEGER (0511).					
px_SRNC_Id STRING	BITSTRING	00000000001	#px_SRNC_Id is of Type SRNC_Identity and is of Type BIT					
STRING			(SIZE(12)).					
px_IMSI_Def	HEXSTRING	001010123456063	3 #Default IMSI					
1								

Annex H (informative): A-GPS ASN.1 module

```
Lcs-Definitions DEFINITIONS ::=
__***************
-- From ITU-T Rec. X.880 (July/1994)
Code ::= CHOICE {
       local INTEGER,
global OBJECT IDENTIFIER
__*******************
-- From 3GPP TS 29.002
__****************
NotificationToMSUser ::= ENUMERATED {
   notifyLocationAllowed (0),
   notifyAndVerify-LocationAllowedIfNoResponse (1),
   notifyAndVerify-LocationNotAllowedIfNoResponse (2),
   locationNotAllowed (3) }
    -- exception handling:
    -- At reception of any other value than the ones listed the receiver shall ignore
    -- NotificationToMSUser.
LocationType ::= SEQUENCE {
                                 [0] IMPLICIT LocationEstimateType,
   locationEstimateType
   deferredLocationEventType [1] IMPLICIT DeferredLocationEventType OPTIONAL }
LocationEstimateType ::= ENUMERATED {
   currentLocation (0),
   currentOrLastKnownLocation (1),
   initialLocation (2),
   activateDeferredLocation (3),
   cancelDeferredLocation (4) }
    -- exception handling:
    -- a ProvideSubscriberLocation-Arg containing an unrecognized LocationEstimateType
    -- shall be rejected by the receiver with a return error cause of unexpected data value
DeferredLocationEventType ::= BIT STRING {
   msAvailable (0) } (SIZE (1..16))
    -- exception handling
    -- a ProvideSubscriberLocation-Arg containing other values than listed above in
    -- DeferredLocationEventType shall be rejected by the receiver with a return error cause of
    -- unexpected data value.
\verb|LCSClientExternalID| ::= SEQUENCE | \{
   externalAddress [0] IMPLICIT ISDN-AddressString OPTIONAL,
   extensionContainer [1] IMPLICIT ExtensionContainer OPTIONAL,
LCSClientName ::= SEQUENCE {
   dataCodingScheme [0] IMPLICIT USSD-DataCodingScheme,
   nameString
              [2] IMPLICIT NameString,
    -- The USSD-DataCodingScheme shall indicate use of the default alphabet through the following
encoding
    -- bit 7 6 5 4 3 2 1 0
               0 0 0 0 1 1 1 1
```

```
NameString ::= USSD-String (SIZE (1..maxNameStringLength))
maxNameStringLength INTEGER ::= 63
USSD-DataCodingScheme ::= OCTET STRING (SIZE (1))
    -- The structure of the USSD-DataCodingScheme is defined by the Cell
    -- Broadcast Data Coding Scheme as described in TS 3GPP TS 23.038 [55]
LCSRequestorID ::= SEQUENCE {
    dataCodingScheme [0] IMPLICIT USSD-DataCodin requestorIDString [1] IMPLICIT RequestorIDString,
                            [0] IMPLICIT USSD-DataCodingScheme,
{\tt RequestorIDString ::= USSD-String (SIZE (1..maxRequestorIDStringLength))}
maxRequestorIDStringLength INTEGER ::= 63
LCSCodeword ::= SEQUENCE {
    dataCodingScheme
                            [0] IMPLICIT USSD-DataCodingScheme,
    lcsCodewordString [1] IMPLICIT LCSCodewordString,
LCSCodewordString ::= USSD-String (SIZE (1..maxLCSCodewordStringLength))
maxLCSCodewordStringLength INTEGER ::= 20
LCSServiceTypeID ::= INTEGER (0..127)
    -- the integer values 0-63 are reserved for Standard LCS service types
    -- the integer values 64-127 are reserved for Non Standard LCS service types
USSD-String ::= OCTET STRING (SIZE (1..maxUSSD-StringLength))
   -- The structure of the contents of the USSD-String is dependent
    -- on the USSD-DataCodingScheme as described in TS 3GPP TS 23.038 [25].
maxUSSD-StringLength INTEGER ::= 160
ISDN-AddressString ::= AddressString (SIZE (1..maxISDN-AddressLength))
     - This type is used to represent ISDN numbers.
maxISDN-AddressLength INTEGER ::= 9
AddressString ::= OCTET STRING (SIZE (1..maxAddressLength))
    -- This type is used to represent a number for addressing purposes. It is
    -- composed of
    -- a) one octet for nature of address, and numbering plan indicator.
    -- b) digits of an address encoded as TBCD-String.
           The first octet includes a one bit extension indicator, a
    -- a)
            3 bits nature of address indicator and a 4 bits numbering
           plan indicator, encoded as follows:
    -- bit 8: 1 (no extension)
    -- bits
               765: nature of address indicator
                   000 unknown
                    001 international number
    --
                    010 national significant number
    _ _
                    011 network specific number
                    100 subscriber number
                    101 reserved
                    110 abbreviated number
                    111 reserved for extension
    -- bits 4321: numbering plan indicator
                           unknown
                   0000
                               ISDN/Telephony Numbering Plan (Rec ITU-T E.164)
    --
                    0001
                              spare data numbering plan (ITU-T Rec X.121)
    --
                   0010
                   0011
                   0100
0101
    _ _
                               telex numbering plan (ITU-T Rec F.69)
                                spare
```

```
land mobile numbering plan (ITU-T Rec E.212)
                    0110
                               spare
national numbering plan
                    0111
                    1000
    --
                    1001
                               private numbering plan
                    1111
                                 reserved for extension
    -- all other values are reserved.
    -- b) The following octets representing digits of an address
            encoded as a TBCD-STRING.
maxAddressLength INTEGER ::= 20
LCS-QoS ::= SEQUENCE {
  horizontal-accuracy
                               [0] IMPLICIT Horizontal-Accuracy OPTIONAL,
   verticalCoordinateRequest [1] IMPLICIT NULL OPTIONAL,
   vertical-accuracy [2] IMPLICIT Vertical-Accuracy OPTIONAL, responseTime [3] IMPLICIT ResponseTime OPTIONAL,
    extensionContainer
                                   [4] IMPLICIT ExtensionContainer OPTIONAL,
Horizontal-Accuracy ::= OCTET STRING (SIZE (1))
    -- bit 8 = 0
    -- bits 7-1 = 7 bit Uncertainty Code defined in 3GPP TS 23.032. The horizontal location
    -- error should be less than the error indicated by the uncertainty code with 67%
    -- confidence.
\label{eq:Vertical-Accuracy} \mbox{ ::= OCTET STRING (SIZE (1))}
    -- bit 8 = 0
    -- bits 7-1 = 7 bit Vertical Uncertainty Code defined in 3GPP TS 23.032.
    -- The vertical location error should be less than the error indicated
    -- by the uncertainty code with 67% confidence.
ResponseTime ::= SEQUENCE {
   responseTimeCategory
                               ResponseTimeCategory,
     -- note: an expandable SEQUENCE simplifies later addition of a numeric response time.
ResponseTimeCategory ::= ENUMERATED {
    lowdelay (0),
    delaytolerant (1),
    . . .
     -- exception handling:
     -- an unrecognized value shall be treated the same as value 1 (delaytolerant)
{\tt SupportedGADShapes} \ ::= \ {\tt BIT} \ {\tt STRING} \ \big\{
    ellipsoidPoint (0),
    ellipsoidPointWithUncertaintyCircle (1),
    ellipsoidPointWithUncertaintyEllipse (2),
    polygon (3),
    ellipsoidPointWithAltitude (4),
    ellipsoidPointWithAltitudeAndUncertaintyElipsoid (5),
    ellipsoidArc (6) } (SIZE (7..16))
     -- A node shall mark in the BIT STRING all Shapes defined in 3GPP TS 23.032 it supports.
     -- exception handling: bits 7 to 15 shall be ignored if received.
Ext-GeographicalInformation ::= OCTET STRING (SIZE (1..maxExt-GeographicalInformation))
    -- Refers to geographical Information defined in 3GPP TS 23.032.
    -- This is composed of 1 or more octets with an internal structure according to
    -- 3GPP TS 23.032
    -- Octet 1: Type of shape, only the following shapes in 3GPP TS 23.032 are allowed:
            (a) Ellipsoid point with uncertainty circle
            (b) Ellipsoid point with uncertainty ellipse
    - -
            (c) Ellipsoid point with altitude and uncertainty ellipsoid
            (d) Ellipsoid Arc
            (e) Ellipsoid Point
    -- Any other value in octet 1 shall be treated as invalid
    -- Octets 2 to 8 for case (a) Ellipsoid point with uncertainty circle
           Degrees of Latitude 3 octets
Degrees of Longitude 3 oct
Uncertainty code 1 octet
                                                3 octets
                                            1 octet
    -- Octets 2 to 11 for case (b) Ellipsoid point with uncertainty ellipse:
```

```
Degrees of Latitude
                                                3 octets
            Degrees of Longitude 3 octets
Uncertainty semi-major axis 1 octet
Uncertainty semi-minor axis 1 octet
Angle of major axis 1 octet
Confidence 1 octet
Ets 2 to 14 for case (c) Ellin
    --
    -- Octets 2 to 14 for case (c) Ellipsoid point with altitude and uncertainty ellipsoid
           Degrees of Latitude 3 octets
Degrees of Longitude 3 oct
Altitude 2 octets
                                                   3 octets
    _ _
            Uncertainty semi-major axis 1 octet
Uncertainty semi-minor axis 1 octet
    ___
           Angle of major axis 1 octet
Uncertainty altitude 1 octet
Confidence 1 octet
    _ _
    --
    -- Octets 2 to 13 for case (d) Ellipsoid Arc
           Degrees of Latitude 3 octets
Degrees of Longitude 3 oct
Inner radius 2 octets
Uncertainty radius 1 octet
Offset angle 1 octet
Included angle 1 octet
Confidence 1 octet
Total 2 to 7 for any (a) Ellipsoid Point
    - -
    --
                                                     3 octets
    _ _
    --
    _ _
    -- Octets 2 to 7 for case (e) Ellipsoid Point
         Degrees of Latitude 3 octets
Degrees of Longitude 3 oct
                                                      3 octets
    -- An Ext-GeographicalInformation parameter comprising more than one octet and
    -- containing any other shape or an incorrect number of octets or coding according
    -- to 3GPP TS 23.032 shall be treated as invalid data by a receiver.
    -- An Ext-GeographicalInformation parameter comprising one octet shall be discarded
    -- by the receiver if an Add-GeographicalInformation parameter is received
    -- in the same message.
    -- An Ext-GeographicalInformation parameter comprising one octet shall be treated as
    -- invalid data by the receiver if an Add-GeographicalInformation parameter is not
    -- received in the same message.
maxExt-GeographicalInformation INTEGER ::= 20
    -- the maximum length allows for further shapes in 3GPP TS 23.032 to be included in later
    -- versions of 3GPP TS 29.002
Add-GeographicalInformation ::= OCTET STRING (SIZE (1..maxAdd-GeographicalInformation))
    -- Refers to geographical Information defined in 3GPP TS 23.032.
    -- This is composed of 1 or more octets with an internal structure according to
    -- 3GPP TS 23.032
    -- Octet 1: Type of shape, all the shapes defined in 3GPP TS 23.032 are allowed:
    -- Octets 2 to n (where n is the total number of octets necessary to encode the shape
    -- according to 3GPP TS 23.032) are used to encode the shape itself in accordance with the
    -- encoding defined in 3GPP TS 23.032
    -- An Add-GeographicalInformation parameter, whether valid or invalid, received
    -- together with a valid Ext-GeographicalInformation parameter in the same message
    -- shall be discarded.
    -- An Add-GeographicalInformation parameter containing any shape not defined in
    -- 3GPP TS 23.032 or an incorrect number of octets or coding according to
    -- 3GPP TS 23.032 shall be treated as invalid data by a receiver if not received
    -- together with a valid Ext-GeographicalInformation parameter in the same message.
maxAdd-GeographicalInformation INTEGER ::= 91
    -- the maximum length allows support for all the shapes currently defined in 3GPP TS 23.032
-- Derived from ITU-T Rec. Q.773 (June/1997)
*************
Component ::= CHOICE {
    invoke [1] IMPLICIT Invoke,
             returnResultLast [2] IMPLICIT ReturnResult,
returnError [3] IMPLICIT ReturnError,
reject [4] IMPLICIT Reject
```

```
-- The used part of Q.773 is almost the same as the component portion of TC messages. The only
-- difference is that returnResultNotLast is not used. (see 24.080, clause 3.6.1)
Invoke ::= SEQUENCE {
            invokeID
                            InvokeIdType,
            linkedID
                           [0] IMPLICIT InvokeIdType OPTIONAL,
            operationCode
                                Code,
                        -- local:116 for lcsNotification
                        -- local:115 for lcs-MOLR
            parameter
                            InvokeArgument OPTIONAL
ReturnResult ::= SEQUENCE {
            invokeID
                            InvokeIdType,
                            SEQUENCE {
            result
                operationCode
                                  Code,
                            -- local:116 for lcsNotification
                             -- local:115 for lcs-MOLR
                parameter
                                         ReturnRes
                                                 } OPTIONAL
            }
ReturnError ::= SEQUENCE {
            invokeID
                            InvokeIdType,
            errorCode
                            Code,
                        -- local:34 for SystemFailure
-- local:36 for UnexpectedDataValue
                        -- local:35 for DataMissing
                         -- local:21 for FacilityNotSupported
                        -- local:19 for SS-SubscriptionViolation
                        -- local:54 for PositionMethodFailure
                            ReturnErrPara OPTIONAL
            parameter
Reject ::= SEQUENCE {
            invokeID CHOICE {
                derivable
                                        InvokeIdType,
                not-derivable
                                   \mathtt{NULL} \} ,
            problem CHOICE {
                                             [0] IMPLICIT GeneralProblem,[1] IMPLICIT InvokeProblem,
                generalProblem
                invokeProblem
                returnResultProblem [2] IMPLICIT ReturnResultProblem,
                returnErrorProblem [3] IMPLICIT ReturnErrorProblem }
                }
InvokeIdType ::= INTEGER (-128..127)
GeneralProblem ::= INTEGER {
                    unrecognizedComponent (0),
                    mistypedComponent (1),
                    badlyStructuredComponent (2) }
                    INTEGER {duplicateInvokeID (0),
InvokeProblem ::=
                    unrecognizedOperation (1),
                    mistypedParameter (2),
                    resourceLimitation (3),
                    initiatingRelease (4),
                    unrecognizedLinkedID (5),
                     linkedResponseUnexpected (6),
                    unexpectedLinkedOperation (7) }
ReturnResultProblem ::= INTEGER {unrecognizedInvokeID (0),
                 returnResultUnexpected (1),
                 mistypedParameter (2) }
ReturnErrorProblem ::= INTEGER {unrecognizedInvokeID (0),
                 returnErrorUnexpected (1),
                 unrecognizedError (2),
                 unexpectedError (3),
                 mistypedParameter (4) }
```

```
--Derived from SS-DataTypes in 3GPP TS 24.080 ver.540
__*********************
Components ::= SET OF Component
InvokeArgument ::= CHOICE {
                            lcsNotification [0] EXPLICIT LocationNotificationArg,
                            lcs-MOLR [1] EXPLICIT LCS-MOLRArg
                                                 }
                ::= CHOICE {
ReturnRes
                             lcsNotifficationRes [0] EXPLICIT LocationNotificationRes,
                            lcsMOLRRes [1] EXPLICIT LCS-MOLRRes
ReturnErrPara
               ::= CHOICE {
                    lcsNotifficationErrPara [0] EXPLICIT LcsNotificationErrPara, lcs-MOLR-ResErrPara [1] EXPLICIT Lcs-MOLR-ErrPara
\verb|LocationNotificationArg| ::= \verb|SEQUENCE| | |
   notificationType [0] IMPLICIT NotificationToMSUser, locationType [1] IMPLICIT LocationType
                                [1] IMPLICIT LocationType,
    locationType
    lcsClientExternalID [2] IMPLICIT LCSClientExternalID OPTIONAL,
    lcsClientName
                               [3] IMPLICIT LCSClientName OPTIONAL,
    lcsRequestorID [4] IMPLICIT LCSRequestorID OPTIONAL, lcsCodeword [5] IMPLICIT LCSCodeword OPTIC
                                                                  OPTIONAL,
                               [6] IMPLICIT LCSServiceTypeID OPTIONAL
    lcsServiceTypeID
    }
     -- exception handling:
     -- At reception of an unrecognized notificationType value the receiver shall reject the
     -- operation with a return error cause of unexpected data value.
     -- At reception of an unrecognized locationType value the receiver shall reject the
     -- operation with a return error cause of unexpected data value.
LocationNotificationRes ::= SEQUENCE {
           verificationResponse [0] IMPLICIT VerificationResponse OPTIONAL,
VerificationResponse::= ENUMERATED {
   permissionDenied (0),
   permissionGranted (1),
    ...}
     -- exception handling:
     -- an unrecognized value shall be treated the same as value 0 (permissionDenied)
LcsNotificationErrPara
                          ::= CHOICE {
                                systemFailure [0] EXPLICIT SystemFailureParam,
                                unexpectedDataValue [1] EXPLICIT
                                                                     UnexpectedDataParam
     -- This is derived from information object "lcs-LocationNotification"
LCS-MOLRArg ::= SEQUENCE {
                                                     [0] IMPLICIT
                    molr-Type
                                                                   MOLR-Type,
                    locationMethod
                                                [1] IMPLICIT LocationMethod
                                                                                         OPTIONAL,
                    lcs-QoS [2] IMPLICIT LCS-QoS OF lcsClientExternalID [3] IMPLICIT LCSClientExternalID OPTIONAL,
                                                                                          OPTIONAL,
                                                                                        OPTIONAL,
                                                [4] IMPLICIT ISDN-AddressString
                    mlc-Number
gpsAssistanceData
                    mlc-Number
                                            [5] IMPLICIT GPSAssistanceData
                                                                                      OPTIONAL,
    . . . ,
                   supportedGADShapes
                                           [6] IMPLICIT SupportedGADShapes
                                                                                    OPTIONAL
    }
```

```
-- The parameter locationMethod shall be included if and only if the
     -- molr-Type is set to value deCipheringKeys or assistanceData.
     -- The parameter gpsAssistanceData shall be included if and only if the
     -- molr-Type is set to value assistanceData and
     -- locationMethod is set to value assistedGPS.
MOLR-Type ::= ENUMERATED {
    locationEstimate (0), assistanceData (1), deCipheringKeys (2),
    -- exception handling:
    -- an unrecognized value shall be rejected by the receiver with a return error cause of
    -- unexpected data value.
LocationMethod ::= ENUMERATED {
   msBasedEOTD (0), msAssistedEOTD (1), assistedGPS
                                                       (2).
    msBasedOTDOA
                 (3)
    }
    -- exception handling:
    -- When this parameter is received with value msBasedEOTD or msAssistedEOTD and the MS
    -- is camped on an UMTS Service Area then the receiver shall reject it
     -- with a return error cause of unexpected data value.
     -- When this parameter is received with value msBasedOTDOA and the MS
     \mbox{--} is camped on a GSM Cell then the receiver shall reject it with
    -- a return error cause of unexpected data value.
     -- an unrecognized value shall be rejected by the receiver with
     -- a return error cause of unexpected data value.
GPSAssistanceData ::= OCTET STRING (SIZE (1..38))
     -- Octets 1 to 38 are coded in the same way as the octets 3 to 7+2n
     -- of Requested GPS Data IE in 3GPP TS 49.031.
LCS-MOLRRes ::= SEQUENCE {
                               [0] IMPLICIT Ext-GeographicalInformation
                                                                         OPTIONAL,
    locationEstimate
                     [1] IMPLICIT DecipheringKeys
                                                                 OPTIONAL,
    decipheringKeys
    add-LocationEstimate [2] IMPLICIT Add-GeographicalInformation OPTIONAL
    -- Parameters locationEstimate or add-LocationEstimate (one but not both)
     -- shall be included if and only if the
    -- molr-Type in LocationRequestArg was set to value locationEstimate.
     -- Parameter add-LocationEstimate shall not be included
     -- if the supportedGADShapes parameter was not received in the LCS-MOLRArg.
     -- The locationEstimate and the add-locationEstimate parameters shall not be
     -- sent if the supportedGADShapes parameter has been received in LCS-MOLRArg
     -- and the shape encoded in locationEstimate or add-LocationEstimate \,
     -- is not marked as supported in supportedGADShapes.
     -- In such a case LCS-MOLRArg shall be rejected with error
     -- FacilityNotSupported with additional indication
     -- shapeOfLocationEstimateNotSupported.
     -- Parameter decipheringKeys shall be included if and only if the molr-Type
     -- in LocationRequestArg was set to value deCipheringKeys.
DecipheringKeys ::= OCTET STRING (SIZE (15))
     -- Octets in DecipheringKeys are coded in the same way as the octets 3 to 17
     -- of Deciphering Key IE in 3GPP TS 49.031. I.e. these octets contain
     -- Current Deciphering Key, Next Deciphering Key and Ciphering Key Flag.
Lcs-MOLR-ErrPara ::= CHOICE {
                                                         SystemFailureParam,
                systemFailure
                                  [0] EXPLICIT
                unexpectedDataValue [1] EXPLICIT
                                                           UnexpectedDataParam,
               dataMissing [2] EXPLICIT
                                                          DataMissingParam,
                                                          FacilityNotSupParam,
                facilityNotSupported [3] EXPLICIT
                ss-SubscriptionViolation [4] EXPLICIT
                                                           SS-SubscriptionViolationParam,
                positionMethodFailure [5] EXPLICIT
                                                           PositionMethodFailure-Param
     -- This is derived from information object "lcs-MOLR"
```

```
__********************
-- Derived from MAP-Errors 3GPP 29.002
SystemFailureParam ::= CHOICE {
          networkResource
                                                 NetworkResource,
           -- networkResource must not be used in version {\bf 3}
           extensibleSystemFailureParam ExtensibleSystemFailureParam
           -- extensibleSystemFailureParam must not be used in version <3
NetworkResource ::= ENUMERATED {
   plmn (0),
   hlr (1),
   vlr (2),
   pvlr (3),
   controllingMSC (4),
   vmsc (5),
   eir (6),
   rss (7)}
ExtensibleSystemFailureParam ::= SEQUENCE {
           networkResource NetworkResource
                                                     OPTIONAL.
           extensionContainer
                                  ExtensionContainer OPTIONAL
UnexpectedDataParam ::= SEQUENCE {
           extensionContainer
                                  ExtensionContainer OPTIONAL
DataMissingParam ::= SEQUENCE {
           extensionContainer
                                  ExtensionContainer OPTIONAL
                   }
FacilityNotSupParam ::= SEQUENCE {
   extensionContainer
                                                                 ExtensionContainer OPTIONAL,
   shapeOfLocationEstimateNotSupported
                                                          [0] IMPLICIT NULL OPTIONAL,
   neededLcsCapabilityNotSupportedInServingNode
                                                 [1] IMPLICIT NULL OPTIONAL
SS-SubscriptionViolationParam ::= SEQUENCE {
           extensionContainer ExtensionContainer OPTIONAL
                   }
PositionMethodFailure-Param ::= SEQUENCE {
   positionMethodFailure-Diagnostic [0] IMPLICIT PositionMethodFailure-Diagnostic OPTIONAL,
                            [1] IMPLICIT ExtensionContainer
   extensionContainer
                                                                   OPTIONAL.
PositionMethodFailure-Diagnostic ::= ENUMERATED {
   congestion (0),
   insufficientResources (1),
    insufficientMeasurementData (2),
   inconsistentMeasurementData (3),
   locationProcedureNotCompleted (4),
   locationProcedureNotSupportedByTargetMS (5),
   qoSNotAttainable (6),
   positionMethodNotAvailableInNetwork (7),
   positionMethodNotAvailableInLocationArea (8),
    -- exception handling:
   -- any unrecognized value shall be ignored
```

Annex I (Informative): Guidance on test execution

This clause provides the guidance on test execution of the different ATSs.

I.1 Void

I.2 FDD Band VI test execution

A test case requires more than two radio frequencies shall avoid to execute on FDD Band VI. A list is given below.

6.1.1.4, 6.1.1.5, 6.1.1.7, 6.1.1.8, 6.1.1.9, 6.1.2.3, 6.1.2.4, 6.1.2.6, 6.1.2.8, 8.2.6.38, 8.3.1.21, 8.3.2.11, 8.4.1.42, 9.4.2.5, 9.4.5.4.1, 9.4.5.4.6, 9.4.8, 12.4.1.4b, 12.4.2.4

For interBand test case execution on Band VI, the Mobile Country Code of the two cells is set to the same value according to TS 34.108 clause 5.1.1.6. The used test USIM follows TS 34.108 clause 8.3.2.2. This is applied to the test cases: 6.1.2.1a, 6.1.2.10a, 8.1.2.10a, 8.2.1.24a, 8.2.1.34a, 8.2.6.37b, 8.3.1.1a, 8.3.2.1a, 8.4.1.2B, 8.4.1.24A, 8.4.1.25A.

I.3 Void

Annex J (informative): Change history

Meet-	TSG doc	CR	Rev	Subject	Cat	Old vers	New vers	WG doc
TP-18	TP-020301			Approval of the specification		2.0.0	3.0.0	
11 10	11 020001			One correction performed in the NAS ATS part (the		2.0.0	0.0.0	
TP-24	=			other ATS parts remain in v.3.6.0)		3.6.0	3.6.1	-
TP-20	-	-	-	Regeneration of RRC and RLC ATS		3.2.0	3.2.1	-
TP-21	TP-030199	-	-	Add new approved TTCN test cases in test case list	F	3.2.1	3.3.0	-
				in Annex A				
TP-23	TP-040044	-	-	Updating Annex A	F	3.4.0	3.5.0	-
TP-23	-	-		Editorial clean-up by ETSI		3.5.0	3.5.1	-
TP-23	-	-		Sections 8.3.28 - 8.3.31 were misplaced		3.5.1	3.5.2	-
TP-19	TP-030051	001	-	Change to test case 9.2.3 required for approval	F	3.0.0	3.1.0	T1-030120
TP-19	TP-030051	002	-	Change to test case 9.2.4 required for approval	F	3.0.0	3.1.0	T1-030121
TP-19	TP-030051	003	-	Change to test case 10.1.3.4.1 required for approval	F	3.0.0	3.1.0	T1-030122
TP-19	TP-030051	004	-	Inclusion of RLC test case 7.2.2.3 to RLC ATS V3.0.0	F	3.0.0	3.1.0	T1-030123
TP-19	TP-030051	005	-	Inclusion of RLC test case 7.2.2.4 to RLC ATS V3.0.0	F	3.0.0	3.1.0	T1-030124
TP-19	TP-030051	006	-	Inclusion of RLC test case 7.2.2.7 to RLC ATS V3.0.0	F	3.0.0	3.1.0	T1-030125
TP-19	TP-030051	007	-	Inclusion of RLC test case 7.2.3.4 to RLC ATS V3.0.0	F	3.0.0	3.1.0	T1-030126
TP-19	TP-030051	800	-		F	3.0.0	3.1.0	T1-030127
TP-19	TP-030051	009	-	Changes to TS34.123-3 V200 to introduce	F	3.0.0	3.1.0	T1-030128
				TC_8_1_1_4				
TP-19	TP-030051	010	-	TTCN changes to the approved test cases in V300	F	3.0.0	3.1.0	T1-030129
TP-19	TP-030051	011	1	CR 34.123-3, V300 as T1S030009rev1	F	3.0.0	3.1.0	T1-030260
TP-19	TP-030051	012	-	Indroducing Test Case 8.1.2.7	F	3.0.0	3.1.0	T1-030245
TP-19	TP-030051	013	-	Introduction of Test Case 8.2.1.1	F	3.0.0	3.1.0	T1-030246
TP-19	TP-030051	014	-	Introduction of Test Case 8.2.3.1	F	3.0.0	3.1.0	T1-030247
TP-19	TP-030051	015	-	Addition of RRC test case 8.1.9 to RRC ATS V3.0.0	F	3.0.0	3.1.0	T1-030248
				NOTE: There was a missing TTCN fix in				
				TP-030051. In the TTCN line 6 of				
				TC_8_1_2_1, replace				
				+ts_SendDefSysInfo(tsc_CellA) with				
				+ts_SendSysInfoWithSpecialSIB11(
				tsc_CellA,				
				tcv_SIB11IntraFreqRepQuantiyRACH).				
				Otherwise, a good UE would be failed at				
TP-20	TP-030104	016		the regression test. Test Case 7.1.1.2	F	3.1.0	3.2.0	T1-030397
TP-20	TP-030104	017	-	Test Case 7.1.1.8	F	3.1.0	3.2.0	T1-030397
TP-20	TP-030104	018	-	Test Case 7.1.1.6 Test Case 8.1.1.2	F	3.1.0	3.2.0	T1-030399
TP-20	TP-030104	019	-	Test Case 8.1.1.3	F	3.1.0	3.2.0	T1-030401
TP-20	TP-030104	020	-	Test Case 8.1.1.8	F	3.1.0	3.2.0	T1-030403
TP-20	TP-030104	020	1	Test Case 8.2.1.8	F	3.1.0	3.2.0	T1-030411
TP-20	TP-030104	021	1	Test Case 6.2.1.10	F	3.1.0	3.2.0	T1-030415
TP-20	TP-030104	022	1	Test Case 8.1.5.1	F	3.1.0	3.2.0	T1-030415
TP-20	TP-030104	023	-	Test Case 8.1.5.4	F	3.1.0	3.2.0	T1-030423
TP-20	TP-030104	024	-	Test Case 8.2.3.7	F	3.1.0	3.2.0	T1-030427
====		+	-		_		1	
TP-20 TP-20	TP-030104 TP-030104	026 027	[Addition of RLC test case 7.2.3.6 to RLC ATS V3.1.0 Addition of RLC test case 7.2.3.25 to RLC ATS	B B	3.1.0	3.2.0	T1-030438 T1-030440
117-20	11-030104	027	Γ	V3.1.0	ь	3.1.0	3.2.0	11-030440
TP-20	TP-030104	028	1_	Addition of RLC test case 7.2.3.14 to RLC ATS	В	3.1.0	3.2.0	T1-030442
11 20	11 030104	020		V3.1.0		5.1.0	5.2.0	11-030442
TP-20	TP-030104	029	1_	Addition of RLC test case 7.2.3.15 to RLC ATS	В	3.1.0	3.2.0	T1-030444
11 -20	11 -030104	023		V3.1.0	٦	0.1.0	0.2.0	1 1 000 444
TP-20	TP-030104	030	1_	Addition of RLC test case 7.2.3.16 to RLC ATS	В	3.1.0	3.2.0	T1-030446
111 20	11 000104	000		V3.1.0		0.1.0	0.2.0	11 000410
TP-20	TP-030104	031	1_	Addition of RLC test case 7.2.3.33 to RLC ATS	В	3.1.0	3.2.0	T1-030448
111 20	11 000104	001		V3.1.0		0.1.0	0.2.0	11 000440
TP-20	TP-030104	032	-	Addition of NAS test case 10.1.2.5.1 to NAS ATS	В	3.1.0	3.2.0	T1-030450
				V3.1.0	_	30	3.2.0	
TP-20	TP-030104	033	1-	7.1.1.1	В	3.1.0	3.2.0	T1-030452
TP-20	TP-030104	034	1-	7.1.1.3	В	3.1.0	3.2.0	T1-030452
TP-20	TP-030104	035	1	7.1.1.4	В	3.1.0	3.2.0	T1-030456
TP-20	TP-030104	036	1_	Introduction of Test Case 7.1.1.5	В	3.1.0	3.2.0	T1-030458
TP-20	TP-030104	037	£	Test Case 8.2.3.15	F	3.1.0	3.2.0	T1-030456
TP-20	TP-030104	038	E	Test Case 8.2.3.18	F	3.1.0	3.2.0	T1-030464
TP-20	TP-030104	038	[Test Case 8.2.3.18 Test Case 8.2.3.19	F	3.1.0	3.2.0	T1-030468
TP-20	TP-030104	040	E		F		3.2.0	T1-030466
17-20	I F = U3U 1U4	040	<u> </u>	Test Case 12.3.1.2	Г	3.1.0	ე.∠.∪	11-030474

Meet-	TSG doc	CR	Rev	Subject	Cat		New	WG doc
ing	TD 000404	0.14		T	_	vers	vers	T4 000 470
TP-20 TP-20	TP-030104 TP-030104	041 042	-	Test Case 8.3.3.1 Addition of RLC test case 7.2.3.13 to RLC ATS	F B	3.1.0	3.2.0	T1-030479 T1-030484
				V3.1.0				
TP-20	TP-030104	043	-	Addition of RLC test case 7.2.3.18 to RLC ATS V3.1.0	В	3.1.0	3.2.0	T1-030486
TP-20	TP-030104	044	-	Addition of RLC test case 7.2.2.5 to RLC ATS V3.0.0	В	3.1.0	3.2.0	T1-030490
TP-20	TP-030104	045	-	Addition of RLC test case 7.2.2.6 to RLC ATS V3.0.0	В	3.1.0	3.2.0	T1-030492
TP-20	TP-030104	046	-	Addition of RLC test case 7.2.3.17 to RLC ATS V3.0.0	В	3.1.0	3.2.0	T1-030495
TP-20	TP-030104	047	-	Addition of RLC test case 7.2.3.20 to RLC ATS V3.0.0	В	3.1.0	3.2.0	T1-030496
TP-20	TP-030104	048	-	Addition of RLC test case 7.2.3.34 to RLC ATS V3.0.0	В	3.1.0	3.2.0	T1-030498
TP-20	TP-030104	049	-	Addition of SM test case 11.1.1.1 to NAS ATS V3.1.0	В	3.1.0	3.2.0	T1-030500
TP-20	TP-030104	050	-	Addition of RLC test case 7.2.3.23 to RLC ATS V3.1.0	В	3.1.0	3.2.0	T1-030535
TP-20	TP-030104	051	-	Addition of RLC test case 7.2.3.24 to RLC ATS	В	3.1.0	3.2.0	T1-030537
TP-20	TP-030104	052	-	Addition of RLC test case 7.2.3.26 to RLC ATS V3.1.0	В	3.1.0	3.2.0	T1-030539
TP-20	TP-030104	053	-	Addition of RLC test case 7.2.3.27 to RLC ATS	В	3.1.0	3.2.0	T1-030541
TD 00	TD 020404	05.4		V3.1.0	n	240	2.2.0	T4 020570
TP-20	TP-030104 TP-030104	054 055	-	Addition of SM test case 11.3.1 to NAS ATS V3.1.0	В	3.1.0	3.2.0	T1-030576 T1-030577
TP-20 TP-20	TP-030104 TP-030104	055 056	-	Addition of SM test case 11.3.2 to NAS ATS V3.1.0 Addition of GMM test case 12.3.1.5 to NAS ATS	В	3.1.0	3.2.0	T1-030577
			_	V3.1.0				
TP-20	TP-030104	057	-	Addition of GMM test case 12.7 to NAS ATS V3.1.0	В	3.1.0	3.2.0	T1-030580
TP-20	TP-030104	058	-	Test Case 8.2.1.9	F	3.1.0	3.2.0	T1-030594
TP-20	TP-030104	059	-	Test Case 8.2.3.8	F	3.1.0	3.2.0	T1-030596
TP-20	TP-030104	060	-	Test Case 12.3.1.1	F	3.1.0	3.2.0	T1-030614
TP-20	TP-030104	062	-	Test Case 12.9.2	F	3.1.0	3.2.0	T1-030626
TP-20	TP-030104	063	-	Addition of GMM test case 12.3.2.1 to NAS ATS V3.1.0	В	3.1.0	3.2.0	T1-030638
TP-20	TP-030104	064	-	CR for correction of generic test step in RLC ATS V3.1.0	F	3.1.0	3.2.0	T1-030654
TP-20	TP-030104	065	-	ASP Enhancement	F	3.1.0	3.2.0	T1-030665
TP-20	TP-030104	066	-	Test Case 8.1.2.2	F	3.1.0	3.2.0	T1-030395
TP-20	TP-030104	067	-	Test Case 8.1.2.9	F	3.1.0	3.2.0	T1-030396
TP-20	TP-030110	068	-	Add new approved test cases in test case list in Annex A	F	3.1.0	3.2.0	
TP-20	TP-030141	069	-	Test Case 8.1.3.3	F	3.1.0	3.2.0	T1-030460
TP-21	TP-030194	070	-	Corrections to Package 1 test cases in RRC ATS v3.2.1 for PS mode	F	3.2.1	3.3.0	T1-031054
TP-21	TP-030194	071	-	Corrections to Package 1 test cases in RRC ATS v3.2.1 for Integrity	F	3.2.1	3.3.0	T1-031055
TP-21	TP-030194	072	-	Corrections to Package 1 test cases in RRC ATS	F	3.2.1	3.3.0	T1-031140
TP-21	TP-030194	073	-		F	3.2.1	3.3.0	T1-031242
TP-21	TP-030194	074	-	to March 03 and error corrections CR to 34.123-3, R99, Update and remove	F	3.2.1	3.3.0	T1-031278
				unnecessary PIXIT parameters, so they are aligned with the 3GPP conformance TTCN				
TP-21	TP-030194	079	-	Changes to TS34.123-3 V310 to introduce TC_8_1_1_5	F	3.1.0	3.3.0	T1-030405
TP-21	TP-030194	080	-	Changes to TS34.123-3 V310 to introduce TC_8_1_1_6	F	3.1.0	3.3.0	T1-030407
TP-21	TP-030194	084	-	Changes to TS34.123-3 V310 to introduce	F	3.1.0	3.3.0	T1-030423
TP-21	TP-030194	119	-	TC_12_2_1_1 Changes to TS34.123-3 V310 to introduce	F	3.1.0	3.3.0	T1-030602
TP-21	TP-030194	120	-	TC_8_3_4_1 Changes to TS34.123-3 V310 to introduce	F	3.1.0	3.3.0	T1-030604
TP-21	TP-030194	121	-	TC_8_3_4_2 Changes to TS34.123-3 V310 to introduce	F	3.1.0	3.3.0	T1-030606
TP-21	TP-030194	122	-	TC_8_3_4_3 Changes to TS34.123-3 V310 to introduce	F	3.1.0	3.3.0	T1-030608
TP-21	TP-030194	124	1-	TC_8_4_1_1 Changes to TS34.123-3 V310 to introduce	F	3.1.0	3.3.0	T1-030624
TP-21			1	TC_12_9_1				
117-21	TP-030194	127	1-	CR to 34.123-3 V310 to introduce test case 7.2.3.19	В	3.1.0	3.3.0	T1-030657
	TD 020404	1170						
TP-21 TP-21	TP-030194 TP-030194	128 129	<u> -</u>	CR to 34.123-3 V320 to introduce test case 14.2.13.1 CR to 34.123-3 V320 to introduce test case 7.2.2.2	B B	3.2.0	3.3.0	T1-030877 T1-030879

Meet-	TSG doc	CR	Rev	Subject	Cat	Old vers	New vers	WG doc
TP-21	TP-030194	131		Changes to TS34.123-3 V320 to introduce TC_8_2_3_9	В	3.2.0	3.3.0	T1-030896
TP-21	TP-030194	132	-	Changes to TS34.123-3 V320 to introduce TC_7_2_3_21	F	3.2.0	3.3.0	T1-030897
TP-21	TP-030194	133	-	Changes to TS34.123-3 V320 to introduce TC_7_2_3_22	F	3.2.0	3.3.0	T1-030898
TP-21	TP-030194	134	-	CR to 34.123-3 V320 to introduce test case TC_8_2_6_20	F	3.2.1	3.3.0	T1-030928
TP-21	TP-030194	135	-	CR to 34.123-3 V320 to introduce test case TC_9.2.1	В	3.2.1	3.3.0	T1-031016
TP-21	TP-030194	136		CR to 34.123-3 V320 to introduce test case TC_9.3.1	В	3.2.1	3.3.0	T1-031018
TP-21	TP-030194	137		CR to 34.123-3 V320 to introduce test case TC_9_4_5_2	В	3.2.1	3.3.0	T1-031020
TP-21	TP-030194	138		_	В	3.2.1	3.3.0	T1-031022
TP-21	TP-030194	139		Changes to TS34.123-3 V321 to introduce TC_8_1_1_7	F	3.2.1	3.3.0	T1-031141
TP-21	TP-030208	140	-	Addition of RRC test case 8.2.2.1 to 34.123-3	F	3.2.1	3.3.0	T1-031280
TP-21	TP-030208	141	-	Addition of RRC test case 8.2.2.11 to 34.123-3	F	3.2.1	3.3.0	T1-031281
TP-21 TP-22	TP-030208	142 142	2	Addition of RRC test case 8.2.6.1 to 34.123-3 ASP changes and MMI string corrections	F F	3.2.1	3.3.0	T1-031282
TP-22	TP-030284 TP-030208	143		Addition of RRC test case 8.2.2.17 to 34.123-3	F	3.2.1	3.4.0	T1-031707 T1-031283
TP-21	TP-030208	144		Addition of RRC test case 8.2.4.10 to 34.123-3	F	3.2.1	3.3.0	T1-031283
TP-21	TP-030208	145	-	Addition of RRC test case 8.2.6.7 to 34.123-3	F	3.2.1	3.3.0	T1-031204
TP-21	TP-030208	146	-	Addition of RRC test case 8.2.2.8 to 34.123-3	F	3.2.1	3.3.0	T1-031286
TP-21	TP-030208	147	-	Addition of RRC test case 8.2.2.10 to 34.123-3	F.	3.2.1	3.3.0	T1-031287
TP-21	TP-030208	148	_	Test case 12.5	F	3.2.1	3.3.0	T1-031288
TP-21	TP-030209	149	-	CR to 34.123-3 V321 to introduce test case TC_8_2_2_23	F	3.2.1	3.3.0	T1-031289
TP-23	TP-040042	151	-	GERAN ASP changes	F	3.4.0	3.5.0	T1-040412
TP-23	TP-040043	152		Addition of NAS test case 9.1 to NAS ATS V3.4.0	В	3.3.0	3.5.0	T1-031755
TP-23	TP-040043	153		Addition of NAS test case 9.2.2 to NAS ATS V3.4.0	В	3.3.0	3.5.0	T1-031757
TP-23	TP-040043	154		Addition of NAS test case 9.4.1 to NAS ATS V3.4.0	В	3.3.0	3.5.0	T1-031759
TP-23	TP-040043	155		Addition of NAS test case 9.4.2.1 to NAS ATS V3.4.0	В	3.3.0	3.5.0	T1-031761
TP-21	TP-030209	156		CR to 34.123-3 V321 to introduce test case TC_8_2_6_19	F	3.2.1	3.3.0	T1-031296
TP-23	TP-040043	156		Addition of NAS test case 9.4.2.4.1 to NAS ATS V3.4.0	В	3.3.0	3.5.0	T1-031763
TP-21	TP-030209	157		CR to 34.123-3 V321 to introduce test case TC_8_2_2_7	F	3.2.1	3.3.0	T1-031297
TP-23	TP-040043	157		Addition of NAS test case 9.4.4 to NAS ATS V3.4.0	В	3.3.0	3.5.0	T1-031765
TP-21	TP-030209	158		CR to 34.123-3 V321 to introduce test case TC_8_2_2_9	F	3.2.1	3.3.0	T1-031298
TP-23	TP-040043	158			В	3.3.0	3.5.0	T1-031767
TP-21	TP-030209	159	-	CR to 34.123-3 V321 to introduce test case TC_8_3_1_11	F	3.2.1	3.3.0	T1-031299
TP-23	TP-040043	159		Addition of RRC test case 8.3.7.1 to RRC ATS V3.4.0	В	3.3.0	3.5.0	T1-031771
TP-21	TP-030209	160		CR to 34.123-3 V321 to introduce test case TC_8_2_6_8	F	3.2.1	3.3.0	T1-031300
TP-23	TP-040043	160		Addition of RRC test case 8.3.7.2 to RRC ATS V3.4.0	F	3.4.0	3.5.0	T1-031918
TP-21	TP-030209	161	-	CR to 34.123-3 V321 to introduce test case TC_8_4_1_16	F	3.2.1	3.3.0	T1-031301
TP-23	TP-040043	161		Addition of RRC test case 8.3.7.4 to RRC ATS V3.4.0	F	3.4.0	3.5.0	T1-031772
TP-23	TP-040043	162		Addition of NAS test case 12.2.1.7 to NAS ATS V3.4.0	В	3.4.0	3.5.0	T1s040029
TP-23	TP-040043	163		Addition of RAB test case 14.2.27 to RAB ATS V3.4.0	В	3.4.0	3.5.0	T1s040033
TP-23	TP-040043	164		Introducing test case 12_6_1_1 to NASv330	В	3.4.0	3.5.0	T1-031745
TP-23	TP-040043	165		Introducing test case 8.2.4.3 to RRCv330	F	3.4.0	3.5.0	T1-031747
TP-23	TP-040043	166		Introducing test case 8.2.4.4 to RRCv330	F	3.3.0	3.5.0	T1-031749
TP-23	TP-040043	167		Introduction of Package 2 test case 8.3.1.21	F	3.4.0	3.5.0	T1s040049
TP-23	TP-040043	168		Addition of NAS test case 9.4.2.2.1 to NAS ATS V3.4.0	В	3.3.0		T1s040025
TP-23	TP-040043	169		Addition of NAS test case 9.4.2.2.2 to NAS ATS V3.4.0	В	3.4.0	3.5.0	T1s040027
TP-23	TP-040043	170		Addition of NAS test case 9.4.9 to NAS ATS V3.4.0	В	3.4.0	3.5.0	T1s040014
TP-23	TP-040043	171		Addition of RAB test case 14.2.26 to RAB ATS V3.4.0		3.4.0	3.5.0	T1s040002
TP-23	TP-040043	171		Addition of NAS test case 9.4.2.5 to NAS ATS V3.4.0	В	3.4.0	3.5.0	T1s040082
TP-23	TP-040043	172		Addition of RAB test case 14.2.4 to TS 34.123-3, V3.4.0	В	3.4.0	3.5.0	T1s040004
TP-23	TP-040043	172		Correction to RRC Package 1 TC 8.2.1.8 and 8.2.1.9 for the mismatch between Radio Bearer setup and PDP context Activation Accept message	В	3.4.0	3.5.0	T1s040071
TP-23	TP-040043	173		Incorrect timer poll value used for SS RLC transmit entity in tcs 8.2.1.8, 8.2.1.9 (Revision of T1-031782)	F	3.3.0	3.5.0	T1-031842

ing TP-23		CR	Rev	Subject	Cat	Old vers	New vers	WG doc
	TP-040043	174		Correction of Poll bit checking in tc 7.2.3.13 (Revision of T1-031839)	F	3.3.0	3.5.0	T1-031921
TP-23	TP-040043	175		Modification to Radio Bearer Release message in to 8.2.3.18 and 8.2.3.19	F	3.3.0	3.5.0	T1-031924
TP-23	TP-040043	176		Maximum allowed UL TX power should not be present in tcs 8.2.2.8, 8.2.2.9 and 8.2.2.23	F	3.3.0	3.5.0	T1-031925
TP-23	TP-040043	177		New C-RNTI should not be present in to 8.2.6.20	F	3.3.0	3.5.0	T1-031787
TP-23	TP-040043	178		Unnecessary waiting time for reconfiguration in to 8.2.2.23	F	3.3.0	3.5.0	T1-031788
TP-23	TP-040043	179		Modification to validate TI flag and TI value in TCs 11.3.1 and 11.3.2	F	3.3.0	3.5.0	T1-031795
TP-23	TP-040043	180		Change U-RNTI and remove UTRAN DRX cycle length coefficient tc 8.3.3.1	F	3.3.0	3.5.0	T1-031841
TP-23	TP-040043	181		Corrections of Status PDU checking in tc 7.2.3.34	F	3.3.0	3.5.0	T1-031786
TP-23	TP-040043	182		Correction of number of negatively acknowledged PDUs in tc 7.2.3.16	F	3.3.0	3.5.0	T1-031789
TP-23	TP-040043	183		Correction of sequence number checking and Verdict assessments in tc 7.2.3.17	F	3.3.0	3.5.0	T1-031790
TP-23	TP-040043	184		Introducing test case 8.3.1.1 to RRCv340	F	3.3.0	3.5.0	T1-031733
TP-23	TP-040043	184		Poll Bit and Status PDU content checking in to 7.2.3.14	F	3.3.0	3.5.0	T1-031791
TP-23	TP-040043	185		Additional verdicts assigned in tc 7.2.3.20	F	3.3.0	3.5.0	T1-031792
TP-23	TP-040043	186		SERVICE ACCEPT message NOT to be sent to UE in GMM idle state in tc 11.3.1 and 11.3.2	F	3.3.0	3.5.0	T1-031794
TP-23	TP-040043	187		Change to performing integrity protection in tc 12.2.1.1	F	3.3.0	3.5.0	T1-031778
TP-23	TP-040043	188		Correction of Poll bit checking in tc 7.2.3.18	F	3.3.0	3.5.0	T1-031781
TP-23	TP-040019	189		Addition of RAB test case 14.2.29 to RAB ATS V3.4.0	В	3.4.0	3.5.0	T1s040199
TP-23	TP-040019	190		Addition of RAB test case 14.2.31.1 to RAB ATS V3.4.0	В	3.4.0	3.5.0	T1s040198
TP-23	TP-040019	191		Addition of RAB test case 14.2.32.1 to RAB ATS V3.4.0	В	3.4.0	3.5.0	T1s040197
TP-23	TP-040043	192		Introducing test case 8.3.1.22 to RRCv340	F	3.3.0	3.5.0	T1-031797
TP-23	TP-040019	193		Addition of RAB test case 14.4.3 to RAB ATS V3.4.0	В	3.4.0	3.5.0	T1s040196
TP-23	TP-040043	195		Introducing test case 8.2.2.18 to RRCv340	F	3.4.0	3.5.0	T1-031932
TP-23	TP-040043	205		Addition of RRC test case 8.3.2.1 to RRC ATS V3.4.0		3.4.0	3.5.0	T1-031823
TP-23	TP-040043	206		Addition of RRC test case 8.3.2.4 to RRC ATS V3.4.0		3.3.0	3.5.0	T1-031825
TP-23	TP-040043	207		Addition of RRC test case 8.3.2.7 to RRC ATS V3.4.0		3.4.0	3.5.0	T1-031827
TP-23	TP-040043	210		Addition of NAS test case 12.2.2.1 to NAS ATS V3.4.0	F	3.4.0	3.5.0	T1-031936
TP-23	TP-040043	211		Addition of NAS test case 12.4.3.1 to NAS ATS V3.4.0	В	3.4.0	3.5.0	T1-031937
TP-23	TP-040043	216		Revised CR for Changes to Introducing test case 8.2.6.9 required for approvalto RRCv340	F	3.4.0	3.5.0	T1s040088
TP-23	TP-040043	220		Addition of RRC test case 8.4.1.17 to RRC ATS V3.4.0	В	3.4.0	3.5.0	T1-031940
TP-23	TP-040043	221		Addition of RRC test case 8.2.2.19 to RRC ATS V3.4.0	В	3.4.0	3.5.0	T1-031939
TP-23	TP-040043	222		Addition of NAS test case 12.2.1.3 to NAS ATS V3.4.0	В	3.4.0	3.5.0	T1-031938
TP-23	TP-040043	224		Addition of RRC test case 8.3.1.31 to RRC ATS V3.4.0	В	3.3.0	3.5.0	T1-031909
TP-23	TP-040043	226		Validation of TMSI status in ATTACH REQUEST message for tc 12.3.1.5	F	3.4.0	3.5.0	T1-031913
TP-23	TP-040043	227		Validation of optional old PTMSI signature in ATTACH REQUEST message for tc 12.2.1.1	F	3.3.0	3.5.0	T1-031914
TP-23	TP-040043	230		Validation of CS CKSN in paging response in tc 9.2.1	F	3.3.0	3.5.0	T1-031922
TP-23	TP-040043	232		To add verified GCF package 1 RRC test case 8.3.1.3 to the approved RRC ATS V3.4.0		3.4.0	3.5.0	T1-031926
TP-23	TP-040043	233		Introducing test case 8.3.1.4 to RRCv340	F	3.4.0	3.5.0	T1s040087
TP-24	TP-040117	233		stating that Authentication after IDT is an	F	3.5.2	3.6.0	T1-040761
TP-23	TP-040043	234		optional/dependent procedure. Introducing test case 12_4_2_1 to NASv340	F	3.4.0	3.5.0	T1-031930
TP-23	TP-040043	234		GERAN generic procedures and TTCN encoding rules for CSN.1 specific encoding	F	3.5.2	3.6.0	T1-031930
TP-22	TP-030285	251	<u> </u>	Updating Annex A	F	3.3.0	3.4.0	1_
//	TP-030284	252	<u> </u>	Security ASP changes	F	3.3.0	3.4.0	T1-031732
	111 0004							
TP-22 TP-22 TP-24	TP-040118	255		Addition of MAC test case 7.1.3.1 to MAC ATS V3.5.1	В	3.5.1	3.6.0	T1s040295
TP-22		255 256		Addition of MAC test case 7.1.3.1 to MAC ATS V3.5.1 Addition of RAB test case 14.2.49.1 to RAB ATS V3.5.1	В	3.5.1	3.6.0	T1s040295 T1s040254

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				V3.5.1				
TP-24	TP-040118	258		Revised CR for P3 NAS test case 13.2.2.1 to NAS ATS V3.5.1 (revision of T1-040239	В	3.5.1	3.6.0	T1s040330
TP-24	TP-040118	259		Revised CR for P3 NAS test case 13.2.2.2 to NAS ATS V3.5.1 (revision of T1-040241)	В	3.5.1	3.6.0	T1s040331
TP-24	TP-040118	260		Addition of GCF P3 test case 8.4.1.31 to RRC ATS v3.5.1	В	3.5.1	3.6.0	T1s040285
TP-24	TP-040118	261		Revised CR for addition of GCF P2 test case 12.4.2.2 to NAS ATS V3.5.1	В	3.5.1	3.6.0	T1s040283
TP-24	TP-040118	262		Addition of RRC test case 8.3.2.11 to RRC ATS V3.5.1	В	3.5.1	3.6.0	T1s040262
				Addition of RRC test case 8.4.1.30 to RRC ATS				
TP-24	TP-040118	263		V3.5.1 Addition of RRC test case 8.4.1.29 to RRC ATS	B -	3.5.1	3.6.0	T1s040260
TP-24	TP-040118	264		V3.5.1	В	3.5.1	3.6.0	T1s040258
TP-24	TP-040118	265			В	3.5.1	3.6.0	T1s040249
TP-24	TP-040118	266		Addition of RAB test case 14.2.5a to RAB ATS V3.5.1		3.5.1	3.6.0	T1s040247
TP-24	TP-040118	267		Addition of RAB test case 14.2.4a to RAB ATS V3.5.1 Addition of GCF P1 test case 12.4.1.1a to NAS ATS	В	3.5.1	3.6.0	T1s040245
TP-24	TP-040118	268		V3.5.1	В	3.5.1	3.6.0	T1s040266
TP-24	TP-040118	269		Test Case 13.2.1.1	В	3.5.1	3.6.0	T1s040200
TP-24	TP-040118	270		Addition of GCF P3 test case 10.1.2.6.6 to NAS ATS	В	3.4.0	3.6.0	T1s040237
17-24	17-040116	270	1	Addition of GCF P3 test case 10.1.2.7.2 to NAS ATS	Ь	3.4.0	3.0.0	115040234
TP-24	TP-040118	271		V3.4.0	В	3.4.0	3.6.0	T1s040233
TP-24	TP-040118	272		Addition of GCF P3 test case 10.1.2.5.5 to NAS ATS V3.4.0	В	3.4.0	3.6.0	T1s040231
TP-24	TP-040118	273		Addition of GCF P3 test case 10.1.2.6.2 to NAS ATS V3.4.0	В	3.4.0	3.6.0	T1s040232
TP-24	TP-040118	274		Addition of GCF P3 test case 10.1.2.4.10 to NAS ATS V3.4.0	В	3.4.0	3.6.0	T1s040230
TP-24	TP-040118	275		Addition of GCF P3 test case 10.1.2.3.3 to NAS ATS V3.4.0	В	3.4.0	3.6.0	T1s040229
TP-24	TP-040118	276		Addition of NAS test case 8.3.1.2 to RRC ATS V3.4.0 (revision of T1-031735)	В	3.4.0	3.6.0	T1s040226
2.	11 010110	2.0		Addition of NAS test case 8.3.1.5 to RRC ATS V3.4.0	_	0.1.0	0.0.0	1 100 10220
TP-24	TP-040118	277		(revision of T1-031807) Addition of NAS test case 8.3.1.6 to RRC ATS V3.4.0	В	3.4.0	3.6.0	T1s040227
TP-24	TP-040118	278		(revision of T1-031809) Addition of GCF P3 test case 14.2.12 to RAB ATS	В	3.4.0	3.6.0	T1s040228
TP-24	TP-040118	279		V3.4.0 Addition of NAS test case 10.1.3.3.1 to NAS ATS	В	3.4.0	3.6.0	T1s040225
TP-24	TP-040118	280		V3.4.0 (Revision of T1s040170)	В	3.4.0	3.6.0	T1s040222
TP-24	TP-040118	281		Addition of RRC test case 8.1.10.1 to RRC ATS V3.4.0	В	3.4.0	3.6.0	T1s040223
TP-24	TP-040118	282		Addition of GCF P2 test case 8.4.1.18 to RRC ATS V3.4.0	В	3.4.0	3.6.0	T1s040215
TP-24	TP-040118	283		Addition of GCF P2 test case 8.4.1.19 to RRC ATS V3.4.0	В	3.4.0	3.6.0	T1s040216
TP-24	TP-040118	284		Addition of NAS test case 10.1.3.5.6 to NAS ATS V3.4.0	В	3.4.0	3.6.0	T1s040213
TP-24	TP-040118	285		Addition of NAS test case 10.1.2.2.2 to NAS ATS V3.4.0	В	3.4.0	3.6.0	T1s040209
TP-24	TP-040118	286		Addition of RRC test case 8.4.1.26 to RRC ATS V3.4.0	В	3.4.0	3.6.0	T1s040207
TP-24	TP-040118	287		Addition of GCF P1 test case 8.4.1.3 to RRC ATS V3.4.0	В	3.4.0	3.6.0	T1s040207
TP-24	TP-040118	288		Addition of RRC test case 8.3.7.3 to RRC ATS V3.4.0		3.4.0	3.6.0	T1-040084
				Introducing package 2 test case 8.3.1.10 to RRCv340				
TP-24	TP-040118	289		(revision of T1-031739) Introducing package 2 test case 8.3.1.9 to RRCv340	В	3.4.0	3.6.0	T1s040204
TP-24	TP-040118	290		(revision of T1-031737) Addition of NAS test case 10.1.2.1.1 to NAS ATS	В	3.4.0	3.6.0	T1s040203
TP-24	TP-040118	291		V3.4.0 Addition of NAS test case 10.1.3.3.2 to NAS ATS	В	3.4.0	3.6.0	T1s040178
TP-24	TP-040118	292		V3.4.0 Addition of NAS test case 10.1.3.3.4 to NAS ATS	В	3.4.0	3.6.0	T1s040172
TP-24	TP-040118	293		V3.4.0 Addition of NAS test case 10.1.2.7.3 to NAS ATS	В	3.4.0	3.6.0	T1s040174
TP-24	TP-040118	294		V3.4.0 Addition of NAS test case 10.1.2.5.2 to NAS ATS	В	3.4.0	3.6.0	T1s040161
TP-24	TP-040118	295		V3.4.0	В	3.4.0	3.6.0	T1s040149
				Addition of RAB test case 14.2.23a.1 to RAB ATS	В	3.4.0	3.6.0	T1s040065

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				V3.4.0				
TP-24	TD 040448	207		Addition of RAB test case 14.2.23b to RAB ATS V3.4.0	В	3.4.0	3.6.0	T10040067
17-24	TP-040118	297		Addition of RAB test case 14.2.23c to RAB ATS	Ь	3.4.0	3.0.0	T1s040067
TP-24	TP-040118	298		V3.4.0	В	3.4.0	3.6.0	T1s040069
TP-24	TP-040118	299		Addition of RAB test case 14.2.14.1 to RAB ATS V3.4.0	В	3.4.0	3.6.0	T1s040055
11 27	11 040110	200		Addition of RAB test case 14.2.14.2 to RAB ATS		0.4.0	0.0.0	11304000
TP-24	TP-040118	300		V3.4.0	В	3.4.0	3.6.0	T1s040057
TP-24	TP-040118	301		Addition of RAB test case 14.2.15 to RAB ATS V3.4.0		3.4.0	3.6.0	T1s040059
TP-24 TP-24	TP-040118 TP-040118	302 303		Addition of RAB test case 14.2.16 to RAB ATS V3.4.0 Addition of RAB test case 14.2.17 to RAB ATS V3.4.0		3.4.0	3.6.0	T1s040061 T1s040063
11 27	11 -040110	303		Addition of RAB test case 14.2.13.2 to RAB ATS		5.4.0	0.0.0	113040003
TP-24	TP-040118	304		V3.4.0	В	3.4.0	3.6.0	T1s040053
TP-24	TP-040118	305		Addition of NAS test case 10.1.2.4.9 to NAS ATS V3.4.0	В	3.4.0	3.6.0	T1s040129
11 24	11 040110	303		Addition of NAS test case 10.1.2.4.4 to NAS ATS		0.4.0	0.0.0	113040123
TP-24	TP-040118	306		V3.4.0	В	3.4.0	3.6.0	T1s040121
TP-24	TP-040118	307		Addition of NAS test case 10.1.2.4.6 to NAS ATS V3.4.0	В	3.4.0	3.6.0	T1s040123
117-24	117-040116	307		Addition of NAS test case 10.1.2.6.3 to NAS ATS	ь	3.4.0	3.0.0	115040123
TP-24	TP-040118	308		V3.4.0	В	3.4.0	3.6.0	T1s040139
TD 24	TD 040448	200		Addition of NAS test case 10.1.2.4.7 to NAS ATS V3.4.0	В	2.4.0	2.6.0	T1-040000
TP-24	TP-040118	309		Addition of NAS test case 10.1.2.4.8 to NAS ATS	Ь	3.4.0	3.6.0	T1s040099
TP-24	TP-040118	310		V3.4.0	В	3.4.0	3.6.0	T1s040101
TD 04	TD 040440	044		Addition of NAS test case 10.1.2.9.1 to NAS ATS	_	0.4.0	0.00	T4 - 0.404.07
TP-24	TP-040118	311		V3.4.0 Addition of NAS test case 10.1.2.3.1 to NAS ATS	В	3.4.0	3.6.0	T1s040107
TP-24	TP-040118	312		V3.4.0	В	3.4.0	3.6.0	T1s040091
				Addition of NAS test case 10.1.2.4.3 to NAS ATS				
TP-24 TP-24	TP-040118 TP-040118	313 314		V3.4.0	B B	3.4.0	3.6.0	T1s040093 T1s040080
TP-24	TP-040118	314		Addition of NAS test case 9.4.2.3 to NAS ATS V3.4.0 Addition of NAS test case 9.4.8 to NAS ATS V3.4.0	В	3.4.0	3.6.0	T1s040080
11 24	11 040110	313		Addition of NAS test case 12.6.1.2 to NAS ATS		0.4.0	0.0.0	113040023
TP-24	TP-040118	316		V3.4.0	В	3.4.0	3.6.0	T1s040016
TP-24	TP-040119	317		Quality of Service (QoS) initialisation when setting up a PS call	F	3.5.1	3.6.0	T1s040320
117-24	117-040119	317		Correction to RRC Package 2 TC 8.3.1.4 to stop the		3.3.1	3.0.0	115040320
				timer t_WaitS after receiving expected UTRAN				
TD 04	TD 040440	040		MOBILITY INFORMATION CONFIRM message from	F	0.5.4	0.00	T4 - 0.40000
TP-24	TP-040119	318		UE. Corrections to RRC package 1 and 2 test cases from	F	3.5.1	3.6.0	T1s040322
				sections 8.1.x, 8.2.x and 8.3.x to add a delay before				
TD 0.4	TD 040440	0.4.0		SS reconfigures MAC according to the new C-RNTI	_	0.5.4		T4 040000
TP-24	TP-040119	319		or U-RNTI assigned to UE. Correction to RRC TC 8.3.1.3 on the contents of	F	3.5.1	3.6.0	T1s040323
TP-24	TP-040119	320		CELL UPDATE CONFIRM message	F	3.5.1	3.6.0	T1s040324
				Correction to RRC Package 1 TC 8.1.1.2 and 8.1.1.3				
TP-24	TP-040119	321		to add delay before switching to CELL_PCH or URA PCH	F	3.5.1	3.6.0	T1s040321
17-24	17-040119	321		Correction to Package 2 GMM test case 12.2.1.3 for	Г	3.3.1	3.0.0	115040321
TP-24	TP-040119	322		supporting USIM removal without power off	F	3.5.2	3.6.0	T1s040289
				Correction to Package 3 NAS CC test cases				
TP-24	TP-040119	323		10_1_2_5_5, 10_1_2_6_2 and 10_1_2_7_2 to validate the current TI value.	F	3.5.1	3.6.0	T1s040297
11 24	11 040113	525		Correction to Package 3 NAS CC test cases		0.0.1	0.0.0	113040237
				10.1.2.6.6; introducing PIXIT parameter for UE Call				
TP-24	TP-040119	324		waiting support. Correction to Package 1 SM test case 11.1.1.1 in	F	3.5.1	3.6.0	T1s040298
TP-24	TP-040119	325		handling Modify PDP Context procedure.	F	3.5.1	3.6.0	T1s040299
	1 7			Correction to Radio Bearer setup message for				
TD 04	TD 040440	220		Package 1 RAB test case 14.2.13.1 and package 2	_	2.5.4	260	T10040200
TP-24	TP-040119	326		RAB test case 14.2.15. Correction to Package 3 RAB test case 14.2.14.1	F	3.5.1	3.6.0	T1s040300
TP-24	TP-040119	327		Radio Bearer setup in the SS.	F	3.5.1	3.6.0	T1s040301
				Correction to RRC TC 8.2.2.18 and 8.2.2.17 on				
TP-24	TP-040119	328		contents of radio bearer reconfiguration message and comments in test steps of TC 8.2.2.18.	F	3.5.1	3.6.0	T1s040302
11 -24	11 -040118	J20		Correction to RRC Package 2 TC 8.3.1.3 to delete the		J.J. 1	5.5.0	113040302
				Radio Bearer BCCH mapped to				
TD 24	TP-040119	329		FACH(RB_BCCH_FACH) in the old cell before	F	3.5.1	3.6.0	T1c040202
TP-24	117-040119	JZY	1	configuring in the new cell.	Щ	J.J. I	ა.ს.ს	T1s040303

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TP-24	TP-040119	330		Correction to Package 3 NAS MM test case 9.4.2.2.2 to disable cell C ATT flag	F	3.5.1	3.6.0	T1s040304
TP-24	TP-040119	331		Correction to Package 2 NAS MM test case 9.4.9; introducing postamble to remove PLMN2 from USIM forbidden PLMN list.	F	3.5.2	3.6.0	T1s040305
TP-24	TP-040119	332		Modification to RLC 7.2.3.33 TTCN to meet Test Procedure 'f' in Prose 34.123-1-571.	F	3.5.1	3.6.0	T1s040306
				Correction to Package 3 NAS CC test case 10.1.2.7.3 for assigning FAIL verdict on receiving unexpected				
TP-24	TP-040119	333		RELEASE message. Correction to RRC TC 8.2.2.10 on contents of radio	F	3.5.1	3.6.0	T1s040288
TP-24	TP-040119	334		bearer reconfiguration message. Correction to RRC Package 2 TC 8.4.1.16 and	F	3.5.1	3.6.0	T1s040291
TP-24	TP-040119	335		8.4.1.17 for contents of SIB 11 and Measurement reporting Interval.	F	3.5.1	3.6.0	T1s040292
				Correction to common test step "ts_SS_2_FACH_1_RACH_ModifyDCH_Cfg" of RRC ATS to release unused RLC entity, related to test				
TP-24	TP-040119	336		cases 8.4.1.18 and 8.4.1.19	F	3.5.1	3.6.0	T1s040293
TP-24	TP-040119	337		Correction to Package 1 SM TC 11.1.1.1, 11.3.1 and 11.3.2 to harmonize the timer handling and to account for T1-040514, T1s040243 and T1s040244 concerning RAB release and detaching.	F	3.5.1	3.6.0	T1s040287
TP-24	TP-040119	338		Correction to Approved Package 1 TC 11.1.1.1	F	3.5.0	3.6.0	T1S040284
TP-24	TP-040119	339		Correction to package 2 TC 9.1 to handle PS attach and detach.	F	3.5.2	3.6.0	T1s040282
TP-24 TP-24	TP-040119 TP-040119	340 341		Correction to Approved RRC Package 1 TC 8.4.1.1	F F	3.5.0 3.5.1	3.6.0	T1s040279
TP-24	TP-040119	341		Changes to the test step ts_CC_InitTCV_MO Correction to Package 1 GMM test case 12.3.1.2 for	Г	3.5.1	3.6.0	T1s040277
TP-24	TP-040119	342		P-TMSI signature check at Step 12.	F	3.5.1	3.6.0	T1s040278
TP-24	TP-040119	343		Regression error corrections to wk12 and wk15. Correction to Package 2 MM TC 9.4.9 to handle	F	3.5.1	3.6.0	T1s040274
TP-24	TP-040119	344		situation when pc_PS is TRUE also.	F	3.5.2	3.6.0	T1s040273
TP-24	TP-040119	345		Correction to GFC P1 RAB test case 14.2.4	F	3.5.1	3.6.0	T1s040272
TP-24	TP-040119	346		Correction to GFC P3 RAB test cases 14.2.26 and 14.2.27	F	3.5.1	3.6.0	T1s040251
TP-24	TP-040119	347		Correction to Approved RRC Package 1 TC 8.3.4.2 and 8.3.4.3	F	3.5.0	3.6.0	T1s040235
TP-24	TP-040119	348		Correction to Approved RRC Package 1 TC 8.3.4.1	F	3.5.0	3.6.0	T1s040224
				Correction to RRC Package 2 TC 8.2.2.7 for radio bearer messages with specified IEs and correction of default PS RAB and SRBs RLC configurations in				
TP-24	TP-040119	349		RRC ATS. (Revision of T1s040165). Correction to NAS Package 1 TC 12.5 for selecting UE operation mode C only when mode A not	F	3.4.0	3.6.0	T1s040219
TP-24	TP-040119	350		supported and validating RRC connection establishment cause	F	3.4.0	3.6.0	T1s040220
TP-24	TP-040119	351		Correction to RRC Package 1 TC 8.1.2.1 modification to UE system specific capabilities (Revision of T1s040078).	F	3.4.0	3.6.0	T1s040221
TP-24	TP-040119	352		Error correction lists to iWD-wk04 and iWD-wk07	F.	3.4.0	3.6.0	T1s040188
TP-24	TP-040119	353		TTCN corrections to Generic Setup Procedures	F	3.4.0	3.6.0	T1s040189
TP-24	TP-040119	354		General correction to approved GCF P1 (Cell FACH) MAC test cases Correction to RRC Package 1 TC 8.2.1.8 and 8.2.1.9	F	3.4.0	3.6.0	T1s040185
TP-24	TP-040119	355		for the mismatch between Radio Bearer setup and PDP context Activation Request message (Revision of T1s040071).	F	3.4.0	3.6.0	T1s040163
TP-24	TP-040119	356		Modification to ATT flag usage in TC 12.3.1.5. (Resubmission of T1-031923 on v3.4.0)	F	3.4.0	3.6.0	T1s040164
TP-24	TP-040119	357		Corrections to RRC Package 1 TC 8.1.2.9 to modify timers and RRC Setup Request Constraints	F	3.4.0	3.6.0	T1s040077
TP-24	TP-040119 TP-040123	358		Corrections to Package 1 test case tc_8_1_1_1	F	3.4.0	3.6.0	T1s040079
TP-24 TP-25	TP-040123 TP-040162	359 359		Updating Annex A ASP updating and other corrections	F F	3.5.2 3.6.1	3.6.0	- T1-041407
TP-25	TP-040149	360	_	Addition of GCF P3 test case 16.1.1 to SMS ATS V3.5.1	В	3.5.1	3.7.0	T1s040264
TP-25	TP-040149	361	_	Addition of GCF P3 test case 16.1.9.1 to SMS ATS V3.5.1	В	3.5.1	3.7.0	T1s040307
TP-25	TP-040149	362	_	Addition of GCF P3 test case 16.1.9.2 to SMS ATS V3.5.1	В	3.6.1	3.7.0	T1s040309
TP-25	TP-040149	363	-	Addition of GCF P3 test case 16.1.10 to SMS ATS V3.5.1	В	3.6.1	3.7.0	T1s040311

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TP-25	TP-040149	364	-	Addition of GCF P3 test case 16.2.1 to SMS ATS V3.6.1	В	3.5.1	3.7.0	T1s040313
TP-25	TP-040149	365	-	Addition of GCF P3 test case 16.2.2 to SMS ATS V3.5.1	В	3.6.1	3.7.0	T1s040315
TP-25	TP-040149	366	-	Addition of GCF P3 test case 16.2.10 to SMS ATS V3.5.1	В	3.6.0	3.7.0	T1s040317
TP-25	TP-040149	367	-	Addition of P2 NAS test case 9.4.2.4 proc 2 to NAS ATS V3.5.1 (revision of T1-040109)	В	3.6.0	3.7.0	T1s040329
TP-25	TP-040149	368	-	Addition of NAS test case 12.4.2.5a.2 to NAS ATS V3.5.1	В	3.5.1	3.7.0	T1s040337
TP-25	TP-040149	369	-	Revised CR for addition of GCF P3 test case 8.2.4.1a to RRC ATS V3.5.1	В	3.5.1	3.7.0	T1s040339
TP-25	TP-040149	370	-	Revised CR for Addition of P2 test case 6.2.1.1 to IR_U ATS v3.5.1 (Revision of T1s040325)	В	3.6.1	3.7.0	T1s040345
TP-25	TP-040149	371	-	Revised CR for Addition of P2 test case 6.2.1.6 to IR_U ATS v3.5.1 (Revision of T1s040327)	В	3.5.1	3.7.0	T1s040346
TP-25	TP-040149	372	-	Addition of RRC test case 8.4.1.40 to RRC ATS V3.5.1	В	3.5.1	3.7.0	T1s040352
TP-25	TP-040149	373	-	Addition of RRC Package 3 test case 8.4.1.33 to IR_U ATS V3.5.1	В	3.5.1	3.7.0	T1s040358
TP-25	TP-040149	374	-	Revised CR for addition of GCF P3 test case 16.1.2 to SMS ATS V3.5.1	В	3.6.1	3.7.0	T1s040360
TP-25	TP-040149	375	-	Revised CR for the addition of GCF P3 test case 8.4.1.35 to IR_U ATS V3.5.1	В	3.6.1	3.7.0	T1s040361
TP-25	TP-040149	376	-	CR for the addition of GCF P3 test case 8.4.1.36 to IR_U ATS V3.6.1	В	3.6.1	3.7.0	T1s040364
TP-25	TP-040149	377	-	Addition of GCF P3 test case 8.3.2.12 to RRC ATS V3.6.1	В	3.6.1	3.7.0	T1s040385
TP-25	TP-040149	378	-	Addition of RAB Package 3 test case 14.2.57 to RAB ATS V3.6.1	В	3.6.1	3.7.0	T1s040387
TP-25	TP-040149	379	-	Addition of GCF P3 test case 14.2.58 to RAB ATS V3.6.1	В	3.6.1	3.7.0	T1s040395
TP-25	TP-040149	380	-	Addition of GCF P1 test cases 8.1.7.1 to RRC ATS v3.6.1	В	3.6.1	3.7.0	T1s040398
TP-25	TP-040149	381	-	Addition of GCF P1 test case 8.1.7.2 to RRC ATS v3.6.1	В	3.5.1	3.7.0	T1s040400
TP-25	TP-040149	382	-	Addition of RAB Package 2 test case 14.4.2.1 to RAB ATS V3.6.1	В	3.5.1	3.7.0	T1s040430
TP-25	TP-040149	383	-	Addition of RAB Package 3 test case 14.2.38a to RAB ATS V3.6.1	В	3.5.1	3.7.0	T1s040432
TP-25	TP-040149	384	-	Addition of RAB Package 3 test case 14.2.38e to RAB ATS V3.6.1	В	3.5.1	3.7.0	T1s040433
TP-25	TP-040149	385	-	Addition of RAB Package 2 test case 14.4.2.2 to RAB ATS V3.6.1	В	3.5.1	3.7.0	T1s040462
TP-25	TP-040149	386	-	Addition of RAB Package 2 test case 14.4.2.3 to RAB ATS V3.6.1	В	3.6.1	3.7.0	T1s040464
TP-25	TP-040149	387	-	Addition of RAB test case 14.2.51.1 to RAB ATS V3.6.0	В	3.6.0	3.7.0	T1s040466
TP-25	TP-040149	388	-	Addition of RAB test case 14.2.51a.1 to RAB ATS V3.6.0	В	3.6.0	3.7.0	T1s040468
TP-25	TP-040149	389	-	Addition of P3 test case 8.4.1.27 to RRC ATS V3.6.1 Revision CR to introduce GCF P3 Test Case 8.4.1.24	В	3.6.1	3.7.0	T1s040470
TP-25	TP-040149	390	-	to ATS v3.6.0 Revision CR to introduce GCF P3 Test Case 8.4.1.25	В	3.5.1	3.7.0	T1s040482
TP-25 TP-25	TP-040149 TP-040149	391 392	- -	to ATS v3.6.0 Addition of NAS test case 9.4.7 to NAS ATS V3.6.0	B B	3.5.1 3.6.1	3.7.0	T1s040483 T1s040513
				Addition of GCF P3 test case 8.4.1.34 to IR_U ATS	_			
TP-25 TP-25	TP-040149 TP-040148	393 394	-	v3.6.1 TTCN correction to P2 test case 8.1.10.1	B F	3.6.1 3.5.2	3.7.0	T1s040479 T1s040236
TP-25	TP-040148	395	1-	Correction to Approved RRC Package 1 TC 8.3.1.1	F	3.5.1	3.7.0	T1s040334
TP-25	TP-040148	396	_	Correction to Package 2 NAS MM test case 9.4.2.2.1 to validate of LOCATION UPDATE REQUEST message and disable ATT flag.	F	3.5.1	3.7.0	T1s040335
TP-25	TP-040148	397	-	Correction to RRC Package 2 TC 8.4.1.18 and TC 8.4.1.19 for inconsistency in System Information Block 12.	F	3.5.1	3.7.0	T1s040336
TP-25	TP-040148	398	-	Correction to Approved Package 1 RRC TC 8.1.2.2	F	3.5.1	3.7.0	T1s040341
TP-25	TP-040148	399	ļ	Corrections to RRC test case 6.2.1.1	F	3.5.1	3.7.0	T1s040347
TP-25 TP-25	TP-040148 TP-040148	400 401	 -	Corrections to RRC test case 6.2.1.6	F F	3.5.1 3.5.0	3.7.0	T1s040349
TP-25	TP-040148	401	[Correction to Approved RRC Package 1 TC 8.3.4.2 Correction to Approved RRC Package 2 TC 8.2.4.3	F	3.5.0	3.7.0 3.7.0	T1s040351 T1s040363
	TP-040148	403	+	Correction to Approved RRC Package 1 TC 8.3.4.3	F.	3.6.0	3.7.0	T1s040366

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TP-25	TP-040148	404	-	Regression error corrections to wk17, wk20 and wk23.	F	3.6.1	3.7.0	T1s040367
TP-25	TP-040148	405	1-	TTCN Correction to GCF P2 IR_U 8.3.7.1 & 8.3.7.4	F	3.6.0	3.7.0	T1s040374
TP-25	TP-040148	406	-	Correction to Package 2 NAS CCMM test cases 9.4.8; for removal of 'USIM removal possible while UE is powered' support.	F	3.6.1	3.7.0	T1s040375
TP-25	TP-040148	407	-	Correction to RRC TC 8.3.2.4 on value of the wait timer started for the UE to enter Idle mode.	F	3.6.1	3.7.0	T1s040376
TP-25	TP-040148	408	_	Correction to RRC Package 2 TC 8.2.1.9 to handle	F	3.6.1	3.7.0	T1s040377
				cell update before configuring radio bearer from DCH to FACH.				110010071
TP-25	TP-040148	409	-	Correction to RRC TC 8.2.6.19 and 8.2.6.20 to add delay before switching to CELL_PCH/URA_PCH	F	3.6.1	3.7.0	T1s040378
TP-25	TP-040148	410	-	Correction to Package 3 RAB test case 14.2.27, 14.2.29, 14.2.31.1and 14.2.32.1 for the dl_TxPower in DL DPCH Info during Radio Bearer Setup at the SS.	F	3.6.1	3.7.0	T1s040383
TP-25	TP-040148	411	-	Correction to Package 2 RAB test case 14.4.3	F	3.6.1	3.7.0	T1s040384
TP-25	TP-040148	412	-	Correction to test steps "ts_ReceiveFirstSDUs_RB10" and "ts_ReceiveFirstSDUs_RB13" of Package 3 RAB test case 14.2.49.1	F	3.6.1	3.7.0	T1s040389
TP-25	TP-040148	413	-	Correction to GMM Package 2 approved TC 12.6.1.2 in handling Attach procedure.	F	3.6.1	3.7.0	T1s040402
TP-25	TP-040148	414	-	Delay to ensure the proper transmission of Cell Update Confirm in 8.3.4.2.	F	3.6.1	3.7.0	T1s040403
TP-25	TP-040148	415	-		F	3.6.1	3.7.0	T1s040420
TP-25	TP-040148	416	-	Correction to RRC Package 2 TC 8.3.1.31.	F	3.6.1	3.7.0	T1s040422
TP-25	TP-040148	417	-	Correction to Package 2 RAB test case 14.4.3 to assign tcv_CN_Domain.	F	3.6.1	3.7.0	T1s040423
TP-25	TP-040148	418	-	Addition of a delay after reception of an RRC Connection Release Complete Message	F	3.6.1	3.7.0	T1s040424
TP-25	TP-040148	419	-	General correction for test cases where UE is switched off Cell(s) relased and reconfigured	F	3.6.1	3.7.0	T1s040425
TP-25	TP-040148	420	-	Corrections to RRC Package 3 TC 8.4.1.29 and 8.4.1.30.	F	3.6.1	3.7.0	T1s040429
TP-25	TP-040148	421	-	Correction to RRC TC 8.2.3.8 in ts_RRC_ReceiveRB_SetupCmpl.	F	3.6.1	3.7.0	T1s040478
TP-25	TP-040148	422	-	Correction to Approved RRC Package 2 TC 8.3.1.22	F	3.6.0	3.7.0	T1s040426
TP-25	TP-040148	423	-	TTCN Correction to test case 8.4.1.1 to RRC ATS V3.6.0	F	3.6.0	3.7.0	T1s040390
TP-25	TP-040167	424	-		В	3.6.0	3.7.0	T1s040460
TP-25	TP-040167	425	-		В	3.6.0	3.7.0	T1s040410
TP-25	TP-040167	426	-	Addition of GCF P4 test case 9.5.5 ATS V3.6.0 Addition of NAS test case 12.6.1.3.2 to NAS ATS	В	3.6.0	3.7.0	T1s040408
TP-25 TP-25	TP-040167 TP-040167	427 428	-	V3.6.0 Addition of NAS test case 12.9.14 to NAS ATS V3.6.0	В	3.6.0	3.7.0 3.7.0	T1s040456 T1s040458
			-	Addition of NAS test case 12.4.1.3 to NAS ATS				
TP-25 TP-25	TP-040167 TP-040167	429 430	-	V3.6.0 Addition of NAS test case 12.9.3 to NAS ATS V3.6.0	B B	3.6.0	3.7.0	T1s040452 T1s040519
TP-25	TP-040167	431	-		В	3.6.0	3.7.0	T1s040519
TP-25	TP-040167	432	-	Addition of RRC test case 8.2.2.4 to RRC ATS V3.6.0 Addition of RRC test case 8.2.6.12 to RRC ATS		3.6.0	3.7.0	T1s040515
TP-25	TP-040167	433	-	V3.6.0 Addition of RAB test case 14.2.38c to RAB ATS	В	3.6.0	3.7.0	T1s040517
TP-25	TP-040167	434	-	V3.6.0 Addition of RAB test case 14.2.38f to RAB ATS	В	3.6.0	3.7.0	T1s040527
TP-25 TP-25	TP-040167 TP-040167	435 436	<u> </u>	V3.6.0 Addition of RAB test case 14.2.381 to RAB ATS V3.6.0 Addition of RAB test case 14.2.40 to RAB ATS V3.6.0	В	3.6.0 3.6.0	3.7.0	T1s040529 T1s040523
TP-25	TP-040167 TP-040167	436	1	Addition of RAB test case 14.2.40 to RAB ATS V3.6.0 Addition of RAB test case 14.2.41 to RAB ATS V3.6.0		3.6.0	3.7.0 3.7.0	T1s040523
11 -23	11 -040107	731	f	Addition of RRC Package 4 test case 8.1.3.5 to RRC	ען	3.0.0	3.7.0	1 13040020
TP-25	TP-040167	438	-	ATS V3.6.1 Addition of RRC Package 4 test case 8.2.1.4 to RRC	В	3.6.1	3.7.0	T1s040500
TP-25	TP-040167	439	<u> -</u>		В	3.6.1	3.7.0	T1s040502
TP-25	TP-040167	440	-	ATS V3.6.1 Addition of RRC Package 4 test case 8.1.2.3 to RRC	В	3.6.1	3.7.0	T1s040504
TP-25	TP-040167	441	<u>l-</u>	ATS V3.6.1	В	3.6.1	3.7.0	T1s040498
TP-25	TP-040167	442	-	Addition of P4 RRC test case 8.3.2.9	В	3.6.1	3.7.0	T1s040495
TP-25	TP-040167	443	-	Addition of P4 RRC test case 8.2.6.2	В	3.6.1	3.7.0	T1s040573
TP-25	TP-040167	444	-	Addition of P4 RRC test case 8.3.1.17	В	3.6.1	3.7.0	T1s040493
TP-25	TP-040167	445	1-	Addition of P4 RRC test case 8.1.6.1	В	3.6.1	3.7.0	T1s040489

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TP-25	TP-040167	446	-	Addition of GCF P4 test case 8.3.1.12 to RRC ATS V3.6.0	В	3.6.0	3.7.0	T1s040446
				Addition of GCF P4 test case 8.2.6.11 to RRC ATS				
TP-25	TP-040167	447	-	V3.6.0	В	3.6.0	3.7.0	T1s040444
TP-25 TP-25	TP-040167 TP-040167	448 449	ŧ-	Addition of GCF P4 test case 9.5.4 ATS V3.6.0 Addition of P3 test case 8.4.1.37 to RRC ATS V3.6.1	B B	3.6.0 3.6.1	3.7.0 3.7.0	T1s040440 T1s040474
TP-25	TP-040167	450	1-	Addition of P3 test case 8.4.1.38 to RRC ATS V3.6.1	В	3.6.1	3.7.0	T1s040474
TP-25	TP-040167	451	1-	Addition of GCF P4 test case 12.2.1.2 ATS V3.6.0	В	3.6.0	3.7.0	T1s040450
				Addition of RAB Package 3 test case 14.2.38b to				
TP-25	TP-040167	452	-	RAB ATS V3.6.1	В	3.6.1	3.7.0	T1s040533
TP-25	TP-040167	453	-	Modification to MAC Package 2 test case 7.1.3.1	F	3.6.1	3.7.0	T1s040531
TP-25	TP-040167	454	L	Correction to NAS test cases 9.4.2.3 (P2), 9.4.2.4 Proc 2 (P2), and 12.4.1.1a (P1)	F	3.6.1	3.7.0	T1s040514
TP-25	TP-040167	455	-	Correction to Package 3 SMS test case 16.2.1.	F	3.6.1	3.7.0	T1s040497
TP-25	TP-040167	456	-	Correction to GCF P1 test case 8.3.1.1	F	3.6.0	3.7.0	T1s040484
TP-25	TP-040193	460	-	Updating Annex A	F	3.6.1	3.7.0	-
TP-26	TP-040237	461	-	ASP update and other corrections	F	3.7.0	3.8.0	T1-041975
TP-26	TP-040237	462	-	Addition of AT command lists used in ATSs	F	3.7.0	3.8.0	T1-041976
TP-26	TP-040237	463	-	ASP change for Radio Link Modification	F	3.7.0	3.8.0	T1-041694
TP-26	TP-040241	1050		Addition of GCF P4 test case 8.2.2.35 to RRC ATS V3.7.0	В	3.7.0	3.8.0	T1s040743
1F-20	17-040241	1050	-	Addition of RRC test case 8.3.1.18 to RRC ATS	ь	3.7.0	3.6.0	115040743
TP-26	TP-040241	1051	_	V3.7.0	В	3.7.0	3.8.0	T1s040448
				Addition of GCF P1 test case 8.4.1.5 to RRC ATS				
TP-26	TP-040241	1052	-	v3.7.0	В	3.7.0	3.8.0	T1s040739
				Addition of GCF P4 test case 8.1.7.1d to RRC ATS	_			_, ,,,,,,
TP-26	TP-040241	1053	-	v3.7.0	В	3.7.0	3.8.0	T1s040717
TP-26	TP-040241	1054		Addition of RRC Package 3 test case 6.1.1.5 to RRC ATS V3.7.0	В	3.7.0	3.8.0	T1s040698
TP-26	TP-040241	1054	-	Addition of GCF P4 test case 12.2.1.4.1 ATS V3.7.0	В	3.7.0	3.8.0	T1s040698
TP-26	TP-040241	1056	-	Addition of GCF P4 test case 12.4.1.4a ATS V3.7.0	В	3.7.0	3.8.0	T1s040679
	0.02			Addition of RRC test case 8.2.3.29 to RRC ATS		00	0.0.0	
TP-26	TP-040241	1057	-	V3.7.0 (Revision of T1s040688)	В	3.7.0	3.8.0	T1s040703
				Changes to GCF package 2 IR_U test case 12.8				
TP-26	TP-040241	1058	-	required for approval	В	3.7.0	3.8.0	T1s040615
TP-26	TP-040241	1059		Addition of P4 test case 8.3.11.1 to IR_U ATS v3.7.0, (Revision of T1s040633).	В	3.7.0	3.8.0	T10040694
17-20	17-040241	1059	-	Addition of GCF P4 test cases 8.1.7.1c to RRC ATS	Ь	3.7.0	3.6.0	T1s040684
TP-26	TP-040241	1060	-	v3.7.0	В	3.7.0	3.8.0	T1s040677
				Correction to Package 4 test case 12.9.7b ATS				
TP-26	TP-040241	1061	-	V3.7.0	В	3.7.0	3.8.0	T1s040674
TP-26	TP-040241	1062	-	Addition of GCF P4 test case 12.4.1.4b ATS V3.7.0	В	3.7.0	3.8.0	T1s040628
TD 00	TD 040044	4000		Correction to Package 4 GMM test case 12.4.1.1b	Ь	0.7.0	200	T4-040050
TP-26	TP-040241	1063	-	(Revised CR T1s040467) Addition of RRC test case 8.3.1.24 to RRC ATS	В	3.7.0	3.8.0	T1s040656
TP-26	TP-040241	1064	_	V3.7.0	В	3.7.0	3.8.0	T1s040671
TP-26	TP-040241	1065	-	Addition of RRC test case 8.3.2.2 to RRC ATS V3.7.0		3.7.0	3.8.0	T1s040669
_				Addition of NAS test case 12.4.1.4c2 to NAS ATS				
TP-26	TP-040241	1066	-	V3.7.0	В	3.7.0	3.8.0	T1s040664
TD 00	TD 040044	4007		Addition of RRC test case 8.3.1.25 to RRC ATS	_	070		T4 040050
TP-26	TP-040241	1067	-	V3.7.0 Addition of NAS test case 12.6.1.3.3 to NAS ATS	В	3.7.0	3.8.0	T1s040658
TP-26	TP-040241	1068	_	V3.7.0	В	3.7.0	3.8.0	T1s040651
11 20	11 040241	1000		Addition of RRC test case 8.3.2.13 to RRC ATS		0.7.0	0.0.0	110040001
TP-26	TP-040241	1069	-	V3.7.0	В	3.7.0	3.8.0	T1s040653
				Addition of P4 test case 8.1.3.4 to the RRC ATS				
TP-26	TP-040241	1070	-	V3.7.0	В	3.7.0	3.8.0	T1s040649
TP-26	TP-040241	1071	-	Addition of P4 test case 8.3.7.13 to IR_U ATS v3.7.0	В	3.7.0	3.8.0	T1s040638
TP-26 TP-26	TP-040241	1072	-	Addition of P4 test case 8.3.7.7 to IR_U ATS v3.7.0	B B	3.7.0 3.7.0	3.8.0	T1s040640
1F-20	TP-040241	1073	-	Addition of NAS test case 12.9.8 to NAS ATS V3.7.0 Addition of NAS test case 12.4.1.4d1 to NAS ATS	D	3.7.0	3.8.0	T1s040613
TP-26	TP-040241	1074	_	V3.7.0	В	3.7.0	3.8.0	T1s040635
TP-26	TP-040241	1075	-	Addition of P2 test case 6.2.1.9 to IR_U ATS v3.7.0	В	3.7.0	3.8.0	T1s040604
TP-26	TP-040241	1076	Ŀ	Addition of GCF P4 test case 12.2.1.5b ATS V3.7.0	В	3.7.0	3.8.0	T1s040595
TP-26	TP-040241	1077		Addition of GCF P4 test case 12.9.7c ATS V3.7.0	В	3.7.0	3.8.0	T1s040587
TD 00	TD 0400::	4070		Addition of GCF P4 test case 8.2.2.31 to RRC ATS	_	0.7.0		T4 - 0 10 10 T
TP-26	TP-040241	1078	-	V3.7.0	В	3.7.0	3.8.0	T1s040485
i		1	1	Addition of RAB Package 4 test case 14.4.2a.3 to RAB ATS V3.7.0	В	3.7.0	3.8.0	T1s040626
TP-26	TP-040244	11070						
TP-26	TP-040241	1079	-	Addition of RAB Package 4 test case 14.4.2a.2 to	Ь	3.7.0	3.6.0	115040626

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TP-26	TP-040241	1081	-	Addition of RAB Package 4 test case 14.4.2a.1 to RAB ATS V3.7.0	В	3.7.0	3.8.0	T1s040622
TP-26	TP-040241	1082	-	Addition of RRC Package 4 test case 8.2.3.11 to RRC ATS V3.7.0	В	3.7.0	3.8.0	T1s040620
TP-26	TP-040241	1083	-	Addition of NAS test case 12.4.3.4 to NAS ATS V3.7.0	В	3.7.0	3.8.0	T1s040609
TP-26	TP-040241	1084	-	Addition of NAS test case 12.9.6 to NAS ATS V3.7.0	В	3.7.0	3.8.0	T1s040607
TP-26	TP-040241	1085	-	Changes to GCF package 4 IR_U test case 8.3.7.9 required for approval.	В	3.7.0	3.8.0	T1s040552
TP-26	TP-040241	1086	_	Changes to GCF package 4 IR_U test case 8.3.7.5 required for approval.	В	3.7.0	3.8.0	T1s040548
TP-26	TP-040241	1087	-	Addition of GCF P4 test case 12.4.1.2 ATS V3.6.0	В	3.7.0	3.8.0	T1s040585
TP-26	TP-040241	1088	-	Addition of GCF P4 test case 10.1.2.2.3 ATS V3.6.0	В	3.7.0	3.8.0	T1s040412
TP-26	TP-040241	1089	-	Addition of GCF P4 test case 9.5.7.1 ATS V3.6.0	В	3.7.0	3.8.0	T1s040404
TP-26	TP-040241	1090	-	Addition of GCF P4 test cases 8.1.12 to RRC ATS v3.6.1	В	3.7.0	3.8.0	T1s040602
TP-26	TP-040241	1091	-	Addition of GCF P4 test cases 8.1.7.1b to RRC ATS v3.6.1	В	3.7.0	3.8.0	T1s040600
TP-26	TP-040241	1092	-	Addition of GCF P4 test case 12.2.1.6.2 ATS V3.6.0	В	3.7.0	3.8.0	T1s040436
TP-26	TP-040241	1093		Addition of GCF P4 test case 12.2.1.5a.1 ATS V3.6.0	В	3.7.0	3.8.0	T1s040434
TP-26	TP-040241	1094	<u></u>	Addition of GCF P4 test case 8.3.1.15 to RRC ATS V3.6.0	В	3.7.0	3.8.0	T1s040487
TP-26	TP-040241	1095	-	Addition of GCF P4 test case 8.1.2.4 ATS V3.6.0	В	3.7.0	3.8.0	T1s040442
				Addition of NAS test case 12.4.1.4d2 to NAS ATS				
TP-26	TP-040241	1096	-	V3.6.0	В	3.7.0	3.8.0	T1s040579
TP-26	TP-040241	1097	-	Addition of GCF P3 test case 6.1.1.7 ATS V3.6.0	В	3.7.0	3.8.0	T1s040427
TP-26	TP-040241	1098	-		В	3.7.0	3.8.0	T1s040472
TP-26	TP-040241	1099	-	Re-submission of GCF package 2 IR_U test case 6.2.2.1 for approval.	В	3.7.0	3.8.0	T1s040534
TP-26	TP-040241	1100	-	Addition of RAB test case 14.2.51b.1 to RAB ATS V3.6.0	В	3.7.0	3.8.0	T1s040570
TP-26	TP-040241	1101	-	Addition of RRC test case 10.1.2.3.7 to RRC ATS V3.6.1	В	3.7.0	3.8.0	T1s040508
TP-26	TP-040241	1102	-	Addition of RRC test case 10.1.2.7.1 to RRC ATS V3.6.1	В	3.7.0	3.8.0	T1s040510
TP-26	TP-040241	1103	-	Addition of RRC test case 10.1.2.3.2 to RRC ATS V3.6.1	В	3.7.0	3.8.0	T1s040506
TP-26	TP-040241	1104	-	Addition of NAS Package 4 test case 12.2.1.6 Proc1 to NAS ATS V3.6.1	В	3.7.0	3.8.0	T1s040565
TP-26	TP-040241	1105	-	Addition of NAS Package 4 test case 12.2.1.4 proc2 to NAS ATS V3.6.1	В	3.7.0	3.8.0	T1s040561
TP-26	TP-040241	1106	_	Addition of NAS Package 4 test case 12.2.1.5a Proc2 to NAS ATS V3.6.1	В	3.7.0	3.8.0	T1s040563
TP-26	TP-040241	1107	_	Addition of NAS Package 4 test case 12.2.1.10 to NAS ATS V3.6.1	В	3.7.0	3.8.0	T1s040559
	11 010211	1101		Addition of RAB test case 14.2.23a2 to RAB ATS				110010000
TP-26	TP-040241	1108	-	V3.6.0 Addition of NAS test case 12.6.1.3.1 to NAS ATS	В	3.7.0	3.8.0	T1s040556
TP-26	TP-040241	1109	-	V3.6.0 Addition of GCF P2 RRC 8.4.1.7 - Revision of	В	3.7.0	3.8.0	T1s040454
TP-26	TP-040241	1110	-	T1s040381	В	3.7.0	3.8.0	T1s040766
TP-26	TP-040242	1111	-	Correction to RRC P3 TC 8.4.1.37	F	3.7.0	3.8.0	T1s040735
TP-26	TP-040242	1112	-	Correction to RRC P2 TC 8.3.1.31 for the timer value before step 5.	F	3.7.0	3.8.0	T1s040736
TP-26	TP-040242	1113	-	Correction to approved GCF P4 test cases 8.1.7.1c	F	3.7.0	3.8.0	T1s040734
TP-26	TP-040242	1114	-	Correction to approved package 4 NAS Test case tc_12_6_1_3_2	F	3.7.0	3.8.0	T1s040737
TP-26	TP-040242	1115	1-	Corrections to RRC Package 1 TC 8.4.1.1.	F	3.7.0	3.8.0	T1s040738
TP-26	TP-040242	1116	-	Correction to the RRC default message handler on Dc SAP for Deactivate PDP Context Request	F	3.7.0	3.8.0	T1s040731
TD oc	TD 040040	4447	1	message in RRC ATS.	_	0.7.0	0.00	T4-040700
TP-26 TP-26	TP-040242 TP-040242	1117 1118	-	Correction to TTCN for MultiRAB test cases. Correction to approved package 4 NAS Test case	F F	3.7.0 3.7.0	3.8.0	T1s040732 T1s040733
				tc_12_6_1_3_1				
TP-26 TP-26	TP-040242 TP-040242	1119 1120	-	Summary of regression errors in the wk45 ATS. Correction to RRC P4 TC 8.1.7.1b for comments in	F F	3.7.0 3.7.0	3.8.0	T1s040723 T1s040711
TP-26	TP-040242	1121	-	test steps. Correction to GCF P3 NAS test Cases 13.2.1.1, 13.2.2.1 and 13.2.2.2	F	3.7.0	3.8.0	T1s040712
	Į	1	1		_	0.7.0	0.00	T4-040740
TP-26	TP-040242	1122	-	ICorrection to GCF P4 NAS test Case 1221 62	IF	13.7.0	13.8.0	111SU4U713
TP-26 TP-26	TP-040242 TP-040242	1122 1123	- -	Correction to GCF P4 NAS test Case 12.2.1.6.2 Correction to RAB test case 14.4.2.3 and 14.4.2a.3.	F F	3.7.0 3.7.0	3.8.0	T1s040713 T1s040714

T1s040724 T1s040725 T1s040726 T1s040727 T1s040729 T1s040730 T1s040715 T1s040716 T1s040716 T1s040709 T1s040709 T1s040707 T1s040693 T1s040697 T1s040696 T1s040694 T1s040695
T1s040726 T1s040727 T1s040729 T1s040730 T1s040721 T1s040715 T1s040716 T1s040709 T1s040708 T1s040707 T1s040693 T1s040697 T1s040696 T1s040694
T1s040726 T1s040727 T1s040729 T1s040730 T1s040721 T1s040715 T1s040716 T1s040709 T1s040708 T1s040707 T1s040693 T1s040697 T1s040696 T1s040694
T1s040729 T1s040730 T1s040721 T1s040715 T1s040716 T1s040709 T1s040708 T1s040707 T1s040693 T1s040697 T1s040696 T1s040694
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TP-26	TP-040242	1175	-	TTCN changes to approved package 1 RRC testcase 8.4.1.3	F	3.7.0	3.8.0	T1s040576
TP-26	TP-040242	1176	-		F	3.7.0	3.8.0	T1s040575
TP-26	TP-040242	1177	-	Correction to Approved RRC Package 2 TC 8.4.1.2	F	3.7.0	3.8.0	T1s040572
TP-26	TP-040242	1178	-	Addition of verdicts in RRC default message handler on Dc SAP for Deactivate PDP Context Request message in RRC ATS.(Revision of T1s040512)	F	3.7.0	3.8.0	T1s040569
TP-26	TP-040242	1179	-	Regression error corrections to TTCN deliveries of wk26 and wk31	F	3.7.0	3.8.0	T1s040558
TP-26	TP-040242	1180	-	Modification to MAC Package 2 test case 7.1.3.1	F	3.7.0	3.8.0	T1s040531
TP-26	TP-040242	1181	-	Correction to NAS test cases 9.4.2.3 (P2), 9.4.2.4 Proc 2 (P2), and 12.4.1.1a (P1)	F	3.7.0	3.8.0	T1s040514
TP-26	TP-040242	1182	-	Correction to Package 3 SMS test case 16.2.1.	F	3.7.0	3.8.0	T1s040497
TP-26	TP-040242	1183	-	Correction to GCF P1 test case 8.3.1.1	F	3.7.0	3.8.0	T1s040484
TP-26	TP-040242	1184	-	Regression test error corrections to TTCN deliveries of wk42	F	3.7.0	3.8.0	T1s040699
TP-26	TP-040238	1185	-	Updating Annex A	F	3.7.0	3.8.0	-
TP-27	TP-050039	1185		RRC Connection Establishment: Reject with InterRATInfo is set to GSM and selection to the designated system fails	В	3.8.0	5.0.0	T1s050056
TP-27	TP-050039	1186		RRC Connection Establishment: Reject with interRATInfo is set to GSM	В	3.8.0	5.0.0	T1s050054
TP-27	TP-050039	1187		MM connection / abortion by the network / cause not equal to #6	В	3.8.0	5.0.0	T1s050044
TP-27	TP-050039	1188		PS detach / rejected / PS services not allowed in this PLMN/ test1	В	3.8.0	5.0.0	T1s050046
TP-27	TP-050039	1189		Routing area updating / abnormal cases / attempt counter check / miscellaneous reject causes	В	3.8.0	5.0.0	T1s050018
TP-27	TP-050039	1190		RRC / Paging for Connection in connected mode (URA_PCH, multiple paging records)	В	3.8.0	5.0.0	T1s050038
TP-27	TP-050039	1191		Combined routing area updating / abnormal cases / access barred due to access class control / test procedure 1	В	3.8.0	5.0.0	T1s050036
TP-27	TP-050039	1192		Combined routing area updating / abnormal cases / access barred due to access class control / test procedure 2	В	3.8.0	5.0.0	T1s050034
TP-27	TP-050039	1193		Interactive or background / UL:64 DL:384 kbps / PS RAB + UL:3.4 DL: 3.4 kbps SRBs for DCCH / 20 ms TTI	В	3.8.0	5.0.0	T1s050025
TP-27	TP-050039	1194		Measurement Report on INITIAL DIRECT TRANSFER message and UPLINK DIRECT TRANSFER message	В	3.8.0	5.0.0	T1s050031
TP-27	TP-050039	1195		Conversational / speech / UL:5.9 DL:5.9 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH	В	3.8.0	5.0.0	T1s050023
TP-27	TP-050039	1196		Interactive or background / UL:384 DL:384 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH / 10 ms TTI	В	3.8.0	5.0.0	T1s050010
TP-27	TP-050039	1197		Interactive or background / UL:128 DL:128 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH	В	3.8.0	5.0.0	T1s050008
TP-27	TP-050039	1198		Cell change order from UTRAN/To GPRS/CELL_DCH/Failure (Physical channel & Reversion Failure)	В	3.8.0	5.0.0	T1s050001
TP-27	TP-050039	1199		RRC Connection Release in CELL_DCH state (Network Authentication Failure): Success	В	3.8.0	5.0.0	T1s050006
TP-27	TP-050039	1200		Inter system handover from UTRAN/To GSM/Speech/Failure (Physical channel Failure and Reversion Failure)	В	3.8.0	5.0.0	T1s040798
TP-27	TP-050039	1201			В	3.8.0	5.0.0	T1s040794
TP-27	TP-050039	1202		RRC / Radio Bearer Establishment for transition from CELL_DCH to CELL_FACH (Frequency band modification): Success	В	3.8.0	5.0.0	T1s040796
TP-27	TP-050039	1203		Correct Selection of RACH parameters (FDD)	В	3.8.0	5.0.0	T1s040755
TP-27	TP-050039	1204		Measurement Control and Report: Additional Measurements list	В	3.8.0	5.0.0	T1s040791
TP-27	TP-050039	1205		PS attach / rejected / PS services not allowed in this PLMN	В	3.8.0	5.0.0	T1s040779
TP-27	TP-050039	1206		Access Service class selection for RACH transmission	В	3.8.0	5.0.0	T1s040757
TP-27	TP-050039	1207		Selection of RAT for UPLMN; Automatic mode	В	3.8.0	5.0.0	T1s040746
TP-27	TP-050039	1208		Selection of RAT for OPLMN; Automatic mode	В	3.8.0	5.0.0	T1s040748
TP-27	TP-050039	1209		Cell reselection if cell becomes barred or S<0;	В	3.8.0	5.0.0	T1s040701
]		UTRAN to GPRS (CELL_FACH)				

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TP-27	TP-050039	1210		Service Request / RAB re-establishment / UE initiated / multiple PDP contexts	В	3.8.0	5.0.0	T1s040719
TP-27	TP-050040	1211		Summary of regression errors in the wk04 ATS	F	3.8.0	5.0.0	T1s050063
TP-27	TP-050040	1212		Summary of regression errors in the wk04 ATS.	F.	3.8.0	5.0.0	T1s050062
TP-27	TP-050040	1213		Correction to RRC P2 TC 8.4.1.7	F.	3.8.0	5.0.0	T1s050040
TP-27	TP-050040	1214		Summary of regression errors in the wk04 ATS.	F	3.8.0	5.0.0	T1s050040
TP-27	TP-050040				F			
		1215		Summary of regression errors in the wk04 ATS.		3.8.0	5.0.0	T1s050058
TP-27	TP-050040	1216		Correction to approved package 4 NAS Test case 12_6_1_3_3	F	3.8.0	5.0.0	T1s050052
TP-27	TP-050040	1217		Correction to Approved RRC Package 3 TC 8.4.1.38	F	3.8.0	5.0.0	T1s050051
TP-27	TP-050040	1218		Correction to Approved NAS Package 3 TC 9.4.7	F	3.8.0	5.0.0	T1s050053
TP-27	TP-050040	1219		Correction to Approved RRC Package 2 TC 8.3.7.2 / 8.3.7.3	F	3.8.0	5.0.0	T1s050050
TP-27	TP-050040	1220		Correction to Approved RRC Package 3 TC 8.4.1.36	F	3.8.0	5.0.0	T1s050048
TP-27	TP-050040	1221		Correction to Approved IR_U Package 2 test case 6.2.2.1	F	3.8.0	5.0.0	T1s050042
TP-27	TP-050040	1222		Correction to Approved IR_U Package 4 Test Case 8.3.7.12	F	3.8.0	5.0.0	T1s050043
TP-27	TP-050040	1223		Correction to test step "ts_AT_TerminateCall".	F	3.8.0	5.0.0	T1s050041
TP-27	TP-050040	1224		Wk51 regression error report on unapproved and approved Idlemode testcases 6.1.2.x	F	3.8.0	5.0.0	T1s050027
TP-27	TP-050040	1225		Correction to approved package 3 NAS Test case	F	3.8.0	5.0.0	T1s050030
TD OF	TD 050040	4000	<u> </u>	9_4_7	_	0.00	F 0 0	T4-050000
TP-27	TP-050040	1226	<u> </u>	Summary of regression errors in the wk51 ATS.	F	3.8.0	5.0.0	T1s050028
TP-27	TP-050040	1227		Correction to RRC P1 TC 8.4.1.3	F	3.8.0	5.0.0	T1s050020
TP-27	TP-050040	1228		Correction to RRC P2 TC 8.3.1.22 for removing check of "FOR" field value from ROUTING AREA UPDATING REQUEST message.	F	3.8.0	5.0.0	T1s050021
TP-27	TP-050040	1229		Correction to Package 4 NAS test case 12.9.14	F	3.8.0	5.0.0	T1s050022
TP-27	TP-050040	1230		Summary of regression errors in the wk51 ATS.	F	3.8.0	5.0.0	T1s050033
TP-27	TP-050040	1231		Correction to 34.123-3, section 16, SMS test cases regarding Validity Period Formats	F	3.8.0	5.0.0	T1s050029
TP-27	TP-050040	1232		Additional Corrections required for 14.4.2.2 test cases in the RAB ATS.	F	3.8.0	5.0.0	T1s050017
TP-27	TP-050040	1233		Revised corrections to approved IR_U test cases	F	3.8.0	5.0.0	T1s050012
TP-27	TP-050040	1234		6_2_1_1, 6_2_1_7 and 6_2_1_8. Corrections required for "Combinations on SCCPCH" test cases in the RAB ATS.	F	3.8.0	5.0.0	T1s040801
TP-27	TP-050040	1235		Correction to RRC P1 TC 8.4.1.5	F	3.8.0	5.0.0	T1s040797
TP-27	TP-050040	1236		Additional Corrections Required for the wk47 ATS	F	3.8.0	5.0.0	T1s040797
TP-27	TP-050040	1237		Correction to Package 4 NAS test case 12.2.1.5a Proc1	F	3.8.0	5.0.0	T1s040773
TP-27	TP-050040	1238		Summary of regression errors in the wk49 ATS.	F	3.8.0	5.0.0	T1s040790
TP-27	TP-050040	1239		Summary of regression errors in wk49 ATS.	F	3.8.0	5.0.0	T1s040789
TP-27	TP-050040	1240		Correction to Approved RRC Package 4 TC 8.3.11.1	F	3.8.0	5.0.0	T1s040788
TP-27	TP-050040	1241		Correction required to Package 4 NAS test case 12.9.13.	F	3.8.0	5.0.0	T1s040787
TP-27	TP-050040	1242		Correction to approved GCF P4 NAS test case 12.9.8: improvement of incomplete implementation of T1-041930	F	3.8.0	5.0.0	T1s040786
TP-27	TP-050040	1243		Correction to SIB1 contents for approved RRC Idle Mode and InterRAT test cases.	F	3.8.0	5.0.0	T1s040774
TP-27	TP-050040	1244		Correction to Package 4 NAS test cases 12.4.3.4.	F	3.8.0	5.0.0	T1s040781
TP-27	TP-050040	1245		Corrections to RRC Package 3 TC 8.4.1.26 to change the Downlink Power level settings of Cell A at Time Instant 'T1'.	F	3.8.0	5.0.0	T1s040782
TP-27	TP-050040	1246			F	3.8.0	5.0.0	T1s040783
TP-27	TP-050040	1247		Correction to RRC P1 TC 8.4.1.5 (Revision of T1s040739)	F	3.8.0	5.0.0	T1s040770
TP-27	TP-050040	1248		Corrections required to rlc_SizeIndex in the RAB	F	3.8.0	5.0.0	T1s040772
TP-27	TP-050040	1249		Corrections to RRC 8.3.2.x for Special LI	F	3.8.0	5.0.0	T1s040769
TP-27	TP-050040	1250		Summary of regression errors in the wk47 ATS.	F	3.8.0	5.0.0	T1s040768
TP-27	TP-050040	1251	 	Summary of regression errors in the wk47 ATS.	F	3.8.0	5.0.0	T1s040760
TP-27	TP-050040	1252		Correction to Package 2 RRC test case 8.3.2.11 to increase the wait time while checking that UE does	F	3.8.0	5.0.0	T1s040752
		1.5-		not send URA Update.				
TP-27	TP-050040	1253		Correction to RRC Test Case 8.3.1.22.	F	3.8.0	5.0.0	T1s040753

TP-27 TP-050040 1254 Correction to approved package 2 NAS Test case F 3.8.0 3.0.0 T1s040761	Meet-	TSG doc	CR	Rev	Subject	Cat	Old vers	New vers	WG doc
TP-27		TP-050040	1254			F		5.0.0	T1s040761
TP-27	TP-27		1255		Corrections to RRC Package 1 TC 8.3.1.1 to add a delay before SS reconfigures MAC according to the new C-RNTI or U-RNTI assigned to UE.		3.8.0	5.0.0	T1s040762
TP-27 TP-050040 1258 Summary of regression errors in IR U wk47 ATS. F 3.8.0 5.0.0 T15040754 TP-27 TP-050040 1250 Correction to package 1 test case 8.3.4.3. F 3.8.0 5.0.0 T15040745 TP-27 TP-050040 1260 Correction to paperoved package 4 NAS Test cases F 3.8.0 5.0.0 T15040745 TP-27 TP-050037 1261 - Add new verified TTCN test cases CR 34.123-3 F 3.8.0 5.0.0 T15040745 TP-27 TP-050037 1261 - Add new verified TTCN test cases CR 0.34.123-3 F 3.8.0 5.0.0 T15040745 TP-27 TP-050036 1263 - Corrections Required to Combinations on F 3.8.0 5.0.0 T1-05020173 TP-27 TP-050036 1268 - Introduce ASF for ICR TDD F 9 9, 9.0 5.0.0 T1-05020173 TP-27 TP-050036 1268 - Introduce ASF for ICR TDD F 9 9, 9.0 5.0.0 T1-050037 TP-27 TP-050036 1268 - Introduce ASF for ICR TDD F 9 9, 9.0 5.0.0 T1-050250 TP-27 TP-050036 1268 - Introduce ASF for ICR TDD F 9 9, 9.0 5.0.0 T1-050250 TP-27 TP-050036 1268 - Introduce ASF for ICR TDD F 9 9, 9.0 5.0.0 T1-050250 TP-27 TP-050036 1268 - Introduce ASF for ICR TDD F 9 9, 9.0 5.0.0 T1-050250 TP-27 TP-050036 1268 - Introduce ASF for ICR TDD F 9 9, 9.0 5.0.0 T1-050250 TP-27 TP-050036 1268 - Introduce ASF for ICR TDD F 9 9, 9.0 5.0.0 T1-050250 TP-27 TP-050036 1268 - Introduce ASF for ICR TDD F 9 9, 9.0 5.0.0 T1-050282 TP-27 TP-050036 1270 - Addition of NAS WI 12 test case 12.9.7 to NAS ATS B 5.0.0 5.1.0 R5050134 ATS V5.0.0 Addition of WI-012 NAS test case 12.9.7 to NAS ATS B 5.0.0 5.1.0 R5050134 ATS V5.0.0 Addition of WI-012 NAS test case 12.9.3 to NAS ATS B 5.0.0 5.1.0 R50500080 TP-28 RP-050365 1271 - Addition of WI-012 PASR test case 14.2.43.1 to B 5.0.0 5.1.0 R50500080 TP-28 RP-050365 1273 - Addition of WI-012 RAB test case 14.2.43.2 to RAB B 5.0.0 5.1.0 R50500080 TP-28 RP-050365 1276 - Addition of WI-012 RAB test case 14.2.43.2 to RAB B 5.0.0 5.1.0 R50500080 TP-28 RP-050365 1276 - Addition of WI-012 RAB test case 14.2.43.2 to RAB B 5.0.0 5.1.0 R50500080 TP-28 RP-050365 1276 - Addition of WI-012 RAB test case 7.2.3.35 to RLC B 5.0.0 5.1.0 R50500080 TP-28 RP-050365 1276 - Addition of WI-012 RAB test case 8.1.1 t					carriery or regreeous circle in the circle	-			
TP-27 TP-050040 1259 Correction to package 1 test case 8.3.4.3.									
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SCCPCH* configurations.		TP-050037		=	(prose) in Annex A	F	3.8.0		-
TP-27 TP-050036 1265 Introduce ASP for LCR TDD B 3.8.0 5.0.0 T1-050037 T1-050037 TP-27 TP-050036 1267 Replacement of 34 (123 A Release 99 by a pointer to F 3.8.0 3.9.0 T1-050203 TP-27 TP-050036 1267 Corrections of encoding rules and postambles F 3.8.0 5.0.0 T1-050282 TP-27 TP-050036 1268 Introduce ASP for A-GPS B 3.8.0 5.0.0 T1-050282 TP-27 TP-050036 1268 Introduce ASP for A-GPS B 3.8.0 5.0.0 T1-050282 TP-27 TP-050036 1270 Addition of NAS WI12 test case 12.9.7 to NAS ATS B 5.0.0 5.1.0 R5050134 ATS V5.0.0 Addition of NAS WI12 test case 12.9.9 to NAS ATS B 5.0.0 5.1.0 R5050134 ATS V5.0.0 Addition of NAS WI12 test case 12.9.9 to NAS ATS B 5.0.0 5.1.0 R5050080 V3.8.0 Addition of WI-012 RAB test case 14.2.43.1 to B 5.0.0 5.1.0 R5050090 Addition of WI-012 RAB test case 14.2.43.2 to RAB B 5.0.0 5.1.0 R5050090 Addition of WI-012 RAB test case 14.2.43.2 to RAB B 5.0.0 5.1.0 R5050090 Addition of WI-012 RAB test case 14.2.58 to RAB B 5.0.0 5.1.0 R5050090 Addition of WI-012 RAB test case 14.2.58 to RAB B 5.0.0 5.1.0 R5050090 Addition of WI-012 RAB test case 14.2.58 to RAB B 5.0.0 5.1.0 R5050090 Addition of WI-012 RAB test case 14.2.58 to RAB B 5.0.0 5.1.0 R5050090 Addition of WI-012 RAB test case 72.3.32 to RLC B 5.0.0 5.1.0 R5050090 Addition of WI-012 RAB test case 72.3.35 to RLC B 5.0.0 5.1.0 R50500060 ATS V3.8.0 Addition of WI-012 RLC test case 72.3.35 to RLC B 5.0.0 5.1.0 R50500070 ATS V3.8.0 Addition of WI-012 RLC test case 8.1.19 to RRC ATS V5.0.0 B 5.0.0 5.1.0 R5050070 ATS V3.8.0 Addition of WI-012 RLC test case 8.3.1.30 to RRC B 5.0.0 5.1.0 R5050070 ATS V3.8.0 Addition of WI-012 RLC test case 8.3.1.30 to RRC B 5.0.0 5.1.0 R50500138 ATS V3.8.0 Addition of WI-012 RLC test case 8.3.1.30 to RRC B 5.0.0 5.1.0 R50500138 ATS V3.8.0 Addition of WI-012	TP-27	TP-050036	1263	-		F	3.8.0	5.0.0	T1-050201r3
TP-27 TP-050036 1266 - Replacement of 34.123-3 Release 9 by a pointer to the newly created Release 5 version of the newly created Release 6 version of the new created Release 6 version of the newly created Release 6 version of the newly created Release 6 version of the newly created Release 6 version of the new cre	TP-27	TP-050036	1264	-			3.8.0	5.0.0	T1-050036
TP-27				-					
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RP-28 RP-050365 1270 Addition of NAS WI 12 test case 12.3.2.7 to NAS ATS B 5.0.0 \$6,500	TP-27			-		F			
NS.0.0				-					
ATS V5.0.0	RP-28	RP-050365	1270	-		В	5.0.0		R5s050128
N3.8.0	RP-28	RP-050365	1271	-		В	5.0.0	5.1.0	R5s050134
RP-28 RP-050365 1274 - Addition of Wi-012 RAB test case 14.2.43.2 to RAB B 5.0.0 5.1.0 R5s050098 ATS V5.0.0 Addition of Wi-012 RAB test case 14.2.58a to RAB B 5.0.0 5.1.0 R5s050096 ATS V5.0.0 Addition of Wi-012 RAB test case 7.2.3.28 to RLC B 5.0.0 5.1.0 R5s050096 ATS V5.0.0 Addition of Wi-012 RAB test case 7.2.3.28 to RLC B 5.0.0 5.1.0 R5s050066 ATS V3.8.0 Addition of Wi-012 RLC test case 7.2.3.28 to RLC B 5.0.0 5.1.0 R5s050066 ATS V3.8.0 ATS V3.8.0 Addition of Wi-012 RLC test case 7.2.3.32 to RLC B 5.0.0 5.1.0 R5s050068 ATS V3.8.0 Addition of Wi-012 RLC test case 7.2.3.35 to RLC B 5.0.0 5.1.0 R5s050068 ATS V3.8.0 Addition of Wi-012 RLC test case 7.2.3.35 to RLC B 5.0.0 5.1.0 R5s050070 ATS V3.8.0 Addition of Wi-012 RLC test case 8.1.1.9 to RRC ATS V5.0.0 B 5.0.0 5.1.0 R5s050141 (Revision of R5s050125) Addition of R5s050125) RP-28 RP-050365 1280 Addition of Wi-012 test case 8.1.2.11 to RRC ATS B 5.0.0 5.1.0 R5s050141 (Revision of R5s050125) Addition of RC Wi-012 test case 8.3.7.16 to IR_U ATS B 5.0.0 5.1.0 R5s050138 ATS V5.0.0 AT	RP-28	RP-050365	1272	-		В	5.0.0	5.1.0	R5s050080
RP-28 RP-050365 1274 Addition of Wi-012 RAB test case 14.2.43.2 to RAB B 5.0.0 5.1.0 R5s050098 RP-28 RP-050365 1275 - Addition of Wi-012 RAB test case 14.2.58a to RAB B 5.0.0 5.1.0 R5s050096 RP-28 RP-050365 1276 - Addition of Wi-012 RLC test case 7.2.3.28 to RLC B 5.0.0 5.1.0 R5s050066 RP-28 RP-050365 1277 - Addition of Wi-012 RLC test case 7.2.3.32 to RLC B 5.0.0 5.1.0 R5s050068 RP-28 RP-050365 1278 - Addition of Wi-012 RLC test case 7.2.3.35 to RLC B 5.0.0 5.1.0 R5s050070 RP-28 RP-050365 1279 Addition of Wi-012 RLC test case 8.1.1.9 to RRC ATS v5.0.0 B 5.0.0 5.1.0 R5s050070 RP-28 RP-050365 1280 Addition of Wi-012 test case 8.1.2.11 to RRC ATS v5.0.0 B 5.0.0 5.1.0 R5s050074 RP-28 RP-050365 1281 Addition of Wi-012 test case 8.3.7.16 to IR_U ATS v5.0.0 B 5.0.0 5.1.0 R5s050076 <	RP-28	RP-050365	1273	-		В	5.0.0	5.1.0	R5s050100
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RP-28 RP-050365 1280 - Addition of WI12 test cases 8.1.2.11 to RRC ATS B 5.0.0 5.1.0 R5s050074 v3.8.0 RP-28 RP-050365 1281 - Addition of RRC WI-012 test case 8.3.1.30 to RRC B 5.0.0 5.1.0 R5s050138 RP-28 RP-050365 1282 - Addition of WI-012 test case 8.3.7.16 to IR_U ATS B 5.0.0 5.1.0 R5s050076 3.8.0 RP-28 RP-050365 1283 - Regression changes on TC 8.3.9.5 - WK09 B 5.0.0 5.1.0 R5s050112 RP-28 RP-050365 1284 - Addition of RRC WI-012 test case 8.4.1.6 to RRC B 5.0.0 5.1.0 R5s050132 ATS V5.0.0 Addition of WI-012 NAS test case 9.4.5.4.6 to NAS B 5.0.0 5.1.0 R5s050136 ATS V5.0.0 AT	RP-28	RP-050365	1278	-		В	5.0.0	5.1.0	R5s050070
RP-28 RP-050365 1280 Addition of Wi12 test cases 8.1.2.11 to RRC ATS is 3.8.0 5.0.0 5.1.0 R5s050074 is 3.8.0 RP-28 RP-050365 1281 - Addition of RRC Wi-012 test case 8.3.7.16 to IR_U ATS is 3.8.0 5.0.0 5.1.0 R5s050138 is 5.0.0 5.1.0 R5s050138 is 5.0.0 5.1.0 R5s050076 is 5.1.0 R5s050112 is 5.1.0 R5s050112 is 5.1.0 R5s050112 is 5.1.0 R5s050112 is 5.1.0 R5s050132 is 5.1.0 R5s050172 is 5.1.0	RP-28	RP-050365	1279	-	Addition of WI12 test case 8.1.1.9 to RRC ATS v5.0.0	В	5.0.0	5.1.0	R5s050141
RP-28 RP-050365 1282 - Addition of WI-012 test case 8.3.7.16 to IR_U ATS B 5.0.0 5.1.0 R5s050076	RP-28	RP-050365	1280	-	Addition of WI12 test cases 8.1.2.11 to RRC ATS	В	5.0.0	5.1.0	R5s050074
RP-28 RP-050365 1282 Addition of WI-012 test case 8.3.7.16 to IR_U ATS B 5.0.0 5.1.0 R5s050076 RP-28 RP-050365 1283 - Regression changes on TC 8.3.9.5 - WK09 B 5.0.0 5.1.0 R5s050112 RP-28 RP-050365 1284 - Addition of RRC WI-012 test case 8.4.1.6 to RRC B 5.0.0 5.1.0 R5s050132 RP-28 RP-050365 1285 - Addition of WI-012 NAS test case 9.4.5.4.6 to NAS B 5.0.0 5.1.0 R5s050136 RP-28 RP-050365 1286 - Addition of NAS P4 test case 12.4.1.4c Proc1 to NAS B 5.0.0 5.1.0 R5s050170 RP-28 RP-050365 1287 - Revision and Addition of WI-10 (P2) test cases 36.2.2.2 to IR_U ATS v5.0.0 B 5.0.0 5.1.0 R5s050173 RP-28 RP-050365 1287 - Revision and Addition of WI-10 (P2) test cases 36.2.2.4 test case 36.2.2.2 to IR_U ATS v5.0.0 B 5.0.0 5.1.0 R5s050173 RP-28 RP-050281 1299 - Correctio	RP-28	RP-050365	1281	-	Addition of RRC WI-012 test case 8.3.1.30 to RRC	В	5.0.0	5.1.0	R5s050138
RP-28 RP-050365 1284 - Addition of RRC WI-012 test case 8.4.1.6 to RRC ATS V5.0.0 B 5.0.0 5.1.0 R5s050132 R5s050132 RP-28 RP-050365 1285 - Addition of WI-012 NAS test case 9.4.5.4.6 to NAS ATS V5.0.0 B 5.0.0 5.1.0 R5s050136 RP-28 RP-050365 1286 - Addition of NAS P4 test case 12.4.1.4c Proc1 to NAS ATS V5.0.0 B 5.0.0 5.1.0 R5s050170 RP-28 RP-050365 1287 - Revision and Addition of WI-10 (P2) test cases 6.2.2.2 to IR_U ATS V5.0.0 B 5.0.0 5.1.0 R5s050173 RP-28 RP-050281 1289 - Summary of regression errors for IR_U_r3_wk17. F 5.0.0 5.1.0 R5s050146 RP-28 RP-050281 1290 - Correction to Approved RRC Package 4 TC 8.4.1.40 F 5.0.0 5.1.0 R5s050169 RP-28 RP-050281 1291 - Correction to Approved RRC Package 4 TC 8.4.1.40 F 5.0.0 5.1.0 R5s050168 RP-28 RP-050281 1292 - Correction to Approved testcase 8.2.2.4 and 8.2.4.4 F 5.0.0 5.1.0	RP-28	RP-050365	1282	-	Addition of WI-012 test case 8.3.7.16 to IR_U ATS	В	5.0.0	5.1.0	R5s050076
RP-28 RP-050365 1284 - Addition of RRC WI-012 test case 8.4.1.6 to RRC ATS V5.0.0 B 5.0.0 5.1.0 R5s050132 R5s050132 RP-28 RP-050365 1285 - Addition of WI-012 NAS test case 9.4.5.4.6 to NAS ATS V5.0.0 B 5.0.0 5.1.0 R5s050136 RP-28 RP-050365 1286 - Addition of NAS P4 test case 12.4.1.4c Proc1 to NAS ATS V5.0.0 B 5.0.0 5.1.0 R5s050170 RP-28 RP-050365 1287 - Revision and Addition of WI-10 (P2) test cases 6.2.2.2 to IR_U ATS V5.0.0 B 5.0.0 5.1.0 R5s050173 RP-28 RP-050281 1289 - Summary of regression errors for IR_U_r3_wk17. F 5.0.0 5.1.0 R5s050146 RP-28 RP-050281 1290 - Correction to Approved RRC Package 4 TC 8.4.1.40 F 5.0.0 5.1.0 R5s050169 RP-28 RP-050281 1291 - Correction to Approved RRC Package 4 TC 8.4.1.40 F 5.0.0 5.1.0 R5s050168 RP-28 RP-050281 1292 - Correction to Approved testcase 8.2.2.4 and 8.2.4.4 F 5.0.0 5.1.0	RP-28	RP-050365	1283	-	Regression changes on TC 8.3.9.5 - WK09	В	5.0.0	5.1.0	R5s050112
RP-28 RP-050365 1285 Addition of WI-012 NAS test case 9.4.5.4.6 to NAS ATS V5.0.0 B 5.0.0 5.1.0 R5s050136 RP-28 RP-050365 1286 Addition of NAS P4 test case 12.4.1.4c Proc1 to NAS BATS V5.0.0 5.0.0 5.1.0 R5s050170 RP-28 RP-050365 1287 Revision and Addition of WI-10 (P2) test cases BAC.2.2 to IR_U ATS v5.0.0 B 5.0.0 5.1.0 R5s050173 RP-28 RP-050281 1289 Summary of regression errors for IR_U_r3_wk17. F 5.0.0 5.1.0 R5s050146 RP-28 RP-050281 1290 Correction to Approved RRC Package 4 TC 8.4.1.40 F 5.0.0 5.1.0 R5s050169 RP-28 RP-050281 1291 Correction to a missing LB entity in LB setup for a missing LB entity in LB setup for the definition of CLOSE UE for a missing LB entity in LB setup for the definition of CLOSE UE		RP-050365		-	Addition of RRC WI-012 test case 8.4.1.6 to RRC	В			R5s050132
RP-28 RP-050365 1286 Addition of NAS P4 test case 12.4.1.4c Proc1 to NAS B 5.0.0 5.1.0 R5s050170 RP-28 RP-050365 1287 Revision and Addition of WI-10 (P2) test cases 6.2.2.2 to IR_U ATS v5.0.0 B 5.0.0 5.1.0 R5s050173 RP-28 RP-050281 1289 Summary of regression errors for IR_U_r3_wk17. F 5.0.0 5.1.0 R5s050146 RP-28 RP-050281 1290 Correction to Approved RRC Package 4 TC 8.4.1.40 F 5.0.0 5.1.0 R5s050169 RP-28 RP-050281 1291 Correction of a missing LB entity in LB setup introduced in Rel-5 in the definition of CLOSE UE TEST LOOP F 5.0.0 5.1.0 R5s050168 RP-28 RP-050281 1292 Correction to approved testcase 8.2.2.4 and 8.2.4.4 F 5.0.0 5.1.0 R5s050165 RP-28 RP-050281 1293 Summary of additional regression errors in the wk17 F 5.0.0 5.1.0 R5s050163 RP-28 RP-050281 1294 Correction to approved testcase 8.2.1.9 F 5.0.0 5.1.0 R5s050163	RP-28	RP-050365	1285	-	Addition of WI-012 NAS test case 9.4.5.4.6 to NAS	В	5.0.0	5.1.0	R5s050136
RP-28 RP-050365 1287 Revision and Addition of WI-10 (P2) test cases 6.2.2.2 to IR_U ATS v5.0.0 B 5.0.0 5.1.0 R5s050173 RP-28 RP-050281 1289 Summary of regression errors for IR_U_r3_wk17. F 5.0.0 5.1.0 R5s050146 RP-28 RP-050281 1290 Correction to Approved RRC Package 4 TC 8.4.1.40 F 5.0.0 5.1.0 R5s050169 RP-28 RP-050281 1291 Correction of a missing LB entity in LB setup introduced in Rel-5 in the definition of CLOSE UE TEST LOOP F 5.0.0 5.1.0 R5s050168 RP-28 RP-050281 1292 Correction to approved testcase 8.2.2.4 and 8.2.4.4 F 5.0.0 5.1.0 R5s050165 RP-28 RP-050281 1293 Summary of additional regression errors in the wk17 F 5.0.0 5.1.0 R5s050163 RP-28 RP-050281 1294 Correction to approved testcase 8.2.1.9 F 5.0.0 5.1.0 R5s050163 RP-28 RP-050281 1295 Correction to value of periodic RA update timer IE in Attach Accept message F 5.0.0	RP-28	RP-050365	1286	-	Addition of NAS P4 test case 12.4.1.4c Proc1 to NAS	В	5.0.0	5.1.0	R5s050170
RP-28 RP-050281 1289 - Summary of regression errors for IR_U_r3_wk17. F 5.0.0 5.1.0 R5s050146 RP-28 RP-050281 1290 - Correction to Approved RRC Package 4 TC 8.4.1.40 F 5.0.0 5.1.0 R5s050169 RP-28 RP-050281 1291 - Correction of a missing LB entity in LB setup introduced in Rel-5 in the definition of CLOSE UE TEST LOOP F 5.0.0 5.1.0 R5s050168 RP-28 RP-050281 1292 - Correction to approved testcase 8.2.2.4 and 8.2.4.4 F 5.0.0 5.1.0 R5s050165 RP-28 RP-050281 1293 - Summary of additional regression errors in the wk17 ATS. F 5.0.0 5.1.0 R5s050166 RP-28 RP-050281 1294 - Correction to approved testcase 8.2.1.9 F 5.0.0 5.1.0 R5s050163 RP-28 RP-050281 1295 - Correction to Value of periodic RA update timer IE in Attach Accept message F 5.0.0 5.1.0 R5s050152 RP-28 RP-050281 1297	RP-28	RP-050365	1287	-	Revision and Addition of WI-10 (P2) test cases	В	5.0.0	5.1.0	R5s050173
RP-28 RP-050281 1290 Correction to Approved RRC Package 4 TC 8.4.1.40 F 5.0.0 5.1.0 R5s050169 RP-28 RP-050281 1291 Correction of a missing LB entity in LB setup introduced in Rel-5 in the definition of CLOSE UE TEST LOOP F 5.0.0 5.1.0 R5s050168 RP-28 RP-050281 1292 Correction to approved testcase 8.2.2.4 and 8.2.4.4 F 5.0.0 5.1.0 R5s050165 RP-28 RP-050281 1293 Summary of additional regression errors in the wk17 ATS. F 5.0.0 5.1.0 R5s050166 RP-28 RP-050281 1294 Correction to approved testcase 8.2.1.9 F 5.0.0 5.1.0 R5s050163 RP-28 RP-050281 1295 Correction to TCN to support Band II UE for UE capability Information F 5.0.0 5.1.0 R5s050167 RP-28 RP-050281 1296 Correction to value of periodic RA update timer IE in Attach Accept message F 5.0.0 5.1.0 R5s050152 RP-28 RP-050281 1297 Correction to Order of AT commands used for initiation of PS call F <td< td=""><td>RP-28</td><td>RP-050281</td><td>1289</td><td>-</td><td></td><td>F</td><td>5.0.0</td><td>5.1.0</td><td>R5s050146</td></td<>	RP-28	RP-050281	1289	-		F	5.0.0	5.1.0	R5s050146
RP-28 RP-050281 1291 Correction of a missing LB entity in LB setup introduced in Rel-5 in the definition of CLOSE UE TEST LOOP F 5.0.0 5.1.0 R5s050168 RP-28 RP-050281 1292 - Correction to approved testcase 8.2.2.4 and 8.2.4.4 F 5.0.0 5.1.0 R5s050165 RP-28 RP-050281 1293 - Summary of additional regression errors in the wk17 ATS. F 5.0.0 5.1.0 R5s050166 RP-28 RP-050281 1294 - Correction to approved testcase 8.2.1.9 F 5.0.0 5.1.0 R5s050163 RP-28 RP-050281 1295 - Correction to Support Band II UE for UE capability Information F 5.0.0 5.1.0 R5s050167 RP-28 RP-050281 1296 - Correction to Value of periodic RA update timer IE in Attach Accept message F 5.0.0 5.1.0 R5s050152 RP-28 RP-050281 1297 - Correction to Order of AT commands used for initiation of PS call F 5.0.0 5.1.0 R5s050153		RP-050281			Correction to Approved RRC Package 4 TC 8.4.1.40	F_	5.0.0	5.1.0	
RP-28 RP-050281 1292 - Correction to approved testcase 8.2.2.4 and 8.2.4.4 F 5.0.0 5.1.0 R5s050165 RP-28 RP-050281 1293 - Summary of additional regression errors in the wk17 F F 5.0.0 5.1.0 R5s050166 RP-28 RP-050281 1294 - Correction to approved testcase 8.2.1.9 F 5.0.0 5.1.0 R5s050163 RP-28 RP-050281 1295 - Correction in TTCN to support Band II UE for UE capability Information F 5.0.0 5.1.0 R5s050167 RP-28 RP-050281 1296 - Correction to value of periodic RA update timer IE in Attach Accept message F 5.0.0 5.1.0 R5s050152 RP-28 RP-050281 1297 - Correction to Order of AT commands used for initiation of PS call F 5.0.0 5.1.0 R5s050153	RP-28	RP-050281	1291	-	introduced in Rel-5 in the definition of CLOSE UE	F	5.0.0	5.1.0	R5s050168
RP-28 RP-050281 1293 - Summary of additional regression errors in the wk17 F 5.0.0 5.1.0 R5s050166 RP-28 RP-050281 1294 - Correction to approved testcase 8.2.1.9 F 5.0.0 5.1.0 R5s050163 RP-28 RP-050281 1295 - Correction in TTCN to support Band II UE for UE capability Information F 5.0.0 5.1.0 R5s050167 RP-28 RP-050281 1296 - Correction to value of periodic RA update timer IE in Attach Accept message F 5.0.0 5.1.0 R5s050152 RP-28 RP-050281 1297 - Correction to Order of AT commands used for initiation of PS call F 5.0.0 5.1.0 R5s050153	RP-28	RP-050281	1202	<u> </u>		F	500	510	R5s050165
RP-28 RP-050281 1294 - Correction to approved testcase 8.2.1.9 F 5.0.0 5.1.0 R5s050163				ľ-					
RP-28 RP-050281 1294 - Correction to approved testcase 8.2.1.9 F 5.0.0 5.1.0 R5s050163 RP-28 RP-050281 1295 - Correction in TTCN to support Band II UE for UE capability Information F 5.0.0 5.1.0 R5s050167 RP-28 RP-050281 1296 - Correction to value of periodic RA update timer IE in Attach Accept message F 5.0.0 5.1.0 R5s050152 RP-28 RP-050281 1297 - Correction to Order of AT commands used for initiation of PS call F 5.0.0 5.1.0 R5s050153		555201	1.200			[3.0.0	3	
RP-28 RP-050281 1295 Correction in TTCN to support Band II UE for UE capability Information F 5.0.0 5.1.0 R5s050167 RP-28 RP-050281 1296 - Correction to value of periodic RA update timer IE in Attach Accept message F 5.0.0 5.1.0 R5s050152 RP-28 RP-050281 1297 - Correction to Order of AT commands used for initiation of PS call F 5.0.0 5.1.0 R5s050153	RP-28	RP-050281	1294	-		F	5.0.0	5.1.0	R5s050163
RP-28 RP-050281 1296 Correction to value of periodic RA update timer IE in Attach Accept message F 5.0.0 5.1.0 R5s050152 RP-28 RP-050281 1297 Correction to Order of AT commands used for initiation of PS call F 5.0.0 5.1.0 R5s050153				-	Correction in TTCN to support Band II UE for UE	F			
RP-28 RP-050281 1297 - Correction to Order of AT commands used for F 5.0.0 5.1.0 R5s050153	RP-28	RP-050281	1296	-	Correction to value of periodic RA update timer IE in	F	5.0.0	5.1.0	R5s050152
	RP-28	RP-050281	1297	-	Correction to Order of AT commands used for	F	5.0.0	5.1.0	R5s050153
	RP-28	RP-050281	1298	<u> </u> -		F	5.0.0	5.1.0	R5s050154

Meet-	TSG doc	CR	Rev	Subject	Cat	Old vers	New vers	WG doc
RP-28	RP-050281	1299	-	Regression Error Report based on wk17ATS	F	5.0.0	5.1.0	R5s050164
RP-28	RP-050281	1300	-	Correction in TTCN to enable ciphering for 3G to 2G handover.	F	5.0.0	5.1.0	R5s050149
RP-28	RP-050281	1301	-	Correction to approved RRC testcases 8.1.3.3 and 8.1.3.4	F	5.0.0	5.1.0	R5s050148
RP-28	RP-050281	1302	-	Correction to GCF WI-10 test case 8.4.1.3	F	5.0.0	5.1.0	R5s050140
RP-28	RP-050281	1303	-	Corrections to WI-010 P3 RAB test cases 14.2.12, 14.2.16 & 14.2.17	F	5.0.0	5.1.0	R5s050127
RP-28	RP-050281	1304	-	Correction required for WI-010 P3 RAB Testcase 14.2.38c.	F	5.0.0	5.1.0	R5s050124
RP-28	RP-050281	1305	-	Correction to GCF Package 3 RRC test case 8.3.1.24	F	5.0.0	5.1.0	R5s050123
RP-28	RP-050281	1306	-	Summary of additional regression errors in the wk09 ATS.	F	5.0.0	5.1.0	R5s050116
RP-28	RP-050281	1307	-	Correction to approved RRC Package 4 TC 8.3.1.18	F	5.0.0	5.1.0	R5s050117
RP-28	RP-050281	1308	-	Correction to WI-12 Test Case 8.3.7.16	F	5.0.0	5.1.0	R5s050115
RP-28	RP-050282	1309	-	Correction to RRC P3 TC 8.3.2.13	F	5.0.0	5.1.0	R5s050113
RP-28	RP-050282	1310	-	Regression Error Report based on wk09 ATS	F	5.0.0	5.1.0	R5s050114
RP-28	RP-050282	1311	-	Summary of regression errors for IR_U_wk09.	F	5.0.0	5.1.0	R5s050110
RP-28	RP-050282	1312	-	Correction to RRC P2 TC 8.3.1.21	F	5.0.0	5.1.0	R5s050111
RP-28	RP-050282	1313	-	Correction to Approved NAS Package 4 TC 12.4.1.4a	F	5.0.0	5.1.0	R5s050109
RP-28	RP-050283	1314	-	Summary of regression errors in the wk09 ATS.	F	5.0.0	5.1.0	R5s050106
RP-28	RP-050282	1315	-	Correction for the MM test step "ts_GMM_RAU_AcceptEPLMN"	F	5.0.0	5.1.0	R5s050105
RP-28	RP-050282	1316	-	Correction to SMS Test Suite for AT Commands	F	5.0.0	5.1.0	R5s050104
RP-28	RP-050282	1317	-	Changes required to support Release 5	F	5.0.0	5.1.0	R5s050095
RP-28	RP-050282	1318	-	Correction to approved package WI-12 NAS Test case 9_5_7_2	F	5.0.0	5.1.0	R5s050103
RP-28	RP-050283	1319	-	Correction to approved testcase 8.1.10.1	F	5.0.0	5.1.0	R5s050102
RP-28	RP-050282	1320	-	Handling of L2 Acknowledgement on GERAN side.	F	5.0.0	5.1.0	R5s050094
RP-28	RP-050282	1321	-	Correction to Approved RRC Package 4 TC 8.3.1.18	F	5.0.0	5.1.0	R5s050093
RP-28	RP-050282	1322	-	Correction to IR_U P4 Approved test case 8.3.11.4	F	5.0.0	5.1.0	R5s050091
RP-28	RP-050282	1323	 	Summary of iWD_07 regression test errors	F	5.0.0	5.1.0	R5s050078
RP-28	RP-050282	1324	-	Corrections to section 16 SMS test cases to improve AT command handling	F	5.0.0	5.1.0	R5s050090
RP-28	RP-050282	1325	-	Correction to approved GCF P4 test cases 8.1.7.1c	F	5.0.0	5.1.0	R5s050086
RP-28	RP-050282	1326	-	Summary of regression errors in the wk07 ATS.	F	5.0.0	5.1.0	R5s050088
RP-28	RP-050282	1327	-		F	5.0.0	5.1.0	R5s050083
RP-28	RP-050282	1328	-	Correction to approved GCF P4 test cases 8.1.7.1d	F	5.0.0	5.1.0	R5s050087
RP-28	RP-050282	1329	-	Correction to approved package 2 NAS Test case 9 5 2	F	5.0.0	5.1.0	R5s050082
RP-28	RP-050282	1330	-	Correction to RRC P1 TC 8.4.1.1, 8.4.1.3 and P3 TC 8.4.1.29	F	5.0.0	5.1.0	R5s050065
RP-28	RP-050365	1331	-	Revision of RRC WI-14 test case 8.2.3.30 to RRC ATS v5.0.0	В	5.0.0	5.1.0	R5s050179
RP-28	RP-050365	1332	-	Addition of RRC WI-014 test case 8.2.4.36 to RRC ATS V5.0.0 (Revision of R5s050161)	В	5.0.0	5.1.0	R5s050199
RP-28	RP-050366	1333	1	Add new verified and e-mail approved TTCN test cases in the TC lists in 34.123-3 (prose), Annex A	F	5.0.0	5.1.0	-
RP-28	RP-050278	1334	-	Correction to specification version references	F	5.0.0	5.1.0	R5-050639
RP-29	RP-050527	1334	-	Addition of WI-10 NAS test case 12.4.2.4 to NAS ATS V5.1.0	В	5.1.0	5.2.0	R5s050295
RP-28	RP-050278	1335	-	Modifying AT Commands, ASPs, TSOs and PIXITs	F	5.0.0	5.1.0	R5-050955
RP-29	RP-050527	1335	-	Addition of WI12 test case 8.2.1.24 to RRC ATS V5.1.0	В	5.1.0	5.2.0	R5s050259
RP-28	RP-050278	1336	-	HSDPA ASP Modification	F	5.0.0	5.1.0	R5-050975
RP-29	RP-050527	1336	-	Addition of WI12 test case 8.2.1.34 to RRC ATS V5.1.0	В	5.1.0	5.2.0	R5s050261
RP-28	RP-050278	1337	<u> </u>	Modifying G_L2_SYSINFO_REQ ASP	F	5.0.0	5.1.0	R5-050980
RP-29	RP-050527	1337	<u> </u>	Addition of RRC WI-012 test case 8.2.1.33 to RRC	В	5.1.0	5.2.0	R5s050242
RP-28	RP-050327			ATS V5.1.0 CR to 34.123-3 Rel-5: Addition of a new ASP required		5.0.0		
		1338	_	for test case tc_8_1_7_1d			5.1.0	R5-050983
RP-29	RP-050527	1338	<u> </u>	Addition of NAS WI-012 test case 12.2.1.11 to NAS ATS V5.0.0	В	5.1.0	5.2.0	R5s050236
RP-29	RP-050527	1339	-	Addition of WI-10 RRC test case 8.4.1.14 to RRC ATS V5.0.0	В	5.1.0	5.2.0	R5s050228
RP-29	RP-050527	1340	-	Addition of RRC WI-14 test case 8.2.6.42 to RRC ATS v5.0.0	В	5.1.0	5.2.0	R5s050225
RP-29	RP-050527	1341	-	Addition of WI-010 (P4) test case 8.3.9.3 to IR_U ATS V5.0.0		5.1.0	5.2.0	R5s050219
RP-29	RP-050527	1342	<u> -</u>	Addition of RRC WI-010 (P2) test case 8.2.4.1 to	В	5.1.0	5.2.0	R5s050210

Meet- ing	TSG doc	CR	Rev	Subject	Cat	Old vers	New vers	WG doc
				RRC ATS V5.0.0				
RP-29	RP-050527	1343	-	Addition of RRC WI-014 test case 8.3.1.32 to RRC ATS V5.0.0	В	5.1.0	5.2.0	R5s050217
RP-29	RP-050527	1344	-	Addition of RRC WI-014 test case 8.2.1.28 to RRC ATS V5.0.0	В	5.1.0	5.2.0	R5s050212
RP-29	RP-050527	1345	-	Addition of RRC WI-14 test case 8.2.1.32 to RRC ATS v5.0.0	В	5.1.0	5.2.0	R5s050206
RP-29	RP-050527	1346	-	Addition of RRC WI-14 test case 8.2.1.31 to RRC ATS v5.0.0	В	5.1.0	5.2.0	R5s050204
RP-29	RP-050527	1347	-	Addition of RRC WI-014 test case 8.2.2.38 to RRC ATS V5.0.0 (Revision of R5s050157)	В	5.1.0	5.2.0	R5s050197
RP-29	RP-050527	1348	-	Addition of WI-010 RRC test case 6.1.2.1 to RRC	В	5.1.0	5.2.0	R5s050189
RP-29	RP-050527	1349	-	ATS V5.0.0 Addition of RRC WI-14 test case 8.2.1.30 to RRC	В	5.1.0	5.2.0	R5s050184
RP-29	RP-050527	1350	-	ATS v5.0.0 Addition of RRC WI-10 test case 8.3.1.23 to RRC	В	5.1.0	5.2.0	R5s050175
RP-29	RP-050527	1351	-	ATS V5.0.0 Addition of RRC WI-14 test case 8.2.1.29 to RRC	В	5.1.0	5.2.0	R5s050182
RP-29	RP-050527	1352	-	ATS v5.0.0 Addition of WI-014 test case 8.3.1.34 to HS_ENH	В	5.1.0	5.2.0	R5s050347
RP-29	RP-050527	1353	-	ATS V5.1.0 Addition of WI14 test case 8.3.1.35 to HS_ENH ATS	В	5.1.0	5.2.0	R5s050321
RP-29	RP-050528	1354	-	V5.1.0 Addition of WI14 test case 8.2.6.40 to HS ENH ATS	В	5.1.0	5.2.0	R5s050323
RP-29	RP-050528	1355	_	V5.1.0 Addition of WI-014 MAC test case 7.1.5.4 to	В	5.1.0	5.2.0	R5s050318
RP-29	RP-050528	1356		HS_ENH ATS V5.1.0 Addition of WI14 test case 7.1.5.3 to HS_ENH ATS	В	5.1.0	5.2.0	R5s050315
				V5.1.0				
RP-29	RP-050528	1357	-	Revision (of R5s0500248) to introduce test case 8_2_2_40 based on wk31 ATS	В	5.1.0	5.2.0	R5s050339
RP-29	RP-050528	1358	-	Revision (of R5s050253) to introduce test case 8_3_1_33 based on wk31 ATS	В	5.1.0	5.2.0	R5s050341
RP-29	RP-050528	1359	-	Revision (of R5s050250) to introduce test case 14_6_1 based on wk31 ATS	В	5.1.0	5.2.0	R5s050345
RP-29	RP-050528	1360	-	Addition of WI14 test case 7.1.5.5 to HS_ENH ATS V5.1.0 (Revision of R5s050276)	В	5.1.0	5.2.0	R5s050313
RP-29	RP-050528	1361	-	Addition of WI14 test case 7.1.5.1 to HS_ENH ATS V5.1.0 (Revision of R5s050257)	В	5.1.0	5.2.0	R5s050311
RP-29	RP-050528	1362	-	Addition of WI-014 test case 8.2.1.27 to HS_ENH ATS V5.1.0 (Revision of CR R5s050263)	В	5.1.0	5.2.0	R5s050307
RP-29	RP-050528	1363	-	Addition of WI-014 test case 8.2.6.49 to HS_ENH ATS V5.1.0 (Revision of R5s050265)	В	5.1.0	5.2.0	R5s050309
RP-29	RP-050528	1364	-	Re-submission of WI-014 test case 8.3.11.9 to	В	5.1.0	5.2.0	R5s050349
RP-29	RP-050528	1365	-	Addition of WI-014 test case 8.2.2.36 to HS_ENH	В	5.1.0	5.2.0	R5s050360
RP-29	RP-050529	1366	-	ATS V5.1.0 (Revision of CR R5s050267) Correction required in HSDPA constraint	F	5.1.0	5.2.0	R5s050351
RP-29	RP-050529	1367	-	cbr_108_RRC_ConnReq_r5 Correction to approved WI-010 MM Test Cases	F	5.1.0	5.2.0	R5s050337
RP-29	RP-050529	1368	-	9_4_2_2_1 and 9_4_2_2_2 Corrections to test step ts_C4_CheckCellPCH and	F	5.1.0	5.2.0	R5s050326
RP-29	RP-050529	1369	-	ts_C4_CheckCellPCH_r5 Correction to GCF P1(WI-10) approved RRC test	F	5.1.0	5.2.0	R5s050320
RP-29	RP-050529	1370	-	case 8.1.1.2 Correction required in HSDPA step	F	5.1.0	5.2.0	R5s050317
RP-29	RP-050529	1371		ts_RRC_RAB_EstPS_MO_P25 Upgrade HSENH ATS to full R5	F	5.1.0	5.2.0	R5s050294
RP-29	RP-050529	1372	E	Correction to GCF approved RRC test case 8.3.1.18	F	5.1.0	5.2.0	R5s050293
RP-29	RP-050529	1373	ŧ –	Correction to GCF approved RRC test case 8.3.1.18 Correction asn.1 calculated values.	F	5.1.0	5.2.0	R5s050293
RP-29	RP-050529	1374	Ē	Corrections to teststep ts_C5_CheckURA_PCH	F	5.1.0	5.2.0	R5s050255
RP-29	RP-050529	1374	Ē	Corrections to teststep is_C5_Checkora_PCh Correction to approved testcases 8.3.1.5 and 8.3.1.6	F	5.1.0	5.2.0	R5s050287
RP-29	RP-050529	1376	Ė	Correction to approved testcases 6.3.1.3 and 6.3.1.6 Correction to Inter-RAT Test cases	F	5.1.0	5.2.0	R5s050287
RP-29	RP-050529	1377	Ŀ	Correction to the SMS Test Case 16.1.10 and 16.2.10		5.1.0	5.2.0	R5s050200
RP-29	RP-050529	1378	<u> </u>	Summary of regression errors in the wk27 ATS.	F	5.1.0	5.2.0	R5s050291
RP-29	RP-050529	1379	ŧ –	Correction to test step ts_CRLC_DL_CipherCfgRB	F	5.1.0	5.2.0	R5s050292
RP-29	RP-050529	1380	<u> </u>	Correction to GCF WI-12 approved NAS test case	F	5.1.0	5.2.0	R5s050290
				9.4.5.4.6				
RP-29	RP-050529	1381	-	Correction to GCF WI-10 approved IR_U test case 8.4.1.31	F	5.1.0	5.2.0	R5s050289
RP-29	RP-050529	1382		Corrections to Approved WI10 test case 9.4.5.2	F	5.1.0	5.2.0	R5s050282
RP-29	RP-050529	1383	<u> -</u>	Correction to GCF WI-10 test case 8.4.1.5	F	5.1.0	5.2.0	R5s050234

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RP-29	RP-050529	1384	-	Correction to the RRC test case 8.4.1.14	F	5.1.0	5.2.0	R5s050278
RP-29	RP-050529	1385	-	Corrections to teststep ts_HO_SS_ReconfDCH_HS_ToFACH used for WI- 14 Test Cases	F	5.1.0	5.2.0	R5s050279
RP-29	RP-050530	1386	-	Correction to 8_1_x series approved testcases	F	5.1.0	5.2.0	R5s050271
RP-29	RP-050530	1387	1	Correction to test step ts_RRC_ReceiveRB_SetupCmpl to handle IE 'Start' for the ciphering path	F	5.1.0	5.2.0	R5s050272
RP-29	RP-050530	1388	-	Correction to approved Inter-RAT IR_U testcase 8.3.7.13	F	5.1.0	5.2.0	R5s050273
RP-29	RP-050530	1389	-	Correction to approved testcase 8.2.4.1	F	5.1.0	5.2.0	R5s050274
RP-29	RP-050530	1390	-	Correction required for WI-010 P4 RRC Testcase 6.1.2.9.	F	5.1.0	5.2.0	R5s050275
RP-29	RP-050530	1391	-	Correction to GCF WI-12 approved RRC test case 8.3.1.30, 8.4.1.6 and NAS test case 12.3.2.7	F	5.1.0	5.2.0	R5s050270
RP-29	RP-050530	1392	-	Correction to Approved RRC Package 4 TC 8.4.1.33	F	5.1.0	5.2.0	R5s050269
RP-29	RP-050530	1393	-	Guard timer setting needs to be longer in test case 9.4.2.4 Procedure 2.	F	5.1.0	5.2.0	R5s050252
RP-29	RP-050530	1394	-	Corrections to WI-012 approved testcases 8.2.2.9 & 8.2.6.12	F	5.1.0	5.2.0	R5s050246
RP-29	RP-050530	1395	-	Corrections to WI-014 approved testcases 8.2.1.28, 8.2.4.36 & 8.2.1.30	F	5.1.0	5.2.0	R5s050247
RP-29	RP-050530	1396	-	Correction in Approved Test Case 12.2.2.1 of NAS_wk07.mp in iWD-TVB2003-03_D05wk07.zip	F	5.1.0	5.2.0	R5s050245
RP-29	RP-050530	1397	-	Correction to GCF WI-12 approved RRC test case 8.1.6.3	F	5.1.0	5.2.0	R5s050233
RP-29	RP-050530	1398	-	Multiple PICs definitions	F	5.1.0	5.2.0	R5s050241
RP-29	RP-050530	1399	-	ASN.1 changes required for introduction of band V & band VI	F	5.1.0	5.2.0	R5s050215
RP-29	RP-050530	1400	-	Summary of regression errors in the wk21 IR_U and IR_G ATS.	F	5.1.0	5.2.0	R5s050240
RP-29	RP-050530	1401	-	Correction to GCF WI-10 and WI-12 IR_U and IR_G test cases	F	5.1.0	5.2.0	R5s050239
RP-29	RP-050530	1402	-	Correction to IdleMode P1 TC 6.1.2.1	F	5.1.0	5.2.0	R5s050238
RP-29	RP-050530	1403	-	Summary of regression errors in the wk21 IR_U ATS.	F	5.1.0	5.2.0	R5s050230
RP-29	RP-050530	1404	-	Correction to GCF WI-10 test case 8.3.1.1	F	5.1.0	5.2.0	R5s050224
RP-29	RP-050530	1405	-	Correction to approved WI-010 RRC Test case 6_1_2_1	F	5.1.0	5.2.0	R5s050221
RP-29	RP-050531	1406	-	Correction to approved WI-010 RRC Test case 6_1_2_9	F	5.1.0	5.2.0	R5s050227
RP-29	RP-050531	1407	-	Correction to GCF WI-10 test case 8.2.1.10, 8.3.4.1, 8.3.4.2, 12.4.2.5a Proc 2	F	5.1.0	5.2.0	R5s050144
RP-29	RP-050531	1408	-	Correction to WI 12 approved testcase 8.3.1.30	F	5.1.0	5.2.0	R5s050222
RP-29	RP-050531	1409	-	Correction to approved testcase 8.2.6.19 and 8.2.6.20	F	5.1.0	5.2.0	R5s050223
RP-29	RP-050531	1410	-	Correction to GCF high priority MAC test case 7.1.2.4a	F	5.1.0	5.2.0	R5s050214
RP-29	RP-050531	1411	-	Correction to approved testcase 14.2.51b.1	F	5.1.0	5.2.0	R5s050209
RP-29	RP-050531	1412	-	Correction to approved testcase 8.3.7.12	F	5.1.0	5.2.0	R5s050203
RP-29	RP-050531	1413	-	Correction to GCF high priority NAS test case 12.4.1.4b	F	5.1.0	5.2.0	R5s050181
RP-29	RP-050531	1414	-	Regression Error Report based on wk19ATS	F	5.1.0	5.2.0	R5s050202
RP-29	RP-050531	1415	<u> -</u>	Summary of regression errors in the wk19 ATS.	F	5.1.0	5.2.0	R5s050196
RP-29	RP-050531	1416	-	Correction to approved testcase 14.2.58	F	5.1.0	5.2.0	R5s050194
RP-29	RP-050531	1417	-	Correction to WI-12 test case 12.9.7a	F	5.1.0	5.2.0	R5s050195
RP-29 RP-29	RP-050531 RP-050531	1418 1419	-	Summary of regression errors in the wk19 ATS. Correction to IE 'radioPrioTOM8' in Attach Accept	F F	5.1.0 5.1.0	5.2.0 5.2.0	R5s050186 R5s050193
RP-29	RP-050531	1420	-	message. Correction to softhandover test cases in RRC ATS	F	5.1.0	5.2.0	R5s050191
RP-29	RP-050531	1421	-	V5.0.0 Correction to RRC and RAB ATS v5.0.0 – regression	F	5.1.0	5.2.0	R5s050192
DD 20	DD 050504	1400	-	Correction of syntax arrar in approved test again	F	E 1 0	E 0 0	DE0050470
RP-29 RP-29	RP-050531 RP-050531	1422 1423	-	Correction of syntax error in approved test cases Correction to the approved IR_U test cases 8.4.1.33,	F	5.1.0 5.1.0	5.2.0 5.2.0	R5s050178 R5s050187
				8.4.1.34, 8.4.1.35, 8.4.1.36 and 8.4.1.40.				
RP-29	RP-050531	1424	-	Correction to RRC Package 2 TC 8.4.1.23	F	5.1.0	5.2.0	R5s050188
RP-29 RP-29	RP-050531 RP-050532	1425 1426	-	Correction to RRC P4 TC 8.4.1.41 Correction to approved testcase 14.2.38c and 14.2.40	-	5.1.0 5.1.0	5.2.0 5.2.0	R5s050172 R5s050177
RP-29	RP-050532	1426	[Summary of regression errors in the wk31 ATS.	F	5.1.0	5.2.0	R5s050177
RP-29	RP-050532	1428	-	Corrections to Approved Test case 8_2_1_29 based on wk31 ATS		5.1.0	5.2.0	R5s050354 R5s050327
RP-29	RP-050532	1429	<u> </u>	Corrections to Approved test case 8_2_1_30 based	F	5.1.0	5.2.0	R5s050329

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RP-29	RP-050532	1430	-	Corrections to Approved test case 8_2_1_31 based on wk31 ATS	F	5.1.0	5.2.0	R5s050331
RP-29	RP-050532	1431	-	Corrections to Approved test case 8_2_1_32 based on wk31 ATS	F	5.1.0	5.2.0	R5s050333
RP-29	RP-050532	1432	-	Corrections to Approved test case 8_2_6_42 based on wk31 ATS	F	5.1.0	5.2.0	R5s050335
RP-29	RP-050532	1433	-	Corrections to Approved test case 8_2_3_30 based on wk31 ATS	F	5.1.0	5.2.0	R5s050343
RP-29	RP-050532	1434	-	Corrections to Approved Testcase 8_2_1_28 based on wk31 ATS	F	5.1.0	5.2.0	R5s050297
RP-29	RP-050532	1435	-	Corrections to Approved Testcase 8_2_2_38 based on wk31 ATS	F	5.1.0	5.2.0	R5s050299
RP-29	RP-050532	1436	-	Corrections to Approved Testcase 8_2_3_30 based on wk31 ATS	F	5.1.0	5.2.0	R5s050301
RP-29	RP-050532	1437	-	Corrections to Approved Testcase 8_2_4_36 based on wk31 ATS	F	5.1.0	5.2.0	R5s050303
RP-29	RP-050532	1438	-	Corrections to Approved Testcase 8_3_1_32 based on wk31 ATS	F	5.1.0	5.2.0	R5s050305
RP-29	RP-050562	1439	-	Add new verified and e-mail agreed TTCN test cases in the TC lists in 34.123-3 (prose), Annex A.	F	5.1.0	5.2.0	-
RP-29	RP-050526	1440	-	Clarifying L2 Tests - Update TSOs and PIXITs – New configurations for WI-13/14 TCs	F	5.1.0	5.2.0	R5-051510
RP-30	RP-050713	1441	-	CR to 34.123-3: Add new verified and e-mail agreed TTCN test cases in the TC lists in 34.123-3 (prose), Annex A	F	5.2.0	5.3.0	-
RP-30	RP-050766	1442	-	Addition of GCF WI-015 AGPS test case 17.2.4.7 to AGPS ATS V5.2.0	В	5.2.0	5.3.0	R5s050480
RP-30	RP-050766	1443	-	Addition of GCF WI-015 AGPS test case 17.2.4.6 to AGPS ATS V5.2.0	В	5.2.0	5.3.0	R5s050478
RP-30	RP-050766	1444	-	Addition of GCF WI-015 AGPS test case 17.2.4.10 to AGPS ATS V5.2.0	В	5.2.0	5.3.0	R5s050476
RP-30	RP-050766	1445	-	Addition of GCF WI-015 AGPS test case 17.2.4.3 to RLC ATS V5.1.0	В	5.2.0	5.3.0	R5s050419
RP-30	RP-050766	1446	-	Addition of GCF WI-015 AGPS test case 17.2.4.1 to RLC ATS V5.1.0	В	5.2.0	5.3.0	R5s050410
RP-30	RP-050768	1447	-	Addition of GCF WI-14/2 test case 8.2.3.32 to HS_ENH ATS V5.2.0 (Revision of R5s050451)	В	5.2.0	5.3.0	R5s050495
RP-30	RP-050768	1448	-	Addition of GCF WI-14/2 test case 8.2.3.34 to HS_ENH ATS V5.2.0	В	5.2.0	5.3.0	R5s050449
RP-30	RP-050768	1449	-	Addition of GCF WI-014 test case 8.2.2.41 to HS_ENH ATS V5.2.0 (Revision of R5s050455)	В	5.2.0	5.3.0	R5s050466
RP-30	RP-050768	1450	-	Addition of GCF WI-014 RAB test case 14.6.3a to HS_ENH ATS V5.2.0	В	5.2.0	5.3.0	R5s050464
RP-30	RP-050768	1451	-	Addition of GCF WI-014 RAB test case 14.6.3 to HS_ENH ATS V5.2.0	В	5.2.0	5.3.0	R5s050462
RP-30	RP-050768	1452	-	Addition of GCF WI-014 test case 8.3.4.9 to HS_ENH ATS V5.2.0	В	5.2.0	5.3.0	R5s050457
RP-30	RP-050768	1453	-	Addition of GCF WI-014 test case 8.2.3.31 to HS_ENH ATS V5.2.0	В	5.2.0	5.3.0	R5s050444
RP-30	RP-050768	1454	-	Addition of GCF WI-014 RAB test case 14.6.2 to HS_ENH ATS V5.1.0	В	5.2.0	5.3.0	R5s050424
RP-30 RP-30	RP-050768	1455	-	Additional Changes to GCF WI-014 test case 8.3.1.37 Addition of GCF WI-014 test case 8.3.11.10 to RRC		5.2.0 5.2.0	5.3.0 5.3.0	R5s050421
RP-30	RP-050768 RP-050768	1456		ATS V5.1.0 Addition of GCF WI-014 test case 8.2.3.35 to	В	5.2.0		R5s050412
		1457	_	HS_ENH ATS V5.1.0			5.3.0	R5s050407
RP-30	RP-050768	1458	-	Addition of GCF WI-14/2 test case 8.2.6.46 to HS_ENH ATS V5.1.0	В	5.2.0	5.3.0	R5s050405
RP-30	RP-050768	1459	-	Addition of GCF WI-14/2 test case 8.2.6.41 to HS_ENH ATS V5.1.0	В	5.2.0	5.3.0	R5s050403
RP-30	RP-050768	1460	-	Addition of GCF WI-14/2 test case 8.3.1.36 to HS_ENH ATS V5.1.0	В	5.2.0	5.3.0	R5s050385
RP-30	RP-050768	1461	-	ATS v5.1.0	В	5.2.0	5.3.0	R5s050379
RP-30	RP-050775	1462	-	Addition of BMC GCF WI-10/3 test case 14.4.4 to RAB ATS V5.1.0	В	5.2.0	5.3.0	R5s050401
RP-30	RP-050775	1463	-	Revision of R5s050442 - Addition of GCF WI-10 Idle Mode Test Case 6.1.1.4 to RRC ATS 5.2.0	В	5.2.0	5.3.0	R5s050453
RP-30	RP-050775	1464	-	ATS V5.1.0	В	5.2.0	5.3.0	R5s050416
RP-30	RP-050775	1465	-	Addition of Cell Broadcast GCF WI-12 test case 16.3 to SMS ATS V5.1.0	В	5.2.0	5.3.0	R5s050399

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RP-30	RP-050775	1466	-	Addition of NAS GCF WI-10 P4 test case 12.9.12 to NAS ATS V5.1.0	В	5.2.0	5.3.0	R5s050395
RP-30	RP-050775	1467	-	Addition of NAS GCF WI-12 test case 9.4.2.4 proc 4 to NAS ATS V5.1.0	В	5.2.0	5.3.0	R5s050231
RP-30	RP-050778	1468	-	Addition of GCF WI-013 RRC test case 8.1.2.15 to HS ENH ATS V5.2.0	В	5.2.0	5.3.0	R5s050473
RP-30	RP-050778	1469	-	Addition of GCF WI-013 RRC test case 8.1.2.14 to HS_ENH ATS V5.2.0	В	5.2.0	5.3.0	R5s050471
RP-30	RP-050778	1470	-	Addition of GCF WI-013 test case 8.3.11.13 to HS_ENH_r5 ATS V5.2.0.	В	5.2.0	5.3.0	R5s050437
RP-30	RP-050778	1471	-	Addition of GCF WI-13 RRC test case 8.1.6.5 to HS ENH ATS V5.2.0	В	5.2.0	5.3.0	R5s050497
RP-30	RP-050778	1472	-	Addition of GCF WI-013 RRC test case 8.3.1.40 to HS_ENH ATS V5.2.0	В	5.2.0	5.3.0	R5s050500
RP-30	RP-050768	1473	=	Removal of use of deprecated alternative value in RRC Connection Release message (Cell DCH) in HS_ENH suite	F	5.2.0	5.3.0	R5s050487
RP-30	RP-050768	1474	=	Removal of use of deprecated alternative value in RRC Connection Setup message (Cell FACH) in HS ENH suite	F	5.2.0	5.3.0	R5s050489
RP-30	RP-050768	1475	-	Correction to GCF WI-14/2 HSDPA RRC test case 8.3.1.37	F	5.2.0	5.3.0	R5s050492
RP-30	RP-050768	1476	-	Additional changes required for addition of GCF WI- 014 test case 8.3.11.10 to RRC ATS V5.2.0.	F	5.2.0	5.3.0	R5s050460
RP-30	RP-050768	1477	-	Correction to GCF WI-14/2 testcase 8.3.1.36	F	5.2.0	5.3.0	R5s050439
RP-30	RP-050768	1478	-	Corrections to GCF WI-014/1 test cases 8.3.1.34	F	5.2.0	5.3.0	R5s050427
RP-30	RP-050768	1479	-	Correction to RRC HSDPA testcase 8.2.2.40	F	5.2.0	5.3.0	R5s050431
RP-30	RP-050773	1480	-	Removal of use of deprecated alternative value in RRC Connection Release message (Cell DCH) in all GCF WI-10 and WI-12 test suites	F	5.2.0	5.3.0	R5s050488
RP-30	RP-050773	1481	1-	Correction to GCF WI-12 RRC test case 8.4.1.6	F	5.2.0	5.3.0	R5s050486
RP-30	RP-050773	1482	-	Corrections to RLC test cases to add check for the PIXIT px_CipheringOnOff	F	5.2.0	5.3.0	R5s050485
RP-30	RP-050773	1483	-	Removal of use of deprecated alternative value in RRC Connection Setup message (Cell FACH) in all GCF WI-10 and WI-12 test suites	F	5.2.0	5.3.0	R5s050490
RP-30	RP-050773	1484	-	Correction to the GCF WI-10 NAS test case 12.2.1.2	F	5.2.0	5.3.0	R5s050491
RP-30	RP-050773	1485	-	Correction to GCF WI-10 MAC test case 7.1.2.3.1	F	5.2.0	5.3.0	R5s050494
RP-30	RP-050773	1486	-	Correction to GCF WI-10 Idle Mode Test Case 6.1.2.1	F	5.2.0	5.3.0	R5s050469
RP-30	RP-050773	1487	-	Corrections required to GCF WI-10 approved test case 8.3.1.18	F	5.2.0	5.3.0	R5s050448
RP-30	RP-050773	1488	-	Corrections required to GCF WI-14 approved HSDPA test cases		5.2.0	5.3.0	R5s050435
RP-30	RP-050773	1489	-	TTCN correction to RRC TC 8.2.4.1	F	5.2.0	5.3.0	R5s050436
RP-30	RP-050773	1490	-	Corrections required to GCF W-I10 approved test case 8.4.1.40	F	5.2.0	5.3.0	R5s050434
RP-30	RP-050773	1491	-	Correction to the NAS Test Case 12.9.7a	F	5.2.0	5.3.0	R5s050429
RP-30	RP-050773	1492	-	Correction to the IR_U Test Case 8.3.7.3	F	5.2.0	5.3.0	R5s050430
RP-30	RP-050773	1493	-	Correction to MultiRAB Test Cases	F	5.2.0	5.3.0	R5s050432
RP-30	RP-050773	1494	-	Correction to GCF WI-10/2 RRC test case 8.3.1.21	F	5.2.0	5.3.0	R5s050426
RP-30	RP-050773	1495	 	Summary of regression errors in the wk38 ATS	F	5.2.0	5.3.0	R5s050428
RP-30	RP-050773	1496	-	Summary of regression errors in wk38 of RRC ATS	F	5.2.0	5.3.0	R5s050414
RP-30	RP-050773	1497	-	Correction in TTCN for test case 7.2.3.19	F	5.2.0	5.3.0	R5s050415
RP-30 RP-30	RP-050773 RP-050773	1498 1499	-	Regression Error report based on wk36 ATS Summary of regression results for wk36 version of IR_U ATS V5.1.0	F F	5.2.0 5.2.0	5.3.0 5.3.0	R5s050409 R5s050384
RP-30	RP-050774	1500	-	Corrections required to GCF WI-10 approved test cases 6.2.1.7 and 6.2.1.8	F	5.2.0	5.3.0	R5s050394
RP-30	RP-050774	1501	-	Corrections required to GCF WI-10 approved test cases 8.3.7.5, 8.3.7.7 and 8.3.7.12	F	5.2.0	5.3.0	R5s050397
RP-30	RP-050774	1502	-	Correction to teststep ts_RRC_NAS_SessionActPS_MO_DCH_ToFACH.	F	5.2.0	5.3.0	R5s050390
RP-30	RP-050774	1503	-	Correction to GCF WI-10/4 RRC test case 8.1.3.9	F	5.2.0	5.3.0	R5s050378
RP-30	RP-050774	1504	-	Summary of regression errors in the wk36 ATS	F	5.2.0	5.3.0	R5s050391
RP-30	RP-050774	1505		Summary of regression errors in the wk36 IR_U ATS.	F	5.2.0	5.3.0	R5s050392
RP-30	RP-050774	1506	Ŀ	Correction to HS_ENH_wk36 – Regression errors	F	5.2.0	5.3.0	R5s050389
RP-30	RP-050774	1507	<u> - </u>	Correction to GCF WI-12 RRC test case 8.4.1.6	F	5.2.0	5.3.0	R5s050376
RP-30	RP-050774	1508	<u> - </u>	Correction to Inter-RAT IR_U test case 8.3.11.4	F	5.2.0	5.3.0	R5s050377
RP-30	RP-050774	1509		Correction to generic procedure C.1 (Idle mode check)	F	5.2.0	5.3.0	R5s050375
RP-30	RP-050774	1510	-	Summary of regression errors in the wk31 ATS	F	5.2.0	5.3.0	R5s050367
RP-30	RP-050774	1511	<u> -</u>	Correction to the test case 14.2.43.1	F	5.2.0	5.3.0	R5s050368

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RP-30	RP-050774	1512	-	Correction to the NAS Test Case 12.9.13	F	5.2.0	5.3.0	R5s050374
RP-30	RP-050774	1513	-	Correction to all approved Test Cases using ciphering	F	5.2.0	5.3.0	R5s050373
RP-30	RP-050774	1514	-	Corrections required for approved GCF WI-10 RRC test cases 8.3.1.21 and 8.3.2.11	F	5.2.0	5.3.0	R5s050369
RP-30	RP-050774	1515	-	Corrections required for approved GCF WI-10 NAS test cases 9.4.2.3 and 9.4.2.5	F	5.2.0	5.3.0	R5s050370
RP-30	RP-050774	1516	-	Summary of regression errors in the wk31 ATS Batch 2.	F	5.2.0	5.3.0	R5s050372
RP-30	RP-050774	1517	-	Correction to GCF WI-010 test case 6.1.2.1 for manual attach UE	F	5.2.0	5.3.0	R5s050366
RP-30	RP-050774	1518	-	Correction to agreed testcase 8.2.6.8	F	5.2.0	5.3.0	R5s050357
RP-30	RP-050774	1519	-	Correction to agreed IR_U_wk31 MRAT testcases 8.3.9.1 and 8.3.9.5	F	5.2.0	5.3.0	R5s050358
RP-30	RP-050775	1520	-	Correction to P1 NAS Test Case 11.3.1 for AT command confirmation	F	5.2.0	5.3.0	R5s050359
RP-30	RP-050775	1521	-	Correction of the NAS Test Case 12.9.14	F	5.2.0	5.3.0	R5s050362
RP-30	RP-050775	1522	-	Correction to the test step ts_RRC_ReceiveRB_RelCmpl	F	5.2.0	5.3.0	R5s050363
RP-30	RP-050775	1523	-	Corrections required for QOS constraint in R99 ATS	F	5.2.0	5.3.0	R5s050364
RP-30	RP-050775	1524	-	Corrections required for QOS constraint in HSDPA/Rel-5 enhancement ATS	F	5.2.0	5.3.0	R5s050365
RP-30	RP-050775	1525	-	Summary of regression errors in the wk42 ATS.	F	5.2.0	5.3.0	R5s050499
RP-30	RP-050775	1526	-	Correction to Approved RRC TC 8.3.11.1 Update PIXIT and TSO, clarifications of a TSO and	F F	5.2.0	5.3.0	R5s050459 R5-052110
RP-30	RP-050769	1527	-	an AT / MMI commands in 34.123-3	-	5.2.0	5.3.0	
RP-30	RP-050775	1528	-	Correction to iWD_wk38 IR_U ATS	F	5.2.0	5.3.0	R5s050470
RP-31	RP-060158	1529	-	Addition of GCF WI-015 AGPS test case 17.2.2.1 to AGPS ATS V5.2.0	В	5.3.0	5.4.0	R5s050561
RP-31	RP-060158	1530	-	Addition of GCF WI-015 AGPS test case 17.2.2.2 to AGPS ATS V5.2.0	В	5.3.0	5.4.0	R5s050563
RP-31	RP-060158	1531	-	Addition of GCF WI-015 AGPS test case 17.2.2.3 to AGPS ATS V5.2.0	В	5.3.0	5.4.0	R5s050565
RP-31	RP-060158	1532	-	Addition of GCF WI-015 AGPS test case 17.2.2.4 to AGPS ATS V5.2.0	В	5.3.0	5.4.0	R5s050587
RP-31	RP-060158	1533	-	Addition of GCF WI-015 AGPS test case 17.2.3.2 to AGPS ATS V5.2.0	В	5.3.0	5.4.0	R5s050567
RP-31	RP-060158	1534	-	Addition of GCF WI-015 AGPS test case 17.2.3.3 to AGPS ATS V5.2.0	В	5.3.0	5.4.0	R5s050589
RP-31	RP-060158	1535	-	Addition of GCF WI-015 AGPS test case 17.2.3.4 to AGPS ATS V5.2.0	В	5.3.0	5.4.0	R5s050591
RP-31	RP-060158	1536	-	Addition of GCF WI-015 AGPS test case 17.2.3.8 to AGPS ATS V5.2.0	В	5.3.0	5.4.0	R5s050593
RP-31	RP-060158	1537	-	Addition of GCF WI-015 AGPS test case 17.2.3.9 to AGPS ATS V5.2.0	В	5.3.0	5.4.0	R5s050569
RP-31	RP-060158	1538	-		В	5.3.0	5.4.0	R5s050595
RP-31	RP-060158	1539	-	Addition of GCF WI-015 AGPS test case 17.2.4.4 to AGPS ATS V5.2.0	В	5.3.0	5.4.0	R5s050572
RP-31	RP-060158	1540	-	Addition of GCF WI-015 AGPS test case 17.2.4.5 to AGPS ATS V5.2.0	В	5.3.0	5.4.0	R5s050574
RP-31	RP-060158	1541	-	Addition of GCF WI-015 AGPS test case 17.2.4.8 to AGPS ATS V5.2.0	В	5.3.0	5.4.0	R5s050576
RP-31	RP-060158	1542	-	Addition of GCF WI-015 AGPS test case 17.2.4.9 to AGPS ATS V5.2.0	В	5.3.0	5.4.0	R5s050578
RP-31	RP-060148	1543	-	Addition of GCF WI-014 RAB test case 14.6.4 to HS ENH ATS V5.3.0	В	5.3.0	5.4.0	R5s050604
RP-31	RP-060148	1544	-	Addition of GCF WI-014 RAB test case 14.6.4a to HS_ENH ATS V5.3.0	В	5.3.0	5.4.0	R5s050606
RP-31	RP-060148	1545	-	Addition of GCF WI-014 RAB test case 14.6.5 to HS_ENH ATS V5.3.0	В	5.3.0	5.4.0	R5s050608
RP-31	RP-060148	1546	-	Addition of GCF WI-014 RAB test case 14.6.5a to HS_ENH ATS V5.3.0	В	5.3.0	5.4.0	R5s050610
RP-31	RP-060148	1547	-	Addition of GCF WI-014/1 test case 7.1.5.2 to HS_ENH ATS V5.2.0	В	5.3.0	5.4.0	R5s050534
RP-31	RP-060148	1548	-	Addition of RRC GCF WI-14 test case 8.2.2.39 to RRC ATS v5.2.0	В	5.3.0	5.4.0	R5s050510
RP-31	RP-060148	1549	-	Addition of GCF WI-014 test case 8.2.2.42 to HS_ENH ATS V5.2.0	В	5.3.0	5.4.0	R5s050536
RP-31	RP-060148	1550	-	Addition of GCF WI-014/2 test case 8.2.3.33 to HS_ENH ATS V5.2.0	В	5.3.0	5.4.0	R5s050540
RP-31	RP-060148	1551	-	Addition of GCF WI-014 RRC test case 8.2.6.39a to HS_ENH ATS V5.2.0	В	5.3.0	5.4.0	R5s050516

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RP-31	RP-060148	1552	-	Addition of GCF WI-014 RRC test case 8.2.6.39b to HS_ENH ATS V5.3.0	В	5.3.0	5.4.0	R5s050598
RP-31	RP-060148	1553	-	Addition of GCF WI 14/2 test case 8.3.7.14 to HS_ENH ATS V5.3.0	В	5.3.0	5.4.0	R5s050618
RP-31	RP-060158	1554	-	Addition of GCF WI-10/1 test case 6.1.2.2 to RRC ATS v5.2.0	В	5.3.0	5.4.0	R5s050556
RP-31	RP-060158	1555	-	Addition of RRC GCF WI-10 test case 6.1.2.3 to RRC ATS v5.3.0	В	5.3.0	5.4.0	R5s050614
RP-31	RP-060158	1556	1-	Addition of GCF WI-10 Idle Mode test case 6.1.2.5	В	5.3.0	5.4.0	R5s060017
RP-31	RP-060158	1557	-	Addition of GCF WI-10 RRC test case 6.1.2.6 to RRC ATS V5.2.0	В	5.3.0	5.4.0	R5s050584
RP-31	RP-060158	1558	-	Addition of GCF WI-10/2 RRC test case 6.1.2.8 to RRC ATS V5.2.0	В	5.3.0	5.4.0	R5s050547
RP-31	RP-060158	1559	-	Addition of GCF WI-010/2 test case 6.2.2.3 to IR_U ATS V5.2.0	В	5.3.0	5.4.0	R5s050483
RP-31	RP-060158	1560	1-	Addition of GCF WI-12 test case 8.4.1.48	В	5.3.0	5.4.0	R5s050612
RP-31	RP-060165	1561	Ī-	Addition of GCF WI-13 test case 6.1.2.10	В	5.3.0	5.4.0	R5s060013
RP-31	RP-060165	1562	-	Addition of GCF WI-013 RRC test case 8.3.1.38 to HS_ENH ATS V5.3.0	В	5.3.0	5.4.0	R5s050600
RP-31	RP-060165	1563	-	Addition of GCF WI-013 RRC test case 8.3.1.39 to HS_ENH ATS V5.3.0	В	5.3.0	5.4.0	R5s050602
RP-31	RP-060149	1564	-	ATS	F	5.3.0	5.4.0	R5s060011
RP-31	RP-060149	1565	-	Corrections to GCF WI-014 RAB testcases 14.6.4 and 14.6.4a	F	5.3.0	5.4.0	R5s060038
RP-31	RP-060149	1566	-	8.2.3.33	F	5.3.0	5.4.0	R5s060035
RP-31	RP-060149	1567	-	Summary of regression errors in wk03 HSDPA ATS.	F	5.3.0	5.4.0	R5s060030
RP-31	RP-060149	1568	-	Wk49 regression errors in HS_ENH ATS	F	5.3.0	5.4.0	R5s050623
RP-31	RP-060149	1569	-	Summary of regression errors in the wk49 HS_ENH ATS	F	5.3.0	5.4.0	R5s050621
RP-31	RP-060149	1570	-	Summary of regression errors in the wk49 HS_ENH ATS	F	5.3.0	5.4.0	R5s050617
RP-31	RP-060149	1571	-	Correction to GCF WI14 test case 8.3.4.9	F	5.3.0	5.4.0	R5s050620
RP-31	RP-060149	1572	-	Summary of regression errors in the wk49 HS_ENH ATS	F	5.3.0	5.4.0	R5s050581
RP-31	RP-060149	1573	-	Correction to GCF WI14 test case 14.6.1 and 14.6.2	F	5.3.0	5.4.0	R5s050560
RP-31	RP-060149	1574	-	Summary of regression errors in the wk47 HS_ENH ATS	F	5.3.0	5.4.0	R5s050532
RP-31	RP-060149	1575	-	Summary of regression errors in the wk47 HSDPA ATS	F	5.3.0	5.4.0	R5s050550
RP-31	RP-060149	1576	-	Summary of regression errors in the HSENH_r5_wk42 ATS.	F	5.3.0	5.4.0	R5s050529
RP-31	RP-060149	1577	-	Correction to GCF WI-014/2 test case 8.2.2.41	F	5.3.0	5.4.0	R5s050525
RP-31	RP-060149	1578	-	ATS	F	5.3.0	5.4.0	R5s050513
RP-31 RP-31	RP-060149 RP-060149	1579 1580	-	Corrections to Testcase 8.3.1.35 Update to HS_ENH_r5 ATS to allow 64k uplink data	F F	5.3.0 5.3.0	5.4.0 5.4.0	R5s050518 R5s050519
RP-31	RP-060149	1581	-	rate to be tested for RRC Testcases. Errors identified in RAB HSDPA testcases in wk42	F	5.3.0	5.4.0	R5s050520
RP-31	RP-060149	1582	-	ATS. Summary of regression errors in the wk42 HSDPA	F	5.3.0	5.4.0	R5s050503
DD 24	DD 000450	1500	-	ATS	г	F 2 0	E 4 O	R5s050512
RP-31 RP-31	RP-060159 RP-060159	1583 1584	-	Correction to GCF WI-10 test case 8.4.1.14 TTCN correction to Approved RRC TCs 8.3.4.1, 8.3.4.2 and 8.3.4.3	F F	5.3.0 5.3.0	5.4.0 5.4.0	R5s050512 R5s060044
RP-31	RP-060159	1585	-	Summary of regression errors in wk03 RRC and RAB	F	5.3.0	5.4.0	R5s060042
RP-31	RP-060159	1586	-	ATS. Correction of GCF WI-10 RRC test case	F	5.3.0	5.4.0	R5s060043
RP-31	RP-060159	1587	1-	8.4.1.2,8.4.1.24,8.4.1.25 Summary of regression errors in the wk03 GCF WI-10 and GCF WI-12 ATS	F	5.3.0	5.4.0	R5s060010
RP-31	RP-060159	1588	1-	Correction to GCF WI-10 RRC Test Case 6.1.1.4	F	5.3.0	5.4.0	R5s060024
RP-31	RP-060159	1589	-	Correction to GCF WI-12 Testcase 9.4.5.4.6	F.	5.3.0	5.4.0	R5s060025
RP-31	RP-060159	1590	1-	Correction to GCF WI-12 Testedase 5.4.5.4.0 Correction to GCF WI-10 NAS Test Case 12.4.1.4a	F	5.3.0	5.4.0	R5s060040
RP-31	RP-060159	1591	1-	Correction of GCF WI-10 RRC test case 8.1.7.1d	F	5.3.0	5.4.0	R5s060039
RP-31	RP-060159	1592	-	Corrections to approved GCF WI-12/1 Inter-RAT test case 8.4.1.48		5.3.0	5.4.0	R5s060029
RP-31	RP-060159	1593	-	Corrections to approved GCF WI-10/3 InterRAT test case 8.4.1.31	F	5.3.0	5.4.0	R5s060028
RP-31	RP-060159	1594	-	Corrections to GCF WI-012 GMM testcase 12.9.9	F	5.3.0	5.4.0	R5s060037

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RP-31	RP-060159	1595	-	Corrections to Approved GCF WI-012 RRC testcases 8.2.1.24 & 8.2.1.34	F	5.3.0	5.4.0	R5s060036
RP-31	RP-060159	1596	-	Correction of GCF WI-10 RRC test case 8.4.1.26	F	5.3.0	5.4.0	R5s060033
RP-31	RP-060159	1597	-	Correction of GCF WI-12 MM test case 9.4.3.3	F	5.3.0	5.4.0	R5s060032
RP-31	RP-060159	1598	-	Summary of regression errors in wk49 ATS.	F	5.3.0	5.4.0	R5s060009
RP-31	RP-060159	1599	-	Correction to GCF WI-12 RLC Test Case 7.2.3.35	F	5.3.0	5.4.0	R5s060008
RP-31	RP-060159	1600	-	Correction to GCF WI-10 test case 6.1.2.9	F	5.3.0	5.4.0	R5s060007
RP-31	RP-060159	1601	-	Correction to GCF WI-10 test case 8.1.3.9	F	5.3.0	5.4.0	R5s060003
RP-31	RP-060159	1602	-	Summary of regression errors in the wk49 IR_U ATS.	F	5.3.0	5.4.0	R5s060006
RP-31	RP-060160	1603	-	Summary of regression errors in the wk47 ATS.	F	5.3.0	5.4.0	R5s050551
RP-31	RP-060160	1604	-	TTCN correction to Approved GMM TC 12.4.2.4	F	5.3.0	5.4.0	R5s060004
RP-31	RP-060160	1605	-	Corrections to GCF WI-012 approved testcases 9.4.3.3	F	5.3.0	5.4.0	R5s060002
RP-31	RP-060160	1606	-	Correction to GCF WI-10 RRC Test Case 8.1.7.1c	F	5.3.0	5.4.0	R5s060001
RP-31	RP-060160	1607	-	TTCN Correction for GCF WI-10 RRC test case 6.1.2.8	F	5.3.0	5.4.0	R5s050586
RP-31	RP-060160	1608	-	TTCN correction to Approved IRAT TCs 8.3.7.1, 8.3.7.2, 8.3.7.3, 8.3.7.4, 8.3.7.13, 8.3.7.16 and 8.3.11.1.	F	5.3.0	5.4.0	R5s050622
RP-31	RP-060160	1609	-	Correction to approved RRC test cases 8.1.6.3, 8.4.1.1, 8.4.1.3 and 8.4.1.29 on Wk49 ATS	F	5.3.0	5.4.0	R5s050571
RP-31	RP-060160	1610	-	Correction to GCF WI 10 RLC testcase 7.2.2.2	F	5.3.0	5.4.0	R5s050583
RP-31	RP-060160	1611	-	Summary of regression errors in the wk49 GCF WI-10 and GCF WI-12 ATS	F	5.3.0	5.4.0	R5s050580
RP-31	RP-060160	1612	-	Corrections to approved GCF WI-010 / GCF WI-012 test cases 14.2.51b.1 and 14.2.58a	F	5.3.0	5.4.0	R5s050597
RP-31	RP-060160	1613	-	TTCN correction to Approved IRAT TC 8.3.7.16	F	5.3.0	5.4.0	R5s050552
RP-31	RP-060160	1614	-	Correction to GCF WI-10 approved RRC Test Case 8.1.7.1d	F	5.3.0	5.4.0	R5s050582
RP-31	RP-060160	1615	-	Correction to GCF Test Case 8.4.1.2, 8.4.1.24, 8.4.1.25, 8.4.1.6, 8.4.1.8 and HSDPA Test Cases	F	5.3.0	5.4.0	R5s050545
RP-31	RP-060160	1616	-	Summary of regression errors in the wk47 GCF WI-10 and GCF WI-12 ATS	F	5.3.0	5.4.0	R5s050533
RP-31	RP-060160	1617	-	Correction to the GCF WI 10 testcase 7.2.3.13	F	5.3.0	5.4.0	R5s050538
RP-31	RP-060160	1618	-	Correction to GCF WI 10 MAC test case 7.1.2.3.1	F	5.3.0	5.4.0	R5s050539
RP-31	RP-060160	1619	-	Correction to IR_U test cases 8.3.7.1, 8.3.7.2, 8.3.7.3, 8.3.7.12 and 8.3.7.16	F	5.3.0	5.4.0	R5s050493
RP-31	RP-060160	1620	-	Correction to GCF WI 10 test case 7.1.2.4a	F	5.3.0	5.4.0	R5s050555
RP-31	RP-060160	1621	-	Corrections to GCF WI-012 approved test case 16.3	F	5.3.0	5.4.0	R5s050554
RP-31	RP-060160	1622	-	Correction to approved GCF WI-010 Test Case 16.1.1	F	5.3.0	5.4.0	R5s050549
RP-31	RP-060161	1623	-	TTCN correction to Approved RRC TC 8.1.2.7	F	5.3.0	5.4.0	R5s050553
RP-31	RP-060161	1624	-	Correction to GCF WI-10 RRC Test Case 8.3.1.18	F	5.3.0	5.4.0	R5s050543
RP-31	RP-060161	1625	-	Correction to GCF WI-10 RRC Test Case 8.1.1.9	F	5.3.0	5.4.0	R5s050544
RP-31	RP-060161	1626	-	Correction to GCF WI-12 test case 8.1.6.3	F	5.3.0	5.4.0	R5s050531
RP-31	RP-060161	1627	-	Summary of regression errors in the wk42 ATS.	F	5.3.0	5.4.0	R5s050528
RP-31	RP-060161	1628	-	Correction to GCF WI-10/3 Testcase 12.4.2.4	F	5.3.0	5.4.0	R5s050505
RP-31	RP-060161	1629	-	Correction to test step ts_Exit_Testcase used in MultiRAB test cases	F	5.3.0	5.4.0	R5s050514
RP-31	RP-060161	1630	-	Correction to GCF WI-010/1 test case 7.1.2.4a	F	5.3.0	5.4.0	R5s050524
RP-31	RP-060161	1631	-	Correction to the GCF WI 12 NAS Test Case 9.4.3.3	F	5.3.0	5.4.0	R5s050515
RP-31	RP-060161	1632	-	Correction to GCF WI 10 and GCF WI 12 ATS to support IPv6 format for PDP Context	F	5.3.0	5.4.0	R5s050521
RP-31	RP-060161	1633	-	Summary of regression errors in the wk42 GCF WI-10 and GCF WI-12 ATS		5.3.0	5.4.0	R5s050482
RP-31	RP-060161	1634	-	Correction to GCF WI-13 test case 8.1.2.14	F	5.3.0	5.4.0	R5s050526
RP-31	RP-060161	1635	-	Correction to GCF WI-13 test case 8.1.2.15	F	5.3.0	5.4.0	R5s050527
RP-31	RP-060161	1636	-	Correction to GCF WI-12 test case 9.4.3.3	F	5.3.0	5.4.0	R5s050509
RP-31	RP-060161	1637	-	Correction to GCF WI-10 test case 8.1.3.9	F	5.3.0	5.4.0	R5s050507
RP-31	RP-060161	1638	-	Corrections of TC_16_2_1, TC_16_2_2, TC_16_1_9_1, TC_16_1_9_2	F	5.3.0	5.4.0	R5s050506
RP-31	RP-060161	1639	-	Correction to GCF WI-10 RAB Test Case 14.2.38c	F	5.3.0	5.4.0	R5s050504
RP-31	RP-060165	1640	-	Correction to GCF WI 13/1 RRC testcases 8.3.1.38 and 8.3.1.39	F	5.3.0	5.4.0	R5s060023
RP-31	RP-060165	1641	<u> </u>	Corrections to Approved GCF WI-013 RRC testcase 8_1_2_14 & WI-014 RRC testcase 8_2_2_42	F	5.3.0	5.4.0	R5s060034
RP-31	RP-060165	1642	-	Summary of regression errors in wk03 HSDPA ATS (GCF WI-13).	F	5.3.0	5.4.0	R5s060031
RP-31	RP-060165	1643	-	Corrections to GCF WI-013 test cases 8.1.6.5 and 8.3.1.40	F	5.3.0	5.4.0	R5s050523
RP-31	RP-060165	1644	-	Correction to Rel-5 (HSENH) ATS to support IPv6 format for PDP Context.	F	5.3.0	5.4.0	R5s050522

Meet-	TSG doc	CR	Rev	Subject	Cat	Old vers	New vers	WG doc
RP-31	RP-060162	1645	-	1	F	5.3.0	5.4.0	-
RP-31	DD 000400	1010		in the TC lists in 34.123-3 (prose), Annex A Introduce ASP for HSUPA in 34.123-3	В	F 2 0	F 4 0	DE OCOECO
RP-31	RP-060166 RP-060147	1646 1647	-	Introduce ASP for HSDPA of LCR TDD	В	5.3.0 5.3.0	5.4.0 5.4.0	R5-060560 R5-060317
RP-31	RP-060147	1648	-	Updating Information in section 8.2.4 (Table 35)	F	5.3.0	5.4.0	R5-060317
RP-31	RP-060154	1649	-	Correction of default value for IXIT parameter	F	5.3.0	5.4.0	R5-060267
IXE-21	KF-000134	1049	['px_CipherAlg'.		5.5.0	3.4.0	K3-000176
RP-31	RP-060154	1650	-		F	5.3.0	5.4.0	R5-060505
RP-31	RP-060164	1651	-	Update configurations, introduce frequency band indicator for SS in 34.123-3 - Release 5.	F	5.3.0	5.4.0	R5-060316
RP-32	RP-060338	1652		Update HSDPA test configuration	F	5.4.0	5.5.0	R5-061004
RP-32	RP-060338	1653	_	Change of ASP and IEs for LCR TDD	F	5.4.0	5.5.0	R5-061300
RP-32	RP-060333	1654	_	Update E-DCH test model and ASP (CR to 34.123-3)	F.	5.4.0	5.5.0	R5-061285
RP-32	RP-060324	1655	_	Update PIXIT	F	5.4.0	5.5.0	R5-061003
RP-32	RP-060324	1656	_	Correction to ASP CPHY_TFCI_Detected_IND	F	5.4.0	5.5.0	R5-061377
RP-32	RP-060321	1657	_	CR to 34.123-3: Add new verified and e-mail agreed	F	5.4.0	5.5.0	-
				TTCN test cases in the TC lists in 34.123-3 (prose), Annex A				
RP-32	RP-060339	1658	-	Addition of GCF WI14 test case 8.2.6.48 to HSD_ENH ATS V5.4.0	В	5.4.0	5.5.0	R5s060139
RP-32	RP-060327	1659	-	Addition of GCF WI-12 test case 8.3.4.8	В	5.4.0	5.5.0	R5s060019
RP-32	RP-060327	1660	-	Addition of GCF WI12 RRC test case 8.2.2.43 to RRC ATS v5.3.0		5.4.0	5.5.0	R5s060084
RP-32	RP-060327	1661	-	Addition of GCF WI12 RRC test case 8.2.6.39 to RRC ATS v5.4.0 (Revision of R5s060076)		5.4.0	5.5.0	R5s060080
RP-32	RP-060327	1662	-	Addition of GCF WI12 RRC test case 8.2.6.44 to RRC ATS v5.4.0 (Revision of R5s060078)		5.4.0	5.5.0	R5s060082
RP-32	RP-060327	1663	-	Addition of GCF WI-10 MM test case 9.4.5.4.1	В	5.4.0	5.5.0	R5s060066
RP-32	RP-060330	1664	-	Addition of GCF WI-13 RRC test case 8.4.1.47 to HSD_ENH ATS v5.3.0	В	5.4.0	5.5.0	R5s060070
RP-32	RP-060330	1665	-	Addition of GCF WI13 Inter-RAT cell change order from UTRAN test case 8.3.11.12 to HSD_ENH ATS v5.4.0 (Revision of R5s060092)	В	5.4.0	5.5.0	R5s060094
RP-32	RP-060339	1666	-	Correction to GCF WI14 RAB test case 14_6_1, 14_6_2, 14_6_3, 14_6_3a, 14_6_4, 14_6_4a, 14_6_5, 14_6_5a	F	5.4.0	5.5.0	R5s060059
RP-32	RP-060339	1667	-	Correction to GCF WI14 test case 8_3_1_34 and 8_3_1_36	F	5.4.0	5.5.0	R5s060061
RP-32	RP-060339	1668	_	Change of the relative channel powers for HS- PDSCH and HS-SCCH	F	5.4.0	5.5.0	R5s060074
RP-32	RP-060339	1669	-	Corrections to RAB testcase 14.6.3a	F	5.4.0	5.5.0	R5s060121
RP-32	RP-060339	1670	-	Correction to teststep ts_RRC_MultiCallEstPS_MO_HSDPA, ts_RRC_NAS_SessionActPS_MO_P9_P10_HS	F	5.4.0	5.5.0	R5s060114
RP-32	RP-060339	1671	-	Corrections to GCF WI 14 RRC test case 8.2.3.34	F	5.4.0	5.5.0	R5s060115
RP-32	RP-060330	1672	=	Revised summary of regression errors in IR_U and HSD_ENH_R5 ATS (wk03, 2006)	F	5.4.0	5.5.0	R5s060088
RP-32	RP-060330	1673	-	Correction to GCF WI13 test case 6.1.2.10	F	5.4.0	5.5.0	R5s060075
RP-32	RP-060330	1674	-	Correction to GCF WI-13 Idle Mode test case 6.1.2.10	F	5.4.0	5.5.0	R5s060089
RP-32	RP-060330	1675	-	Corrections to Approved GCF WI-013 RRC testcases 8.4.1.47	F	5.4.0	5.5.0	R5s060135
RP-32	RP-060330	1676	-	Additional CR for agreed TC 8.3.11.12 (8.3.11.13 implicitly affected)	F	5.4.0	5.5.0	R5s060118
RP-32	RP-060325	1677	-	Correction to GCF WI-10 RRC Test Case 6.2.2.2	F	5.4.0	5.5.0	R5s060050
RP-32	RP-060325	1678	-	Correction of GCF WI-10 test case 8.4.1.5	F	5.4.0	5.5.0	R5s060049
RP-32	RP-060325	1679	-	Summary of regression errors in the wk06 ATS.	F	5.4.0	5.5.0	R5s060056
RP-32	RP-060325	1680	-	Corrections to Security procedure to make UL SRB3 ciphering preconfiguration optional	F	5.4.0	5.5.0	R5s060057
RP-32	RP-060325	1681	-	Summary of regression errors in the wk06 GCF WI-10 and GCF WI-12 ATS	F	5.4.0	5.5.0	R5s060047
RP-32	RP-060325	1682	-	Correction to the test step ts_DownlinkTBFEstablishment	F	5.4.0	5.5.0	R5s060060
RP-32	RP-060325	1683	-	Change to expected value of Qos 'DeliveryOrder' IE.	F	5.4.0	5.5.0	R5s060058
RP-32	RP-060325	1684	-	Clarification of the usage of 4 PICS parameters	F	5.4.0	5.5.0	R5s060053
RP-32	RP-060325	1685	-	Correction to approved GCF WI-10/2 InterRAT test case 6.2.2.2	F	5.4.0	5.5.0	R5s060055
RP-32	RP-060325	1686	-	Correction to approved GCF WI-10/2 InterRAT test case 6.2.2.1	F	5.4.0	5.5.0	R5s060054
RP-32	RP-060325	1687	-	Corrections to IRU Measurement test cases for handling of UL only and DI only compressed mode branches	F	5.4.0	5.5.0	R5s060051

Meet-	TSG doc	CR	Rev	Subject	Cat	Old vers	New vers	WG doc
RP-32	RP-060325	1688	_	Generic correction to test step 'ts_MM_IMSI_Detach'	F	5.4.0	5.5.0	R5s060069
RP-32	RP-060325	1689	1	Correction to GCF WI-12 RAB Test Case 14.2.9	F	5.4.0	5.5.0	R5s060068
RP-32	RP-060325	1690	_	Summary of regression errors in the wk09 GCF WI-10		5.4.0	5.5.0	R5s060073
			_	and GCF WI-12 ATS				
RP-32	RP-060325	1691	-	Corrections to GCF WI-10 IR_U test case 6.2.1.7 and 6.2.1.8	F	5.4.0	5.5.0	R5s060072
RP-32	RP-060325	1692	-	Correction to RRC test cases 8.1.1.1 and 8.1.1.9	F	5.4.0	5.5.0	R5s060086
RP-32	RP-060325	1693	-	Correction to WI10 Idle Mode test case 6.1.2.6	F	5.4.0	5.5.0	R5s060087
RP-32	RP-060325	1694	-	Correction to the IR_U test case 6.2.2.3	F	5.4.0	5.5.0	R5s060091
RP-32	RP-060325	1695	1-	Correction to SM GCF WI 10 test case 11.3.1	F	5.4.0	5.5.0	R5s060090
RP-32	RP-060325	1696	<u>t</u>	Correction to GCF WI-12 Testcase 9.4.3.3	F.	5.4.0	5.5.0	R5s060101
RP-32	RP-060326	1697		Correction to GCF WI-12 Testcase 9.4.5.4.6	F	5.4.0	5.5.0	R5s060101
RP-32	RP-060326	1698	-	Correction to GCF WI-12 Testcase 9.4.0.4.0 Correction to GCF WI-10 Testcase 8.1.7.1c	F	5.4.0	5.5.0	R5s060102
RP-32	RP-060326		Ε		F			
		1699	-	Correction to GCF WI-15 Test Cases	F	5.4.0 5.4.0	5.5.0 5.5.0	R5s060104
RP-32	RP-060326	1700	-	TTCN correction to Approved RRC TCs 8.3.4.1, 8.3.4.2 and 8.3.4.3				R5s060096
RP-32	RP-060326	1701	-	TTCN correction to Approved RRC TC 8.4.1.14	F	5.4.0	5.5.0	R5s060095
RP-32	RP-060326	1702	-	Correction of approved IR_U test case 8.3.11.1.	F	5.4.0	5.5.0	R5s060097
RP-32	RP-060326	1703	-	Correction of approved HSD_ENH_R5 test cases 8.3.11.9, 8.3.11.13 and of 8.3.11.12 (under approval).	F	5.4.0	5.5.0	R5s060098
RP-32	RP-060326	1704	<u> -</u>	Correction to GCF WI-10 GMM test case 12.4.2.4	F	5.4.0	5.5.0	R5s060110
RP-32	RP-060326	1705	<u> -</u>	Correction in TTCN for RLC Test cases 7.2.3.21.	F	5.4.0	5.5.0	R5s060110
02	000020	55		7.2.3.22 and 7.2.3.24	ľ	30	3.3.0	00000100
RP-32	RP-060326	1706	<u> -</u>	Correction to RRC GCF WI 12 test case 8.3.1.30	F	5.4.0	5.5.0	R5s060106
RP-32	RP-060326	1707	<u>t</u>	Corrections to RAB testcase 14.2.41	F.	5.4.0	5.5.0	R5s060120
RP-32	RP-060326	1707	<u> </u>	Corrections to KAB testcase 14.2.41 Correction to GCF WI-10 RRC Test Case 8.1.1.9	F	5.4.0	5.5.0	R5s060120
RP-32	RP-060326	1709	_	Correction to the constraints used for the Radio	F	5.4.0	5.5.0	R5s060113
INF-32	KF-000320	1709		Bearer Reconfiguration Message		3.4.0	3.3.0	K38000113
RP-32	RP-060326	1710	<u> </u>	Correction to RRC test cases 8.3.1.21 and 8.3.2.11	F	5.4.0	5.5.0	R5s060112
RP-32	RP-060326	1711	<u> </u>	Summary of regression errors in the wk11 ATS.	F	5.4.0	5.5.0	R5s060111
RP-32	RP-060326	1712	1_	Corrections to TTCN test cases due to the review of	F	5.4.0	5.5.0	R5s060116
141 02	141 000020	17 12		34.123-2 and, related, the implementation of test case selection expressions in the TTCN.		0.4.0	0.0.0	1100000110
RP-32	RP-060326	1713	L	Empty all PCOs when TC begins	F	5.4.0	5.5.0	R5s060064
RP-32	RP-060326	1714	_	Correction to QOS parameters for UMTS only	F	5.4.0	5.5.0	R5s060004
KF-32	KF-000320	17 14	Ι-	mobiles		3.4.0	5.5.0	135000041
RP-32	RP-060326	1715	L	Correction to GCF Test Case 8.4.1.25	F	5.4.0	5.5.0	R5s060141
RP-32	RP-060326	1716	<u> </u>	Correction to GCF WI-10 Testcase 7.2.3.21	F.	5.4.0	5.5.0	R5s060126
RP-32	RP-060327	1717	L	Correction to GCF WI-12 Testcase 9.4.3.3	F	5.4.0	5.5.0	R5s060127
RP-32	RP-060327	1718		Correction to GCF WI-10 IR-U Test Case 6.2.2.3	F	5.4.0	5.5.0	R5s060128
RP-32	RP-060327	1719	-	Correction to the RRC test case 6.1.2.8	F	5.4.0	5.5.0	R5s060123
			Ε		-			
RP-32	RP-060327	1720	-	Correction to GCF WI-12 NAS Test Case 9.4.3.3	F	5.4.0	5.5.0	R5s060122
RP-32	RP-060327	1721	-	Correction to GCF WI-10 SMS Test Case 16.x	F	5.4.0	5.5.0	R5s060136
RP-32	RP-060327	1722	-	Correction to the IR_U test case 8.3.11.1	F	5.4.0	5.5.0	R5s060130
RP-32	RP-060327	1723	-	Correction to the approved IR_U test cases 8.3.7.1 and 8.3.7.3	F	5.4.0	5.5.0	R5s060131
RP-32	RP-060327	1724	-	Correction to the GCF WI-12 test case 8.4.1.48	F	5.4.0	5.5.0	R5s060134
RP-32	RP-060327	1725	-	Correction to the common security teststeps to add the default test step	F	5.4.0	5.5.0	R5s060133
RP-32	RP-060327	1726	<u> </u>	Correction to Cell Broadcast test case 16.3	F	5.4.0	5.5.0	R5s060125
					F			
RP-32	RP-060327 RP-060327	1727 1728	Ι-	Correction to the RRC test case 8.1.1.9		5.4.0 5.4.0	5.5.0	R5s060124
RP-32			-	Correction to the RRC compressed mode testcases	F		5.5.0	R5s060132
RP-32	RP-060327	1729	-	Correction of erroneous determination of OP-Mode in multiple ATSs	F	5.4.0	5.5.0	R5s060117
RP-33	RP-060548	1730	-	CR to 34.123-3: Add new verified and e-mail agreed TTCN test cases in the TC lists in 34.123-3 (prose), Annex A	F	5.5.0	5.6.0	-
RP-33	RP-060555	1731	-	Correction to the RRC testcase 8.4.1.23	F	5.5.0	5.6.0	R5s060225
RP-33	RP-060555	1732	-	Correction to the RRC testcase 8.4.1.25	F	5.5.0	5.6.0	R5s060226
RP-33	RP-060555	1733	-	Correction to the GMM test case 12.9.7b	F	5.5.0	5.6.0	R5s060223
RP-33	RP-060555	1734	<u> </u>	Correction of Inter RAT testcase 12.8	F	5.5.0	5.6.0	R5s060222
RP-33	RP-060555	1735	-	Summary of regression errors in wk29 GCF WI-10 ATS	F	5.5.0	5.6.0	R5s060227
RP-33	RP-060555	1736	-	Correction to GCF WI-010/1 approved test case 7.2.3.27	F	5.5.0	5.6.0	R5s060230
RP-33	RP-060555	1737	-	Correction to GCF WI-12/1 approved test case 8.2.2.43	F	5.5.0	5.6.0	R5s060231
RP-33	RP-060569	1738	-	Correction to test cases 14.6.4	F	5.5.0	5.6.0	R5s060229
RP-33	RP-060555	1739	-	Correction to test cases 8.2.2.35 & tcv_BcapMmedia	F	5.5.0	5.6.0	R5s060232
RP-33	RP-060555	1740	<u> </u> -	Correction to GCF WI10 RRC Test Case 8.4.1.5	F.	5.5.0	5.6.0	R5s060218
RP-33	RP-060555	1741	-	Correction to approved GCF WI-12 RAB test case	F	5.5.0	5.6.0	R5s060221
				14.2.58a				

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RP-33	RP-060555	1742	-	Correction to approved GCF WI-12 RRC test cases 8.2.6.39 and 8.2.6.44	F	5.5.0	5.6.0	R5s060220
RP-33	RP-060555	1743	-	Correction to approved GCF WI-10 RLC test case 7.2.3.17	F	5.5.0	5.6.0	R5s060219
RP-33	RP-060555	1744	_		F	5.5.0	5.6.0	R5s060217
RP-33	RP-060569	1745	-		F	5.5.0	5.6.0	R5s060214
RP-33	RP-060569	1746	l	Correction to test cases 14.6.6	F	5.5.0	5.6.0	R5s060215
RP-33	RP-060555	1747	_	Summary of Regression Errors in WK29 ATS	F	5.5.0	5.6.0	R5s060212
RP-33	RP-060555	1748	_	ASP enhancement for HSUPA testing	F	5.5.0	5.6.0	R5s060196
RP-33	RP-060569	1749	İ-	Summary of regression errors in the wk27 HSD Suite	F	5.5.0	5.6.0	R5s060209
RP-33	RP-060555	1750	-		F	5.5.0	5.6.0	R5s060210
RP-33	RP-060555	1751	-	Corrections to GCF WI-12/1 approved test case 7.1.3.2	F	5.5.0	5.6.0	R5s060208
RP-33	RP-060554	1752	-	ATS v5.5.0	В	5.5.0	5.6.0	R5s060201
RP-33	RP-060555	1753	-	Corrections to GCF WI-12/1 approved test case 12.9.7a.	F	5.5.0	5.6.0	R5s060206
RP-33	RP-060569	1754	-	Summary of Regression Errors in HSDPA ATS	F	5.5.0	5.6.0	R5s060207
RP-33	RP-060555	1755	-	Summary of regression errors in the wk27 GCF WI-10 and GCF WI-12 ATS	F	5.5.0	5.6.0	R5s060205
RP-33	RP-060555	1756	-	Correction to GCF WI-10 Idle Mode test case 6.1.2.5	F	5.5.0	5.6.0	R5s060203
RP-33	RP-060556	1757	-		F	5.5.0	5.6.0	R5s060204
RP-33	RP-060556	1758	-	-9	F	5.5.0	5.6.0	R5s060199
RP-33	RP-060559	1759	-	Regression Error report for HSD_ENH_r5 ATS	F	5.5.0	5.6.0	R5s060200
RP-33	RP-060559	1760	-		F	5.5.0	5.6.0	R5s060063
RP-33	RP-060556	1761	-	Corrections to GCF WI-10 RRC Test Case 8.4.1.24 and 8.4.1.25	F	5.5.0	5.6.0	R5s060198
RP-33	RP-060554	1762	-	AGPS ATS V5.5.0	В	5.5.0	5.6.0	R5s060193
RP-33	RP-060554	1763	-	AGPS ATS V5.5.0	В	5.5.0	5.6.0	R5s060192
RP-33	RP-060556	1764	-	Correction to GCF WI-12 NAS Test Case 12.9.9	F	5.5.0	5.6.0	R5s060197
RP-33	RP-060556	1765	-	Correction to the RRC testcase 8.2.3.8	F	5.5.0	5.6.0	R5s060190
RP-33	RP-060556	1766	-	Correction to the RRC testcase 8.2.4.1	F	5.5.0	5.6.0	R5s060191
RP-33	RP-060556	1767	-	Correction of GCF WI-10 RRC Test Case 8.3.1.10 and 8.3.2.4	F	5.5.0	5.6.0	R5s060186
RP-33	RP-060556	1768	-	Correction to the Security procedure	F	5.5.0	5.6.0	R5s060189
RP-33	RP-060556	1769	-	Correction to GCF WI-10 NAS Test Case 11.1.1.1	F	5.5.0	5.6.0	R5s060178
RP-33 RP-33	RP-060556 RP-060556	1770 1771	-	Correction to GCF WI-12 RRC Test Case 8.1.1.10 Correction to the test step ts_ToStateMOCompressMode_CS_6_9_PS_6_10	F F	5.5.0 5.5.0	5.6.0 5.6.0	R5s060187 R5s060188
RP-33	RP-060561	1772	_	Moving baseline to the June 06, Rel-6	F	5.5.0	5.6.0	R5s060183
RP-33	RP-060556	1773	-	Corrections to GCF WI-10 SMS Test Cases 16.1.1 and 16.1.2	F	5.5.0	5.6.0	R5s060185
RP-33	RP-060559	1774	-		F	5.5.0	5.6.0	R5s060184
RP-33	RP-060556	1775	-		F	5.5.0	5.6.0	R5s060182
RP-33	RP-060569	1776	-	Corrections to GCF WI 14 test case 14.6.4	F	5.5.0	5.6.0	R5s060181
RP-33	RP-060556	1777	 -		F	5.5.0	5.6.0	R5s060180
RP-33	RP-060556	1778	1-	Correction of value for t_IdlePageTimer timer	F	5.5.0	5.6.0	R5s060175
RP-33	RP-060556	1779	-		F	5.5.0	5.6.0	R5s060176
RP-33	RP-060556	1780	-	12.9.6	F	5.5.0	5.6.0	R5s060179
RP-33	RP-060556	1781	-	and GCF WI-12 ATS	F	5.5.0	5.6.0	R5s060177
RP-33	RP-060556	1782	-	Correction to the test step ts_U2GCellChange_RAUpdate	F	5.5.0	5.6.0	R5s060174
RP-33	RP-060556	1783	ļ	Corrections to GCF WI 12/1 IR_U test case 8_4_1_48		5.5.0	5.6.0	R5s060173
RP-33	RP-060569	1784	-		F	5.5.0	5.6.0	R5s060170
RP-33	RP-060559	1785	-	Correction to test case 8.1.6.5	F	5.5.0	5.6.0	R5s060171
RP-33	RP-060557	1786	-	Correction to test step ts_ SS_Rel	F	5.5.0	5.6.0	R5s060172
RP-33	RP-060557	1787	-		F	5.5.0	5.6.0	R5s060169
RP-33	RP-060557	1788	-		F	5.5.0	5.6.0	R5s060166
RP-33	RP-060557	1789	-		F	5.5.0	5.6.0	R5s060167
RP-33	RP-060557	1790	-	Summary of regression errors in the wk21 GCF WI-10 and WI-12 ATS		5.5.0	5.6.0	R5s060168
RP-33	RP-060569	1791	-	Summary of regression errors in the wk21 HSD_ENH ATS		5.5.0	5.6.0	R5s060165
RP-33	RP-060569	1792	-	8.2.6.39b	F	5.5.0	5.6.0	R5s060164
RP-33	RP-060557	1793	-	Correction of GCF WI-12 and 10 NAS Test cases 9.4.5.4.6 and 9.4.5.4.1	F	5.5.0	5.6.0	R5s060163

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RP-33	RP-060554	1794	-	Addition of GCF WI-012 MAC test case 7.1.3.2 to MAC ATS V5.4.0	В	5.5.0	5.6.0	R5s060161
RP-33	RP-060557	1795	-		F	5.5.0	5.6.0	R5s060158
RP-33	RP-060569	1796	-	Addition of GCF WI14/3 test case 14.6.6 to HSD_ENH ATS V5.4.0	В	5.5.0	5.6.0	R5s060159
RP-33	RP-060569	1797	-		F	5.5.0	5.6.0	R5s060156
RP-33	RP-060557	1798	-	Correction of GCF WI-12 RRC Testcase 8.3.1.30	F	5.5.0	5.6.0	R5s060157
RP-33	RP-060569	1799	-	Addition of GCF WI14/3 test case 14.6.1a to HSD_ENH ATS V5.4.0	В	5.5.0	5.6.0	R5s060154
RP-33	RP-060557	1800	-	Summary of regression errors in the wk18 GCF WI-10 and GCF WI-12 ATS	F	5.5.0	5.6.0	R5s060148
RP-33	RP-060557	1801	1	Correction to common teststeps ts_RRC_ReceiveUE_CapabilityInfo and ts_Check_UE_Capability	F	5.5.0	5.6.0	R5s060146
RP-33	RP-060557	1802	-	Correction to the constraint cbr_108_RRC_SecModeCmpl in approved teststep ts_RRC_Security	F	5.5.0	5.6.0	R5s060147
RP-33	RP-060569	1803	-	Correction to test step ts_RRC_ConnRel_AfterSwitchOff_r5	F	5.5.0	5.6.0	R5s060153
RP-33	RP-060569	1804	-	Correction of GCF WI-14 HSDPA MAC test case 7.1.5.4	F	5.5.0	5.6.0	R5s060149
RP-33	RP-060557	1805	-	Proposed enhancement for calculation of DPCH Frame Offset	F	5.5.0	5.6.0	R5s060150
RP-33	RP-060557	1806	-	Correction of PLMN presentation in test step ts_MMI_PLMN_SelPerf	F	5.5.0	5.6.0	R5s060152
RP-33	RP-060557	1807	<u> -</u>	Correction to InterRAT Idle Mode frequency lists	F	5.5.0	5.6.0	R5s060151
RP-33	RP-060557	1808	<u> </u>	Correction to GCF WI-10 Idle Mode test case 6.1.2.3	F	5.5.0	5.6.0	R5s060144
RP-33	RP-060557	1809	-	Correction of integrity error in TC 8.1.7.1d	F	5.5.0	5.6.0	R5s060145
RP-33	RP-060569	1810	<u> </u>	TTCN correction to mac-hs testcase 7.1.5.6	F	5.5.0	5.6.0	R5s060143
RP-33	RP-060558	1811	 	Summary of regression errors in wk29 IRAT ATSs.	F.	5.5.0	5.6.0	R5s060236
RP-33	RP-060558	1812	-	Correction to Approved GCF WI-10 NAS test case 12.4.1.1a	F	5.5.0	5.6.0	R5s060243
RP-33	RP-060558	1813	-	Summary of Regression Errors in RRC wk34 ATS	F	5.5.0	5.6.0	R5s060248
RP-33	RP-060558	1814	-	Summary of Regression Errors in NAS wk34 ATS	F	5.5.0	5.6.0	R5s060249
RP-33	RP-060558	1815	-	Summary of Regression Errors in SMS wk34 ATS	F	5.5.0	5.6.0	R5s060250
RP-33	RP-060559	1816	-	Summary of Regression Errors in HSD_ENH wk34 ATS	F	5.5.0	5.6.0	R5s060256
RP-33	RP-060558	1817	-		F	5.5.0	5.6.0	R5s060253
RP-33	RP-060558	1818	-	Summary of regression errors in wk34 GCF WI-10 and GCF WI-12 ATS	F	5.5.0	5.6.0	R5s060255
RP-33	RP-060558	1819	-	Correction to UE capability constraints	F	5.5.0	5.6.0	R5s060254
RP-33	RP-060558	1820	-	Addition of GCF WI-017 test case 8.3.7.17 to IR_U_r3 ATS V5.5.0.	В	5.5.0	5.6.0	R5s060234
RP-33	RP-060564	1821	-	CR to 34.123-3: ASP changes for EDCH test	F	5.5.0	5.6.0	R5-062325
RP-33	RP-060551	1822	-	New ASP and updated ASP to resolve SRB3 UL ciphering	F	5.5.0	5.6.0	R5-062534
RP-33	RP-060553	1823	-	Production of pointer version 5.6.0 of TS 34.123-3 with no technical contents	F	5.5.0	5.6.0	R5-062535
RP-33	RP-060560	1824	-	Upgrade TS 34.123-3 to version 6.0.0	F	5.5.0	6.0.0	R5-062536
RP-33	RP-060551	1825	-		F	5.5.0	5.6.0	R5-062395
RP-33	RP-060551	1826	-		F	5.5.0	5.6.0	R5-062046
RP-33	RP-060560	1827	-	CR to 34.123-3: GERAN additional bands for interRAT test	F	5.5.0	5.6.0	R5-062537
RP-34	RP-060744	1828	-	CR to 34.123-3, Corrections of ASP and EDCH configurations	F	6.0.0	6.1.0	R5-063063
RP-34	RP-060734	1829	-		F	6.0.0	6.1.0	R5-063375
RP-34	RP-060734	1830	-	CR to 34.123-3: New annex guidance to TC executions	F	6.0.0	6.1.0	R5-063546
RP-34	RP-060741		-	CR to 34.123-3: Add new verified and e-mail agreed				
		1831		TTCN test cases in the TC lists in 34.123-3 (prose), Annex A	F	6.0.0	6.1.0	-
RP-34	RP-060745	1832	-		В	6.0.0	6.1.0	R5s060311
RP-34	RP-060745	1833	_	Addition of EDCH test case 8.2.6.50 to HSU ATS v5.5.0	В	6.0.0	6.1.0	R5s060304
	RP-060745		-	Addition of E-DCH RRC test case 8.3.1.41 to	В	6.0.0	6.1.0	R5s060286
RP-34		1834		IU20 ENU VI2 V2'2'0	0	0.0.0		
RP-34	RP-060745	1834	-	HSU_ENH ATS v5.5.0 Addition of E-DCH InterRAT test case 8.3.11.14 to HSU_ENH_r6 ATS.	В	6.0.0	6.1.0	R5s060272

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RP-34	RP-060745	1837	-	Addition of GCF WI-25 E-DCH test case 8.2.1.35 to HSU_ENH_r6 ATS.	В	6.0.0	6.1.0	R5s060270
RP-34	RP-060736	1838	-	Addition of GCF WI10 RRC test case 8.2.6.38 to RRC ATS v6.0.0	В	6.0.0	6.1.0	R5s060295
RP-34	RP-060736	1839	-	Addition of GCF WI10 RRC test case 8.4.1.28 to RRC ATS v6.0.0	В	6.0.0	6.1.0	R5s060265
RP-34	RP-060736	1840	-	Addition of GCF WI10 RRC test case 6.1.2.4 to RRC ATS v6.0.0	В	6.0.0	6.1.0	R5s060257
RP-34	RP-060738	1841	-	Addition of HSDPA RAB test case 14.6.7 to HSD_ENH ATS v5.5.0	В	6.0.0	6.1.0	R5s060313
RP-34	RP-060740	1842	-	Addition of DSAC test case 8.1.2.16 to HSU_ENH_r6 ATS.	В	6.0.0	6.1.0	R5s060288
RP-34	RP-060740	1843	-	Addition of DSAC test case 12.4.2.12 to HSU_ENH_r6 ATS	В	6.0.0	6.1.0	R5s060283
RP-34	RP-060740	1844	-	Addition of DSAC test case 12.4.2.11 to HSU_ENH_r6 ATS.	В	6.0.0	6.1.0	R5s060281
RP-34	RP-060740	1845	-	Addition of GCF WI-24 DSAC test case 12.9.15 to HSU ATS v6.0.0	В	6.0.0	6.1.0	R5s060263
RP-34 RP-34	RP-060740 RP-060740	1846	-	Addition of DSAC test case 9.4.3.6 to HSU_ENH_ATS V5.5.0	В	6.0.0	6.1.0	R5s060251
		1847	-	Addition of DSAC test case 12.2.1.12 to HSU_ENH_ATS V6.0.0	В	6.0.0	6.1.0	R5s060246
RP-34 RP-34	RP-060740 RP-060736	1848 1849	-	Addition of DSAC test case 9.5.9 to HSU_ENH_ATS V6.0.0 Correction to GCF WI-10 IR-U Test Case 8.3.7.1	B	6.0.0	6.1.0 6.1.0	R5s060244 R5s060338
RP-34	RP-060736		-	Summary of regression errors in wk38 GCF WI-10				
RP-34	DD 060726	1850	-	and WI-12 ATS	F	6.0.0	6.1.0 6.1.0	R5s060337
RP-34	RP-060736 RP-060736	1851 1852	-	Correction to SMS testcase 16.2.1 Correction to the NAS Test Case 12.9.12 and 12.9.13		6.0.0	6.1.0	R5s060320 R5s060334
RP-34	RP-060736	1853	-	Corrections to GCF WI-10 Test Cases 8.1.10.1 and 7.1.1.8	F	6.0.0	6.1.0	R5s060334
RP-34	RP-060736	1854	-	Introduction of Band 6 to test cases	F	6.0.0	6.1.0	R5s0603324
RP-34	RP-060736	1855	-	Summary of Regression Errors in RLC wk38 ATS	F	6.0.0	6.1.0	R5s060331
RP-34	RP-060736	1856	-	Corrections to GCF WI-12 RRC Test Cases 8.2.6.39 & 8.2.6.44	F	6.0.0	6.1.0	R5s060330
RP-34	RP-060736	1857	-	Correction to GCF WI-10 RRC Test Case 6.1.1.7	F	6.0.0	6.1.0	R5s060325
RP-34	RP-060736	1858	-	Correction to approved GCF WI-12/1 RAB test case 14.2.58a	F	6.0.0	6.1.0	R5s060321
RP-34	RP-060736	1859	-	Summary of regression errors in the wk38 InterRAT ATSs.	F	6.0.0	6.1.0	R5s060315
RP-34	RP-060736	1860	-	Summary of regression errors in wk38 GCF WI-10 and GCF WI-12 ATS	F	6.0.0	6.1.0	R5s060309
RP-34	RP-060736	1861	-	Correction to the RRC test case 8.4.1.8	F	6.0.0	6.1.0	R5s060307
RP-34	RP-060736	1862	-	Corrections to GCF WI-10 RAB testcases 14.4.2.3 and 14.4.2a.3	F	6.0.0	6.1.0	R5s060308
RP-34	RP-060736	1863	-	Correction to IR_U testcase 8.4.1.48	F	6.0.0	6.1.0	R5s060302
RP-34 RP-34	RP-060736 RP-060736	1864 1865	-	Correction of GCF WI-10 RRC testcase 8.1.10.1 Correction to GCF WI-12 RRC Test Case 8.3.1.30	F F	6.0.0	6.1.0 6.1.0	R5s060303 R5s060306
RP-34	RP-060737	1866	-	Correction to IR_U testcases for XID negotiation	F	6.0.0	6.1.0	R5s060306
RP-34	RP-060737	1867	-	Correction to RRC testcase 8.2.2.9	F	6.0.0	6.1.0	R5s060299
RP-34	RP-060737	1868	-	Correction to RRC testcase 8.3.1.30	F	6.0.0	6.1.0	R5s060300
RP-34	RP-060737	1869	-	iWD_wk36 ATS Regression Errors Corrections	F	6.0.0	6.1.0	R5s060294
RP-34	RP-060737	1870	-	Summary of regression errors in the wk36 IR_U_r3 ATS.	F	6.0.0	6.1.0	R5s060290
RP-34	RP-060737	1871	-	TTCN Correction to GCF WI-10 RRC Test Cases 8.1.1.4, 8.1.1.5 and 8.1.1.6	F	6.0.0	6.1.0	R5s060292
RP-34	RP-060737	1872	-	TTCN correction to GCF WI-10 RRC Test Cases 8.1.2.2 and 8.1.2.9	F	6.0.0	6.1.0	R5s060293
RP-34	RP-060737	1873	-	Correction to WI 10/2 RRC testcase 8.4.1.8	F	6.0.0	6.1.0	R5s060285
RP-34	RP-060737	1874	-	Summary of regression errors in wk36 GCF WI-10 and GCF WI-12 ATS	F	6.0.0	6.1.0	R5s060274
RP-34	RP-060737	1875	-	Summary of Regression Errors in wk36 ATS	F	6.0.0	6.1.0	R5s060280
RP-34	RP-060737	1876	-	Correction to approved GCF WI-010 Test Case 16.2.1	F	6.0.0	6.1.0	R5s060278
RP-34	RP-060737	1877	<u> </u>	Correction to GCF WI-12 RRC Test Case 8.2.2.43	F	6.0.0	6.1.0	R5s060279
RP-34 RP-34	RP-060737 RP-060737	1878	-	Correction to testcase 14.2.58 TTCN CR to extend Guard Timer for GCF WI-10 and	F	6.0.0	6.1.0	R5s060267
		1879	-	12 RRC & RAB Test Cases	F	6.0.0	6.1.0	R5s060261
RP-34 RP-34	RP-060738 RP-060738	1880	+	Correction to testcase 8.2.6.48 Correction of PDP_Context_Status mandatory IE for	F	6.0.0	6.1.0	R5s060335
KF-34	NF-000/30	1881	[Rel 5 and above	F	6.0.0	6.1.0	R5s060333
	1	. 55 1	1	Corrections to GCF WI-14/1 test case 8.3.11.9		6.0.0	6.1.0	. 10000000

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RP-34	RP-060738	1883	-	Corrections to GCF WI 14/1 test case 8.2.3.35	F	6.0.0	6.1.0	R5s060310
RP-34	RP-060738		-	Correction to GCF WI 14 RRC testcases in Non				
		1884		Ciphering path.	F	6.0.0	6.1.0	R5s060301
RP-34	RP-060738	1885	-	Correction to HSDPA MRAT testcase 8.3.7.14	F	6.0.0	6.1.0	R5s060297
RP-34	RP-060738	4000	-	Summary of regression errors in wk36 HSD_ENH	_	0.00	0.4.0	D5-000077
RP-34	RP-060738	1886	_	ATS TTCN CR to extend Guard Timer for GCF WI-14 RAB	F	6.0.0	6.1.0	R5s060277
KF-34	KF-000736	1887	[Test Case	F	6.0.0	6.1.0	R5s060262
RP-34	RP-060745	1001	-	Addition of E-DCH MAC test case 7.1.6.2.7 to		0.0.0	0	
		1888		HSU_ENH ATS v6.0.0	В	6.0.0	6.1.0	R5s060343
RP-34	RP-060745		-	Addition of E-DCH MAC test case 7.1.6.2.4 to				
	DD 000-0-	1889		HSU_ENH ATS v6.0.0	В	6.0.0	6.1.0	R5s060347
RP-34	RP-060737	1890	-	Correction to approved GCF WI-10/3 RRC test case 6.1.2.6	F	6.0.0	6.1.0	R5s060339
RP-34	RP-060737	1891	_	Correction to GCF WI-10 Idle Mode Test Case 6.1.2.8	•	6.0.0	6.1.0	R5s060339
RP-34	RP-060737	1892	-	Correction to GCF WI-10 Idle Mode Fest Case 0.1.2.0	F	6.0.0	6.1.0	R5s060342
RP-34	RP-060737	1002	-	Corrections of approved GCF WI-12 test case	•	0.0.0	0.1.0	1100000042
• .		1896		8.2.2.43.	F	6.0.0	6.1.0	R5s060317
RP-34	RP-060737	1897	-	Correction to GCF WI-10 RRC Test Case 8.4.1.8	F	6.0.0	6.1.0	R5s060322
RP-35	RP-070099	1898		Addition of GCF WI-25 HSUPA MAC Test Case	В	6.1.0	6.2.0	R5s060401
				7.1.6.4.3				
RP-35	RP-070099	1899		Addition of GCF WI-25 RAB Test Case 14.7.4	В	6.1.0	6.2.0	R5s060399
RP-35	RP-070099	1900		Addition of GCF WI-25 HSUPA Test Case 7.1.6.2.10	В	6.1.0	6.2.0	R5s060378
RP-35	RP-070099	1901		Addition of GCF WI-25 HSUPA MAC Test Case 7.1.6.4.2	В	6.1.0	6.2.0	R5s060395
RP-35	RP-070099	1902		Addition of GCF WI-25 HSUPA Test Case 8.2.2.45	В	6.1.0	6.2.0	R5s060384
RP-35	RP-070099	1902		Addition of GCF WI-25 HSUPA MAC Test Case	В	6.1.0	6.2.0	R5s060380
141 00	111 070000	1000		7.1.6.1.3		0.1.0	0.2.0	110000000
RP-35	RP-070099	1904		Addition of GCF WI-25 HSUPA MAC Test Case 7.1.6.2.8	В	6.1.0	6.2.0	R5s060376
RP-35	RP-070099	1905		Addition of GCF WI-25 HSUPA Test Case 7.1.6.2.9	В	6.1.0	6.2.0	R5s060381
RP-35	RP-070106	1906		Addition of GCF WI-10 Idle mode test case 6.1.2.9a	В	6.1.0	6.2.0	R5s070027
RP-35	RP-070106	1907		Addition of GCF WI-10 Idle mode test case 6.1.2.9b	В	6.1.0	6.2.0	R5s070029
RP-35	RP-070110	1908		Addition of WB-AMR RAB test case 14.2.4b to	В	6.1.0	6.2.0	R5s070033
				HSD_ENH_r5 ATS V6.1.0				
RP-35	RP-070099	1909		Addition of E-DCH RAB test case 14.7.5 to	В	6.1.0	6.2.0	R5s060328
DD 05	RP-070099	1910		HSU_ENH_r6 ATS V6.0.0	_	6.1.0	0.00	DF-00000
RP-35	RP-070099	1910		Addition of E-DCH RAB test case 14.7.2 to HSU ENH r6 ATS V6.0.0	В	6.1.0	6.2.0	R5s060326
RP-35	RP-070099	1911		Addition of E-DCH MAC test case 7.1.6.3.1 to	В	6.1.0	6.2.0	R5s060364
141 00	111 070000	1011		HSU_ENH_r6 ATS V6.0.0		0.1.0	0.2.0	1100000001
RP-35	RP-070099	1912		Addition of E-DCH MAC test case 7.1.6.1.2 to	В	6.1.0	6.2.0	R5s060362
				HSU_ENH_r6 ATS V6.0.0				
RP-35	RP-070099	1913		Addition of E-DCH MAC test case 7.1.6.1.1 to	В	6.1.0	6.2.0	R5s060360
	DD 070000			HSU_ENH_r6 ATS V6.0.0				D= 000/0/
RP-35	RP-070099	1914		Correction to GCF WI-025 test case 8.3.1.41	F	6.1.0	6.2.0	R5s060404
RP-35 RP-35	RP-070099 RP-070106	1915 1916		Correction to GCF WI-25 RAB Test Case 14.7.5	F F	6.1.0 6.1.0	6.2.0	R5s060408 R5s060406
RP-35	RP-070106	1916		Summary of Regression Errors in NAS wk49 ATS Summary of regression errors in wk49 ATS	F	6.1.0	6.2.0 6.2.0	R5s060405
RP-35	RP-070106	1917		Correction to GCF WI-10 SMS test case 16.3	F	6.1.0	6.2.0	R5s070005
RP-35	RP-070106	1919		Correction to GCF WI-10 SMS test case 16.3	F	6.1.0	6.2.0	R5s070006
55	7.0100	.5.5		16.1.2		3. 1.0	0.2.0	. 10007 0000
RP-35	RP-070106	1920		Correction to GCF WI-10 RRC test case 6.1.2.3	F	6.1.0	6.2.0	R5s070007
RP-35	RP-070106	1921		Summary of regression errors in wk49 IRAT ATSs.	F	6.1.0	6.2.0	R5s070004
RP-35	RP-070106	1922		Correction to GCF WI-10 NAS Test Case 12.9.12	F	6.1.0	6.2.0	R5s070001
RP-35	RP-070106	1923		Correction to GCF WI-10 RRC Test Case 8.4.1.25	F	6.1.0	6.2.0	R5s070002
DD 05	DD 070400	4001		and 8.4.1.48	_	0.4.0	0.00	DE-070000
RP-35	RP-070106	1924		Correction to GCF WI-10 RAB Test Case 14.2.58	F	6.1.0	6.2.0	R5s070003
RP-35	RP-070099	1925		Correction to GCF WI-025 test case 14.7.4	F	6.1.0	6.2.0	R5s070019
RP-35 RP-35	RP-070106 RP-070106	1926 1927	-	Correction to GCF WI-10 RRC Test Case 8.4.1.2 Correction to GCF WI-10 IR-U Test Case 12.8	F F	6.1.0 6.1.0	6.2.0 6.2.0	R5s070026 R5s070025
RP-35	RP-070106	1927		Correction to GCF WI-10 IR-0 Test Case 12.8 Corrections to GCF WI-17 DTM test case 8.3.7.17	F	6.1.0	6.2.0	R5s070023
RP-35	RP-070106	1929		Correction to approved test case 8.4.1.8	F	6.1.0	6.2.0	R5s070020
RP-35	RP-070106	1930		Correction to approved test case 8.2.6.38	F	6.1.0	6.2.0	R5s070021
RP-35	RP-070106	1931		Correction to the NAS test case 9.2.2	F.	6.1.0	6.2.0	R5s070011
RP-35	RP-070106	1932		Correction to NAS test cases 12.4.1.1b and 12.9.9	F.	6.1.0	6.2.0	R5s070012
RP-35	RP-070106	1933		Correction to RRC testcase 8.4.1.2	F	6.1.0	6.2.0	R5s070013
RP-35	RP-070106	1934			F	6.1.0	6.2.0	R5s070014
		1		12.4.2.12				
RP-35	RP-070107	1935		Correction to AGPS ASP	F	6.1.0	6.2.0	R5s070015
DD 05	DD 070407	4000	ļ	Retri_GPS_AssistanceData_CNF	_	0.4.0	0.00	DE-070017
RP-35	RP-070107	1936	<u> </u>	Correction to the RRC testcase 8.3.4.8	F	6.1.0	6.2.0	R5s070017

Meet-	TSG doc	CR	Rev	Subject	Cat	Old vers	New vers	WG doc
RP-35	RP-070107	1937		Summary of Regression Errors in wk49 ATSs	F	6.1.0	6.2.0	R5s070018
RP-35	RP-070107	1938		Introduction of Band 8	F	6.1.0	6.2.0	R5s070008
RP-35	RP-070107	1939		Correction of CC procedure for multimedia calls	F	6.1.0	6.2.0	R5s070010
RP-35	RP-070110	1940		Correction to RRC TC 8.3.4.9 to avoid possible radio link failure.	F	6.1.0	6.2.0	R5s070022
RP-35	RP-070110	1941		Correction to GCF WI-14 HSDPA Test Case 14.6.4a	F	6.1.0	6.2.0	R5s070024
RP-35	RP-070107	1942		Step enhancement for the introduction of InterBand Test cases	F	6.1.0	6.2.0	R5s070031
RP-35	RP-070107	1943		Correction to GCF WI-10 RRC Test Case 8.3.1.5	F	6.1.0	6.2.0	R5s070039
RP-35	RP-070107	1944		Correction to Inter-RAT testcase 8.3.7.3	F	6.1.0	6.2.0	R5s070038
RP-35	RP-070110	1945		Correction to GCF WI-13 Test Case 8.3.1.40	F	6.1.0	6.2.0	R5s070040
RP-35	RP-070110	1946		Correction to Idle mode testcase 6.1.2.10	F	6.1.0	6.2.0	R5s070036
RP-35	RP-070112	1947		Correction to DSAC RRC testcase 8.1.2.16	F	6.1.0	6.2.0	R5s070037
RP-35	RP-070110	1948		Correction to test case 8.2.6.39b & 8.3.4.9	F	6.1.0	6.2.0	R5s070041
RP-35	RP-070107	1949		Correction to the NAS Test Case 12.3.2.1	F	6.1.0	6.2.0	R5s060352
RP-35	RP-070107	1950		Correction to GCF WI-012 test case 12.3.2.7	F	6.1.0	6.2.0	R5s060351
RP-35	RP-070107	1951		Correction to approved GCF WI-10 test case 8.3.7.1.	F	6.1.0	6.2.0	R5s060345
RP-35	RP-070107	1952		Correction of approved GCF WI-010 test case 8.1.7.1c	F	6.1.0	6.2.0	R5s060316
RP-35	RP-070107	1953		Correction to GCF WI-12 MAC Test Case 7.1.3.2	F	6.1.0	6.2.0	R5s060354
RP-35	RP-070107	1954		Correction to QOS checking for UE not support AT commands to start MO PS call	F	6.1.0	6.2.0	R5s060353
RP-35	RP-070112	1955		Correction to GCF WI-24 DSAC Test Case 12.4.2.11	F	6.1.0	6.2.0	R5s060355
RP-35	RP-070107	1956		Summary of regression errors in wk43 ATS	F	6.1.0	6.2.0	R5s060341
RP-35	RP-070107	1957		Correction to GCF WI 10/2 RRC testcase 8.4.1.8	F	6.1.0	6.2.0	R5s060389
RP-35	RP-070107	1958		TTCN correction to GMM Test Case 12.4.1.4b	F	6.1.0	6.2.0	R5s060357
RP-35	RP-070107	1959		Summary of regression errors in wk47 IRAT ATSs.	F	6.1.0	6.2.0	R5s060372
RP-35	RP-070107	1960		Change of PDU type definition REGISTER used in MM test cases	F	6.1.0	6.2.0	R5s060388
RP-35	RP-070107	1961		Correction to GCF WI-10 RRC Test Case 8.4.1.25	F	6.1.0	6.2.0	R5s060374
RP-35	RP-070108	1962		Summary of Regression Errors in NAS wk47 ATS – Batch2	F	6.1.0	6.2.0	R5s060371
RP-35	RP-070108	1963		Summary of Regression Errors in NAS wk47 ATS	F	6.1.0	6.2.0	R5s060369
RP-35	RP-070108	1964		Summary of Regression Errors in RAB wk47 ATS	F	6.1.0	6.2.0	R5s060370
RP-35	RP-070108	1965		Correction to GCF WI-10 RRC Test Case 8.1.2.4	F	6.1.0	6.2.0	R5s060367
RP-35	RP-070108	1966		Correction to GCF WI-10 RRC Test Case 6.1.2.1	F	6.1.0	6.2.0	R5s060366
RP-35	RP-070110	1967		TTCN correction to GCF WI-014 RRC HSDPA Test Case 8.3.1.35	F	6.1.0	6.2.0	R5s060359
RP-35	RP-070110	1968		Summary of Regression Errors in HSDPA wk47 ATS	F	6.1.0	6.2.0	R5s060368
RP-35	RP-070099	1969		Corrections to E-DCH test case 14.7.1	F	6.1.0	6.2.0	R5s060403
RP-35	RP-070099	1970		Corrections to E-DCH test case 7.1.6.2.3 and 7.1.6.2.7	F	6.1.0	6.2.0	R5s060394
RP-35	RP-070099	1971		Summary of Regression Errors in HSU wk47 ATS	F	6.1.0	6.2.0	R5s060375
RP-35	RP-070108	1972		Correction to approved test case 8.4.1.2, 8.4.1.6, 8.4.1.24	F	6.1.0	6.2.0	R5s060391
RP-35	RP-070110	1973		Summary of regression errors in wk47 ATS	F	6.1.0	6.2.0	R5s060393
RP-35	RP-070110	1974		Correction to approved GCF WI-014 test case 8.2.6.48	F	6.1.0	6.2.0	R5s060392
RP-35	RP-070108	1975		Correction to RRC constraint 'cr_RRC_RrcConnSetupCmplRadioCap_BandList2' for Band VIII	F	6.1.0	6.2.0	R5s070035
RP-35	RP-070108	1976		Addition of GCF WI-010 P4 test case 8.2.6.37 to RRC ATS V6.1.0	В	6.1.0	6.2.0	R5s070050
RP-35	RP-070108	1977		Correction to GCF WI-10 NAS test cases using SETUP ul constraints	F	6.1.0	6.2.0	R5s070043
RP-35	RP-070108	1978		Correction to GCF WI-10 NAS test cases 9.1 and 12.9.7c	F	6.1.0	6.2.0	R5s070044
RP-35	RP-070108	1979		Correction to GCF WI-10 NAS test case 9.4.2.2 Procedure 2	F	6.1.0	6.2.0	R5s070045
RP-35	RP-070100	1981		CR to 34.123-3: Add new verified and e-mail agreed TTCN test cases in the TC lists in 34.123-3 (prose), Annex A	F	6.1.0	6.2.0	-
RP-35	RP-070108	1982		Correction to the MAC suite for Band VI	F	6.1.0	6.2.0	R5s070052
RP-35	RP-070108	1983		Summary of regression errors in 07wk03 ATSs	F	6.1.0	6.2.0	R5s070053
RP-35	RP-070108	1984		Cell setup issue in 15 Idle Mode, RRC and NAS test cases	F	6.1.0	6.2.0	R5s070054
RP-35	RP-070108	1985		Correction to RRC testcase 6.1.2.6	F	6.1.0	6.2.0	R5s070059
RP-35	RP-070108	1986		Correction to constraint cr_UE_CapabilityInfoAM_BandList2 for Band VIII	F	6.1.0	6.2.0	R5s070061
RP-35	RP-070108	1987		Corrections to wk03 AGPS ATS	F	6.1.0	6.2.0	R5s070032
RP-35	RP-070108	1988		Recovering LAI checking in RRC CONNECTION	F	6.1.0	6.2.0	R5s070057
				REQUEST in 8.1.2.x. test cases				

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RP-35	RP-070108	1989		Correction to RRC testcase 8.4.1.2	F	6.1.0	6.2.0	R5s070056
RP-35	RP-070108	1990			F	6.1.0	6.2.0	R5s070042
RP-35	RP-070109	1991		Correction to remove dependency on px_CipheringOnOff in L2 test cases	F	6.1.0	6.2.0	R5s070055
RP-35	RP-070110	1992			F	6.1.0	6.2.0	R5s070060
RP-35	RP-070099	1993		Addition of GCF WI 25 RRC test case 8.2.3.36 to HSU_ENH_r6 ATS V6.1.0.	В	6.1.0	6.2.0	R5s070062
RP-35	RP-070099	1994		Addition of GCF WI-25 EDCH RRC test case 8.2.2.46	В	6.1.0	6.2.0	R5s070064
RP-35	RP-070109	1995		Correction to RLC Test case 7.2.3.35	F	6.1.0	6.2.0	R5s070058
RP-35	RP-070098	1996			F	6.1.0	6.2.0	R5-070033
RP-35	RP-070087	1997		MBMS test model and ASP	F	6.1.0	6.2.0	R5-070460
RP-35	RP-070103	1998		Correction of Band VIII test and Max. number of Almanac data	F	6.1.0	6.2.0	R5-070400
RP-35	RP-070105	1999		Documentation of a test configuration and other corrections	F	6.1.0	6.2.0	R5-070401
RP-35	RP-070103	2000			F	6.1.0	6.2.0	R5-070091
RP-36	RP-070359	2001		Addition of GCF WI 25 test case 8.3.4.10 to HSU_ENH_r6 ATS V6.1.0.	В	6.2.0	6.3.0	R5s070047
RP-36	RP-070359	2002		Addition of RRC test case 8.2.6.54 to HSD_ENH_r5 ATS V6.1.0	В	6.2.0	6.3.0	R5s070112
RP-36	RP-070359	2003			В	6.2.0	6.3.0	R5s070079
RP-36	RP-070359	2004			В	6.2.0	6.3.0	R5s070140
RP-36	RP-070359	2005		v6.1.0	В	6.2.0	6.3.0	R5s070103
RP-36	RP-070347	2006		Addition of GCF WI-047 test case 8.4.1.25A to RRC ATS.	В	6.2.0	6.3.0	R5s070126
RP-36	RP-070347	2007		ATS.	В	6.2.0	6.3.0	R5s070122
RP-36	RP-070347	2008		ATS.	В	6.2.0	6.3.0	R5s070120
RP-36	RP-070347	2009		Addition of GCF WI-047 test case 8.2.1.24a to RRC ATS.	В	6.2.0	6.3.0	R5s070118
RP-36	RP-070347	2010		Addition of GCF WI-047 test case 6.1.2.10a to HSDPA ATS.	В	6.2.0	6.3.0	R5s070085
RP-36	RP-070347	2011		Addition of GCF WI-047 test case 8.1.2.10a to RRC ATS.	В	6.2.0	6.3.0	R5s070083
RP-36	RP-070347	2012		Addition of GCF WI-047 test case 6.1.2.1a to RRC ATS.	В	6.2.0	6.3.0	R5s070081
RP-36	RP-070347	2013		Addition of GCF WI10 RRC test case 8.4.1.42 to RRC ATS v6.1.0	В	6.2.0	6.3.0	R5s070109
RP-36	RP-070352	2014		Addition of WB-AMR RAB test case 14.6.8 to HSD_ENH_r5 ATS V6.1.0	В	6.2.0	6.3.0	R5s070072
RP-36	RP-070352	2015		HSD_ENH_r5 ATS V6.1.0	В	6.2.0	6.3.0	R5s070077
RP-36	RP-070359	2016		Summary of regression errors in 07wk08 HSUPA ATS	F	6.2.0	6.3.0	R5s070069
RP-36	RP-070359	2017			F	6.2.0	6.3.0	R5s070071
RP-36	RP-070359	2018			F	6.2.0	6.3.0	R5s070130
RP-36	RP-070359	2019		Correction to test steps ts_InitVariablesHSU & ts_SS_ReIDPCH_E_HS	F	6.2.0	6.3.0	R5s070098
RP-36	RP-070359	2020		Correction to E-DCH testcases 7.1.6.4.3	F	6.2.0	6.3.0	R5s070095
RP-36	RP-070359	2021			F	6.2.0	6.3.0	R5s070138
RP-36 RP-36	RP-070359 RP-070347	2022 2023		Correction to E-DCH testcases 8.2.2.46 & 8.2.3.36 Correction to GCF WI-10 NAS Test Case 12.4.1.4a	F F	6.2.0 6.2.0	6.3.0	R5s070115 R5s070128
RP-36	RP-070347	2023		Correction to GCF WI-10 NAS Test Case 12.4.1.4a Correction to GCF WI-10 Test Cases 9.4.5.4.1, 6.1.2.9a and 6.1.2.9b	F	6.2.0	6.3.0	R5s070129
RP-36	RP-070347	2025			F	6.2.0	6.3.0	R5s070111
RP-36	RP-070347	2026		Summary of regression errors in wk08 ATS	F	6.2.0	6.3.0	R5s070090
RP-36	RP-070347	2027		Correction to GCF WI-10 RRC Test Case 12.9.6 , 12.4.2.4 , 12.2.1.4.1	F	6.2.0	6.3.0	R5s070092
RP-36	RP-070347	2028		Summary of Regression Errors in wk08 ATSs	F	6.2.0	6.3.0	R5s070087
RP-36	RP-070347	2029		Improvement on Guard Timer Timeout Handling	F	6.2.0	6.3.0	R5s070093
RP-36	RP-070347	2030			F	6.2.0	6.3.0	R5s070134
RP-36	RP-070347	2031		Correction to GCF WI-10 NAS test case 9.4.2.2 Procedure 2	F	6.2.0	6.3.0	R5s070100
RP-36	RP-070347	2032		Correction to RRC testcase 8.4.1.8 & 8.4.1.28	F	6.2.0	6.3.0	R5s070097
RP-36	RP-070348	2033			F	6.2.0	6.3.0	R5s070096
RP-36	RP-070348	2034		Removal of pc_MS_ClsmkFreqCap	F	6.2.0	6.3.0	R5s070094
RP-36	RP-070348	2035			F	6.2.0	6.3.0	R5s070049
RP-36	RP-070348	2036		Alignment of TTCN implementation of default radio configurations	F	6.2.0	6.3.0	R5s070135

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RP-36	RP-070348	2037		Corrections to AGPS test cases 17.2.x (GCF WI-015)	F	6.2.0	6.3.0	R5s070075
RP-36	RP-070348	2038		Correction to RAB Test cases 14.4.2.1 and 14.4.2a.1	F	6.2.0	6.3.0	R5s070099
RP-36	RP-070348	2039		Correction to MRAT Idle mode testcases 6.2.1.1 and 6.2.1.6	F	6.2.0	6.3.0	R5s070066
RP-36	RP-070348	2040		Further correction to QOS checking for UE not support AT commands to start MO PS call	F	6.2.0	6.3.0	R5s070139
RP-36	RP-070348	2041		Rel-6 baseline upgrade	F	6.2.0	6.3.0	R5s070132
RP-36	RP-070348	2042		Summary of regression errors in wk11 ATS	F	6.2.0	6.3.0	R5s070142
RP-36	RP-070348	2043		Summary of regression errors in the wk08 HSDPA	F	6.2.0	6.3.0	R5s070067
RP-36	RP-070348	2044		InterRAT ATS Correction to GCF WI-10 Idle Mode test case 6.1.1.7	F	6.2.0	6.3.0	R5s070114
RP-36		2044						
	RP-070348			Correction to GCF WI-10 NAS Test Case 12.2.1.6 Proc 1 and 2	F	6.2.0	6.3.0	R5s070107
RP-36	RP-070348	2046		Correction to GCF WI-10 SMS Test Case 16.2.1	F	6.2.0	6.3.0	R5s070117
RP-36	RP-070348	2047		Corrections to the GCF WI-010 P4 test case 8.2.6.37	F	6.2.0	6.3.0	R5s070074
RP-36	RP-070352	2048		Correction to UM constraints used with type CRLC_Config_Req	F	6.2.0	6.3.0	R5s070070
RP-36	RP-070352	2049		Summary of regression errors in wk-11 MAC ATS	F	6.2.0	6.3.0	R5s070131
RP-36	RP-070352	2050		Correction to approved 8.2.6.39a and 8.2.6.39b test	F	6.2.0	6.3.0	R5s070076
				cases				
RP-36	RP-070352	2051		Correction to WB-AMR RAB test cases 14.2.62,14.2.4b and 14.6.8	F	6.2.0	6.3.0	R5s070136
RP-36	RP-070352	2052	<u></u>	Correction of approved GCF WI14 test case 8.3.7.14.	F	6.2.0	6.3.0	R5s070105
RP-36	RP-070352	2053		Corrections to WB-AMR RAB test cases 14.2.4b and 14.2.62	F	6.2.0	6.3.0	R5s070108
RP-36	RP-070348	2054		Correction to GCF WI-10 NAS Test Case 12.8	F	6.2.0	6.3.0	R5s070143
RP-36	RP-070348	2055		Correction to GCF WI-10 RRC test case 8.2.6.8	F	6.2.0	6.3.0	R5s070137
RP-36	RP-070359	2056	-		F	6.2.0	6.3.0	R5s070144
				Correction to GCF WI-25 test case 7.1.6.2.2				
RP-36	RP-070348	2057		Correction to GCF WI-10 Test Case 8.2.6.37, 8.2.6.38	F	6.2.0	6.3.0	R5s070145
RP-36	RP-070347	2058		Addition of GCF WI-047 test case 8.4.1.24A to RRC ATS.	В	6.2.0	6.3.0	R5s070124
RP-36	RP-070348	2059		Correction to GCF WI-10 Idle Mode Test Case 6.1.2.6	F	6.2.0	6.3.0	R5s070146
RP-36	RP-070347	2060		Addition of GCF WI-047 test case 8.2.6.37b to RRC ATS	В	6.2.0	6.3.0	R5s070149
RP-36	RP-070359	2061		Correction to approved 7.1.6.4.3 test case	F	6.2.0	6.3.0	R5s070148
RP-36	RP-070352	2062		Corrections to GCF WI-13 and WI-14 WB-AMR Test Cases 14.2.4b,14.2.62 and 14.6.8	F	6.2.0	6.3.0	R5s070147
RP-36	RP-070355	2063		CR to 34.123-3: Add new verified and e-mail agreed TTCN test cases in the TC lists in 34.123-3 (prose),	F	6.2.0	6.3.0	-
RP-36	RP-070358	2064		Annex A ASP enhancement for configuration of stand-alone	F	6.2.0	6.3.0	R5-071030
RP-36	RP-070346	2065		UL-DPCH Documentation of TSO and recovering errorneously	F	6.2.0	6.3.0	R5-071433
				removed IE in ASP				
RP-36	RP-070354	2066		Editorial corrections in the reference list	F	6.2.0	6.3.0	R5-071445
RP-36	RP-070361	2067		Allocation of channel Id for MBMS test	F	6.2.0	6.3.0	R5-071461
RP-36	RP-070346	2068		Guideline on MCC setting for the Primary band cell	F	6.2.0	6.3.0	R5-071478
RP-37	RP-070605	2069	-	Add a new ASP for MBMS test	F	6.3.0	6.4.0	R5-072050
RP-37	RP-070593	2070	-	RoHC test model and ASP	F	6.3.0	6.4.0	R5-072051
RP-37	RP-070589	2071	-	Addition of ASP for FMO & addition of IE paging cycle splitting	F	6.3.0	6.4.0	R5-072466
RP-37	RP-070593	2072	<u> </u>	Correction to RB identities mapping	F	6.3.0	6.4.0	R5-072337
RP-37	RP-070598	2072	L	CR to 34.123-3: Add new verified and e-mail agreed	F	6.3.0	6.4.0	-
KF-31	KF-070596	2073	-	TTCN test cases in the TC lists in 34.123-3 (prose), Annex A		0.3.0		-
RP-37	RP-070590	2074	-	TTCN Correction in testcases 8.3.7.16, 8.3.7.17	F	6.3.0	6.4.0	R5s070209
RP-37	RP-070590	2075	-	Correction to GCF WI-10 RRC test case 8.4.1.14	F	6.3.0	6.4.0	R5s070199
RP-37	RP-070595	2076	-	Corrections to GCF WI-14 HSD Test Cases 8.3.1.40	F	6.3.0	6.4.0	R5s070179
RP-37	RP-070590	2077	 	TTCN Correction in testcases 8.1.7.1c, 8.2.6.39,	F	6.3.0	6.4.0	R5s070187
_				8.2.6.44, 8.3.1.25, 8.3.1.30				
RP-37	RP-070590	2078	-	Correction to RRC testcase 8.2.6.37 & 8.2.6.38	F	6.3.0	6.4.0	R5s070198
RP-37	RP-070590	2079		Correction to IR_U and IR_G test suites to support split paging cycle on CCCH	F	6.3.0	6.4.0	R5s070190
RP-37	RP-070603	2080	-	Correction to GCF WI-25 HSUPA test case 8.2.6.54	F	6.3.0	6.4.0	R5s070173
RP-37	RP-070590	2081	-	Correction to test step 'ts_AT_CmdCBST' for setting correct speed in case of 3G324M Call.	F	6.3.0	6.4.0	R5s070200
RP-37	RP-070590	2082	-	Correction to the test cases to enable Fach	F	6.3.0	6.4.0	R5s070189
DE 0-	DD 6=6==	000-		Measurement Occasion in the SS	-	0.00	0.4.5	DE 6551=-
RP-37	RP-070590	2083	-	Corrections to GCF WI-10 Test Cases 8.4.1.14	F	6.3.0	6.4.0	R5s070172
RP-37	RP-070590	2084	-	Corrections to GCF WI-14 RAB Testcase 14.6.3,	F	6.3.0	6.4.0	R5s070195
				14.6.3a, 14.6.4, 14.6.4a, 14.6.7, 14.6.8		<u> </u>		

Meet- ing	TSG doc	CR	Rev	Subject	Cat	Old vers	New vers	WG doc
RP-37	RP-070590	2085	-	Correction to PDU loopback control timer used in RAB test cases	F	6.3.0	6.4.0	R5s070197
RP-37	RP-070590	2086	-	TTCN Correction in SMS testcase 16.1.1	F	6.3.0	6.4.0	R5s070188
RP-37	RP-070606	2087	-	Enhancement for new MBMS cells	F	6.3.0	6.4.0	R5s070184
RP-37	RP-070590	2088	-	Correction to GCF WI-15 AGPS test cases (17.2.4.1 to 9)	F	6.3.0	6.4.0	R5s070196
RP-37	RP-070590	2089	-	Corrections to GCF Interband Test Cases 6.1.2.1a and 6.1.2.10a for Band9	F	6.3.0	6.4.0	R5s070191
RP-37	RP-070590	2090	-	Corrections to GCF WI-10 Test Cases 8.4.1.8	F	6.3.0	6.4.0	R5s070180
RP-37	RP-070590	2091	-	Correction to Interband Test Cases 8.4.1.24A	F	6.3.0	6.4.0	R5s070177
RP-37	RP-070590	2092	-	Corrections to GCF WI-12 Test Case 8.2.2.43	F	6.3.0	6.4.0	R5s070192
RP-37	RP-070590	2093	-	Summary of Regression Errors in wk23 ATSs	F	6.3.0	6.4.0	R5s070183
RP-37	RP-070590	2094	-	Summary of regression errors in wk23 ATS	F	6.3.0	6.4.0	R5s070166
RP-37	RP-070590	2095	-	TTCN Correction in testcases 8.2.2.41, 8.2.2.42, 8.2.3.31, 8.2.3.32, 8.2.3.33, 8.2.3.34, 8.2.3.35	F	6.3.0	6.4.0	R5s070175
RP-37	RP-070590	2096	-	Summary of regression errors in the wk23 IR_U ATS.	F	6.3.0	6.4.0	R5s070171
RP-37 RP-37	RP-070591	2097	-	Correction to MAC testcase 7.1.3.2	F	6.3.0	6.4.0	R5s070167 R5s070170
RP-37	RP-070603 RP-070591	2098 2099	-	Correction to E-DCH RRC testcase 8.3.4.10 Correction to RRC testcase 8.2.6.37, 8.2.6.37b & 8.4.1.14	F	6.3.0 6.3.0	6.4.0	R5s070170
RP-37	RP-070595	2100	1	Correction to RRC testcase 8.4.1.47	F	6.3.0	6.4.0	R5s070168
RP-37	RP-070595 RP-070595	2100	[Correction to RRC testcase 8.4.1.47 Correction to DSAC test cases	F	6.3.0	6.4.0	R5s070168
RP-37	RP-070595	2101	[Summary of Regression Errors in wk21 ATSs	F	6.3.0	6.4.0	R5s070165
RP-37	RP-070595	2102	-	Summary of regression errors in wk21 ATS	F	6.3.0	6.4.0	R5s070163
RP-37	RP-070591	2104	-	Summary of Regression Errors in wk17 ATSs	F	6.3.0	6.4.0	R5s070157
RP-37	RP-070591	2105	-	Corrections to GCF WI-10 Test Cases 8.4.1.8	F	6.3.0	6.4.0	R5s070161
RP-37	RP-070591	2106	-	Correction of approved GCF WI12 test case 8.2.6.44.	F	6.3.0	6.4.0	R5s070162
RP-37	RP-070603	2107	-	Addition of GCF WI-25 HSUPA test case 7.1.6.2.1 to HSU ATS v6.2.0	В	6.3.0	6.4.0	R5s070158
RP-37	RP-070603	2108	-	Addition of WB-AMR RAB test case 14.7.8 to HSU_ENH_r6 ATS V6.1.0	В	6.3.0	6.4.0	R5s070151
RP-37	RP-070591	2109	-	Summary of regression errors in wk18 ATS	F	6.3.0	6.4.0	R5s070154
RP-37	RP-070591	2110	-	Corrections to GCF WI-10 NAS Test Cases 9.4.8	F	6.3.0	6.4.0	R5s070155
RP-37	RP-070591	2111	-	Correction to BMC Test Cases 16.3 and 14.4.4	F	6.3.0	6.4.0	R5s070156
RP-37	RP-070591	2112	-	Correction of approved GCF WI12 test case 8.1.2.13.	F	6.3.0	6.4.0	R5s070153
RP-37	RP-070591	2113	-	Corrections to GCF WI-10 NAS Test Cases 8.3.9.1	F	6.3.0	6.4.0	R5s070213
RP-37	RP-070591	2114	-	Corrections to GCF WI-10 RRC test case 8.4.1.28	F	6.3.0	6.4.0	R5s070214
RP-37	RP-070591	2115	=	Cell setup issue in 16 Idle Mode, RRC and NAS test cases	F	6.3.0	6.4.0	R5s070210
RP-37	RP-070591	2116	-	Summary of regression errors in wk28 ATS	F	6.3.0	6.4.0	R5s070215
RP-37	RP-070591	2117	=	Addition of GCF WI-047 test case 8.3.1.1a to RRC ATS.	В	6.3.0	6.4.0	R5s070185
RP-37	RP-070591	2118	-	TTCN Correction in testcase 6.2.2.2	F	6.3.0	6.4.0	R5s070216
RP-37	RP-070591	2119	-	Addition of GCF WI-047 test case 8.3.2.1a to RRC ATS.	В	6.3.0	6.4.0	R5s070193
RP-37	RP-070603	2120	-	Addition of GCF WI-25 HSUPA test case 8.4.1.49 to HSU ATS v6.3.0	В	6.3.0	6.4.0	R5s070202
RP-38	RP-070873	2121		Correction of max bit rate in QoS and AT commands for different UE categories and other maintenance	F	6.4.0	6.5.0	R5-073030
RP-38	RP-070873	2122		Application of synchronized data sending on MTCH and other maintenance for MBMS	F	6.4.0	6.5.0	R5-073032
RP-38	RP-070860	2123		Handling RLP XID in CSD call	F	6.4.0	6.5.0	R5-073467
RP-38	RP-070860	2124		R99 routine maintenance for PIXIT etc	F	6.4.0	6.5.0	R5-073435
RP-38	RP-070864	2125		To add new RRC test case 8.2.1.8 to the LCR TDD RRC ATS	В	6.4.0	6.5.0	R5s070283
RP-38	RP-070864	2126		To add new GMM test case 12.7 to the LCR TDD NAS ATS	В	6.4.0	6.5.0	R5s070444
RP-38	RP-070864	2127		To add new RRC test case 8.1.1.1 to the LCR TDD RRC ATS	В	6.4.0	6.5.0	R5s070281
RP-38	RP-070864	2128		To add new GMM test case 12.2.1.1 to the LCR TDD NAS ATS	В	6.4.0	6.5.0	R5s070291
RP-38	RP-070864	2129		To add new test case 16.1.1 to the LCR TDD SMS ATS	В	6.4.0	6.5.0	R5s070293
RP-38	RP-070864	2130		To add new SM test case 11.1.1.1 to the LCR TDD NAS ATS	В	6.4.0	6.5.0	R5s070301
RP-38	RP-070864	2131		To add new test case 18.1.2.6 to the LCR TDD RAB ATS	В	6.4.0	6.5.0	R5s070295
RP-38	RP-070864	2132		To add new test case 7.1.1.1 to the LCR TDD MAC ATS	В	6.4.0	6.5.0	R5s070297
RP-38	RP-070864	2133		To add new test case 7.2.3.12 to the LCR TDD RLC ATS	В	6.4.0	6.5.0	R5s070299
RP-38	RP-070864	2134		To add new test case 13.2.1.1 to the LCR TDD NAS	В	6.4.0	6.5.0	R5s070303

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RP-38	RP-070864	2135		ATS To add new RRC test case 8.1.1.4 to the LCR TDD RRC ATS	В	6.4.0	6.5.0	R5s070309
RP-38	RP-070864	2136		To add new RRC test case 8.1.12 to the LCR TDD RRC ATS	В	6.4.0	6.5.0	R5s070307
RP-38	RP-070864	2137		To add new RRC test case 8.1.5.4 to the LCR TDD RRC ATS	В	6.4.0	6.5.0	R5s070323
RP-38	RP-070864	2138		To add new RRC test case 8.1.9 to the LCR TDD RRC ATS	В	6.4.0	6.5.0	R5s070325
RP-38	RP-070864	2139		To add new RRC test case 8.2.2.11 to the LCR TDD RRC ATS	В	6.4.0	6.5.0	R5s070331
RP-38	RP-070864	2140		To add new RRC test case 8.1.5.1 to the LCR TDD RRC ATS	В	6.4.0	6.5.0	R5s070321
RP-38	RP-070864	2141		To add new RRC test case 8.2.2.9 to the LCR TDD RRC ATS	В	6.4.0	6.5.0	R5s070329
RP-38	RP-070864	2142		To add new RRC test case 8.2.2.8 to the LCR TDD RRC ATS	В	6.4.0	6.5.0	R5s070327
RP-38	RP-070864	2143		To add new RRC test case 8.2.3.7 to the LCR TDD RRC ATS	В	6.4.0	6.5.0	R5s070335
RP-38	RP-070864	2144		To add new RRC test case 8.2.3.11 to the LCR TDD RRC ATS	В	6.4.0	6.5.0	R5s070339
RP-38	RP-070865	2145		To add new RRC test case 8.2.3.9 to the LCR TDD RRC ATS	В	6.4.0	6.5.0	R5s070337
RP-38	RP-070865	2146		To add new RRC test case 8.2.2.17 to the LCR TDD RRC ATS	В	6.4.0	6.5.0	R5s070333
RP-38	RP-070865	2147		To add new RRC test case 8.2.6.7 to the LCR TDD RRC ATS	В	6.4.0	6.5.0	R5s070347
RP-38	RP-070865	2148		To add new RRC test case 8.2.3.29 to the LCR TDD RRC ATS	В	6.4.0	6.5.0	R5s070345
RP-38	RP-070865	2149		To add new RRC test case 8.2.6.11 to the LCR TDD RRC ATS	В	6.4.0	6.5.0	R5s070349
RP-38	RP-070865	2150		To add new RRC test case 8.2.3.15 to the LCR TDD RRC ATS	В	6.4.0	6.5.0	R5s070341
RP-38	RP-070865	2151		To add new RRC test case 8.4.1.17 to the LCR TDD RRC ATS	В	6.4.0	6.5.0	R5s070353
RP-38	RP-070865	2152		To add new MM test case 9.2.1 to the LCR TDD NAS ATS	В	6.4.0	6.5.0	R5s070358
RP-38	RP-070865	2153		To add new RRC test case 8.2.6.20 to the LCR TDD RRC ATS	В	6.4.0	6.5.0	R5s070351
RP-38	RP-070865	2154		To add new RRC test case 8.4.1.24 to the LCR TDD RRC ATS	В	6.4.0	6.5.0	R5s070355
RP-38	RP-070865	2155		To add new MM test case 9.5.2 to the LCR TDD NAS ATS	В	6.4.0	6.5.0	R5s070362
RP-38	RP-070865	2156		To add new MM test case 9.4.4 to the LCR TDD NAS ATS	В	6.4.0	6.5.0	R5s070360
RP-38	RP-070865	2157			В	6.4.0	6.5.0	R5s070368
RP-38	RP-070865	2158		To add new CC test case 10.1.2.2.3 to the LCR TDD NAS ATS	В	6.4.0	6.5.0	R5s070370
RP-38	RP-070865	2159		To add new test case 13.2.2.2 to the LCR TDD NAS ATS	В	6.4.0	6.5.0	R5s070480
RP-38	RP-070865	2160		To add new RRC test case 8.4.1.16 to the LCR TDD RRC ATS	В	6.4.0	6.5.0	R5s070285
RP-38	RP-070865	2161		To add new CC test case 10.1.2.2.1 to the LCR TDD NAS ATS	В	6.4.0	6.5.0	R5s070366
RP-38	RP-070865	2162		To add new CC test case 10.1.2.4.6 to the LCR TDD NAS ATS	В	6.4.0	6.5.0	R5s070384
RP-38	RP-070865	2163		To add new CC test case 10.1.2.7.3 to the LCR TDD NAS ATS	В	6.4.0	6.5.0	R5s070408
RP-38	RP-070865	2164			В	6.4.0	6.5.0	R5s070440
RP-38	RP-070866	2165		To add new GMM test case 12.5 to the LCR TDD NAS ATS	В	6.4.0	6.5.0	R5s070442
RP-38	RP-070866	2166		To add new test case 7.1.1.8 to the LCR TDD MAC ATS	В	6.4.0	6.5.0	R5s070470
RP-38	RP-070866	2167		To add new test case 7.2.3.34 to the LCR TDD RLC ATS	В	6.4.0	6.5.0	R5s070474
RP-38	RP-070866	2168		To add new CC test case 10.1.3.3.1 to the LCR TDD NAS ATS	В	6.4.0	6.5.0	R5s070412
RP-38	RP-070866	2169			В	6.4.0	6.5.0	R5s070428
RP-38	RP-070866	2170		To add new RRC test case 8.1.1.7 to the LCR TDD RRC ATS	В	6.4.0	6.5.0	R5s070311

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RP-38	RP-070866	2171		To add new MM test case 9.1 to the LCR TDD NAS ATS	В	6.4.0	6.5.0	R5s070287
RP-38	RP-070866	2172		_	В	6.4.0	6.5.0	R5s070388
RP-38	RP-070866	2173		To add new GMM test case 12.4.1.1b to the LCR TDD NAS ATS	В	6.4.0	6.5.0	R5s070436
RP-38	RP-070866	2174		To add new SM test case 11.3.1 to the LCR TDD NAS ATS	В	6.4.0	6.5.0	R5s070476
RP-38	RP-070866	2175		To add new GMM test case 12.3.1.2 to the LCR TDD NAS ATS	В	6.4.0	6.5.0	R5s070430
RP-38	RP-070866	2176		To add new test case 16.1.9.2 to the LCR TDD SMS ATS	В	6.4.0	6.5.0	R5s070458
RP-38	RP-070866	2177		To add new CC test case 10.1.2.3.3 to the LCR TDD NAS ATS	В	6.4.0	6.5.0	R5s070376
RP-38	RP-070866	2178			В	6.4.0	6.5.0	R5s070378
RP-38	RP-070866	2179		To add new CC test case 10.1.2.3.2 to the LCR TDD NAS ATS	В	6.4.0	6.5.0	R5s070374
RP-38	RP-070866	2180			В	6.4.0	6.5.0	R5s070406
RP-38	RP-070866	2181		To add new GMM test case 12.9.4 to the LCR TDD NAS ATS	В	6.4.0	6.5.0	R5s070452
RP-38	RP-070866	2182		To add new GMM test case 12.9.2 to the LCR TDD NAS ATS	В	6.4.0	6.5.0	R5s070448
RP-38	RP-070866	2183			В	6.4.0	6.5.0	R5s070416
RP-38	RP-070866	2184		To add new RRC test case 8.1.3.3 to the LCR TDD RRC ATS	В	6.4.0	6.5.0	R5s070319
RP-38	RP-070867	2185			В	6.4.0	6.5.0	R5s070414
RP-38	RP-070867	2186			В	6.4.0	6.5.0	R5s070438
RP-38	RP-070867	2187			В	6.4.0	6.5.0	R5s070390
RP-38	RP-070867	2188		To add new test case 18.1.2.13.2 to the LCR TDD RAB ATS	В	6.4.0	6.5.0	R5s070462
RP-38	RP-070867	2189		To add new CC test case 10.1.2.4.10 to the LCR TDD NAS ATS	В	6.4.0	6.5.0	R5s070392
RP-38	RP-070867	2190			В	6.4.0	6.5.0	R5s070386
RP-38	RP-070867	2191		To add new RRC test case 8.1.3.1 to the LCR TDD RRC ATS	В	6.4.0	6.5.0	R5s070317
RP-38	RP-070867	2192			В	6.4.0	6.5.0	R5s070289
RP-38	RP-070867	2193		To add new CC test case 10.1.2.4.4 to the LCR TDD NAS ATS	В	6.4.0	6.5.0	R5s070382
RP-38	RP-070867	2194			В	6.4.0	6.5.0	R5s070460
RP-38	RP-070867	2195			В	6.4.0	6.5.0	R5s070398
RP-38	RP-070867	2196			В	6.4.0	6.5.0	R5s070422
RP-38	RP-070867	2197		To add new GMM test case 12.9.1 to the LCR TDD NAS ATS	В	6.4.0	6.5.0	R5s070446
RP-38	RP-070867	2198			В	6.4.0	6.5.0	R5s070394
RP-38	RP-070867	2199			В	6.4.0	6.5.0	R5s070400
RP-38	RP-070867	2200			В	6.4.0	6.5.0	R5s070402
RP-38	RP-070867	2201			В	6.4.0	6.5.0	R5s070410
RP-38	RP-070867	2202		To add new MM test case 9.5.4 to the LCR TDD NAS ATS	В	6.4.0	6.5.0	R5s070364
RP-38	RP-070867	2203			В	6.4.0	6.5.0	R5s070380
RP-38	RP-070867	2204			В	6.4.0	6.5.0	R5s070372
RP-38	RP-070868	2205			В	6.4.0	6.5.0	R5s070396
RP-38	RP-070868	2206		To add new test case 18.1.2.15 to the LCR TDD RAB ATS	В	6.4.0	6.5.0	R5s070464
RP-38	RP-070868	2207		To add new RRC test case 8.1.1.8 to the LCR TDD	В	6.4.0	6.5.0	R5s070313

RP-38 RF	RP-070868	2208 2209 2210 2211 2212 2213 2214 2215 2216 2217 2218 2219 2220 2221 2222 2223 2224	NAS ATS To add new test case 13.2.2.1 to the LCR TDD NAS ATS To add new RRC test case 8.2.3.19 to the LCR TDD RRC ATS To add new test case 16.1.2 to the LCR TDD SMS ATS To add new CC test case 10.1.2.7.1 to the LCR TDD NAS ATS To add new GMM test case 12.2.1.7 to the LCR TDD NAS ATS To add new test case 18.1.2.26 to the LCR TDD RAB ATS To add new test case 10.1.3.5.6 to the LCR TDD NAS ATS To add new test case 7.1.3.1 to the LCR TDD MAC ATS To add new GMM test case 12.9.3 to the LCR TDD MAC ATS To add new RRC test case 8.1.2.7 to the LCR TDD NAS ATS To add new RRC test case 10.1.3.4.1 to the LCR TDD NAS ATS To add new GMM test case 12.2.2.1 to the LCR TDD NAS ATS To add new GMM test case 12.2.2.1 to the LCR TDD NAS ATS To add new GMM test case 12.2.2.1 to the LCR TDD NAS ATS To add new GMM test case 12.2.2.1 to the LCR TDD NAS ATS	B B B B B B B B B B B B B B B B B B B	6.4.0 6.4.0 6.4.0 6.4.0 6.4.0 6.4.0 6.4.0 6.4.0 6.4.0 6.4.0 6.4.0 6.4.0	6.5.0 6.5.0 6.5.0 6.5.0 6.5.0 6.5.0 6.5.0 6.5.0 6.5.0 6.5.0 6.5.0 6.5.0	R5s070454 R5s070478 R5s070478 R5s070343 R5s070456 R5s070404 R5s070424 R5s070420 R5s070472 R5s070472 R5s070450 R5s070418 R5s070426 R5s070468
RP-38 RF	RP-070868	2210 2211 2212 2213 2214 2215 2216 2217 2218 2219 2220 2221 2222	NAS ATS To add new test case 13.2.2.1 to the LCR TDD NAS ATS To add new RRC test case 8.2.3.19 to the LCR TDD RRC ATS To add new test case 16.1.2 to the LCR TDD SMS ATS To add new CC test case 10.1.2.7.1 to the LCR TDD NAS ATS To add new GMM test case 12.2.1.7 to the LCR TDD NAS ATS To add new test case 18.1.2.26 to the LCR TDD RAB ATS To add new test case 10.1.3.5.6 to the LCR TDD NAS ATS To add new test case 7.1.3.1 to the LCR TDD NAS ATS To add new test case 8.1.2.7 to the LCR TDD NAS ATS To add new RRC test case 8.1.2.7 to the LCR TDD NAS ATS To add new RRC test case 8.1.2.7 to the LCR TDD NAS ATS To add new RRC test case 10.1.3.4.1 to the LCR TDD NAS ATS To add new GMM test case 12.2.2.1 to the LCR TDD NAS ATS To add new GMM test case 12.2.2.1 to the LCR TDD NAS ATS To add new GMM test case 12.2.2.1 to the LCR TDD NAS ATS To add new test case 7.1.1.2 to the LCR TDD MAC ATS	B B B B B B B B B B B B B B B B B B B	6.4.0 6.4.0 6.4.0 6.4.0 6.4.0 6.4.0 6.4.0 6.4.0 6.4.0 6.4.0	6.5.0 6.5.0 6.5.0 6.5.0 6.5.0 6.5.0 6.5.0 6.5.0 6.5.0 6.5.0	R5s070343 R5s070456 R5s070404 R5s070424 R5s070420 R5s070472 R5s070450 R5s070315 R5s070418 R5s070426
RP-38 RF	RP-070868	2210 2211 2212 2213 2214 2215 2216 2217 2218 2219 2220 2221 2222	ATS To add new RRC test case 8.2.3.19 to the LCR TDD RRC ATS To add new test case 16.1.2 to the LCR TDD SMS ATS To add new CC test case 10.1.2.7.1 to the LCR TDD NAS ATS To add new GMM test case 12.2.1.7 to the LCR TDD NAS ATS To add new test case 18.1.2.26 to the LCR TDD RAB ATS To add new test case 18.1.2.26 to the LCR TDD RAB ATS To add new CC test case 10.1.3.5.6 to the LCR TDD NAS ATS To add new test case 7.1.3.1 to the LCR TDD MAC ATS To add new GMM test case 12.9.3 to the LCR TDD NAS ATS To add new RRC test case 8.1.2.7 to the LCR TDD RRC ATS To add new CC test case 10.1.3.4.1 to the LCR TDD NAS ATS To add new GMM test case 12.2.2.1 to the LCR TDD NAS ATS To add new GMM test case 12.2.2.1 to the LCR TDD NAS ATS To add new GMM test case 12.2.2.1 to the LCR TDD NAS ATS To add new test case 7.1.1.2 to the LCR TDD MAC ATS	B B B B B B B B B B B B B B B B B B B	6.4.0 6.4.0 6.4.0 6.4.0 6.4.0 6.4.0 6.4.0 6.4.0 6.4.0 6.4.0	6.5.0 6.5.0 6.5.0 6.5.0 6.5.0 6.5.0 6.5.0 6.5.0 6.5.0 6.5.0	R5s070343 R5s070456 R5s070404 R5s070424 R5s070420 R5s070472 R5s070450 R5s070315 R5s070418 R5s070426
RP-38 RF	RP-070868	2211 2212 2213 2214 2215 2216 2217 2218 2219 2220 2221 2222	RRC ATS To add new test case 16.1.2 to the LCR TDD SMS ATS To add new CC test case 10.1.2.7.1 to the LCR TDD NAS ATS To add new GMM test case 12.2.1.7 to the LCR TDD NAS ATS To add new test case 18.1.2.26 to the LCR TDD RAB ATS To add new CC test case 10.1.3.5.6 to the LCR TDD NAS ATS To add new test case 7.1.3.1 to the LCR TDD MAC ATS To add new GMM test case 12.9.3 to the LCR TDD MAC ATS To add new RRC test case 8.1.2.7 to the LCR TDD NAS ATS To add new RRC test case 8.1.2.7 to the LCR TDD RRC ATS To add new CC test case 10.1.3.4.1 to the LCR TDD NAS ATS To add new GMM test case 12.2.2.1 to the LCR TDD NAS ATS To add new GMM test case 12.2.2.1 to the LCR TDD NAS ATS To add new GMM test case 12.2.2.1 to the LCR TDD NAS ATS To add new test case 7.1.1.2 to the LCR TDD MAC ATS	B B B B B B B B B B B B B B B B B B B	6.4.0 6.4.0 6.4.0 6.4.0 6.4.0 6.4.0 6.4.0 6.4.0 6.4.0	6.5.0 6.5.0 6.5.0 6.5.0 6.5.0 6.5.0 6.5.0 6.5.0 6.5.0	R5s070456 R5s070404 R5s070424 R5s070420 R5s070472 R5s070450 R5s070315 R5s070418 R5s070426
RP-38 RF	RP-070868	2212 2213 2214 2215 2216 2217 2218 2219 2220 2221 2222 2223	ATS To add new CC test case 10.1.2.7.1 to the LCR TDD NAS ATS To add new GMM test case 12.2.1.7 to the LCR TDD NAS ATS To add new test case 18.1.2.26 to the LCR TDD RAB ATS To add new CC test case 10.1.3.5.6 to the LCR TDD NAS ATS To add new test case 7.1.3.1 to the LCR TDD MAC ATS To add new GMM test case 12.9.3 to the LCR TDD NAS ATS To add new RRC test case 8.1.2.7 to the LCR TDD NAS ATS To add new RRC test case 8.1.2.7 to the LCR TDD RRC ATS To add new CC test case 10.1.3.4.1 to the LCR TDD NAS ATS To add new GMM test case 12.2.2.1 to the LCR TDD NAS ATS To add new GMM test case 12.2.2.1 to the LCR TDD NAS ATS To add new test case 7.1.1.2 to the LCR TDD MAC ATS To add new test case 7.1.1.2 to the LCR TDD MAC ATS	B B B B B B B B	6.4.0 6.4.0 6.4.0 6.4.0 6.4.0 6.4.0 6.4.0 6.4.0	6.5.0 6.5.0 6.5.0 6.5.0 6.5.0 6.5.0 6.5.0 6.5.0	R5s070404 R5s070424 R5s070466 R5s070420 R5s070472 R5s070450 R5s070315 R5s070418 R5s070426
RP-38 RF	RP-070868	2213 2214 2215 2216 2217 2218 2219 2220 2221 2222 2223	NAS ATS To add new GMM test case 12.2.1.7 to the LCR TDD NAS ATS To add new test case 18.1.2.26 to the LCR TDD RAB ATS To add new CC test case 10.1.3.5.6 to the LCR TDD NAS ATS To add new test case 7.1.3.1 to the LCR TDD MAC ATS To add new GMM test case 12.9.3 to the LCR TDD NAS ATS To add new RRC test case 8.1.2.7 to the LCR TDD RRC ATS To add new CC test case 10.1.3.4.1 to the LCR TDD NAS ATS To add new GMM test case 12.2.2.1 to the LCR TDD NAS ATS To add new GMM test case 12.2.2.1 to the LCR TDD NAS ATS To add new test case 7.1.1.2 to the LCR TDD MAC ATS To add new test case 7.1.1.2 to the LCR TDD MAC ATS To add new GMM test case 12.3.2.1 to the LCR TDD	B B B B B B	6.4.0 6.4.0 6.4.0 6.4.0 6.4.0 6.4.0 6.4.0	6.5.0 6.5.0 6.5.0 6.5.0 6.5.0 6.5.0 6.5.0	R5s070424 R5s070466 R5s070420 R5s070472 R5s070450 R5s070315 R5s070418 R5s070426
RP-38 RF	RP-070868	2214 2215 2216 2217 2218 2219 2220 2221 2222 2223	To add new GMM test case 12.2.1.7 to the LCR TDD NAS ATS To add new test case 18.1.2.26 to the LCR TDD RAB ATS To add new CC test case 10.1.3.5.6 to the LCR TDD NAS ATS To add new test case 7.1.3.1 to the LCR TDD MAC ATS To add new GMM test case 12.9.3 to the LCR TDD NAS ATS To add new RRC test case 8.1.2.7 to the LCR TDD RRC ATS To add new CC test case 10.1.3.4.1 to the LCR TDD NAS ATS To add new GMM test case 12.2.2.1 to the LCR TDD NAS ATS To add new GMM test case 12.2.2.1 to the LCR TDD NAS ATS To add new test case 7.1.1.2 to the LCR TDD MAC ATS To add new test case 7.1.1.2 to the LCR TDD MAC ATS	B B B B	6.4.0 6.4.0 6.4.0 6.4.0 6.4.0 6.4.0	6.5.0 6.5.0 6.5.0 6.5.0 6.5.0 6.5.0	R5s070466 R5s070420 R5s070472 R5s070450 R5s070315 R5s070418 R5s070426
RP-38 RF	RP-070868 RP-070868 RP-070868 RP-070868 RP-070868 RP-070868 RP-070868 RP-070868 RP-070868	2215 2216 2217 2218 2219 2220 2221 2222	To add new test case 18.1.2.26 to the LCR TDD RAB ATS To add new CC test case 10.1.3.5.6 to the LCR TDD NAS ATS To add new test case 7.1.3.1 to the LCR TDD MAC ATS To add new GMM test case 12.9.3 to the LCR TDD NAS ATS To add new RRC test case 8.1.2.7 to the LCR TDD RRC ATS To add new CC test case 10.1.3.4.1 to the LCR TDD NAS ATS To add new GMM test case 12.2.2.1 to the LCR TDD NAS ATS To add new GMM test case 12.2.2.1 to the LCR TDD NAS ATS To add new test case 7.1.1.2 to the LCR TDD MAC ATS To add new GMM test case 12.3.2.1 to the LCR TDD	B B B B	6.4.0 6.4.0 6.4.0 6.4.0 6.4.0 6.4.0	6.5.0 6.5.0 6.5.0 6.5.0 6.5.0	R5s070420 R5s070472 R5s070450 R5s070315 R5s070418 R5s070426
RP-38 RF	RP-070868 RP-070868 RP-070868 RP-070868 RP-070868 RP-070868 RP-070868 RP-070868	2216 2217 2218 2219 2220 2221 2222 2223	To add new CC test case 10.1.3.5.6 to the LCR TDD NAS ATS To add new test case 7.1.3.1 to the LCR TDD MAC ATS To add new GMM test case 12.9.3 to the LCR TDD NAS ATS To add new RRC test case 8.1.2.7 to the LCR TDD RRC ATS To add new CC test case 10.1.3.4.1 to the LCR TDD NAS ATS To add new GMM test case 12.2.2.1 to the LCR TDD NAS ATS To add new GMM test case 12.2.2.1 to the LCR TDD NAS ATS To add new test case 7.1.1.2 to the LCR TDD MAC ATS To add new GMM test case 12.3.2.1 to the LCR TDD	B B B	6.4.0 6.4.0 6.4.0 6.4.0	6.5.0 6.5.0 6.5.0 6.5.0 6.5.0	R5s070472 R5s070450 R5s070315 R5s070418 R5s070426
RP-38 RF	RP-070868 RP-070868 RP-070868 RP-070868 RP-070868 RP-070868 RP-070868	2217 2218 2219 2220 2221 2222 2223	To add new test case 7.1.3.1 to the LCR TDD MAC ATS To add new GMM test case 12.9.3 to the LCR TDD NAS ATS To add new RRC test case 8.1.2.7 to the LCR TDD RRC ATS To add new CC test case 10.1.3.4.1 to the LCR TDD NAS ATS To add new GMM test case 12.2.2.1 to the LCR TDD NAS ATS To add new test case 7.1.1.2 to the LCR TDD MAC ATS To add new GMM test case 12.3.2.1 to the LCR TDD MAC ATS	B B B	6.4.0 6.4.0 6.4.0 6.4.0	6.5.0 6.5.0 6.5.0 6.5.0	R5s070450 R5s070315 R5s070418 R5s070426
RP-38 RF	RP-070868 RP-070868 RP-070868 RP-070868 RP-070868 RP-070868	2218 2219 2220 2221 2222 2223	To add new GMM test case 12.9.3 to the LCR TDD NAS ATS To add new RRC test case 8.1.2.7 to the LCR TDD RRC ATS To add new CC test case 10.1.3.4.1 to the LCR TDD NAS ATS To add new GMM test case 12.2.2.1 to the LCR TDD NAS ATS To add new test case 7.1.1.2 to the LCR TDD MAC ATS To add new GMM test case 12.3.2.1 to the LCR TDD MAC ATS	B B	6.4.0 6.4.0 6.4.0	6.5.0 6.5.0 6.5.0	R5s070315 R5s070418 R5s070426
RP-38 RF	RP-070868 RP-070868 RP-070868 RP-070868 RP-070868 RP-070868	2218 2219 2220 2221 2222 2223	NAS ATS To add new RRC test case 8.1.2.7 to the LCR TDD RRC ATS To add new CC test case 10.1.3.4.1 to the LCR TDD NAS ATS To add new GMM test case 12.2.2.1 to the LCR TDD NAS ATS To add new test case 7.1.1.2 to the LCR TDD MAC ATS To add new GMM test case 12.3.2.1 to the LCR TDD	B B	6.4.0 6.4.0 6.4.0	6.5.0 6.5.0 6.5.0	R5s070315 R5s070418 R5s070426
RP-38 RF	RP-070868 RP-070868 RP-070868 RP-070868 RP-070868	2219 2220 2221 2222 2223	RRC ATS To add new CC test case 10.1.3.4.1 to the LCR TDD NAS ATS To add new GMM test case 12.2.2.1 to the LCR TDD NAS ATS To add new test case 7.1.1.2 to the LCR TDD MAC ATS To add new GMM test case 12.3.2.1 to the LCR TDD	B B	6.4.0 6.4.0	6.5.0	R5s070418 R5s070426
RP-38 RF	RP-070868 RP-070868 RP-070868 RP-070868	2220 2221 2222 2223	NAS ATS To add new GMM test case 12.2.2.1 to the LCR TDD NAS ATS To add new test case 7.1.1.2 to the LCR TDD MAC ATS To add new GMM test case 12.3.2.1 to the LCR TDD	В	6.4.0	6.5.0	R5s070426
RP-38 RF	RP-070868 RP-070868 RP-070868	2221 2222 2223	NAS ATS To add new test case 7.1.1.2 to the LCR TDD MAC ATS To add new GMM test case 12.3.2.1 to the LCR TDD				
RP-38 RF	RP-070868 RP-070868	2222 2223	To add new test case 7.1.1.2 to the LCR TDD MAC ATS To add new GMM test case 12.3.2.1 to the LCR TDD	В	6.4.0	6.5.0	R5s070468
RP-38 RF	RP-070868	2223	To add new GMM test case 12.3.2.1 to the LCR TDD			•	1
RP-38 RF RP-38 RF RP-38 RF RP-38 RF RP-38 RF RP-38 RF				В	6.4.0	6.5.0	R5s070434
RP-38 RF RP-38 RF RP-38 RF RP-38 RF RP-38 RF	RP-070868	2224		В	6.4.0	6.5.0	R5s070432
RP-38 RF RP-38 RF RP-38 RF RP-38 RF			NAS ATS To add new NAS test case 9.3.1 to the LCR TDD	В	6.4.0	6.5.0	R5s070217
RP-38 RF RP-38 RF RP-38 RF	RP-070890	2225	NAS ATS CR to 34.123-3: Add new verified and e-mail agreed TTCN test cases in the TC lists in 34.123-3 (prose),	F	6.4.0	6.5.0	-
RP-38 RF	RP-070862	2226	Annex A Corrections to GCF WI-10 and Interband RRC	F	6.4.0	6.5.0	R5s070357
RP-38 RF	RP-070861	2227	testcase 8.2.6.37 and 8.2.6.37b Correction to testcase 8.4.1.49 & 8.3.4.10	F	6.4.0	6.5.0	R5s070483
	RP-070861	2228	Correction to GCF WI-010 RRC test case 8.3.1.6	F	6.4.0	6.5.0	R5s070482
	RP-070861	2229	Handling of A5_1 for UE not supporting GSM.	F	6.4.0	6.5.0	R5s070484
	RP-070862	2230	TTCN Correction in HSUPA testcases	F	6.4.0	6.5.0	R5s070276
	RP-070861	2231	Corrections to GCF WI-10 RRC test case 6.1.2.1	F	6.4.0	6.5.0	R5s070225
RP-38 RF	RP-070861	2232	Introduction of wait timer for RRC Connection Request in preamble	F	6.4.0	6.5.0	R5s070221
RP-38 RF	RP-070861	2233	Correction to GCF WI-013 InterRAT test case 8.3.11.13	F	6.4.0	6.5.0	R5s070222
RP-38 RF	RP-070870	2234	Corrections to GCF WI-014 WB-AMR test case 14.6.8	F	6.4.0	6.5.0	R5s070224
RP-38 RF	RP-070861	2235	Corrections to GCF WI-10 IR_U test cases 6.2.1.X, 8.3.7.1, 8.3.7.3	F	6.4.0	6.5.0	R5s070219
RP-38 RF	RP-070861	2236	Correction to AGPS test cases 17.2.3.2, 17.2.3.3, 17.2.3.4, 17.2.3.8, 17.2.3.9	F	6.4.0	6.5.0	R5s070220
RP-38 RF	RP-070861	2237	Correction to the RRC test case 8.2.2.43, 8.2.6.39 and 8.2.6.44	F	6.4.0	6.5.0	R5s070226
RP-38 RF	RP-070875	2238	Addition of GCF WI-25 EDCH RRC test case 8.2.1.36	В	6.4.0	6.5.0	R5s070248
	RP-070875	2239		В	6.4.0	6.5.0	R5s070245
RP-38 RF	RP-070875	2240	Addition of GCF WI-25 EDCH RRC test case 8.2.2.47	В	6.4.0	6.5.0	R5s070243
	RP-070861	2241	Wk36 Regression errors in testcase 6.2.1.8	F	6.4.0	6.5.0	R5s070257
	RP-070861	2242	Summary of regression errors in wk36 ATS	F	6.4.0	6.5.0	R5s070255
	RP-070875	2243	Modification of UL and DL max bit rate in QoS for HSPA	F	6.4.0	6.5.0	R5s070254
RP-38 RF	RP-070875	2244	Addition of GCF WI-024 test case 6.2.2.4 to HSU_ENH_r6 ATS V6.3.0.	В	6.4.0	6.5.0	R5s070227
RP-38 RF	RP-070875	2245	Modification of Logical Channel Id for RB25 in	F	6.4.0	6.5.0	R5s070256
RP-38 RF		2246	Multicall scenario Addition of GCF WI-024 test case 6.2.2.5 to	В	6.4.0	6.5.0	R5s070235
RP-38 RF	RP-070875		HSU_ENH_r6 ATS V6.3.0. Addition of RRC test case 8.2.2.50	В	6.4.0	6.5.0	R5s070263
RP-38 RF	RP-070875	2247	munition of this lest case o.z.z.du	F	6.4.0	6.5.0	R5s070203

Meet-	TSG doc	CR	Rev	Subject	Cat	Old vers	New vers	WG doc
				Indicator				
RP-38	RP-070861	2249		Summary of regression errors in wk38 ATS	F	6.4.0	6.5.0	R5s070258
RP-38	RP-070870	2250		Correction to GCF WI-14 Test Case 8.2.6.48	F	6.4.0	6.5.0	R5s070267
RP-38	RP-070861	2251		Corrections to GCF WI-10 RRC test case 6.1.2.1	F	6.4.0	6.5.0	R5s070266
RP-38	RP-070875	2252		TTCN Correction in GMM testcase 12.9.15	F	6.4.0	6.5.0	R5s070269
RP-38	RP-070861	2253		TTCN Correction in testcases 9.5.4, 9.5.5, 9.5.7.1	F	6.4.0	6.5.0	R5s070268
RP-38	RP-070875	2254		Introduce a more strict detection of the usage of RACH TF2 for UL CCCH transmission	F	6.4.0	6.5.0	R5s070270
RP-38	RP-070875	2255		Correction to GCF WI-25 test cases 8.3.1.41 and 8.2.6.50	F	6.4.0	6.5.0	R5s070272
RP-38	RP-070875	2256		Removal of GSM ciphering algorithm A5/2	F	6.4.0	6.5.0	R5s070275
RP-38	RP-070861	2257		Correction to RRC testcase 8.4.1.42	F	6.4.0	6.5.0	R5s070306
RP-38	RP-070861	2258		Correction to GCF Testcase 8.1.2.1, 8.1.2.7, 8.1.2.11, 8.1.5.1, 8.1.5.4, 8.1.7.1, 8.1.7.1b, 8.1.7.1c, 8.1.7.2, 8.1.12	F	6.4.0	6.5.0	R5s070279
RP-38	RP-070861	2259		Correction to RRC testcase 8.1.10.1	F	6.4.0	6.5.0	R5s070305
RP-38	RP-070861	2260		Summary of regression errors in wk38 ATS	F	6.4.0	6.5.0	R5s070271
RP-38	RP-070861	2261		Correction to the TTCN to Handle optional Packet Resource Request message	F	6.4.0	6.5.0	R5s070277
RP-38	RP-070862	2262		Summary of regression errors in wk38 ATS	F	6.4.0	6.5.0	R5s070278

History

Document history						
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V6.5.0	January 2008	Publication				