

3GPP TS 25.331 V5.5.0 (2003-06)

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7.2.1 UE Idle mode

UE processes that are active in UE Idle mode are specified in [4].

The UE shall perform a periodic search for higher priority PLMNs as specified in [25].

7.2.2 UTRA RRC Connected mode

In this specification unless otherwise mentioned "connected mode" shall refer to "UTRA RRC connected mode".

7.2.2.1 URA_PCH or CELL_PCH state

In the URA_PCH or CELL_PCH state the UE shall perform the following actions:

NOTE: Neither DCCH nor DTCH are available in these states.

1> if the UE is "in service area":

- 2> maintain up-to-date system information as broadcast by the serving cell as specified in the subclause 8.1.1;
- 2> perform cell reselection process as specified in [4];
- 2> perform a periodic search for higher priority PLMNs as specified in [25];

NOTE: If the DRX cycle length is 80ms, then a search for higher priority PLMNs may not identify all the available PLMNs due to the paging occasion on the current serving cell coinciding with the MIB of the cell of interest.

- 2> monitor the paging occasions and PICH monitoring occasions determined according to subclauses 8.6.3.1a and 8.6.3.2 and receive paging information on the PCH mapped on the S-CCPCH selected by the UE according to the procedure in subclause 8.5.19;
- 2> act on RRC messages received on PCCH and BCCH;
- 2> perform measurements process according to measurement control information as specified in subclause 8.4 and in subclause 14.4;
- 2> maintain up-to-date BMC data if it supports Cell Broadcast Service (CBS) as specified in [37];
- 2> run timer T305 for periodical URA update if the UE is in URA_PCH or for periodical cell update if the UE is in CELL_PCH.

1> if the UE is "out of service area":

- 2> perform cell selection process as specified in [4];
- 2> run timer T316;
- 2> run timer T305;
- 2> if the cell selection process fails to find a suitable cell after a complete scan of all RATs and all frequency bands supported by the UE, the UE shall after a minimum of TimerOutOfService time (default value 30 s) of being "out of service area":
 - 3> indicate all available PLMNs to NAS to enable the selection of a new PLMN. If the NAS indicates the selection of a new PLMN the UE shall store information for the new PLMN within the variable SELECTED_PLMN and perform actions according to subclause 8.5.24;
 - 3> if an acceptable cell is found then the UE shall camp on that cell to obtain limited service as defined in [4] and, perform actions according to subclause 8.5.24. If the RRC connection is released due to camping on an acceptable cell, indicate this to upper layers;
 - 3> else if no acceptable cell is found, the UE shall continue looking for an acceptable cell as defined in [4].

- 1> act on RRC messages received on BCCH (applicable only to UEs with certain capabilities and in FDD mode);
- 1> act on RRC messages received on BCCH (TDD only) and, if available, SHCCH (TDD only).

8 RRC procedures

The UE shall be able to process several simultaneous RRC procedures. After the reception of a message which invoked a procedure, the UE shall be prepared to receive and act on another message which may invoke a second procedure. Whether this second invocation of a procedure (transaction) is accepted or rejected by the UE is specified in the subclauses of this clause, and in particular in subclause 8.6.3.11 (RRC transaction identifier).

On receiving a message the UE shall:

- 1> check that the message is addressed to the UE (e.g. by checking the IE "Initial UE identity" or the IE "U-RNTI" for messages on CCCH);
- 1> discard the messages addressed to other UEs.

and then the UE shall:

- 1> apply integrity check as appropriate;
- 1> proceed with error handling as specified in clause 9;
- 1> act upon the IE "RRC transaction identifier";
- 1> continue with the procedure as specified in the relevant subclause.

The RRC entity in the UE shall consider PDUs to have been transmitted when they are submitted to the lower layers. If the RRC entity in the UE submits a message for transmission using AM RLC, it shall consider the message successfully transmitted when UTRAN reception of all relevant PDUs is acknowledged by RLC. In the UE, timers are started when the PDUs are sent on the radio interface in the case of the transmission using the CCCH.

8.1 RRC Connection Management Procedures

8.1.1 Broadcast of system information

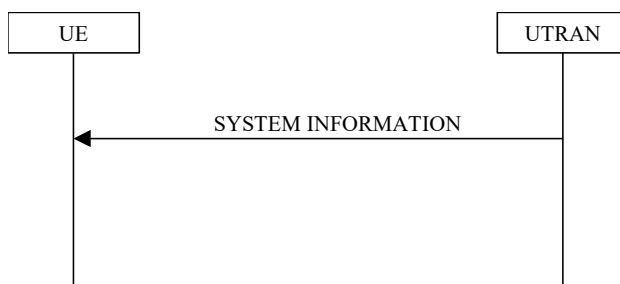


Figure 8.1.1-1: Broadcast of system information

scope is *Equivalent PLMN*, the UE shall consider the system information block to be valid within the PLMN in which it was received and all PLMNs which are indicated by higher layers to be equivalent.

For System information block types 15.2, 15.3 and 16, which may have multiple occurrences, each occurrence has its own independent value tag. The UE shall re-read a particular occurrence if the value tag of this occurrence has changed compared to that stored in the UE.

The *UE mode/state column when block is valid* in Table 8.1.1 specifies in which UE mode or UE state the IEs in a system information block shall be regarded as valid by the UE. In other words, the indicated system information block becomes invalid upon change to a mode/state that is not included in this column. System Information Block Type 16 remains also valid upon transition to or from GSM/GPRS. In some cases, the states are inserted in brackets to indicate that the validity is dependent on the broadcast of the associated System Information Blocks by the network as explained in the relevant procedure subclause.

The *UE mode/state column when block is read* in Table 8.1.1 specifies in which UE mode or UE state the IEs in a system information block may be read by the UE. The UE shall have the necessary information prior to execution of any procedure requiring information to be obtained from the appropriate system information block. The requirements on the UE in terms of when to read the system information may therefore be derived from the procedure specifications that specify which IEs are required in the different UE modes/states in conjunction with the different performance requirements that are specified.

System Information Block type 10 shall only be read by the UE while in CELL_DCH.

The UE shall:

- 1> if System Information Block type 11 is referenced in the master information block or in the scheduling blocks:
 - 2> if System Information Block type 12 is not referenced in the master information block or in the scheduling blocks, or broadcast of System Information Block type 12 is not indicated in System Information Block type 11:
 - 3> have read and acted upon System Information Block type 11 in a cell when the UE transmits an RRC message on RACH.
 - 2> else:
 - 3> have read and acted upon System Information Block type 11 in a cell before the UE transmits the RRC CONNECTION REQUEST message.
 - 3> have read and acted upon both System Information Block type 11 and System Information Block type 12 in a cell when:
 - 4> the UE transmits an RRC message on RACH in RRC connected mode; or
 - 4> the UE receives a message commanding to enter Cell_DCH state.

NOTE 1: There are a number of system information blocks that include the same IEs while the UE mode/state in which the information is valid differs. This approach is intended to allow the use of different IE values in different UE mode/states.

NOTE 2: System Information Block Type 16 is also obtained by a UE while in GSM/GPRS. The details of this are not within the scope of this specification.

The *Scheduling information* column in table 8.1.1 specifies the position and repetition period for the SIB.

The *modification of system information* column in table 8.1.1 specifies the update mechanisms applicable for a certain system information block. For system information blocks with a value tag, the UE shall update the information according to subclause 8.1.1.7.1 or 8.1.1.7.2. For system information blocks with an expiration timer, the UE shall, when the timer expires, perform an update of the information according to subclause 8.1.1.7.4.

Table 8.1.1: Specification of system information block characteristics

System information block	Area scope	UE mode/state when block is valid	UE mode/state when block is read	Scheduling information	Modification of system information	Additional comment
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System information block	Area scope	UE mode/state when block is valid	UE mode/state when block is read	Scheduling information	Modification of system information	Additional comment
System information block type 6	Cell	CELL_FACH, CELL_PCH, URA_PCH, CELL_DCH (TDD only)	CELL_FACH, CELL_PCH, URA_PCH, CELL_DCH (TDD only)	Specified by the IE "Scheduling information"	Value tag	<p>If system information block type 6 is not broadcast in a cell, the connected mode UE shall read System information block type 5.</p> <p>If some of the optional IEs are not included in System information block type 6, the UE shall read the corresponding IEs in System information block type 5</p> <p>In TDD mode system information block 6 shall only be read in CELL_DCH if required for open loop power control as specified in subclause 8.5.7 and/or if shared transport channels are assigned to the UE. If in these cases system information block type 6 is not broadcast the UE shall read system information block type 5.</p>
System information block type 7	Cell	Idle mode, CELL_FACH, CELL_PCH, URA_PCH, CELL_DCH (TDD only)	Idle mode, CELL_FACH, CELL_PCH, URA_PCH, CELL_DCH (TDD only)	Specified by the IE "Scheduling information"	Expiration timer = MAX(32, SIB_REP * ExpirationTimeFactor)	In TDD mode system information block type 7 shall only be read in CELL_DCH if shared transport channels are assigned to the UE.
System information block type 8	Cell	CELL_FACH, CELL_PCH, URA_PCH	CELL_FACH, CELL_PCH, URA_PCH	Specified by the IE "Scheduling information"	Value tag	
System information block type 9	Cell	CELL_FACH, CELL_PCH, URA_PCH	CELL_FACH, CELL_PCH, URA_PCH	Specified by the IE "Scheduling information"	Expiration timer = SIB_REP	
System information block type 10	Cell	CELL_DCH	CELL_DCH	Specified by the IE "Scheduling information"	Expiration timer = SIB_REP	
System information block type 11	Cell	Idle mode (CELL_FACH, CELL_PCH, URA_PCH, CELL_DCH)	Idle mode (CELL_FACH, CELL_PCH, URA_PCH)	Specified by the IE "Scheduling information"	Value tag	

System information block	Area scope	UE mode/state when block is valid	UE mode/state when block is read	Scheduling information	Modification of system information	Additional comment
System information block type 15.4	Cell	Idle Mode, CELL_FACH, CELL_PCH, URA_PCH	Idle Mode, CELL_FACH, CELL_PCH, URA_PCH	Specified by the IE "Scheduling information"	Value tag	
System information block type 15.5	Cell	Idle Mode, CELL_FACH, CELL_PCH, URA_PCH	Idle Mode, CELL_FACH, CELL_PCH, URA_PCH	Specified by the IE "Scheduling information"	Value tag	
System information block type 16	Equivalent PLMN	Idle Mode, CELL_FACH, CELL_PCH, URA_PCH, CELL_DCH	Idle Mode, CELL_FACH, CELL_PCH, URA_PCH	Specified by the IE "Scheduling information"	Value tag	For this system information block there may be multiple occurrences. This system information block is also valid while in GSM/GPRS.
System information block type 17	Cell	CELL_FACH, CELL_PCH, URA_PCH, CELL_DCH	CELL_FACH, CELL_PCH, URA_PCH, CELL_DCH	Specified by the IE "Scheduling information"	Expiration timer = SIB_REP	This system information block is used in TDD mode only. System information block type 17 shall only be read if shared transport channels are assigned to the UE.
System Information Block type 18	Cell	Idle mode, CELL_FACH, CELL_PCH, URA_PCH, CELL_DCH	Idle mode, CELL_FACH, CELL_PCH, URA_PCH	Specified by the IE "Scheduling information"	Value tag	

The UE shall acquire all system information blocks except system information block type 10 on BCH. System Information Block type 10 shall be acquired on the FACH and only by UEs with support for simultaneous reception of one SCCPCH and one DPCH. If System Information Block type 10 is not broadcast in a cell, the DRAC procedures do not apply in this cell. System Information Block type 10 is used in FDD mode only.

8.1.1.1.3 Segmentation and concatenation of system information blocks

A generic SYSTEM INFORMATION message is used to convey the system information blocks on the BCCH. A given BCCH may be mapped onto either a BCH or a FACH transport channel according to subclause 8.1.1.1.2. The size of the SYSTEM INFORMATION message shall fit the size of a BCH or a FACH transport block.

The RRC layer in UTRAN performs segmentation and concatenation of encoded system information blocks. If the encoded system information block is larger than the size of a SYSTEM INFORMATION message, it will be segmented and transmitted in several messages. If the encoded system information block is smaller than a SYSTEM INFORMATION message, UTRAN may concatenate several system information blocks, or the first segment or the last segment into the same message as specified in the remainder of this clause.

Four different segment types are defined:

- First segment;
- Subsequent segment;
- Last segment;
- Complete.

Each of the types - *First*, *Subsequent* and *Last segment* - is used to transfer segments of a master information block, scheduling block or a system information block. The segment type, *Complete*, is used to transfer a complete master information block, complete scheduling block or a complete system information block.

Each segment consists of a header and a data field. The data field carries the encoded system information elements. The header contains the following parameters:

- The number of segments in the system information block (SEG_COUNT). This parameter is only included in the header if the segment type is "First segment".
- SIB type. The SIB type uniquely identifies the master information block, scheduling block or a system information block.
- Segment index. This parameter is only included in the header if the segment type is "Subsequent segment" or "Last segment".

UTRAN may combine one or several segments of variable length in the same SYSTEM INFORMATION message. The following combinations are allowed:

1. No segment;
2. First segment;
3. Subsequent segment;
4. Last segment;
5. Last segment + First segment;
6. Last segment + one or several Complete;
7. Last segment + one or several Complete + First segment;
8. One or several Complete;
9. One or several Complete + First segment;
10. One Complete of size 215 to 226;
11. Last segment of size 215 to 222.

The "No segment" combination is used when there is no master information block, scheduling block or system information block scheduled for a specific BCH transport block.

UEs are not required to support the reception of multiple occurrences of the same system information block type within one SYSTEM INFORMATION message.

NOTE: Since the SIB type is the same for each occurrence of the system information block, the UE does not know the order in which the occurrences, scheduled for this SYSTEM INFORMATION message, appear. Therefore, the UE is unable to determine which scheduling information, e.g., value tag relates to which occurrence of the system information block.

8.1.1.1.4 Re-assembly of segments

The RRC layer in the UE shall perform re-assembly of segments. All segments belonging to the same master information block, scheduling block or system information block shall be assembled in ascending order with respect to the segment index. When all segments of the master information block, scheduling block or a system information block have been received, the UE shall perform decoding of the complete master information block, scheduling block or system information block. For System Information Block types 15.2, 15.3 and 16, which may have multiple occurrences, each occurrence shall be re-assembled independently.

The UE shall discard system information blocks of which segments were missing, of which segments were received out of sequence and/or for which duplicate segments were received. The only valid sequence is an ascending one with the sequence starting with the First Segment of the associated System Information Block.

If the UE receives a Subsequent segment or Last segment where the index in IE "Segment index" is equal to or larger than the number of segments stated in IE "SEG_COUNT" in the scheduling information for that scheduling block or system information block:

- 1> the UE may:
 - 2> read all the segments to create a system information block as defined by the scheduling information read by the UE;
 - 2> store the content of the system information block with a value tag set to the value NULL; and
 - 2> consider the content of the scheduling block or system information block as valid:
 - 3> until it receives the same type of scheduling block or system information block in a position according to its scheduling information; or
 - 3> at most for 6 hours after reception.
- 1> and the UE shall:
 - 2> re-read scheduling information for that scheduling block or system information block.

If the UE receives a Subsequent segment or Last segment where the index in IE "Segment index" is equal to or larger than the number of segments stated in IE "SEG_COUNT" in the First segment, the UE shall

- 1> discard all segments for that master information block, scheduling block or system information block; and
- 1> re-read the scheduling information for that system information block;
- 1> then re-read all segments for that system information block.

8.1.1.1.5 Scheduling of system information

Scheduling of system information blocks is performed by the RRC layer in UTRAN. If segmentation is used, it should be possible to schedule each segment separately.

To allow the mixing of system information blocks with short repetition period and system information blocks with segmentation over many frames, UTRAN may multiplex segments from different system information blocks. Multiplexing and de-multiplexing is performed by the RRC layer.

The scheduling of each system information block broadcast on a BCH transport channel is defined by the following parameters:

- the number of segments (SEG_COUNT);
- the repetition period (SIB_REP). The same value applies to all segments;
- the position (phase) of the first segment within one cycle of the Cell System Frame Number (SIB_POS(0)). Since system information blocks are repeated with period SIB_REP, the value of SIB_POS(i), $i = 0, 1, 2, \dots, \text{SEG_COUNT}-1$ must be less than SIB_REP for all segments;
- the offset of the subsequent segments in ascending index order (SIB_OFF(i), $i = 1, 2, \dots, \text{SEG_COUNT}-1$). The position of the subsequent segments is calculated using the following: $\text{SIB_POS}(i) = \text{SIB_POS}(i-1) + \text{SIB_OFF}(i)$.

The scheduling is based on the Cell System Frame Number (SFN). The SFN of a frame at which a particular segment, i , with $i = 0, 1, 2, \dots, \text{SEG_COUNT}-1$ of a system information block occurs, fulfils the following relation:

$$\text{SFN mod SIB_REP} = \text{SIB_POS}(i)$$

In FDD and TDD the scheduling of the master information block is fixed as defined in table 8.1.1. For TDD, UTRAN may apply one of the values allowed for the master information block's repetition period. The value that UTRAN is using in TDD is not signalled; UEs have to determine it by trial and error.

8.1.1.2 Initiation

The system information is continuously broadcast on a regular basis in accordance with the scheduling defined for each system information block.

8.1.1.3 Reception of SYSTEM INFORMATION messages by the UE

The UE shall read SYSTEM INFORMATION messages broadcast on a BCH transport channel in idle mode and in the connected mode in states CELL_FACH, CELL_PCH, URA_PCH and CELL_DCH (TDD only). In addition, UEs in FDD mode which support simultaneous reception of one SCCPCH and one DPCH shall read system information on a FACH transport channel when in CELL_DCH state.

In idle mode and connected mode different combinations of system information blocks are valid. The UE shall acquire the system information blocks that are needed according to table 8.1.1.

The UE may store system information blocks with *cell*, *PLMN* or *Equivalent PLMN* area scope (including their value tag if applicable) for different cells and different PLMNs, to be used if the UE returns to these cells.

The UE shall consider all stored system information blocks as invalid after it has been switched off. Some information obtained from system information may be stored by the UE or in the USIM for use in a stored information cell selection.

When selecting a new cell within the currently used PLMN, the UE shall consider all current system information blocks with area scope *cell* to be invalid. If the UE has stored valid system information blocks for the newly selected cell, the UE may set those as current system information blocks.

After selecting a new PLMN, the UE shall consider all current system information blocks with area scope *cell* and *PLMN* to be invalid. If the UE has previously stored valid system information blocks for the selected cell of the new PLMN, the UE may set those as current system information blocks. Upon selection of a new PLMN the UE shall store all information elements specified within variable SELECTED_PLMN for the new PLMN within this variable.

After selecting a new PLMN which is not indicated by higher layers to be equivalent to the identity of the previously selected PLMN, the UE shall consider all system information blocks with area scope *Equivalent PLMN* to be invalid.

8.1.1.4 Reception of SYSTEM INFORMATION messages broadcast on a FACH transport channel

System information block type 10 may be broadcast on FACH, as specified in subclause 8.1.1.2.

When reading system information blocks on FACH, the UE shall perform the actions as defined in subclause 8.1.1.6.

8.1.1.5 Actions upon reception of the Master Information Block and Scheduling Block(s)

When selecting a new cell, the UE shall read the master information block. The UE may use the pre-defined scheduling information to locate the master information block in the cell.

Upon reception of the master information block, the UE shall:

- 1> if the "PLMN type" in the variable SELECTED_PLMN has the value "GSM-MAP" and the IE "PLMN Type" has the value "GSM-MAP" or "GSM-MAP and ANSI-41":
 - 2> check the IE "PLMN identity" in the master information block and verify that it is the selected PLMN, stored as "PLMN identity" in the variable SELECTED_PLMN.
- 1> if the "PLMN type" in the variable SELECTED_PLMN has the value "ANSI-41" and the IE "PLMN Type" has the value "ANSI-41" or "GSM-MAP and ANSI-41":
 - 2> store the ANSI-41 Information elements contained in the master information block and perform initial process for ANSI-41.
- 1> compare the value tag in the master information block with the value tag stored for this cell and this PLMN in the variable VALUE_TAG;

- 1> if the value tags differ, or if no IEs for the master information block are stored:
 - 2> store the value tag into the variable VALUE_TAG for the master information block;
 - 2> read and store scheduling information included in the master information block.
- 1> if the value tags are the same the UE may use stored system information blocks and scheduling blocks using value tag that were stored for this cell and this PLMN as valid system information.

For all system information blocks or scheduling blocks that are supported by the UE referenced in the master information block or the scheduling blocks, the UE shall perform the following actions:

- 1> for all system information blocks with area scope "PLMN" or "Equivalent PLMN" that use value tags:
 - 2> compare the value tag read in scheduling information for that system information block with the value stored within the variable VALUE_TAG for that system information block;
 - 2> if the value tags differ, or if no IEs for the corresponding system information block are stored:
 - 3> store the value tag read in scheduling information for that system information block into the variable VALUE_TAG;
 - 3> read and store the IEs of that system information block.
 - 2> if the value tags are the same the UE may use stored system information blocks using value tag that were stored in this PLMN as valid system information.
- 1> for all system information blocks or scheduling blocks with area scope cell that use value tags:
 - 2> compare the value tag read in scheduling information for that system information block or scheduling block with the value stored within the variable VALUE_TAG for that system information block or scheduling block;
 - 2> if the value tags differ, or if no IEs for the corresponding system information block or scheduling block are stored:
 - 3> store the value tag read in scheduling information for that system information block or scheduling block into the variable VALUE_TAG;
 - 3> read and store the IEs of that system information block or scheduling block.
 - 2> if the value tags are the same the UE may use stored system information blocks using value tags that were stored for this cell and this PLMN as valid system information.
- 1> for system information blocks which may have multiple occurrences:
 - 2> compare the value tag and the configuration or multiple occurrence identity for the occurrence of the system information blocks read in scheduling information with the value tag and configuration or multiple occurrence identity stored within the variable VALUE_TAG:
 - 3> if the value tags differ, or if no IEs from the occurrence with that configuration or multiple occurrence identity of the system information block are stored:
 - 4> store the value tag read in scheduling information for that system information block and the occurrence with that configuration or multiple occurrence identity into the variable VALUE_TAG;
 - 4> read and store the IEs of that system information block.
 - 3> if the value tags and the configuration or multiple occurrence identity are identical to those stored, the UE may use stored occurrences of system information blocks that were stored for this cell and this PLMN as valid system information.

For system information blocks, not supported by the UE, but referenced either in the master information block or in the scheduling blocks, the UE may:

- 1> skip reading this system information block;

1> skip monitoring changes to this system information block.

If the UE:

1> receives a scheduling block at a position different from its position according to the scheduling information for the scheduling block; or

1> receives a scheduling block for which scheduling information has not been received:

the UE may:

1> store the content of the scheduling block with a value tag set to the value NULL; and

1> consider the content of the scheduling block as valid until it receives the same type of scheduling block in a position according to its scheduling information or at most for 6 hours after reception.

If the UE does not find a scheduling block in a position where it should be according to its scheduling information, but a transport block with correct CRC was found at that position, the UE shall:

1> read the scheduling information for this scheduling block.

If the UE does not find the master information block in a position fulfilling:

$$\text{SFN mod } 32 = 0$$

but a transport block with correct CRC was found at that position), the UE shall:

1> consider the master information block as not found; and

1> consider the cell to be barred according to [4]; and

1> consider the barred cell as using the value "allowed" in the IE "Intra-frequency cell re-selection indicator", and the maximum value in the IE " T_{barred} ".

NOTE: This permits a different repetition for the MIB in later versions for FDD. In TDD it allows for a variable SIB_REP in this and future releases.

If system information block type 1 is not scheduled on BCH, and system information block type 13 is not scheduled on BCH, the UE shall:

1> consider the cell to be barred according to [4]; and

1> consider the barred cell as using the value "allowed" in the IE "Intra-frequency cell re-selection indicator", and the maximum value in the IE " T_{barred} ".

If the UE only supports GSM-MAP but finds a cell that broadcasts System Information Block type 13 but not System Information Block type 1, the UE shall:

1> consider the cell barred.

If:

- system information block type 1 is not scheduled on BCH; and
- the "PLMN Type" in the variable SELECTED_PLMN has the value "GSM-MAP"; and
- the IE "PLMN type" in the Master Information Block has the value "GSM-MAP" or "GSM-MAP and ANSI-41":

the UE shall:

1> indicate to upper layers that no CN system information is available.

If in idle mode and System Information Block type 3 is not scheduled on BCH, the UE shall:

1> consider the cell to be barred according to [4]; and

1> consider the barred cell as using the value "allowed" in the IE "Intra-frequency cell re-selection indicator", and the maximum value in the IE " T_{barred} ".

If in connected mode and System Information Block type 3 is not scheduled on BCH, and System Information Block type 4 is not scheduled on BCH, the UE shall:

- 1> consider the cell to be barred according to [4]; and
- 1> consider the barred cell as using the value "allowed" in the IE "Intra-frequency cell re-selection indicator", and the maximum value in the IE "T_{barred}".

If in idle mode and System Information Block type 5 is not scheduled on BCH or System Information Block type 5 is scheduled but IE "AICH info" (FDD) or IE "PICH info" is not present, the UE shall:

- 1> consider the cell to be barred according to [4]; and
- 1> consider the barred cell as using the value "allowed" in the IE "Intra-frequency cell re-selection indicator", and the maximum value in the IE "T_{barred}".

If in connected mode and System Information Block type 5 is not scheduled on BCH, and System Information Block type 6 is not scheduled on BCH, or any of System Information Block type 5 or type 6 is scheduled but IE "AICH info" (FDD) or IE "PICH info" is not present, the UE shall:

- 1> consider the cell to be barred according to [4]; and
- 1> consider the barred cell as using the value "allowed" in the IE "Intra-frequency cell re-selection indicator", and the maximum value in the IE "T_{barred}".

If System Information Block type 7 is not scheduled on BCH, the UE shall:

- 1> consider the cell to be barred according to [4]; and
- 1> consider the barred cell as using the value "allowed" in the IE "Intra-frequency cell re-selection indicator", and the maximum value in the IE "T_{barred}".

In 3.84 Mcps TDD, if System Information Block type 14 is not scheduled on BCH, the UE shall:

- 1> consider the cell to be barred according to [4]; and
- 1> consider the barred cell as using the value "allowed" in the IE "Intra-frequency cell re-selection indicator", and the maximum value in the IE "T_{barred}".

8.1.1.6 Actions upon reception of system information blocks

The UE may use the scheduling information included within the master information block and the scheduling blocks to locate each system information block to be acquired.

The UE should only expect one occurrence of the scheduling information for a system information block in the master information block and any of the scheduling blocks except for System Information Block type 16, System Information Block type 15.2 and System Information Block type 15.3, which may have multiple occurrences. However, to enable future introduction of new system information blocks, the UE shall also be able to receive system information blocks other than the ones indicated within the scheduling information. The UE may ignore contents of such system information block.

If the UE:

- 1> receives a system information block in a position according to the scheduling information for the system information block; and
- 1> this system information block uses a value tag; or
- 1> this system information block uses a value tag and configuration or multiple occurrence identity:

the UE shall:

- 1> store the content of the system information block together with the value of its value tag or the values of configuration and multiple occurrence identity and the associated value tag in the scheduling information for the system information block; and

- 1> consider the content of the system information block valid until, if used, the value tag in the scheduling information for the system information block is changed or at most for 6 hours after reception.

If the UE:

- 1> receives a system information block in a position according to the scheduling information for the system information block; and
- 1> this system information block does not use a value tag according to the system information block type:

the UE shall:

- 1> store the content of the system information block; and
- 1> start an expiration timer using a value as defined in Table 8.1.1 for that system information block type; and
- 1> consider the content of the system information block valid until, the expiration timer expires.

If the UE:

- 1> receives a system information block at a position different from its position according to the scheduling information for the system information block; or
- 1> receives a system information block for which scheduling information has not been received; and
- 1> this system information block uses a value tag:

the UE may:

- 1> store the content of the system information block with a value tag set to the value NULL; and
- 1> consider the content of the system information block as valid until it receives the same type of system information block in a position according to its scheduling information or at most for 6 hours after reception.

If the UE:

- 1> receives a system information block with multiple occurrences at a position different from its position according to the scheduling information for the system information block; or
- 1> receives a system information block with multiple occurrences for which scheduling information has not been received; and
- 1> this system information block uses a value tag and configuration or multiple occurrence identity:

the UE shall:

- 1> ignore this information.

If the UE does not find a system information block in a position where it should be according to its scheduling information, but a transport block with correct CRC was found at that position, the UE shall read the scheduling information for this system information block.

The UE shall act upon all received information elements as specified in subclause 8.6 unless specified otherwise in the following subclauses.

8.1.1.6.1 System Information Block type 1

The UE should store all relevant IEs included in this system information block if the "PLMN Type" in the variable `SELECTED_PLMN` has the value "GSM-MAP" and the IE "PLMN type" in the Master Information Block has the value "GSM-MAP" or "GSM-MAP and ANSI-41". The UE shall also:

- 1> check that the cell, according to information included in IE "CN common GSM-MAP NAS system information", is suitable [4];
- 1> if in connected mode:
 - 2> not forward the content of the IE "CN common GSM-MAP NAS system information" to upper layers.

- 1> if in idle mode:
 - 2> forward the content of the IE "CN common GSM-MAP NAS system information" to upper layers.
- 1> for the IE "CN domain system information list":
 - 2> for each IE "CN domain system information" that is present:
 - 3> check that the cell, according to information included in IE "CN domain specific NAS system information", is suitable [4];
 - 3> if in connected mode:
 - 4> not forward the content of the IE "CN common GSM-MAP NAS system information" to upper layers.
 - 3> if in idle mode:
 - 4> forward the content of the IE "CN domain specific NAS system information" and the IE "CN domain identity" to upper layers;
 - 4> use the IE "CN domain specific DRX cycle length coefficient" to calculate frame number for the Paging Occasions as specified in [4];
 - 4> store the value of the IE "CN domain specific DRX cycle length coefficient" for use in connected mode.
 - 2> if an IE "CN domain system information" is not present for a particular CN domain:
 - 3> indicate to upper layers that no CN system information is available for that CN domain.
 - 1> if the UE has not yet entered UTRA RRC connected mode:
 - 2> store the values of the IE "UE Timers and constants in connected mode" in the variable TIMERS_AND_CONSTANTS.
 - 1> use the values stored in the variable TIMERS_AND_CONSTANTS for the relevant timers and constants.

8.1.1.6.2 System Information Block type 2

If in connected mode the UE should store all relevant IEs included in this system information block. The UE shall:

- 1> if in state URA_PCH, start to perform URA updates using the information in the IE "URA identity".

If in idle mode, the UE shall not use the values of the IEs in this system information block.

8.1.1.6.3 System Information Block type 3

The UE should store all relevant IEs included in this system information block. The UE shall:

- 1> if in connected mode, and System Information Block 4 is indicated as used in the cell:
 - 2> read and act on information sent in that block.

8.1.1.6.4 System Information Block type 4

If in connected mode, the UE should store all relevant IEs included in this system information block.

If in idle mode, the UE shall not use the values of the IEs included in this system information block.

8.1.1.6.5 System Information Block type 5

The UE should store all relevant IEs included in this system information block. The UE shall:

- 1> if in connected mode, and System Information Block type 6 is indicated as used in the cell:
 - 2> read and act on information sent in System Information Block type 6.

- 1> replace the TFS of the RACH with the one stored in the UE if any;
- 1> let the physical channel(s) of type PRACH given by the IE(s) "PRACH info" be the default in uplink for the PRACH if UE is in CELL_FACH state;
- 1> start to receive the physical channel of type AICH using the parameters given by the IE "AICH info" (FDD only) when given allocated PRACH is used;
- 1> use the first instance of the list of transport formats as in the IE "RACH TFS" for the used RACH received in the IE "PRACH system information list" when using the CCCH;
- 1> replace the TFS of the FACH/PCH with the one stored in the UE if any;
- 1> select a Secondary CCPCH as specified in [4] and in subclause 8.5.19, and start to receive the physical channel of type PICH associated with the PCH carried by the selected Secondary CCPCH using the parameters given by the IE "PICH info" if UE is in Idle mode or in CELL_PCH or URA_PCH state;
- 1> start to monitor its paging occasions on the selected PICH if UE is in Idle mode or in CELL_PCH or URA_PCH state;
- 1> start to receive the selected physical channel of type Secondary CCPCH using the parameters given by the IE(s) "Secondary CCPCH info" if UE is in CELL_FACH state;
- 1> in 3.84 Mcps TDD:
 - 2> use the IE "TDD open loop power control" as defined in subclause 8.5.7 when allocated PRACH is used.
- 1> in TDD:
 - 2> if the IE "PDSCH system information" and/or the IE "PUSCH system information" is included:
 - 3> store each of the configurations given there with the associated identity given in the IE "PDSCH Identity" and/or "PUSCH Identity" respectively. For every configuration, for which the IE "SFN Time info" is included, the information shall be stored for the duration given there.

8.1.1.6.6 System Information Block type 6

If in connected mode, the UE should store all relevant IEs included in this system information block. The UE shall:

- 1> replace the TFS of the RACH with the one stored in the UE if any;
- 1> let the physical channel(s) of type PRACH given by the IE(s) "PRACH info" be the default in uplink if UE is in CELL_FACH state. If the IE "PRACH info" is not included, the UE shall read the corresponding IE(s) in System Information Block type 5 and use that information to configure the PRACH;
- 1> start to receive the physical channel of type AICH using the parameters given by the IE "AICH info" when associated PRACH is used. If the IE "AICH info" is not included, the UE shall read the corresponding IE in System Information Block type 5 and use that information (FDD only);
- 1> replace the TFS of the FACH/PCH with the one stored in the UE if any;
- 1> select a Secondary CCPCH as specified in [4] and in subclause 8.5.19, and start to receive the physical channel of type PICH associated with the PCH carried by the selected Secondary CCPCH using the parameters given by the IE "PICH info" if the UE is in CELL_PCH or URA_PCH state. If the IE "PICH info" is not included, the UE shall read the corresponding IE in System Information Block type 5 and use that information;
- 1> start to monitor its paging occasions on the selected PICH if the UE is in CELL_PCH or URA_PCH state;
- 1> start to receive the selected physical channel of type Secondary CCPCH using the parameters given by the IE(s) "Secondary CCPCH info" if the UE is in CELL_FACH state. If the IE "Secondary CCPCH info" is not included, the UE shall read the corresponding IE(s) in System Information Block type 5 and use that information;
- 1> in 3.84 Mcps TDD: use the IE "TDD open loop power control" as defined in subclause 8.5.7;
- 1> in TDD: if the IE "PDSCH system information" and/or the IE "PUSCH system information" is included, store each of the configurations given there with the associated identity given in the IE "PDSCH Identity" and/or

"PUSCH Identity" respectively. For every configuration, for which the IE "SFN Time info" is included, the information shall be stored for the duration given there.

If in idle mode, the UE shall not use the values of the IEs in this system information block.

8.1.1.6.7 System Information Block type 7

The UE should store all relevant IEs included in this system information block.

8.1.1.6.8 System Information Block type 8

This system information block type is used only in FDD.

If in connected mode, the UE should store all relevant IEs included in this system information block.

If in idle mode, the UE shall not use the values of the IEs in this system information block.

8.1.1.6.9 System Information Block type 9

This system information block type is used only in FDD.

If in connected mode, the UE should store all relevant IEs included in the system information block. The UE shall:

- 1> start a timer set to the value given by the repetition period (SIB_REP) for that system information block.

If in idle mode, the UE shall not use the values of the IEs in this system information block.

8.1.1.6.10 System Information Block type 10

This system information block type is used only in FDD.

If in state CELL_DCH, the UE should store all relevant IEs included in this system information block. The UE shall:

- 1> start a timer set to the value given by the repetition period (SIB_REP) for that system information block;
- 1> perform actions defined in subclause 14.8.

If in idle mode, state CELL_FACH, state CELL_PCH or state URA_PCH, the UE shall not use the values of the IEs in this system information block.

8.1.1.6.11 System Information Block type 11

The UE should store all relevant IEs included in this system information block. The UE shall:

- 1> if in idle mode:

- 2> clear the variable MEASUREMENT_IDENTITY.

- 1> if IE "FACH measurement occasion info" is included:

- 2> act as specified in subclause 8.6.7.

- 1> else:

- 2> may perform inter-frequency/inter-RAT measurements or inter-frequency/inter-RAT cell re-selection evaluation, if the UE capabilities permit such measurements while simultaneously receiving the S-CCPCH of the serving cell.

- 1> clear the variable CELL_INFO_LIST;

- 1> act upon the received IE "Intra-frequency cell info list"/"Inter-frequency cell info list"/"Inter-RAT cell info list" as described in subclause 8.6.7.3;

- 1> if in idle mode; or

- 5> leave all other stored information elements unchanged in the variable MEASUREMENT_IDENTITY.
 - 3> otherwise:
 - 4> set the variable CONFIGURATION_INCOMPLETE to TRUE.
 - 2> if measurement type is set to "inter-frequency measurement":
 - 3> if "report criteria" is set to "intra-frequency report criteria" and "reporting criteria" in "inter-frequency measurement quantity" is set to "intra-frequency reporting criteria":
 - 4> leave the currently stored "inter-frequency report criteria" within "report criteria" and "inter-frequency reporting criteria" within "inter-frequency measurement quantity" unchanged, and continue to act on the information stored in these variables, and also store the newly received "intra-frequency report criteria" and intra-frequency reporting criteria.
 - 3> otherwise:
 - 4> clear the variables associated with the CHOICE "report criteria" and store the received "report criteria" choice;
 - 4> if the IE "inter-frequency measurement quantity" is present:
 - 5> clear the variables associated with the choice "reporting criteria" in "inter-frequency measurement quantity" and store the received "reporting criteria" choice.
- NOTE: If the UTRAN wants to modify the inter-frequency cell info list for an inter-frequency measurement configured with event based reporting without repeating any IEs related to the configured events, the only possibility is to set the IE "report criteria" to "intra-frequency report criteria", not include the IE "parameters required for each event", and set the IE "reporting criteria" in the IE "inter-frequency measurement quantity" to "intra-frequency reporting criteria".
- 2> for measurement types "inter-frequency measurement" that require measurements on a frequency other than the actually used frequency, or that require measurements on another RAT:
 - 3> if, according to its measurement capabilities, the UE requires compressed mode to perform that measurement type and after reception of this message a compressed mode pattern sequence with an appropriate measurement purpose is active according to the IE "Current TGPS Status Flag" in UE variable TGPS_IDENTITY; or
 - 3> if, according to its measurement capabilities, the UE does not require compressed mode, on at least one supported band of that measurement type, to perform the measurements:
 - 4> resume the measurements according to the new stored measurement control information.
 - 2> for measurement type "inter-frequency measurement" that requires measurements only on the same frequency as the actually used frequency:
 - 3> if the measurement is valid in the current RRC state of the UE:
 - 4> resume measurements according to the new stored control information for this measurement identity.
 - 2> for any other measurement type:
 - 3> resume the measurements according to the new stored measurement control information.
 - 1> if the IE "measurement command" has the value "release":
 - 2> terminate the measurement associated with the identity given in the IE "measurement identity";
 - 2> clear all stored measurement control information related associated to this measurement identity in variable MEASUREMENT_IDENTITY.
 - 1> if the IE "DPCH Compressed Mode Status Info" is present:

8.5.24 Change of PLMN while in RRC connected mode

If the UE camps on an acceptable cell to obtain limited service while in RRC connected mode the UE shall either:

- 1> move to idle mode;
- 1> release all dedicated resources;
- 1> indicate release (abort) of the established signalling connections (as stored in the variable ESTABLISHED_SIGNALLING_CONNECTIONS) and established radio access bearers (as stored in the variable ESTABLISHED_RABS) to upper layers;
- 1> clear the variable ESTABLISHED_SIGNALLING_CONNECTIONS;
- 1> clear the variable ESTABLISHED_RABS; and
- 1> perform actions specified in subclause 8.5.2 when entering idle mode from connected mode.

or:

- 1> keep the RRC connection of the selected PLMN and its behaviour while camping on the cell of the other PLMN shall be as if in Idle mode in that PLMN;
- 1> if the UE re-enters "in service area" on the selected PLMN or cannot maintain limited service (i.e. cannot find any acceptable cell of any PLMN), the UE shall resume its RRC Connected mode behaviour as if it had not camped on any cell whilst being in "out of service area".

If the NAS indicates the selection of a new PLMN while the UE is in RRC connected mode in the selected PLMN or if the UE attempts transmission on a cell of another PLMN (i.e. to initiate emergency call), the UE shall for the selected PLMN:

- 1> move to idle mode;
- 1> release all dedicated resources;
- 1> indicate release (abort) of the established signalling connections (as stored in the variable ESTABLISHED_SIGNALLING_CONNECTIONS) and established radio access bearers (as stored in the variable ESTABLISHED_RABS) to upper layers;
- 1> clear the variable ESTABLISHED_SIGNALLING_CONNECTIONS;
- 1> clear the variable ESTABLISHED_RABS; and
- 1> perform actions specified in subclause 8.5.2 when entering idle mode from connected mode.

8.6 Generic actions on receipt and absence of an information element

8.6.1 CN information elements

8.6.1.1 Void

8.6.1.2 CN information info

If the IE "CN information info" is present in a message, the UE shall:

- 1> if present, forward the content of the IE "PLMN identity" to upper layers;
- 1> if present, forward the content of the IE "CN common GSM-MAP NAS system information" to upper layers;
- 1> if the IE "CN domain related information" is present:

Information Element/Group name	Need	Multi	Type and reference	Semantics description	Version
				timing	
>>>Synchronisation parameters	OP				
>>>>SYNC_UL codes bitmap	MP		Bitstring(8)	Each bit indicates availability of a SYNC_UL code, where the SYNC_UL codes are numbered "code 0" to "code 7". The value 1 of a bit indicates that the corresponding SYNC_UL code can be used. The value 0 of a bit indicates that the corresponding SYNC_UL code can not be used.	REL-4
>>>>FPACH info	MP		FPACH info 10.3.6.35a		REL-4
>>>>PRX _{UpPCHdes}	MP		Integer(-120...-58 by step of 1)	In dBm	REL-4
>>>>SYNC_UL procedure	MD			Default is: Max SYNC_UL Transmission is 2. Power Ramp Step is 2.	REL-4
>>>>>Max SYNC_UL Transmissions	MP		Integer(1,2,4,8)	Maximum numbers of SYNC_UL transmissions in a power ramping sequence.	REL-4
>>>>>Power Ramp Step	MP		Integer(0,1,2,3)	In dB	REL-4

10.3.7 Measurement Information elements

10.3.7.1 Additional measurements list

Information Element/Group name	Need	Multi	Type and reference	Semantics description
Additional measurements	MP	1 to <MaxAdditionalMeas>		
>Additional measurement identity	MP		Measurement identity 10.3.7.48	

10.3.7.2 Cell info

Includes non-frequency related cell info used in the IE "inter-frequency cell info list" and "intra frequency cell info list".

Information Element/Group name	Need	Multi	Type and reference	Semantics description	Version
Cell individual offset	MD		Real(-10..10 by step of 0.5)	In dB Default value is 0 dB	

				Used to offset measured quantity value	
Reference time difference to cell	OP		Reference time difference to cell 10.3.7.60	In chips. This IE is absent for serving cell.	
Read SFN indicator	MP		Boolean	TRUE indicates that read of SFN is requested for the target cell	
CHOICE <i>mode</i>	MP				
>FDD					
>>Primary CPICH info	OP		Primary CPICH info 10.3.6.60	This IE is absent only if measuring RSSI only (broadband measurement.)	
>>Primary CPICH Tx power	OP		Primary CPICH Tx power 10.3.6.61	Required if calculating pathloss.	
>>TX Diversity Indicator	MP		Boolean	TRUE indicates that transmit diversity is used.	
>TDD					
>>Primary CCPCH info	MP		Primary CCPCH info 10.3.6.57		
>>Primary CCPCH TX power	OP		Primary CCPCH TX power 10.3.6.59		
>>Timeslot list	OP	1 to <maxTS>		The UE shall report Timeslot ISCP values according the order of the listed Timeslot numbers	
>>>CHOICE <i>TDD option</i>	MP				REL-4
>>>>3.84 Mcps TDD					REL-4
>>>>>Timeslot number	MP		Integer (0...14)	Timeslot numbers, for which the UE shall report Timeslot ISCP	
>>>>>Burst Type	MD		Enumerated (Type1, Type2)	Use for Timeslot ISCP measurements only. Default value is "Type1"	
>>>>>1.28 Mcps TDD					REL-4
>>>>>>Timeslot number	MP		Integer (1...6)	Timeslot numbers, for which the UE shall report Timeslot ISCP	REL-4
Cell Selection and Re-selection Info	CV- <i>BCHopt</i>		Cell Selection and Re-selection for SIB11/12Info 10.3.2.4		

Information Element/Group name	Need	Multi	Type and Reference	Semantics description
			, 8, 16, 32, 64, 128)	
Horizontal Accuracy	CV- MethodType		Bit string(7)	The uncertainty is derived from the "uncertainty code" k by $r = 10*(1.1^k-1)$ in meters.
Vertical Accuracy	CV- MethodType		Bit string(7)	The uncertainty is derived from the "uncertainty code" k by $r = 45*(1.025^k-1)$ in meters.
GPS timing of Cell wanted	MP		Boolean	If true the SRNC wants the UE to report the SFN-GPS timing of the reference cell. This is however optional in the UE.
Multiple Sets	MP		Boolean	This IE shall be ignored.
Additional Assistance Data Request	MP		Boolean	TRUE indicates that the UE is requested to send the IE "Additional assistance Data Request" when the IE "UE positioning Error" is present in the UE positioning measured results.
Environment Characterisation	OP		Enumerated(possibly heavy multipath and NLOS conditions, no or light multipath and usually LOS conditions, not defined or mixed environment)	One spare value is needed.

Condition	Explanation
<i>Method Type</i>	The IE is optional if the IE "Method Type" is "UE assisted"; otherwise it is mandatory present.

10.3.7.112 T_{ADV} info

NOTE: Only for 1.28 Mcps TDD.

T_{ADV} indicates the difference between the Rx timing and Tx timing of a UE.

Information Element/group name	Need	Multi	Type and reference	Semantics description	Version
T _{ADV}	MP		Integer (0..2047)	As defined in [20].	REL-4
SFN	MP		Integer(0..4095)	SFN during which the T _{ADV} measurement was performed.	REL-4

>>repetitionPeriodAndLength	repetitionPeriod1	repetitionPeriod1
DL-CommonInformationPredef		
>dl-DPCH-InfoCommon		
>>commonTimeslotInfo		
>>>secondInterleavingMode	frameRelated	frameRelated
>>>tfc-Coding	16	16
>>>puncturingLimit	0.60	0.60
>>>repetitionPeriodAndLength	repetitionPeriod1	repetitionPeriod1
PhyCH INFORMATION 1.28 Mcps TDD		
UL-DPCH-InfoPredef		
>commonTimeslotInfo		
>>secondInterleavingMode	frame Related	frame Related
>>tfc-Coding	16	16
>>puncturingLimit	0.64	0.64
>>repetitionPeriodAndLength	repetitionPeriod1	repetitionPeriod1
DL-CommonInformationPredef		
>dl-DPCH-InfoCommon		
>>commonTimeslotInfo		
>>>secondInterleavingMode	frame Related	frame Related
>>>tfc-Coding	16	16
>>>puncturingLimit	0.64	0.64
>>>repetitionPeriodAndLength	repetitionPeriod1	repetitionPeriod1

14 Specific functions

14.1 Intra-frequency measurements

14.1.1 Intra-frequency measurement quantities

A measurement quantity is used to evaluate whether an intra-frequency event has occurred or not. It can be:

- 1 Downlink E_c/N_0 .
- 2 Downlink path loss.

For FDD:

Pathloss in dB = Primary CPICH Tx power - CPICH RSCP.

For Primary CPICH Tx power the IE "Primary CPICH Tx power" shall be used. The unit is dBm.

CPICH RSCP is the result of the CPICH RSCP measurement. The unit is dBm.

For TDD:

Pathloss in dB = Primary CCPCH TX power - Primary CCPCH RSCP.

For Primary CCPCH TX power the IE "Primary CCPCH TX Power" shall be used. The unit is dBm.

Primary CCPCH RSCP is the result of the Primary CCPCH RSCP measurement. The unit is dBm.

B.3.1.7 UE Measurements (CELL_DCH)

The UE performs measurements and transmit measurement reports according to the measurement control information.

The UE uses the connected mode measurement control information received in other states until new measurement control information has been assigned to the UE.

B.3.1.8 Acquisition of system information (CELL_DCH)

FDD UEs with certain capabilities reads system information broadcast on FACH.

TDD UEs reads the BCH to acquire valid system information. For each acquisition, the UE may need different combinations of system information broadcast on BCH. The scheduling on the broadcast channel is done in such way that the UE knows when the requested information can be found.

B.3.2 CELL_FACH state

The CELL_FACH state is characterised by:

- No dedicated physical channel is allocated to the UE.
- The UE continuously monitors a FACH in the downlink.
- The UE is assigned a default common or shared transport channel in the uplink (e.g. RACH) that it can use anytime according to the access procedure for that transport channel.
- The position of the UE is known by UTRAN on cell level according to the cell where the UE last made a cell update.
- In TDD mode, one or several USCH or DSCH transport channels may have been established.

B.3.2.1 Transition from CELL_FACH to CELL_DCH state

A transition occurs, when a dedicated physical channel is established via explicit signalling (e.g. PHYSICAL CHANNEL RECONFIGURATION, RADIO BEARER RECONFIGURATION, RADIO BEARER RELEASE, RADIO BEARER SETUP, TRANSPORT CHANNEL RECONFIGURATION, etc.).

B.3.2.2 Transition from CELL_FACH to CELL_PCH state

The transition occurs when UTRAN orders the UE to move to CELL_PCH state, which is done via explicit signalling (e.g. CELL UPDATE CONFIRM, RADIO BEARER RECONFIGURATION, etc.).

B.3.2.3 Transition from CELL_FACH to Idle Mode

Upon release of the RRC connection, the UE moves to the idle mode.

B.3.2.4 Transition from CELL_FACH to URA_PCH State

The transition occurs when UTRAN orders the UE to move to URA_PCH state, which is done via explicit signalling (e.g. URA UPDATE CONFIRM, RADIO BEARER RECONFIGURATION, etc.).

B.3.2.5 Radio Resource Allocation Tasks (CELL_FACH)

In the CELL_FACH state the UE will monitor an FACH. It is enabled to transmit uplink control signals and it may be able to transmit small data packets on the RACH.

The network can assign the UE transport channel parameters (e.g. transport format sets) in advance, to be used when a DCH is used. Upon assignment of the physical channel for DCH, the UE moves to CELL_DCH state and uses the pre-assigned TFS for the DCH.

If no UE dedicated physical channel or transport channel configuration has been assigned, the UE uses the common physical channel and transport channel configuration according to the system information.

For the uplink data transmission, the UE reports the observed traffic volume to the network in order for the network to re-evaluate the current allocation of resources. This report contains e.g. the amount of data to be transmitted or the buffer status in the UE.

When there is either user or control data to transmit, a selection procedure determines whether the data should be transmitted on a common transport channel, or if a transition to CELL_DCH should be executed. The selection is dynamic and depends on e.g. traffic parameters (amount of data, packet burst frequency).

In FDD mode, the UTRAN can assign CPCH resources to the UE in CELL_FACH state. When CPCH resources are assigned, the UE will continue to monitor FACHs. When CPCH resources are assigned, the UE will use CPCH for all uplink traffic in accordance with RB mapping.

In FDD mode, UTRAN may configure the UE to provide CPCH measurement reports of traffic volume on each CPCH channel used. With these measures, the UTRAN can reallocate network resources on a periodic basis. The UTRAN allocates CPCH Sets to each cell and assigns UEs to one of the cell's CPCH Sets. The UEs can dynamically access the CPCH resources without further UTRAN control.

In the TDD mode, the UTRAN can assign USCH / DSCH resources to the UE in CELL_FACH state. When USCH / DSCH resources are assigned, the UE will continue to monitor FACHs, depending on the UE capability. The UE may use the USCH / DSCH to transmit signalling messages or user data in the uplink and / or the downlink using USCH and / or DSCH when resources are allocated to cell and UE is assigned use of those USCH / DSCH.

For the uplink data transmission on USCH the UE reports to the network the traffic volume (current size of RLC data buffers), The UTRAN can use these measurement reports to re-evaluate the current allocation of the USCH / DSCH resources.

B.3.2.6 RRC Connection mobility tasks (CELL_FACH)

In this state the location of the UE is known on cell level. A cell update procedure is used to report to the UTRAN, when the UE selects a new cell to observe the common downlink channels of a new cell. Downlink data transmission on the FACH can be started without prior paging.

The UE monitors the broadcast channel and system information on BCCH of its own and neighbour cells and from this the need for the updating of cell location is identified.

The UE performs cell reselection and upon selecting a new UTRA cell, it initiates a cell update procedure. Upon selecting a new cell belonging to another radio access system than UTRA, the UE enters idle mode and makes an access to that system according to its specifications.

B.3.2.7 UE Measurements (CELL_FACH)

The UE performs measurements and transmit measurement reports according to the measurement control information.

By default, the UE uses the measurement control information broadcast within the system information. However, for measurements for which the network also provides measurement control information within a MEASUREMENT CONTROL message, the latter information takes precedence.

B.3.2.8 Transfer and update of system information (CELL_FACH)

The UE reads the BCH to acquire valid system information. For each acquisition, the UE may need different combinations of system information broadcast on BCH. The scheduling on the broadcast channel is done in such way that the UE knows when the requested information can be found.

When the system information is modified, the scheduling information is updated to reflect the changes in system information transmitted on BCH. The new scheduling information is broadcast on FACH in order to inform UEs about the changes. If the changes are applicable for the UE, the modified system information is read on BCH.

B.3.3 CELL_PCH state

The CELL_PCH state is characterised by:

- No dedicated physical channel is allocated to the UE.
- The UE selects a PCH with the algorithm specified in subclause 8.5.19, and uses DRX for monitoring the selected PCH via an associated PICH.
- No uplink activity is possible.
- The position of the UE is known by UTRAN on cell level according to the cell where the UE last made a cell update in CELL_FACH state.

The DCCH logical channel cannot be used in this state. If the network wants to initiate any activity, it needs to make a paging request on the PCCH logical channel in the known cell to initiate any downlink activity.

B.3.3.1 Transition from CELL_PCH to CELL_FACH state

The UE is transferred to CELL_FACH state:

- a) by paging from UTRAN (PAGING TYPE1 message)
- b) through any uplink access

B.3.3.2 Radio Resource Allocation Tasks (CELL_PCH)

In CELL_PCH state no resources have been granted for data transmission. For this purpose, a transition to another state has to be executed.

The UE may use Discontinuous Reception (DRX) in order to reduce power consumption. When DRX is used the UE needs only to receive at one paging occasion per DRX cycle. The UE may be instructed to use a specific DRX cycle length by the network. The UE determines its paging occasions in the same way as for Idle Mode, see [4].

B.3.3.3 RRC Connection mobility tasks (CELL_PCH)

In the CELL_PCH state, the UE mobility is performed through cell reselection procedures, which may differ from the one defined in [4].

The UE performs cell reselection and upon selecting a new UTRA cell, it moves to CELL_FACH state and initiates a cell update procedure in the new cell. After the cell update procedure has been performed, the UE changes its state back to CELL_PCH state if neither the UE nor the network has any more data to transmit.

Upon selecting a new cell belonging to another radio access system than UTRA, the UE enters idle mode and make an access to that system according to its specifications.

In case of low UE activity, UTRAN may want to reduce the cell-updating overhead by ordering the UE to move to the URA_PCH State. This transition is made via the CELL_FACH state. UTRAN may apply an inactivity timer, and optionally, a counter, which counts the number of cell updates e.g. UTRAN orders the UE to move to URA_PCH when the number of cell updates has exceeded certain limits (network parameter).

B.3.3.4 UE Measurements (CELL_PCH)

The UE performs measurements and transmit measurement reports according to the measurement control information.

The UE uses the measurement control information according to the system information when no UE dedicated measurement control information has been assigned.

B.3.3.5 Transfer and update of system information (CELL_PCH)

The UE reads the BCH to acquire valid system information. For each acquisition, the UE may need different combinations of system information broadcast on BCH. The scheduling on the broadcast channel is done in such way that the UE knows when the requested information can be found.

B.3.4 URA_PCH State

The URA_PCH state is characterised by:

- No dedicated channel is allocated to the UE.
- The UE selects a PCH with the algorithm specified in subclause 8.5.19, and uses DRX for monitoring the selected PCH via an associated PICH.
- No uplink activity is possible.
- The location of the UE is known on UTRAN Registration area level according to the URA assigned to the UE during the last URA update in CELL_FACH state.

The DCCH logical channel cannot be used in this state. If the network wants to initiate any activity, it needs to make a paging request on the PCCH logical channel within the URA where the location of the UE is known. If the UE needs to transmit anything to the network, it goes to the CELL_FACH state. The transition to URA_PCH State can be controlled with an inactivity timer, and optionally, with a counter that counts the number of cell updates. When the number of cell updates has exceeded certain limits (a network parameter), then the UE changes to the URA_PCH State.

URA updating is initiated by the UE, which, upon the detection of the Registration area, sends the network the Registration area update information on the RACH of the new cell.

B.3.4.1 Transition from URA_PCH State to CELL_FACH State (URA_PCH)

Any activity causes the UE to be transferred to CELL_FACH State.

- a) Uplink access is performed by RACH.
- b) by paging from UTRAN (PAGING TYPE1 message).

NOTE: The release of an RRC connection is not possible in the URA_PCH State. The UE will first move to CELL_FACH State to perform the release signalling.

B.3.4.2 Radio Resource Allocation Tasks (URA_PCH)

In URA_PCH State no resources have been granted for data transmission. For this purpose, a transition to CELL_FACH State has to be executed.

The UE may use Discontinuous Reception (DRX) in order to reduce power consumption. When DRX is used the UE needs only to receive at one paging occasion per DRX cycle. The UE may be instructed to use a specific DRX cycle length by the network. The UE determines its paging occasions in the same way as for Idle Mode, see [4].

B.3.4.3 RRC Connection mobility tasks (URA_PCH)

In URA_PCH State the location of a UE is known on UTRAN Registration area level.

In this state, the UE mobility is performed through URA reselection procedures, which may differ from the definitions in [4]. The UE performs cell reselection and upon selecting a new UTRA cell belonging to a URA that does not match the URA used by the UE, the UE moves to CELL_FACH state and initiates a URA update towards the network. After the URA update procedure has been performed, the UE changes its state back to URA_PCH state if neither the UE nor the network has any more data to transmit.

Upon selecting a new cell belonging to another radio access system than UTRA, the UE enters idle mode and makes an access to that system according to its specifications.

B.3.4.4 UE Measurements (URA_PCH)

The UE performs measurements and transmit measurement reports according to the measurement control information.

The UE uses the measurement control information according to the system information when no UE dedicated measurement control information has been assigned.

B.3.4.5 Transfer and update of system information (URA_PCH)

The same mechanisms to transfer and update system information as for state CELL_PCH are applicable for UEs in URA_PCH state.

B.3.5 States and Transitions for Cell Reselection in URA_PCH, CELL_PCH, and CELL_FACH

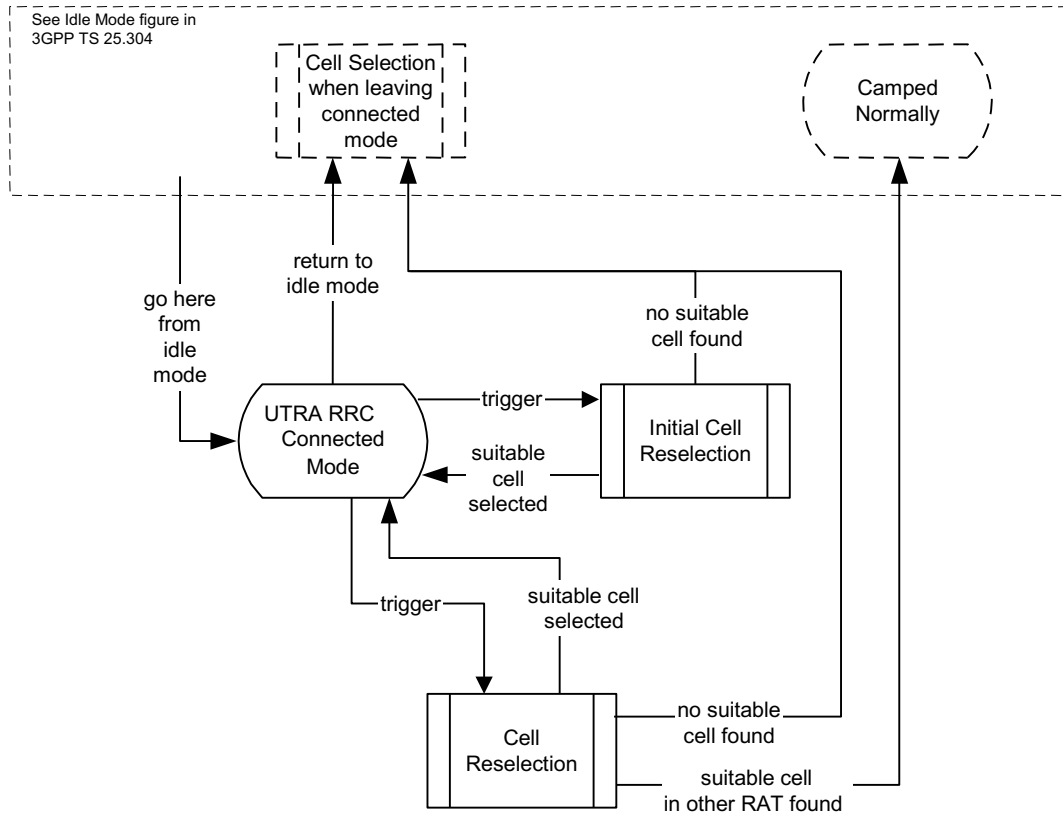


Figure B.3.5-1: UTRA RRC Connected mode cell reselection for URA_PCH, CELL_PCH, and CELL_FACH

In some states the UE performs cell reselection procedures. The UE selects a suitable cell (defined in [4]) and radio access technology based on connected mode radio measurements and cell reselection criteria.

Figure B.3.5-1 shows the states and procedures in the cell reselection process in connected mode.

When a cell reselection is triggered, the UE evaluates the cell reselection criteria based on radio measurements, and if a better cell is found that cell is selected, procedure Cell reselection (see [4]). If the change of cell implies a change of radio access technology, the RRC connection is released, and the UE enters idle mode of the other RAT. If no suitable cell is found in the cell reselection procedure, the UE eventually enters idle mode.

When an Initial cell reselection is triggered, the UE shall use the Initial cell reselection procedure (see [4]) to find a suitable cell. One example where this procedure is triggered is at radio link failure, where the UE may trigger an initial cell reselection in order to request re-establishment of the RRC connection. If the UE is unable to find a suitable cell, the UE eventually enters idle mode.

B.4 Inter-RAT handover with CS domain services

When using CS domain services, UTRAN is using an Inter-Radio access system Handover Procedure and GSM is using a Handover procedure for the transition from UTRA RRC Connected Mode to GSM Connected Mode.

B.5 Inter-RAT handover with PS domain services

When using PS domain services, the UE initiates cell reselection from a GSM/GPRS cell to a UTRAN cell and then uses the RRC Connection Establishment procedure for the transition to UTRA RRC Connected mode.

When the RRC Connection is established from Idle Mode (GPRS Packet Idle Mode) the RRC CONNECTION REQUEST message contains an indication, that UTRAN needs to continue an already established GPRS UE context from the CN. This indication allows UTRAN to e.g. prioritise the RRC CONNECTION REQUEST from the UE.

In UTRA RRC connected mode UTRAN is using UE or network initiated cell reselection to change from a UTRAN cell to a GSM/GPRS cell. If the cell reselection was successful the UE enters Idle Mode (GPRS Packet Idle Mode). The UE sends a packet channel request from Idle Mode (GPRS Packet Idle mode) to establish a Temporary Block flow and enter GPRS Packet Transfer Mode. In the GPRS Packet Transfer Mode the UE sends a RA Update request message. The RA Update Request message sent from the UE contains an indication that GSM/GPRS need to continue an already established UTRAN UE context from the CN. This means that the RA Update request is always sent for the transition from UTRA RRC Connected Mode to GSM/GPRS regardless if the RA is changed or not.

NOTE: The reason for using RA update instead of a new message is to reduce the impact on the existing GSM/GPRS specification.

B.6 Inter-RAT handover with simultaneous PS and CS domain services

B.6.1 Inter-RAT handover UTRAN to GSM / BSS

For a UE in CELL_DCH state using both CS and PS Domain services the Inter-RAT handover procedure is based on measurement reports from the UE but initiated from UTRAN.

The UE performs the Inter-RAT handover from UTRA RRC Connected Mode to GSM Connected Mode first. When the UE has sent handover complete message to GSM / BSS the UE initiates a temporary block flow towards GPRS and sends a RA update request.

If the Inter-RAT handover from UTRA RRC Connected Mode to GSM Connected Mode was successful the handover is considered as successful regardless if the UE was able to establish a temporary block flow or not towards GPRS.

In case of Inter-RAT handover failure the UE has the possibility to go back to UTRA RRC Connected Mode and re-establish the connection in the state it originated from.

B.6.2 Inter-RAT handover GSM / BSS to UTRAN

For a UE in GSM Connected Mode using both CS and PS domain services the Inter-RAT handover procedure is based on measurement reports from the UE but initiated from GSM / BSS.

The UE performs the Inter-RAT handover from GSM Connected Mode to UTRA RRC Connected Mode.

In UTRA RRC Connected Mode both services are established in parallel.

If the Inter-RAT handover from GSM Connected mode to UTRA RRC Connected Mode was successful the handover is considered as successful.

In case of Inter-RAT handover failure the UE has the possibility to go back to GSM Connected Mode and re-establish the connection in the state it originated from.

Annex C (informative): Change history

Change history							
Date	TSG #	TSG Doc.	CR	Rev	Subject/Comment	Old	New
10/1999	RP-05	RP-99524	-		Approved at TSG-RAN #5 and placed under Change Control	-	3.0.0
12/1999	RP-06	RP-99650	001		Modification of RRC procedure specifications	3.0.0	3.1.0
	RP-06	RP-99654	005	1	Introduction of Information Element for Power Control Algorithm	3.0.0	3.1.0
	RP-06	RP-99654	007	1	RRC parameters for SS DT	3.0.0	3.1.0
	RP-06	RP-99656	009	1	Inclusion of information elements for integrity protection	3.0.0	3.1.0
	RP-06	RP-99656	010	2	Security mode control procedure	3.0.0	3.1.0
	RP-06	RP-99656	011	3	Updates of the system information procedure	3.0.0	3.1.0
	RP-06	RP-99656	012	2	Inter-frequency measurements and reporting	3.0.0	3.1.0
	RP-06	RP-99656	013	1	Inter-system measurements and reporting	3.0.0	3.1.0
	RP-06	RP-99656	014	1	Additional measurements in RRC measurement messages	3.0.0	3.1.0
	RP-06	RP-99656	015	3	Value range for Measurement Information Elements	3.0.0	3.1.0
	RP-06	RP-99656	016	2	Message contents for inter system handover to UTRAN	3.0.0	3.1.0
	RP-06	RP-99652	017		Inclusion of ciphering information elements	3.0.0	3.1.0
	RP-06	RP-99651	018		Corrections and editorial changes	3.0.0	3.1.0
	RP-06	RP-99654	019	1	Algorithm for CTCF Calculation	3.0.0	3.1.0
	RP-06	RP-99651	025		Logical CH for RRC Connection Re-establishment (RRC Connection Re-establishment deleted in RAN_10, RP-000715)	3.0.0	3.1.0
	RP-06	RP-99719	026	1	Gain Factors	3.0.0	3.1.0
	RP-06	RP-99654	027	1	Parameters for CELL UPDATE CONFIRM message	3.0.0	3.1.0
	RP-06	RP-99651	028		Cell Update Cause	3.0.0	3.1.0
	RP-06	RP-99654	029	1	RRC Initialisation Information	3.0.0	3.1.0
	RP-06	RP-99656	034	1	Open loop power control for PRACH	3.0.0	3.1.0
	RP-06	RP-99652	038		Addition of the UE controlled AMR mode adaptation	3.0.0	3.1.0
	RP-06	RP-99651	039		Information elements for RLC reset	3.0.0	3.1.0
	RP-06	RP-99656	040		Support for DS-41 Initial UE Identity	3.0.0	3.1.0
	RP-06	RP-99656	042	2	Integration of Cell Broadcast Service (CBS)	3.0.0	3.1.0
	RP-06	RP-99654	044	1	Gated transmission of DPCH	3.0.0	3.1.0
	RP-06	RP-99656	045		Modification to the Transport Format Combination Control message	3.0.0	3.1.0
	RP-06	RP-99656	046		New Information elements and modifications to messages required in order to support configuration and re-configuration of the DSCH in FDD mode	3.0.0	3.1.0
	RP-06	RP-99654	047	1	Editorial Corrections and Alignments with Layer 1 specifications	3.0.0	3.1.0
	RP-06	RP-99654	048	1	Information elements for TDD shared channel operation	3.0.0	3.1.0
	RP-06	RP-99656	049		Description of CN dependent IEs in Master Information Block	3.0.0	3.1.0
	RP-06	RP-99650	050		UE capability information elements	3.0.0	3.1.0
	RP-06	RP-99656	051	1	UTRAN response time to uplink feedback commands of TX diversity control	3.0.0	3.1.0
	RP-06	RP-99654	052		New and corrected CPCH parameters	3.0.0	3.1.0
	RP-06	RP-99654	053	2	Compressed mode parameters without gating	3.0.0	3.1.0
	RP-06	RP-99654	054		Transport format combination set and transport format combination subset	3.0.0	3.1.0
	RP-06	RP-99656	055	1	Information elements for cell selection and reselection	3.0.0	3.1.0
	RP-06	RP-99654	056		Corrections and Alignments of the RRC to the L1 for TDD	3.0.0	3.1.0
	RP-06	RP-99656	057	1	Introduction of a SCCH procedure	3.0.0	3.1.0
	RP-06	RP-99656	061		Support for DS-41 Paging UE Identity	3.0.0	3.1.0
	RP-06	RP-99656	062	2	Support for cdma2000 Hard Handover	3.0.0	3.1.0
	RP-06	RP-99656	063	1	Provide necessary signalling to support FDD DSCH	3.0.0	3.1.0
	RP-06	RP-99654	064		RRC procedure interactions	3.0.0	3.1.0
	RP-06	RP-99654	066	1	Transfer of UE capabilities	3.0.0	3.1.0
	RP-06	RP-99654	067		Selection of initial UE identity	3.0.0	3.1.0
	RP-06	RP-99657	069		UE capability verification in the security mode control procedure	3.0.0	3.1.0
	RP-06	RP-99657	070	1	DPCH initial power	3.0.0	3.1.0
	RP-06	RP-99657	071		Actions when entering idle mode	3.0.0	3.1.0
	RP-06	RP-99657	072		Specification of inter-frequency and inter-system reporting events for FDD	3.0.0	3.1.0

Change history							
Date	TSG #	TSG Doc.	CR	Rev	Subject/Comment	Old	New
	RP-06	RP-99657	073	1	Signalling radio bearers	3.0.0	3.1.0
	RP-06	RP-99654	074		CN information elements	3.0.0	3.1.0
	RP-06	RP-99654	076		UE information elements	3.0.0	3.1.0
	RP-06	RP-99657	077	1	Radio bearer, transport channel and physical channel information elements	3.0.0	3.1.0
	RP-06	RP-99654	078		Other information elements	3.0.0	3.1.0
	RP-06	RP-99657	079	2	RRC signalling for PDCP	3.0.0	3.1.0
	RP-06	RP-99654	080		Content of Measurement Control Messages	3.0.0	3.1.0
	RP-06	RP-99654	081		RRC Information Elements to support Block STTD transmission diversity in TDD	3.0.0	3.1.0
	RP-06	RP-99657	082	1	Signalling connection release	3.0.0	3.1.0
	RP-06	RP-99657	083	1	Addition of cell access restriction information elements to System Information	3.0.0	3.1.0
	RP-06	RP-99655	085	1	RRC Connection Establishment parameters	3.0.0	3.1.0
	RP-06	RP-99657	092	1	Support of UE autonomous update of a active set on a non-used frequency	3.0.0	3.1.0
	RP-06	RP-99657	095	1	TPC combining for power control	3.0.0	3.1.0
	RP-06	RP-99653	096	1	Editorial Modification of IEs in RRC messages	3.0.0	3.1.0
	RP-06	RP-99655	097		Selection of SCCPCH	3.0.0	3.1.0
	RP-06	RP-99655	098	1	RRC Initialisation Information	3.0.0	3.1.0
	RP-06	RP-99657	100	1	Support of physical channel establishment and failure criteria in the UE	3.0.0	3.1.0
	RP-06	RP-99655	102	1	RRC Connection Re-establishment (Message deleted in RAN_10, RP-000715)	3.0.0	3.1.0
	RP-06	RP-99657	106	1	System information on FACH	3.0.0	3.1.0
	RP-06	RP-99657	108	1	SAPs and Primitives for DS-41 mode	3.0.0	3.1.0
	RP-06	RP-99655	109	1	TX Diversity Mode for Dedicated Channel	3.0.0	3.1.0
	RP-06	RP-99657	110	1	RACH message length signalling on System Information	3.0.0	3.1.0
	RP-06	RP-99657	113	1	Routing of NAS messages in UTRAN	3.0.0	3.1.0
	RP-06	RP-99655	116	3	TBS Identification in TFS	3.0.0	3.1.0
	RP-06	RP-99657	117	1	Merging the hard handover and some radio bearer control procedures	3.0.0	3.1.0
	RP-06	RP-99653	120	1	Selected RRC message transfer syntax	3.0.0	3.1.0
	RP-06	RP-99657	121		Efficient rate command signalling	3.0.0	3.1.0
03/2000	RP-07	RP-000043	122		TDD Mode BCH Reception in Cell DCH State	3.1.0	3.2.0
	RP-07	RP-000043	123		Uplink Outer Loop Power Control in TDD Mode	3.1.0	3.2.0
	RP-07	RP-000043	124	1	TFS TB Size Calculation with Bit Aligned TDD MAC Headers	3.1.0	3.2.0
	RP-07	RP-000043	125		Grouping of DRAC IEs, and detailed definitions of these IEs	3.1.0	3.2.0
	RP-07	RP-000043	126		Correction of specifications for the 'Dynamic Resource Allocation Control of Uplink DCH' Procedure	3.1.0	3.2.0
	RP-07	RP-000043	131	2	Clarification of PDCP info and PDCP capability IEs	3.1.0	3.2.0
	RP-07	RP-000043	132		Editorial change to "Specification of system information block characteristics"	3.1.0	3.2.0
	RP-07	RP-000043	133		Additions of CBS related Information Elements	3.1.0	3.2.0
	RP-07	RP-000043	134		Signalling for computed gain factors	3.1.0	3.2.0
	RP-07	RP-000043	137	1	General error handling procedures	3.1.0	3.2.0
	RP-07	RP-000043	138	1	RRC message extensions	3.1.0	3.2.0
	RP-07	RP-000043	139		Padding of RRC messages using RLC transparent mode	3.1.0	3.2.0
	RP-07	RP-000043	140	2	UE information elements	3.1.0	3.2.0
	RP-07	RP-000043	141		Other information elements	3.1.0	3.2.0
	RP-07	RP-000043	142	3	Integrity protection function	3.1.0	3.2.0
	RP-07	RP-000043	143	4	RAB-RB relations	3.1.0	3.2.0
	RP-07	RP-000043	144	1	Inter-system handover from UTRAN	3.1.0	3.2.0
	RP-07	RP-000043	145	3	Handover to UTRAN including procedure for pre- configuration	3.1.0	3.2.0
	RP-07	RP-000043	146	2	RRC measurement filtering parameters	3.1.0	3.2.0
	RP-07	RP-000043	147		New event "RL out of UE Rx window"	3.1.0	3.2.0
	RP-07	RP-000044	148	1	Access control on RACH	3.1.0	3.2.0
	RP-07	RP-000044	149	2	cdma2000 Hard Handover	3.1.0	3.2.0
	RP-07	RP-000044	150	1	CPCH parameters with corrections	3.1.0	3.2.0
	RP-07	RP-000044	152		U-plane AM RLC reconfiguration by cell update procedure	3.1.0	3.2.0

Change history							
Date	TSG #	TSG Doc.	CR	Rev	Subject/Comment	Old	New
	RP-07	RP-000044	154	3	CPCCH	3.1.0	3.2.0
	RP-07	RP-000044	155	1	Information elements for ASC in TDD	3.1.0	3.2.0
	RP-07	RP-000044	156		Addition of timing advance value in handover related messages	3.1.0	3.2.0
	RP-07	RP-000044	157	2	Physical channel description for TDD	3.1.0	3.2.0
	RP-07	RP-000044	159		Message contents for the intersystem command message to UTRAN operating in TDD mode	3.1.0	3.2.0
	RP-07	RP-000044	160		Corrections on use of PUSCH power control info and minor corrections	3.1.0	3.2.0
	RP-07	RP-000044	162	2	UE individual DRX cycles in CELL_PCH and URA_PCH states	3.1.0	3.2.0
	RP-07	RP-000044	163		Correction to Transport Format Combination Control procedure	3.1.0	3.2.0
	RP-07	RP-000044	164	3	Downlink outer loop power control	3.1.0	3.2.0
	RP-07	RP-000044	165	2	Redirection of RRC connection setup	3.1.0	3.2.0
	RP-07	RP-000044	166	2	Inter-frequency measurements in CELL_FACH state	3.1.0	3.2.0
	RP-07	RP-000044	167		List of found editorial mistakes in the Dec99 version of 25.331 (V3.1.0)	3.1.0	3.2.0
	RP-07	RP-000044	168	1	Transport block size	3.1.0	3.2.0
	RP-07	RP-000044	169	1	Cell Access Restriction	3.1.0	3.2.0
	RP-07	RP-000044	170		Editorial modification	3.1.0	3.2.0
	RP-07	RP-000044	171		Modification of DPCH info	3.1.0	3.2.0
	RP-07	RP-000045	172	1	Measurement control message	3.1.0	3.2.0
	RP-07	RP-000045	173	2	Reporting cell status	3.1.0	3.2.0
	RP-07	RP-000045	174		Additional IE for RB release	3.1.0	3.2.0
	RP-07	RP-000045	175		Available SF in PRACH info	3.1.0	3.2.0
	RP-07	RP-000045	176		Traffic volume measurement event	3.1.0	3.2.0
	RP-07	RP-000045	177		Report of multiple cells on an event result	3.1.0	3.2.0
	RP-07	RP-000045	178		Editorial modification on Direct Transfer	3.1.0	3.2.0
	RP-07	RP-000045	179		Correction of the Security Mode Control procedure	3.1.0	3.2.0
	RP-07	RP-000045	180	1	Maximum calculated Transport Format Combination	3.1.0	3.2.0
	RP-07	RP-000045	183		Additional DPCH IEs to align 25.331 with 25.214	3.1.0	3.2.0
	RP-07	RP-000045	184	1	RB – DCH mapping	3.1.0	3.2.0
	RP-07	RP-000045	188	1	Modifications related to FDD mode DSCH	3.1.0	3.2.0
	RP-07	RP-000045	189	1	Identification of Shared Channel Physical Configuration in TDD Mode	3.1.0	3.2.0
	RP-07	RP-000045	192	1	Uplink Outer Loop Power Control During Hard Handover	3.1.0	3.2.0
	RP-07	RP-000045	193		Support of Multiple CCTrCH's in TDD Mode	3.1.0	3.2.0
	RP-07	RP-000045	194	1	Uplink Physical Channel Control in TDD Mode	3.1.0	3.2.0
	RP-07	RP-000045	201	1	Transfer of initial information from UE to target RNC prior to handover to UTRAN	3.1.0	3.2.0
	RP-07	RP-000045	202	1	CN information elements	3.1.0	3.2.0
	RP-07	RP-000045	203		UTRAN mobility information elements	3.1.0	3.2.0
	RP-07	RP-000045	204	1	RB information elements	3.1.0	3.2.0
	RP-07	RP-000046	205	1	Physical channel information elements	3.1.0	3.2.0
	RP-07	RP-000046	206	1	UE capability information elements	3.1.0	3.2.0
	RP-07	RP-000046	207		UE variables	3.1.0	3.2.0
	RP-07	RP-000046	208	1	Actions when entering idle mode	3.1.0	3.2.0
	RP-07	RP-000046	209		Usage of pilot bits	3.1.0	3.2.0
	RP-07	RP-000046	210		System information procedure corrections	3.1.0	3.2.0
	RP-07	RP-000046	212		Reconfiguration of ciphering	3.1.0	3.2.0
	RP-07	RP-000046	213	1	Enhancements to RRC connection re-establishment procedure (Message subsequently deleted in RAN !), RP-000715)	3.1.0	3.2.0
	RP-07	RP-000046	215		Updates to RRC Initialisation Information transparent container and addition of reverse direction container description	3.1.0	3.2.0
	RP-07	RP-000046	220	1	Changes in RRC messages to support lossless SRNC relocation	3.1.0	3.2.0
	RP-07	RP-000046	229	1	Measurements of unlisted neighbouring cells	3.1.0	3.2.0
	RP-07	RP-000046	234	2	Inclusion of Location Services	3.1.0	3.2.0
	RP-07	RP-000046	236	1	Application of Access Service Classes and relation to Access Classes	3.1.0	3.2.0
	RP-07	RP-000046	252	1	DRX indicator presence and state entering mechanism at the end of a procedure	3.1.0	3.2.0
	RP-07	RP-000046	254	1	Physical shared channel allocation procedure	3.1.0	3.2.0

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Date	TSG #	TSG Doc.	CR	Rev	Subject/Comment	Old	New
	RP-07	RP-000046	255		Corrections to TDD specific parameters in PICH info	3.1.0	3.2.0
	RP-07	RP-000046	256		Editorial modifications	3.1.0	3.2.0
	RP-07	RP-000046	259	2	Introduction of mapping function information in Cell selection and	3.1.0	3.2.0
	RP-07	RP-000046	263		Ciphering and integrity HFN	3.1.0	3.2.0
	RP-07	RP-000046	267		New SIB for UP	3.1.0	3.2.0
	RP-07	RP-000047	268		Removal of synchronization Case 3	3.1.0	3.2.0
	RP-07	RP-000047	271		TX Diversity	3.1.0	3.2.0
	RP-07	RP-000047	272		Update of tabular format clause 10	3.1.0	3.2.0
	RP-07	RP-000047	273		ASN.1 description	3.1.0	3.2.0
06/2000	RP-08	RP-000222	228	5	Downlink power control in compressed mode	3.2.0	3.3.0
	RP-08	RP-000222	260	1	Clarification on physical channel allocations in TDD	3.2.0	3.3.0
	RP-08	RP-000222	261	4	TDD Measurements and Reporting	3.2.0	3.3.0
	RP-08	RP-000222	262	4	Signalling of IEs related to System Information on FACH	3.2.0	3.3.0
	RP-08	RP-000222	265	3	Transport Format Combination Control	3.2.0	3.3.0
	RP-08	RP-000222	269	1	Signalling of partial failure in radio bearer related procedures	3.2.0	3.3.0
	RP-08	RP-000222	275		Clarification on PDCP info	3.2.0	3.3.0
	RP-08	RP-000222	279		Editorial modification on Transport Ch capability	3.2.0	3.3.0
	RP-08	RP-000222	280		Editorial modification on CN IE	3.2.0	3.3.0
	RP-08	RP-000222	281	3	Editorial modification on Physical CH IE	3.2.0	3.3.0
	RP-08	RP-000222	282	1	Editorial modification on ASN.1 description	3.2.0	3.3.0
	RP-08	RP-000222	283	1	IEs on SIB5/6	3.2.0	3.3.0
	RP-08	RP-000222	285	2	Re-establishment timer	3.2.0	3.3.0
	RP-08	RP-000222	286	1	CN DRX cycle coefficient	3.2.0	3.3.0
	RP-08	RP-000222	287	1	Cell Access Restriction	3.2.0	3.3.0
	RP-08	RP-000222	288	1	Cell selection and re-selection parameters	3.2.0	3.3.0
	RP-08	RP-000222	289	2	Modification on Measurement IE	3.2.0	3.3.0
	RP-08	RP-000222	291	1	RACH Transmission parameters	3.2.0	3.3.0
	RP-08	RP-000222	292	1	SCCPCH System Info	3.2.0	3.3.0
	RP-08	RP-000222	293	1	Addition of HFN for RRC CONNECTION RE-ESTABLISHMENT COMPLETE	3.2.0	3.3.0
	RP-08	RP-000223	294	1	RLC reconfiguration indicator	3.2.0	3.3.0
	RP-08	RP-000223	296	3	RLC Info	3.2.0	3.3.0
	RP-08	RP-000223	297	1	Usage of Transport CH ID	3.2.0	3.3.0
	RP-08	RP-000223	298	2	Transport format combination set	3.2.0	3.3.0
	RP-08	RP-000223	300	1	Usage of U-RNTI and C-RNTI in DL DCCH message	3.2.0	3.3.0
	RP-08	RP-000223	301		Description of Cell Update Procedure	3.2.0	3.3.0
	RP-08	RP-000223	304	1	System information modification procedure	3.2.0	3.3.0
	RP-08	RP-000223	305		Functional descriptions of the RRC messages	3.2.0	3.3.0
	RP-08	RP-000223	306		Clarification of CTFC calculation	3.2.0	3.3.0
	RP-08	RP-000223	307	3	Compressed mode parameters	3.2.0	3.3.0
	RP-08	RP-000223	309	2	Signalling procedure for periodic local authentication	3.2.0	3.3.0
	RP-08	RP-000223	310	5	Editorial corrections on security	3.2.0	3.3.0
	RP-08	RP-000223	311	2	Security capability	3.2.0	3.3.0
	RP-08	RP-000223	312	1	Corrections on ASN.1 definitions	3.2.0	3.3.0
	RP-08	RP-000223	313	2	DRX cycle lower limit	3.2.0	3.3.0
	RP-08	RP-000223	314	1	Removal of CPICH SIR measurement quantity	3.2.0	3.3.0
	RP-08	RP-000223	315	1	Signalling connection release request	3.2.0	3.3.0
	RP-08	RP-000223	318	1	Change to IMEI coding from BCD to hexadecimal	3.2.0	3.3.0
	RP-08	RP-000223	319	1	Removal of RLC sequence numbers from RRC initialisation information	3.2.0	3.3.0
	RP-08	RP-000223	320	3	Addition of the length of PDCP sequence numbers into PDCP info	3.2.0	3.3.0
	RP-08	RP-000224	323	1	BSIC verification of GSM cells	3.2.0	3.3.0
	RP-08	RP-000224	324		Reporting cell status	3.2.0	3.3.0
	RP-08	RP-000224	325		RRC measurement filtering parameters	3.2.0	3.3.0
	RP-08	RP-000224	326		Cell-reselection parameter signalling	3.2.0	3.3.0
	RP-08	RP-000224	328	3	Multiplicity values	3.2.0	3.3.0
	RP-08	RP-000224	329		Quality measurements	3.2.0	3.3.0

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Date	TSG #	TSG Doc.	CR	Rev	Subject/Comment	Old	New
	RP-08	RP-000224	330	4	CPCH Status Indication mode correction	3.2.0	3.3.0
	RP-08	RP-000224	331	4	End of CPCH transmission	3.2.0	3.3.0
	RP-08	RP-000224	332		Handover to UTRAN procedure	3.2.0	3.3.0
	RP-08	RP-000224	333		Harmonization of access service classes in FDD and TDD	3.2.0	3.3.0
	RP-08	RP-000224	334	1	Correction to usage of primary CCPCH info and primary CPICH info	3.2.0	3.3.0
	RP-08	RP-000224	335		Corrections and clarifications on system information handling	3.2.0	3.3.0
	RP-08	RP-000224	336		Editorial corrections	3.2.0	3.3.0
	RP-08	RP-000224	337	1	Editorial corrections on uplink timing advance	3.2.0	3.3.0
	RP-08	RP-000224	339		Correction of Transport Format Combination tabular format and ASN.1	3.2.0	3.3.0
	RP-08	RP-000224	340	1	UE variables	3.2.0	3.3.0
	RP-08	RP-000224	342	1	General error handling	3.2.0	3.3.0
	RP-08	RP-000224	344	1	System Information extensibility in ASN.1 definitions	3.2.0	3.3.0
	RP-08	RP-000224	345		Usage of pilot bits	3.2.0	3.3.0
	RP-08	RP-000224	346	3	RRC connection release procedure	3.2.0	3.3.0
	RP-08	RP-000225	347	1	Alignment of Section 10.3 on methodology defined in 25.921	3.2.0	3.3.0
	RP-08	RP-000225	348		Modifications of cell (re)selection parameters	3.2.0	3.3.0
	RP-08	RP-000225	350	1	GPS time-of-week represented as seconds and fractions of seconds	3.2.0	3.3.0
	RP-08	RP-000225	351	2	CPCH corrections	3.2.0	3.3.0
	RP-08	RP-000225	352		PLMN type selection	3.2.0	3.3.0
	RP-08	RP-000225	353	3	Paging and establishment cause values	3.2.0	3.3.0
	RP-08	RP-000225	354		Common channel configurations	3.2.0	3.3.0
	RP-08	RP-000225	355	2	Clarification of prioritization of logical channels in UE	3.2.0	3.3.0
	RP-08	RP-000225	357	2	UE capability corrections	3.2.0	3.3.0
	RP-08	RP-000225	358	2	Clarification of HFN	3.2.0	3.3.0
	RP-08	RP-000225	359	3	Clarification of Integrity Protection	3.2.0	3.3.0
	RP-08	RP-000225	360	1	RRC message size optimization regarding TrCH parameters	3.2.0	3.3.0
	RP-08	RP-000225	361		Protocol extensions in ASN	3.2.0	3.3.0
	RP-08	RP-000225	362	1	Downloading of pre- defined configurations via SIB 16	3.2.0	3.3.0
	RP-08	RP-000225	363	1	Optimization of System Information	3.2.0	3.3.0
	RP-08	RP-000225	364	1	CPCH gain factor	3.2.0	3.3.0
	RP-08	RP-000225	368	2	SFN Transmission Rate in TDD Mode	3.2.0	3.3.0
	RP-08	RP-000225	371	1	Integrity Control	3.2.0	3.3.0
	RP-08	RP-000225	372		Modification to measurement event evaluation	3.2.0	3.3.0
	RP-08	RP-000225	373		System Information related parameters	3.2.0	3.3.0
	RP-08	RP-000226	375	1	Changes in RB mapping info	3.2.0	3.3.0
	RP-08	RP-000226	377		Editorial corrections to PRACH system information and Cell info	3.2.0	3.3.0
	RP-08	RP-000226	378		Editorial Corrections to 25.331 Procedures and Tabular Format	3.2.0	3.3.0
	RP-08	RP-000226	379	1	Corrections to figures and procedures for the failure cases	3.2.0	3.3.0
	RP-08	RP-000226	380		Corrections on use of ORDERED_CONFIG	3.2.0	3.3.0
	RP-08	RP-000226	382	1	Corrections to Transport Channel and RB Reconfiguration procedures	3.2.0	3.3.0
	RP-08	RP-000226	383	1	Corrections to INITIAL DIRECT TRANSFER and UE CAPABILITY INFORMATION CONFIRM procedures	3.2.0	3.3.0
	RP-08	RP-000226	384		Corrections to Transparent mode signalling info Tabular format and ASN.1	3.2.0	3.3.0
	RP-08	RP-000226	385		Corrections to Soft Handover messages and procedures	3.2.0	3.3.0
	RP-08	RP-000226	387		Corrections to RRC CONNECTION REJECT procedures	3.2.0	3.3.0
	RP-08	RP-000226	388	1	Transport format combination in TDD and Transport channel ID	3.2.0	3.3.0
	RP-08	RP-000226	389	1	Signalling for dynamic TTI in TDD	3.2.0	3.3.0
	RP-08	RP-000226	390	1	Usage of DCCH for Shared Channel Allocation message	3.2.0	3.3.0
	RP-08	RP-000226	391	1	Correction to physical channel IEs in TDD	3.2.0	3.3.0
	RP-08	RP-000226	392	1	TDD preconfiguration for Handover to UTRAN	3.2.0	3.3.0
	RP-08	RP-000226	393		Corrections to measurement control descriptions and messages	3.2.0	3.3.0
	RP-08	RP-000226	394	1	Corrections on ASN.1 definitions	3.2.0	3.3.0
	RP-08	RP-000226	395		Addition of the Segmentation indication field for transparent mode RLC in the RLC Info	3.2.0	3.3.0

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Date	TSG #	TSG Doc.	CR	Rev	Subject/Comment	Old	New
	RP-08	RP-000226	396	1	Radio Bearer identity for CCCH	3.2.0	3.3.0
	RP-08	RP-000226	397	1	ASN.1 definitions for RRC information between network nodes	3.2.0	3.3.0
	RP-08	RP-000227	398	1	NAS Routing	3.2.0	3.3.0
	RP-08	RP-000227	399		DPCCH power control preamble	3.2.0	3.3.0
	RP-08	RP-000227	400	2	Modifications of Assisted GPS Messages	3.2.0	3.3.0
	RP-08	RP-000227	401		Choice of Initial UE Identity	3.2.0	3.3.0
	RP-08	RP-000227	402		ANSI-41 information elements	3.2.0	3.3.0
	RP-08	RP-000227	404	1	RLC value ranges	3.2.0	3.3.0
	RP-08	RP-000227	408	1	HFN Reset	3.2.0	3.3.0
	RP-08	RP-000227	409	1	Clarification on ciphering parameters and integrity protection procedure in case of SRNS relocation	3.2.0	3.3.0
	RP-08	RP-000227	410	1	Clarification of compressed mode activation and configuration failure	3.2.0	3.3.0
	RP-08	RP-000227	412	1	Modification of the RLC Size IE	3.2.0	3.3.0
	RP-08	RP-000227	414		CPCH DL Power control	3.2.0	3.3.0
	RP-08	RP-000227	415	1	SFN measurements in TDD	3.2.0	3.3.0
09/2000	RP-09	RP-000361	356	3	Clarification on multiplicity of PCH and PICH and S-CCPCH selection	3.3.0	3.4.0
	RP-09	RP-000361	403	3	Parameters to be stored in the USIM	3.3.0	3.4.0
	RP-09	RP-000361	413	3	Optimization of Inter-system handover message	3.3.0	3.4.0
	RP-09	RP-000361	416	2	Timing Advance in Handover Procedures	3.3.0	3.4.0
	RP-09	RP-000361	417	2	Synchronization of Timing Advance and Timing Deviation Measurement	3.3.0	3.4.0
	RP-09	RP-000361	418		Downlink Physical Channels Per Timeslot	3.3.0	3.4.0
	RP-09	RP-000361	419		TDD Mode DCH Reception in Cell DCH State	3.3.0	3.4.0
	RP-09	RP-000361	420	2	Downlink Power Control During DTX in TDD Mode	3.3.0	3.4.0
	RP-09	RP-000361	421	1	Paging Indicator Length Definition	3.3.0	3.4.0
	RP-09	RP-000361	422		Updating & alignment of RRC containers & handover to UTRAN information transfer	3.3.0	3.4.0
	RP-09	RP-000361	424		Default values for UE timers and counters	3.3.0	3.4.0
	RP-09	RP-000361	425	1	Security mode control	3.3.0	3.4.0
	RP-09	RP-000361	426	1	Corrections and Editorial updates to chapter 8	3.3.0	3.4.0
	RP-09	RP-000361	427		Corrections and editorial updates to chapter 10	3.3.0	3.4.0
	RP-09	RP-000361	428		Transition from CELL_DCH to CELL_PCH and URA_PCH state	3.3.0	3.4.0
	RP-09	RP-000361	430		Assisted GPS Messaging and Procedures	3.3.0	3.4.0
	RP-09	RP-000361	431	2	Corrections to Activation Time use	3.3.0	3.4.0
	RP-09	RP-000361	432		Editorial Corrections to measurement reporting range	3.3.0	3.4.0
	RP-09	RP-000361	434	4	Default DPCH offset value and DPCH offset	3.3.0	3.4.0
	RP-09	RP-000361	435	3	RLC info	3.3.0	3.4.0
	RP-09	RP-000362	437		Clarification of the description of IE semantics in "RB with PDCP information"	3.3.0	3.4.0
	RP-09	RP-000362	438	1	Editorial corrections on security	3.3.0	3.4.0
	RP-09	RP-000362	439		Editorial correction to RB mapping info	3.3.0	3.4.0
	RP-09	RP-000362	440	1	Compressed mode configuration failure	3.3.0	3.4.0
	RP-09	RP-000362	441		Gain factors for TDD	3.3.0	3.4.0
	RP-09	RP-000362	442		Introduction of Default DPCH Offset Value in TDD	3.3.0	3.4.0
	RP-09	RP-000362	444	1	Optimization of handover to UTRAN command	3.3.0	3.4.0
	RP-09	RP-000362	445		Editorial corrections	3.3.0	3.4.0
	RP-09	RP-000362	448	1	Mapping of channelisation code	3.3.0	3.4.0
	RP-09	RP-000362	449	2	DL TFCS Limitation	3.3.0	3.4.0
	RP-09	RP-000362	450		SIB offset	3.3.0	3.4.0
	RP-09	RP-000362	451		RRC CONNECTION RELEASE cause	3.3.0	3.4.0
	RP-09	RP-000362	452		Addition of RACH TFCS	3.3.0	3.4.0
	RP-09	RP-000362	453	2	Cell Identity	3.3.0	3.4.0
	RP-09	RP-000362	454		Editorial Modifications	3.3.0	3.4.0
	RP-09	RP-000362	455	1	TDD PRACH Power Control for Spreading Factor 8/16	3.3.0	3.4.0
	RP-09	RP-000362	456		TDD CCTrCH Repetition Length Definition	3.3.0	3.4.0
	RP-09	RP-000362	457	1	Reporting threshold of traffic volume measurements	3.3.0	3.4.0
	RP-09	RP-000362	459	2	UP GPS assistance data for SIB	3.3.0	3.4.0

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Date	TSG #	TSG Doc.	CR	Rev	Subject/Comment	Old	New
	RP-09	RP-000362	461	1	Support of cell update confirm on CCCH	3.3.0	3.4.0
	RP-09	RP-000363	462	1	Max Window Size in RLC capabilities	3.3.0	3.4.0
	RP-09	RP-000363	463	3	UE handling of CFN	3.3.0	3.4.0
	RP-09	RP-000363	464	1	Correction of padding description in clause 12	3.3.0	3.4.0
	RP-09	RP-000363	465	1	Window size in RLC info	3.3.0	3.4.0
	RP-09	RP-000363	466	1	TFC Control Duration	3.3.0	3.4.0
	RP-09	RP-000363	467		System Information Block Tabular Information	3.3.0	3.4.0
	RP-09	RP-000363	469	1	Frequency encoding in inter-system handover messages	3.3.0	3.4.0
	RP-09	RP-000363	470		RRC message size optimization regarding TFS parameters	3.3.0	3.4.0
	RP-09	RP-000363	471	2	RACH selection	3.3.0	3.4.0
	RP-09	RP-000363	472		DRX cycle lower limit	3.3.0	3.4.0
	RP-09	RP-000363	474		Rx window size in RLC info	3.3.0	3.4.0
	RP-09	RP-000363	476	1	Corrections & optimizations regarding system information blocks of length 215..221	3.3.0	3.4.0
	RP-09	RP-000363	477	1	Corrections on 8.1.1 resulting from RRC review at R2#14	3.3.0	3.4.0
	RP-09	RP-000363	478	1	Corrections to the RRC connection release procedure	3.3.0	3.4.0
	RP-09	RP-000363	479	1	New release cause for signalling connection re-establishment	3.3.0	3.4.0
	RP-09	RP-000363	480	1	Correction to IE midamble shift and burst type	3.3.0	3.4.0
	RP-09	RP-000363	481	1	Correction in RLC info	3.3.0	3.4.0
	RP-09	RP-000363	483		Description of CTCH occasions	3.3.0	3.4.0
	RP-09	RP-000363	485	1	TDD CCTrCH UL/DL Pairing for Inner Loop Power Control	3.3.0	3.4.0
	RP-09	RP-000363	486	1	DCCH and BCCH Signalling of TDD UL OL PC Information	3.3.0	3.4.0
	RP-09	RP-000364	487	1	Broadcast SIBs for TDD UL OL PC Information	3.3.0	3.4.0
	RP-09	RP-000364	490	1	CPCH corrections	3.3.0	3.4.0
	RP-09	RP-000364	492	3	Corrections to Security IEs	3.3.0	3.4.0
	RP-09	RP-000364	494	1	Corrections to parameters to be stored in the USIM	3.3.0	3.4.0
	RP-09	RP-000364	496		Editorial corrections	3.3.0	3.4.0
	RP-09	RP-000364	497	2	Physical Shared Channel Allocation procedure	3.3.0	3.4.0
	RP-09	RP-000364	498		Correction to Transport Format Combination Control Message	3.3.0	3.4.0
	RP-09	RP-000364	499	1	Usage of Cell Parameter ID	3.3.0	3.4.0
	RP-09	RP-000364	500		RB description for SHCCH	3.3.0	3.4.0
	RP-09	RP-000364	501	1	Use of LI in UM	3.3.0	3.4.0
	RP-09	RP-000364	502	1	Minor Corrections to RRC Protocol Specification	3.3.0	3.4.0
	RP-09	RP-000364	503	1	Correction to Cell Update Cause	3.3.0	3.4.0
	RP-09	RP-000364	504		Correction on T307 definition	3.3.0	3.4.0
	RP-09	RP-000364	505		Corrections to relative priorities in RRC Protocol	3.3.0	3.4.0
	RP-09	RP-000364	506		Unification of Reconfiguration Procedures	3.3.0	3.4.0
	RP-09	RP-000364	507	1	Changes to section 8.2 proposed at Paris RRC Ad Hoc	3.3.0	3.4.0
	RP-09	RP-000364	508		Establishment Cause	3.3.0	3.4.0
	RP-09	RP-000364	509	1	PRACH partitioning	3.3.0	3.4.0
	RP-09	RP-000364	510		Editorial Correction on Active Set Update	3.3.0	3.4.0
	RP-09	RP-000364	511		Editorial Correction regarding system information	3.3.0	3.4.0
	RP-09	RP-000365	512	1	Clarification on Reporting Cell Status	3.3.0	3.4.0
	RP-09	RP-000365	513	1	Editorial corrections on RRC Connection Establishment and Release procedures NOTE: In subclause 8.1.4.6, the change from "decrease" to "increase" for V308 was decided to be incorrect after discussion on the TSG-RAN WG2 reflector and was not implemented	3.3.0	3.4.0
	RP-09	RP-000365	514		Gated Transmission Control Info	3.3.0	3.4.0
	RP-09	RP-000365	515	1	Cell selection/reselection parameters for SIB 3/4	3.3.0	3.4.0
	RP-09	RP-000365	516		Implementation of Ec/N0 parameters and optimization of SIB 11/12	3.3.0	3.4.0
	RP-09	RP-000365	517		PRACH Info	3.3.0	3.4.0
	RP-09	RP-000365	518	1	Uplink DPCH power control info	3.3.0	3.4.0
	RP-09	RP-000365	519		AICH power offset value range	3.3.0	3.4.0
	RP-09	RP-000365	520		Direct paging of RRC connected UE in CELL_PCH/URA_PCH NOTE: This CR was postponed in TSG-RAN #9 and was wrongly included in v3.4.0. This was corrected in v3.4.1	3.3.0	3.4.0
	RP-09	RP-000365	521		Corrections to Sections 1-7	3.3.0	3.4.0
	RP-09	RP-000365	522		Error handling for Uplink Physical Channel Control procedure	3.3.0	3.4.0

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Date	TSG #	TSG Doc.	CR	Rev	Subject/Comment	Old	New
	RP-09	RP-000365	523		Corrections to downlink outer loop power control in compressed mode	3.3.0	3.4.0
	RP-09	RP-000365	524	1	Clarification on measurement procedure using compressed mode	3.3.0	3.4.0
	RP-09	RP-000365	525	1	Updates to cell and URA update procedures based on RRC Ad Hoc	3.3.0	3.4.0
	RP-09	RP-000365	526	1	Updates to RNTI allocation procedure based on RRC Ad Hoc	3.3.0	3.4.0
	RP-09	RP-000365	528		PRACH constant value	3.3.0	3.4.0
	RP-09	RP-000365	530	1	Corrections to the paging procedure	3.3.0	3.4.0
	RP-09	RP-000365	532	1	Moving of text from 25.304	3.3.0	3.4.0
	RP-09	RP-000365	533	1	Message extensibility	3.3.0	3.4.0
	RP-09	RP-000365	534	1	Additions to "State of RRC Procedure" in RRC Initialisation information, source RNC to target RNC	3.3.0	3.4.0
	RP-09	RP-000365	535	1	Support of codec negotiation	3.3.0	3.4.0
	-	-	-		Removal of contents of CR 520 from v3.4.0, because it was postponed at TSG-RAN #9 and by accident included anyway.	3.4.0	3.4.1
12/2000	RP-10	RP-000570	536		Downlink outer-loop power control in compressed mode	3.4.1	3.5.0
	RP-10	RP-000570	537	1	Correction in the use of "U-RNTI Short"	3.4.1	3.5.0
	RP-10	RP-000570	538		Corrections related to UE Timing	3.4.1	3.5.0
	RP-10	RP-000570	539		Corrections to SFN-SFN definition	3.4.1	3.5.0
	RP-10	RP-000570	541	1	Corrections to definition and use of Activation Time	3.4.1	3.5.0
	RP-10	RP-000570	542		Corrections to logical channel priorities	3.4.1	3.5.0
	RP-10	RP-000570	543	1	Correction to codec negotiation	3.4.1	3.5.0
	RP-10	RP-000570	544	1	CFN-SFN observed time difference measurement	3.4.1	3.5.0
	RP-10	RP-000570	545	1	Correction to timing indication for hard handover	3.4.1	3.5.0
	RP-10	RP-000570	546	1	UE Radio Access Capability Corrections	3.4.1	3.5.0
	RP-10	RP-000570	548	1	RRC establishment and paging causes for NAS signalling	3.4.1	3.5.0
	RP-10	RP-000570	549		Corrections to Intra-frequency measurements and Traffic volume measurements	3.4.1	3.5.0
	RP-10	RP-000570	551	1	PRACH/RACH System information	3.4.1	3.5.0
	RP-10	RP-000570	553	1	GSM Measurement reporting	3.4.1	3.5.0
	RP-10	RP-000570	554	1	BLER measurement and quality target	3.4.1	3.5.0
	RP-10	RP-000570	556	1	Clarification of PDCP sequence number window terminology	3.4.1	3.5.0
	RP-10	RP-000570	559	1	Clarification on Error Handling	3.4.1	3.5.0
	RP-10	RP-000570	560		Removal of compressed mode measurement purpose "other"	3.4.1	3.5.0
	RP-10	RP-000570	561		Clarification of compressed mode measurement purpose "GSM"	3.4.1	3.5.0
	RP-10	RP-000570	564	2	Reporting multiple GSM cells	3.4.1	3.5.0
	RP-10	RP-000571	566	1	Number of RLS that can be removed in Active Set update	3.4.1	3.5.0
	RP-10	RP-000571	568	1	Clarification on Segment Index	3.4.1	3.5.0
	RP-10	RP-000571	571	3	RRC procedure performance requirements	3.4.1	3.5.0
	RP-10	RP-000571	572	1	Correction of newInterSystemCellList and MeasurementControlSysInfo in ASN.1	3.4.1	3.5.0
	RP-10	RP-000571	573	4	Removal of Flow Id concept while maintaining lu interface flexibility	3.4.1	3.5.0
	RP-10	RP-000571	574	2	Ciphering and reset	3.4.1	3.5.0
	RP-10	RP-000571	575	1	Corrections and clarifications concerning inter-RAT change procedures	3.4.1	3.5.0
	RP-10	RP-000571	576	1	General Security Clarifications	3.4.1	3.5.0
	RP-10	RP-000571	577		Clarification on RB 0	3.4.1	3.5.0
	RP-10	RP-000571	578		Clarification on the transition of RRC state	3.4.1	3.5.0
	RP-10	RP-000571	580	1	UP measurements for RRC information to target RNC	3.4.1	3.5.0
	RP-10	RP-000571	581		Correction on LCS reporting criteria	3.4.1	3.5.0
	RP-10	RP-000574	583	1	CSICH Corrections	3.4.1	3.5.0
	RP-10	RP-000571	584	1	Clarification to handling of satellite health issues	3.4.1	3.5.0
	RP-10	RP-000571	585		Clarification on activation time	3.4.1	3.5.0
	RP-10	RP-000571	586		Clarification on activation time for ciphering in TM	3.4.1	3.5.0
	RP-10	RP-000571	587	2	Measurement procedures and messages	3.4.1	3.5.0
	RP-10	RP-000571	590	1	Inter-RAT UE radio access capability	3.4.1	3.5.0
	RP-10	RP-000571	592	1	Clarification on cell update/URA update procedures	3.4.1	3.5.0
	RP-10	RP-000571	595	4	Protocol States and Process	3.4.1	3.5.0
	RP-10	RP-000571	596	1	System Information	3.4.1	3.5.0

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Date	TSG #	TSG Doc.	CR	Rev	Subject/Comment	Old	New
	RP-10	RP-000715	597	5	RRC Connection Management Procedures, Generic procedures and actions	3.4.1	3.5.0
	RP-10	RP-000572	598	1	Paging Procedures	3.4.1	3.5.0
	RP-10	RP-000572	599		NAS signalling Procedures	3.4.1	3.5.0
	RP-10	RP-000572	600	3	Radio Bearer Control Procedures	3.4.1	3.5.0
	RP-10	RP-000572	601	1	Corrections to the Counter Check Procedure	3.4.1	3.5.0
	RP-10	RP-000572	602		Tabular Information and ASN.1	3.4.1	3.5.0
	RP-10	RP-000572	604	2	Corrections to Measurement Occasion concept	3.4.1	3.5.0
	RP-10	RP-000572	606		Corrections concerning optimisation of RB information	3.4.1	3.5.0
	RP-10	RP-000572	608	1	Corrections to security	3.4.1	3.5.0
	RP-10	RP-000572	609	1	Ciphering activation time for DPCH	3.4.1	3.5.0
	RP-10	RP-000572	610		Confirmation of signalling connection establishment	3.4.1	3.5.0
	RP-10	RP-000572	611	2	RACH Sub-channel signalling	3.4.1	3.5.0
	RP-10	RP-000572	613	2	Assistance data delivery for UP	3.4.1	3.5.0
	RP-10	RP-000572	614	1	Clarification of LCS measurements	3.4.1	3.5.0
	RP-10	RP-000572	615	2	Configuration of RLC PDU sizes for logical channels	3.4.1	3.5.0
	RP-10	RP-000574	616		PICH power offset for TDD	3.4.1	3.5.0
	RP-10	RP-000572	617		Correction for PDSCH power control for TDD	3.4.1	3.5.0
	RP-10	RP-000574	618		Usage of dynamic spreading factor in uplink	3.4.1	3.5.0
	RP-10	RP-000572	619		Correction of Midamble Shift for Burst Type 3	3.4.1	3.5.0
	RP-10	RP-000572	621		Correction of text concerning Scheduling of System Information	3.4.1	3.5.0
	RP-10	RP-000572	622	1	Alignment of GSM'99 BA Range concept and its inclusion in UTRA	3.4.1	3.5.0
	RP-10	RP-000572	623	1	Clarification of RB mapping info	3.4.1	3.5.0
	RP-10	RP-000572	624	1	Correction to UE multi-RAT capability	3.4.1	3.5.0
	RP-10	RP-000573	625		Correction to PDCP sequence number exchange during hard handover	3.4.1	3.5.0
	RP-10	RP-000573	628	2	DCH Quality Target	3.4.1	3.5.0
	RP-10	RP-000573	629	1	Simultaneous release of RBs and signalling connection	3.4.1	3.5.0
	RP-10	RP-000573	630		Correction on Transport Channel Reconfiguration	3.4.1	3.5.0
	RP-10	RP-000573	631		Limitation of DRX cycle length	3.4.1	3.5.0
	RP-10	RP-000574	632		Signalling of the alpha value in TDD for open loop power control	3.4.1	3.5.0
	RP-10	RP-000573	633		Support for improved compressed mode handling for TDD measurements	3.4.1	3.5.0
	RP-10	RP-000573	636		Usage of secondary CPICH and secondary scrambling code	3.4.1	3.5.0
	RP-10	RP-000573	639		Expiration time of SIB type 7, 14	3.4.1	3.5.0
	RP-10	RP-000573	640		Correction to integrity protection	3.4.1	3.5.0
	RP-10	RP-000684	641		Downlink Outer Loop Control	3.4.1	3.5.0
03/2001	RP-11	RP-010029	642	2	RL Failure in cell update procedure	3.5.0	3.6.0
	RP-11	RP-010029	645	1	Clarification on COUNTER CHECK	3.5.0	3.6.0
	RP-11	RP-010029	646	2	Traffic Volume Measurement corrections	3.5.0	3.6.0
	RP-11	RP-010029	650	2	Reserved TFCI for the TDD Special Burst	3.5.0	3.6.0
	RP-11	RP-010029	653		Correction to description of RRC state transitions	3.5.0	3.6.0
	RP-11	RP-010029	657		RLC re-establish correction	3.5.0	3.6.0
	RP-11	RP-010029	658	1	Removal of RLC logical channel mapping indicator	3.5.0	3.6.0
	RP-11	RP-010029	659		New paging and establishment cause "Unknown"	3.5.0	3.6.0
	RP-11	RP-010029	660	1	Miscellaneous procedure corrections	3.5.0	3.6.0
	RP-11	RP-010029	661		Corrections to compressed mode pattern sequence handling	3.5.0	3.6.0
	RP-11	RP-010029	662		Inter-system change clarifications	3.5.0	3.6.0
	RP-11	RP-010029	663	1	RLC status transmission in CELL_PCH and URA_PCH	3.5.0	3.6.0
	RP-11	RP-010029	665	1	Clarification of RB information parameter values for SRB0	3.5.0	3.6.0
	RP-11	RP-010029	666		Encoding for RRC- container	3.5.0	3.6.0
	RP-11	RP-010029	667	2	Update of message extension and encoding descriptions	3.5.0	3.6.0
	RP-11	RP-010032	668	4	Introduction of default pre-defined configurations	3.5.0	3.6.0
	RP-11	RP-010029	669	2	Security corrections	3.5.0	3.6.0
	RP-11	RP-010029	670		Clarifications on Blind Handover Support	3.5.0	3.6.0
	RP-11	RP-010029	671	1	Missing descriptions of UE actions	3.5.0	3.6.0
	RP-11	RP-010029	672	2	Corrections on UE Positioning information	3.5.0	3.6.0
	RP-11	RP-010029	674	1	Security related corrections to SRNS	3.5.0	3.6.0

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Date	TSG #	TSG Doc.	CR	Rev	Subject/Comment	Old	New
	RP-11	RP-010032	675	2	Downlink power offsets	3.5.0	3.6.0
	RP-11	RP-010274	676	2	Checking the integrity of UE security capabilities	3.5.0	3.6.0
	RP-11	RP-010030	678	1	Clarification to Secondary CCPCH info	3.5.0	3.6.0
	RP-11	RP-010030	679	1	Miscellaneous corrections	3.5.0	3.6.0
	RP-11	RP-010030	680		Removal of Layer 3 filtering for RACH	3.5.0	3.6.0
	RP-11	RP-010030	681	2	Correction of compressed mode parameters	3.5.0	3.6.0
	RP-11	RP-010030	682		Removal of immediate cell evaluation	3.5.0	3.6.0
	RP-11	RP-010030	684	2	Scheduling of SIB 15.2 and SIB 15.3	3.5.0	3.6.0
	RP-11	RP-010030	685	1	Correction to ECN modules	3.5.0	3.6.0
	RP-11	RP-010030	686	1	Improvement of the description of timing advance for TDD	3.5.0	3.6.0
	RP-11	RP-010030	687		Correction on timing advance and allocation for shared channels	3.5.0	3.6.0
	RP-11	RP-010030	688	1	Clarification on SF 1 signalling	3.5.0	3.6.0
	RP-11	RP-010030	689	1	Correction to power control in TDD	3.5.0	3.6.0
	RP-11	RP-010030	690		Midamble - Channelisation code association for TDD	3.5.0	3.6.0
	RP-11	RP-010030	691		Network requested reporting for physical shared channel allocation	3.5.0	3.6.0
	RP-11	RP-010030	693		System Information	3.5.0	3.6.0
	RP-11	RP-010030	694	1	Clarification on Transport Channel Identity	3.5.0	3.6.0
	RP-11	RP-010030	696	1	Editorial Correction	3.5.0	3.6.0
	RP-11	RP-010030	698	2	Correction to add coding of intra domain NAS node selector	3.5.0	3.6.0
	RP-11	RP-010030	700	1	Corrections to system information block characteristics in TDD	3.5.0	3.6.0
	RP-11	RP-010030	701	2	ASN.1 corrections	3.5.0	3.6.0
	RP-11	RP-010030	702	2	Measurement related corrections	3.5.0	3.6.0
	RP-11	RP-010031	703	1	Clarifications on TFC Control procedure	3.5.0	3.6.0
	RP-11	RP-010031	704	2	Association of PLMN ID to neighbour cells	3.5.0	3.6.0
	RP-11	RP-010031	705	1	TFCS Selection Guidelines	3.5.0	3.6.0
	RP-11	RP-010031	710		Special Burst Scheduling During DTX in TDD	3.5.0	3.6.0
	RP-11	RP-010031	711	1	Radio Link Failure Criteria in TDD	3.5.0	3.6.0
	RP-11	RP-010031	712	1	Correction & Clarification to TDD RACH Subchannels	3.5.0	3.6.0
	RP-11	RP-010031	713	1	Number of retransmission of RRC CONNECTION REQUEST	3.5.0	3.6.0
	RP-11	RP-010031	714		Uplink Frequency Notification	3.5.0	3.6.0
	RP-11	RP-010031	715		Clarification of Radio Bearer Mapping for DCH/DSCH Transport Channels	3.5.0	3.6.0
	RP-11	RP-010031	716		Correction of mismatches between tabular and ASN.1	3.5.0	3.6.0
	RP-11	RP-010031	717		Correction to discontinuous reception in TDD	3.5.0	3.6.0
	RP-11	RP-010031	718		Power control preamble	3.5.0	3.6.0
	RP-11	RP-010031	719		Maximum number of AM entity	3.5.0	3.6.0
	RP-11	RP-010031	720	1	Real-time Integrity Broadcast	3.5.0	3.6.0
	RP-11	RP-010031	721	3	Moving Real-time Integrity description to different chapter	3.5.0	3.6.0
	RP-11	RP-010031	723	1	Removal of the payload unit concept	3.5.0	3.6.0
	RP-11	RP-010031	724		Security related corrections to SRNS	3.5.0	3.6.0
	RP-11	RP-010031	725		Periodic PLMN selection correction	3.5.0	3.6.0
	RP-11	RP-010042	683	1	Modification of "SSDT Information" IE parameters to indicate if SSDT is used in the UL only	3.6.0	4.0.0
	RP-11	RP-010041	692	1	Idle allocation for Node B synchronisation	3.6.0	4.0.0
	RP-11	RP-010037	706	1	Physical channel configuration information elements for 1.28 Mcps TDD	3.6.0	4.0.0
	RP-11	RP-010037	707	2	Changes to Measurement Related Signalling and Introduction of Cell (Re)selection Parameters for 1.28Mcps TDD	3.6.0	4.0.0
	RP-11	RP-010037	708	1	Introduction of RACH Parameters for 1.28 Mcps TDD	3.6.0	4.0.0
	RP-11	RP-010037	709		Introduction of UE radio access capability Parameters for 1.28 Mcps TDD	3.6.0	4.0.0
	RP-11	RP-010040	722	1	Introduction of IPDLs for TDD	3.6.0	4.0.0
	RP-11	RP-010039	726	1	ROHC updates to RRC	3.6.0	4.0.0
06/2001	RP-12	RP-010311	731		Clarification of the IE 'spreading factor' in Uplink DPCH info for FDD mode	4.0.0	4.1.0
	RP-12	RP-010311	733		Correction of UE Radio Access Capability depending on UTRAN FDD bands	4.0.0	4.1.0
	RP-12	RP-010311	735		Clarification on Security mode control	4.0.0	4.1.0
	RP-12	RP-010311	738		Correction of TrCH parameter handling	4.0.0	4.1.0

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Date	TSG #	TSG Doc.	CR	Rev	Subject/Comment	Old	New
	RP-12	RP-010311	740		TFC Subsets in TDD	4.0.0	4.1.0
	RP-12	RP-010311	746		RRC containers	4.0.0	4.1.0
	RP-12	RP-010311	748		Various corrections	4.0.0	4.1.0
	RP-12	RP-010311	750		General error handling for system information	4.0.0	4.1.0
	RP-12	RP-010311	752		Order of elements in strings	4.0.0	4.1.0
	RP-12	RP-010311	754		Configuration consistency checks	4.0.0	4.1.0
	RP-12	RP-010312	756		Compressed mode corrections	4.0.0	4.1.0
	RP-12	RP-010312	758		Correction concerning inter-RAT procedures	4.0.0	4.1.0
	RP-12	RP-010312	762		Measurement corrections	4.0.0	4.1.0
	RP-12	RP-010312	764		RLC Tr Discard	4.0.0	4.1.0
	RP-12	RP-010312	766		Annex B CPCH Correction	4.0.0	4.1.0
	RP-12	RP-010312	768		SIB Correction for CSICH Power Offset	4.0.0	4.1.0
	RP-12	RP-010312	770		Transfer of Last known position in case of SRNS relocation	4.0.0	4.1.0
	RP-12	RP-010312	772		Corrections to UE Positioning measurements	4.0.0	4.1.0
	RP-12	RP-010312	779		GSM measurements in compressed mode	4.0.0	4.1.0
	RP-12	RP-010312	781		Correction of Activation Time in Inter-Rat HO Commands	4.0.0	4.1.0
	RP-12	RP-010313	785		Clarification of FRESH in SRNS relocation	4.0.0	4.1.0
	RP-12	RP-010313	789		Correction to UE timers and constants in idle mode	4.0.0	4.1.0
	RP-12	RP-010313	793		Clarification on multiframe allocation in TDD	4.0.0	4.1.0
	RP-12	RP-010313	795		Predefined parameters for logical channels	4.0.0	4.1.0
	RP-12	RP-010313	797		Pathloss calculation	4.0.0	4.1.0
	RP-12	RP-010313	799		Clarification on periodic measurement reporting	4.0.0	4.1.0
	RP-12	RP-010313	803	1	Handling of IE PRACH TFCS and Primary CPICH/Primary CCPCH info	4.0.0	4.1.0
	RP-12	RP-010313	805		Correction to FACH measurement occasion in TDD	4.0.0	4.1.0
	RP-12	RP-010313	807		Clarification of L1 synchronization procedures	4.0.0	4.1.0
	RP-12	RP-010313	809		Correction of Activation Time definition	4.0.0	4.1.0
	RP-12	RP-010314	813		Corrections to RRC procedure performance	4.0.0	4.1.0
	RP-12	RP-010314	815		Removal of mapping function	4.0.0	4.1.0
	RP-12	RP-010314	817		Security clarifications	4.0.0	4.1.0
	RP-12	RP-010314	819		Corrections to UE Positioning	4.0.0	4.1.0
	RP-12	RP-010314	825		Definition of DPCH numbering	4.0.0	4.1.0
	RP-12	RP-010314	827		Corrections to System Information Procedure	4.0.0	4.1.0
	RP-12	RP-010314	829		Relation between DOFF and DPCH Frame Offset	4.0.0	4.1.0
	RP-12	RP-010314	831		Procedures for "same as UL"	4.0.0	4.1.0
	RP-12	RP-010314	837		Editorial and minor corrections	4.0.0	4.1.0
	RP-12	RP-010314	839		Editorial Correction	4.0.0	4.1.0
	RP-12	RP-010315	843		Corrections on OTDOA-IPDL specific burst parameter semantic description	4.0.0	4.1.0
	RP-12	RP-010315	845		Error handling for messages sent from another RAT	4.0.0	4.1.0
	RP-12	RP-010315	849		Needed TFC in the TFCS for TDD	4.0.0	4.1.0
	RP-12	RP-010315	855		Clarification of TFCS selection guidelines	4.0.0	4.1.0
	RP-12	RP-010315	861		Clarification of Traffic Volume measurements	4.0.0	4.1.0
	RP-12	RP-010315	863		CFN synchronisation problems at timing re-initialised hard handover	4.0.0	4.1.0
	RP-12	RP-010315	866		Corrections on UP Assistance Message Descriptions	4.0.0	4.1.0
	RP-12	RP-010315	868		Correction on Area Scope of SIB 15.3	4.0.0	4.1.0
	RP-12	RP-010315	872		Correction to AICH power offset	4.0.0	4.1.0
	RP-12	RP-010316	875		Clarification on IE 'Downlink rate matching restriction information'	4.0.0	4.1.0
	RP-12	RP-010316	877		Corrections on Tabular/ASN.1	4.0.0	4.1.0
	RP-12	RP-010316	879		Corrections on Tabular and ASN.1 inconsistencies	4.0.0	4.1.0
	RP-12	RP-010316	881		Editorial corrections on Tabular and ASN.1 inconsistencies	4.0.0	4.1.0
	RP-12	RP-010316	883		UE Positioning corrections to ASN.1 and tabular	4.0.0	4.1.0
	RP-12	RP-010316	885		Corrections to resolve inconsistencies between Tabular and ASN.1	4.0.0	4.1.0
	RP-12	RP-010316	887		UE positioning OTDOA Neighbour Cell Info	4.0.0	4.1.0
	RP-12	RP-010316	889		DRAC corrections	4.0.0	4.1.0
	RP-12	RP-010316	893		ASN.1 Correction of IE TFCS ID	4.0.0	4.1.0
	RP-12	RP-010316	895		Correction of IE IODE range in AGPS Positioning	4.0.0	4.1.0

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Date	TSG #	TSG Doc.	CR	Rev	Subject/Comment	Old	New
	RP-12	RP-010317	897		Correction to BurstModeParameters in IPDL	4.0.0	4.1.0
	RP-12	RP-010317	899		Corrections on inconsistencies between Tabular and ASN.1	4.0.0	4.1.0
	RP-12	RP-010317	901		Naming of message abstract types in ASN.1	4.0.0	4.1.0
	RP-12	RP-010317	904		Information elements outside the extension container	4.0.0	4.1.0
	RP-12	RP-010317	906		Correction concerning DRX cycle upon inter-RAT change towards UTRAN	4.0.0	4.1.0
	RP-12	RP-010323	773		Corrections to IPDLs for TDD	4.0.0	4.1.0
	RP-12	RP-010323	850	2	Correction to 1.28Mcps TDD RACH parameters and operation	4.0.0	4.1.0
	RP-12	RP-010323	851		TFCI coding in case of 8PSK	4.0.0	4.1.0
	RP-12	RP-010323	902	1	Structure and naming of information elements	4.0.0	4.1.0
09/2001	RP-13	RP-010544	0870		UL Transport Channel Type Correction	4.1.0	4.2.0
	RP-13	RP-010544	0908		Guidelines concerning conditions, spares, defaults and correction of inconsistencies	4.1.0	4.2.0
	RP-13	RP-010544	0910		Correction to TDD DL DPCH Common Timeslot Info	4.1.0	4.2.0
	RP-13	RP-010544	0912		TDD System Information Update in Cell_DCH	4.1.0	4.2.0
	RP-13	RP-010544	0914		Editorial Corrections	4.1.0	4.2.0
	RP-13	RP-010544	0916		UL DPCH Power Control Info in TDD	4.1.0	4.2.0
	RP-13	RP-010544	0918		CN-originated paging in CELL_PCH and URA_PCH state	4.1.0	4.2.0
	RP-13	RP-010544	0920		Corrections to UE variable handling	4.1.0	4.2.0
	RP-13	RP-010544	0922		Inter-frequency measurements	4.1.0	4.2.0
	RP-13	RP-010544	0924		Inter-RAT measurements	4.1.0	4.2.0
	RP-13	RP-010671	0926	1	Intra-frequency measurements	4.1.0	4.2.0
	RP-13	RP-010545	0928		Multiplexing configuration corrections	4.1.0	4.2.0
	RP-13	RP-010545	0930		Reception of non-dedicated control channels mapped on FACH in CELL_FACH state	4.1.0	4.2.0
	RP-13	RP-010545	0932		Removal of C-RNTI when entering CELL_DCH	4.1.0	4.2.0
	RP-13	RP-010545	0935		TF and TFC set definition	4.1.0	4.2.0
	RP-13	RP-010545	0937		Correction of remaining ASN.1/Tabular inconsistencies	4.1.0	4.2.0
	RP-13	RP-010545	0939		CPICH Ec/N0 Range	4.1.0	4.2.0
	RP-13	RP-010545	0941		Priorities for IDNNS coding	4.1.0	4.2.0
	RP-13	RP-010545	0943		Dedicated pilots and S-CPICH specification related to UE specific beamforming	4.1.0	4.2.0
	RP-13	RP-010545	0945		Security corrections	4.1.0	4.2.0
	RP-13	RP-010546	0953		Intra-frequency measurement events for TDD corrections	4.1.0	4.2.0
	RP-13	RP-010546	0955		Inconsistencies between ASN.1 and tabular format	4.1.0	4.2.0
	RP-13	RP-010546	0957		TDD PICH corrections and clarifications	4.1.0	4.2.0
	RP-13	RP-010546	0959		Messages on CCCH	4.1.0	4.2.0
	RP-13	RP-010546	0961		Clarification of Parameter Values for Default Radio Configurations	4.1.0	4.2.0
	RP-13	RP-010546	0963		Clarification to usage of default values in "Cell Selection and Reselection for SIB11/12Info"	4.1.0	4.2.0
	RP-13	RP-010546	0965		Clarification of handling of System information block 14	4.1.0	4.2.0
	RP-13	RP-010546	0967		Description of UE behaviour when receiving UE positioning related information	4.1.0	4.2.0
	RP-13	RP-010546	0982		Clarification on periodic measurement reporting	4.1.0	4.2.0
	RP-13	RP-010546	0984		Corrections and clarifications on Measurement procedures description	4.1.0	4.2.0
	RP-13	RP-010547	0986		Lossless Criteria in PDCP Info	4.1.0	4.2.0
	RP-13	RP-010547	0988		Corrections to cell reselection parameter values	4.1.0	4.2.0
	RP-13	RP-010547	0990		Correction to signalling connection release	4.1.0	4.2.0
	RP-13	RP-010547	0992		Corrections to cell update procedures	4.1.0	4.2.0
	RP-13	RP-010547	0994		PDCP configuration and PS domain configuration checks	4.1.0	4.2.0
	RP-13	RP-010547	0996		Correction to handling of RRC transaction identifier for Cell Update, URA Update and RRC connection setup	4.1.0	4.2.0
	RP-13	RP-010547	0998	1	Correction of UE capabilities regarding Rx-Tx time difference type 2 measurement	4.1.0	4.2.0
	RP-13	RP-010547	1000		Correction to handling of IE 'Downlink info for each radio link'	4.1.0	4.2.0
	RP-13	RP-010547	1004		Redundant IE in Traffic volume measurement system information	4.1.0	4.2.0
	RP-13	RP-010547	1006		Editorial corrections	4.1.0	4.2.0
	RP-13	RP-010548	1008		MAC logical channel priority added to definition of RB0 and SHCCH	4.1.0	4.2.0
	RP-13	RP-010548	1010		Control of primary CCPCH RSCP measurement in PUSCH	4.1.0	4.2.0

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Date	TSG #	TSG Doc.	CR	Rev	Subject/Comment	Old	New
					CAPACITY REQUEST message		
	RP-13	RP-010548	1014		Various minor corrections	4.1.0	4.2.0
	RP-13	RP-010548	1016		Range of T312	4.1.0	4.2.0
	RP-13	RP-010548	1018		Bitstring of channelisationCodeIndices	4.1.0	4.2.0
	RP-13	RP-010548	1020		Transmission of UE CAPABILITY INFORMATION message	4.1.0	4.2.0
	RP-13	RP-010548	1022		Multiple UE capabilities procedures	4.1.0	4.2.0
	RP-13	RP-010548	1024		Corrections to information elements outside the extension container	4.1.0	4.2.0
	RP-13	RP-010548	1026		SFN reporting	4.1.0	4.2.0
	RP-13	RP-010548	1028		TFCI combining indicator	4.1.0	4.2.0
	RP-13	RP-010549	1030		RLC reset on a Signalling Radio Bearer	4.1.0	4.2.0
	RP-13	RP-010549	1034		Quality Indication for UE Positioning Parameters	4.1.0	4.2.0
	RP-13	RP-010549	1036		Editorial Correction for UE Positioning	4.1.0	4.2.0
	RP-13	RP-010549	1038		Clarification on the current status of ciphering	4.1.0	4.2.0
	RP-13	RP-010549	1048		Clarification on HFN initialization at SRB and RB setup	4.1.0	4.2.0
	RP-13	RP-010549	1050		Clarification on Inter-RAT measurement	4.1.0	4.2.0
	RP-13	RP-010549	1052		Clarification on re-assembly of segments	4.1.0	4.2.0
	RP-13	RP-010549	1062		Minor Corrections	4.1.0	4.2.0
	RP-13	RP-010549	1066		Support of dedicated pilots for channel estimation	4.1.0	4.2.0
	RP-13	RP-010549	1068		Correction to SRNS relocation handling	4.1.0	4.2.0
	RP-13	RP-010550	1076		Correction to RLC state variables	4.1.0	4.2.0
	RP-13	RP-010550	1082		Reading of CN information in SIB 1 in RRC Connected Mode	4.1.0	4.2.0
	RP-13	RP-010550	1086		Restricting the maximum amount of preconfigurations in case of equivalent PLMNs	4.1.0	4.2.0
	RP-13	RP-010554	0933		Order of bits in bitstrings	4.1.0	4.2.0
	RP-13	RP-010554	0946		Selection of the RFC3095 CID transmission	4.1.0	4.2.0
	RP-13	RP-010554	0970		Correction of IPDL parameters for TDD enhancements in ASN.1 description	4.1.0	4.2.0
	RP-13	RP-010554	0971	1	1.28 Mcps TDD PICH, Midamble and UL timing advance control corrections	4.1.0	4.2.0
	RP-13	RP-010554	0972		Introduction of 1.28 Mcps TDD Mode in clause 13.7	4.1.0	4.2.0
	RP-13	RP-010554	0973		Tadv in 1.28 Mcps TDD	4.1.0	4.2.0
	RP-13	RP-010554	0974		Correction and clarification to PRACH in 1.28 Mcps TDD	4.1.0	4.2.0
10/2001	-	-	-		Replacement of incorrect (R'99) version of ASN.1 by correct (Rel-4) version of ASN.1.	4.2.0	4.2.1
12/2001	RP-14	RP-010763	1088		Corrections to RRC information containers	4.2.1	4.3.0
	RP-14	RP-010763	1090		Removal of Block SSTD	4.2.1	4.3.0
	RP-14	RP-010763	1098		COUNT-C-SFN frame difference measurement	4.2.1	4.3.0
	RP-14	RP-010763	1100		Trigger for deletion of ciphering and integrity keys	4.2.1	4.3.0
	RP-14	RP-010763	1102		Correction to P_compensation calculation for GSM neighbour cells	4.2.1	4.3.0
	RP-14	RP-010763	1104		Preconfigurations in case of equivalent PLMNs	4.2.1	4.3.0
	RP-14	RP-010763	1109		Handling of DRX cycle and U-RNTI in RRC connection setup and handling of TrCH information	4.2.1	4.3.0
	RP-14	RP-010763	1111		Correction to Information Element names	4.2.1	4.3.0
	RP-14	RP-010763	1113		Correction of Description of IE "SSTD Information"	4.2.1	4.3.0
	RP-14	RP-010763	1115		Clarification on Cell Identity and correction to reference to BAND_INDICATOR	4.2.1	4.3.0
	RP-14	RP-010764	1117		Clarification to Measured Results on RACH and Measurement Events	4.2.1	4.3.0
	RP-14	RP-010764	1119		Inconsistency between ASN.1 and tabular wrt. RPLMN information	4.2.1	4.3.0
	RP-14	RP-010764	1124		General clarification on Establishment of Access Service Classes	4.2.1	4.3.0
	RP-14	RP-010764	1126		Clarification on TX diversity indicator IE and STTD indicator IE	4.2.1	4.3.0
	RP-14	RP-010764	1132		Different diversity modes used in the same active set	4.2.1	4.3.0
	RP-14	RP-010764	1134		Issues regarding signalling connection establishment and RRC connection release	4.2.1	4.3.0
	RP-14	RP-010764	1136		Presence of AC to ASC mapping in SIB5 and SIB6	4.2.1	4.3.0
	RP-14	RP-010764	1138		RRC establishment cause at inter-RAT cell change order to UTRAN	4.2.1	4.3.0
	RP-14	RP-010764	1142		Start of timers at radio link failure	4.2.1	4.3.0
	RP-14	RP-010765	1144		Handling of the number of FBI bits sent in Uplink DPCH info	4.2.1	4.3.0
	RP-14	RP-010765	1146		Bit string order when using PER	4.2.1	4.3.0

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Date	TSG #	TSG Doc.	CR	Rev	Subject/Comment	Old	New
	RP-14	RP-010765	1148		Clarification on DRX cycle length in connected mode	4.2.1	4.3.0
	RP-14	RP-010765	1152		Correction to error condition on downlink information for each radio link	4.2.1	4.3.0
	RP-14	RP-010765	1154		Correction of inconsistencies between tabular and ASN.1	4.2.1	4.3.0
	RP-14	RP-010765	1156		Measurement related corrections	4.2.1	4.3.0
	RP-14	RP-010765	1158		Inconsistency between hard-coded preconfigurations parameters and procedure text	4.2.1	4.3.0
	RP-14	RP-010765	1166		PLMN search in CELL_PCH/URA_PCH states with 80ms DRX cycle	4.2.1	4.3.0
	RP-14	RP-010765	1168		Correction to CFN calculation for FDD	4.2.1	4.3.0
	RP-14	RP-010765	1170		Correction to radio bearer control	4.2.1	4.3.0
	RP-14	RP-010766	1172		Handling of IE "frequency info"	4.2.1	4.3.0
	RP-14	RP-010766	1174		Correction to Radio Bearer Release	4.2.1	4.3.0
	RP-14	RP-010940	1178	1	Correction to RACH reporting	4.2.1	4.3.0
	RP-14	RP-010766	1180		Correction to URA/Cell update and other minor corrections	4.2.1	4.3.0
	RP-14	RP-010766	1182		Correction to Active Set Update	4.2.1	4.3.0
	RP-14	RP-010766	1184		Correction of Traffic Volume Measurement Criteria	4.2.1	4.3.0
	RP-14	RP-010941	1186	1	Correction of UE Positioning	4.2.1	4.3.0
	RP-14	RP-010766	1203		Invalid RRC CONNECTION REJECT	4.2.1	4.3.0
	RP-14	RP-010766	1214		Security baseline for corrections	4.2.1	4.3.0
	RP-14	RP-010766	1220		Pending integrity protection activation time for UL RB0	4.2.1	4.3.0
	RP-14	RP-010767	1222		Correction of rate matching restriction function	4.2.1	4.3.0
	RP-14	RP-010773	1096		Usage of UM RLC Special Length Indicator	4.2.1	4.3.0
	RP-14	RP-010773	1120		Corrections to REL-4 LCR Tabular Description and ASN1 Code	4.2.1	4.3.0
	RP-14	RP-010773	1199		Correction of FPACH parameter definition for 1.28Mcps TDD	4.2.1	4.3.0
	RP-14	RP-010773	1200		Correction of 1.28Mcps TDD	4.2.1	4.3.0
	RP-14	RP-010773	1201		Correction and Clarification to Open Loop Power Control in 1.28 Mcps TDD	4.2.1	4.3.0
	RP-14	RP-010773	1206		Extensions of IE value ranges in tabular	4.2.1	4.3.0
03/2002	RP-15	RP-020070	1229		Constant value range correction for DPCH and PUSCH in TDD mode	4.3.0	4.4.0
	RP-15	RP-020070	1231		Corrections to open loop power control for TDD and RB information parameters for SHCCH	4.3.0	4.4.0
	RP-15	RP-020070	1233		Removal of unnecessary replication of TFCS ID in Physical Shared Channel Allocation message	4.3.0	4.4.0
	RP-15	RP-020070	1237		Correction to TF selection when using UL RLC TM	4.3.0	4.4.0
	RP-15	RP-020070	1239		Correction to the UE behaviour in case of SRNS relocation	4.3.0	4.4.0
	RP-15	RP-020070	1241		Header Compression protocols re-initialisation during SRNS Relocation	4.3.0	4.4.0
	RP-15	RP-020070	1243		Misalignments between tabular and ASN.1 related to UE Positioning, tabular correction	4.3.0	4.4.0
	RP-15	RP-020070	1245		Corrections to comments in ASN.1	4.3.0	4.4.0
	RP-15	RP-020070	1247		Correction to restarting of T308	4.3.0	4.4.0
	RP-15	RP-020070	1249		Clarification of the use of T309 during inter-RAT cell reselections	4.3.0	4.4.0
	RP-15	RP-020071	1251		Measurement Corrections	4.3.0	4.4.0
	RP-15	RP-020239	1253	1	Existence of TFCS bits	4.3.0	4.4.0
	RP-15	RP-020071	1258		Corrections of inconsistency between procedural description, tabular and ASN.1	4.3.0	4.4.0
	RP-15	RP-020071	1260		Corrections to Expiration Time Factor and Expiration Time formula for SIB 7 and SIB 14	4.3.0	4.4.0
	RP-15	RP-020071	1262		Corrections to Reporting Cell Status	4.3.0	4.4.0
	RP-15	RP-020071	1268		Correction to inter frequency measurements	4.3.0	4.4.0
	RP-15	RP-020071	1271		Actions at reception of system information block type 1	4.3.0	4.4.0
	RP-15	RP-020071	1273		Tx diversity and no diversity in the same active set	4.3.0	4.4.0
	RP-15	RP-020071	1275		Correction to cell update	4.3.0	4.4.0
	RP-15	RP-020071	1277		Successful and unsuccessful procedures	4.3.0	4.4.0
	RP-15	RP-020072	1279		Measurement related corrections	4.3.0	4.4.0
	RP-15	RP-020072	1281		Clarifications on Event 1D	4.3.0	4.4.0
	RP-15	RP-020205	1283	1	Security corrections	4.3.0	4.4.0
	RP-15	RP-020072	1285		Transition from CELL_DCH to CELL_FACH state	4.3.0	4.4.0
	RP-15	RP-020072	1287		Corrections and clarifications of Radio link timing	4.3.0	4.4.0

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Date	TSG #	TSG Doc.	CR	Rev	Subject/Comment	Old	New
	RP-15	RP-020072	1289		Spare values in ASN.1	4.3.0	4.4.0
	RP-15	RP-020072	1294		Actions on reception of measurement related IEs	4.3.0	4.4.0
	RP-15	RP-020231	1296	1	Removal of channel coding option "no coding" for FDD and 3.84 Mcps TDD	4.3.0	4.4.0
	RP-15	RP-020072	1298		Timing Indication when moving to CELL_DCH state	4.3.0	4.4.0
	RP-15	RP-020072	1307		Correction to processing RB mapping info	4.3.0	4.4.0
	RP-15	RP-020072	1313		RRC Connection Release following network authentication failure	4.3.0	4.4.0
	RP-15	RP-020072	1317		Clarification on serving cell in SIB11	4.3.0	4.4.0
	RP-15	RP-020073	1319		Treatment of optional elements in RB control messages	4.3.0	4.4.0
	RP-15	RP-020073	1323		Procedure Performance for TDD UL physical Channel Control	4.3.0	4.4.0
	RP-15	RP-020250	1331	1	Clarification to physical channel establishment criteria	4.3.0	4.4.0
	RP-15	RP-020249	1333	1	OTDOA Assistance Data	4.3.0	4.4.0
	RP-15	RP-020073	1337		Retransmission of uplink direct transfer at RLC re-establishment and inter-RAT change	4.3.0	4.4.0
	RP-15	RP-020073	1339		Correction to IE "UL interference" for UTRA TDD	4.3.0	4.4.0
	RP-15	RP-020074	1343		Corrections of UE Positioning requirements	4.3.0	4.4.0
	RP-15	RP-020074	1345		Multimode speech in default configurations	4.3.0	4.4.0
	RP-15	RP-020073	1347		Correction to UE Id for DSCH	4.3.0	4.4.0
	RP-15	RP-020073	1349		Corrections to support combined Cell/URA update and SRNS relocation	4.3.0	4.4.0
	RP-15	RP-020073	1351		Number of UTRAN and Inter-RAT frequencies	4.3.0	4.4.0
	RP-15	RP-020073	1353		Abortion of signalling connection establishment	4.3.0	4.4.0
	RP-15	RP-020073	1358		Modification of GPS timing representation to avoid large integers	4.3.0	4.4.0
	RP-15	RP-020074	1360		Additional TFCS selection guidelines	4.3.0	4.4.0
	RP-15	RP-020074	1362		Clarification of layer 3 filtering of measurements in the UE	4.3.0	4.4.0
	RP-15	RP-020210	1364		Improved readability of procedural text	4.3.0	4.4.0
	RP-15	RP-020228	1366		Clarification on ICS version within UE radio access capabilities	4.3.0	4.4.0
	RP-15	RP-020233	1368		Clarification of Maximum number of TFC in the TFCS	4.3.0	4.4.0
	RP-15	RP-020238	1370		Support of UP measurement reporting in CELL_PCH/URA_PCH	4.3.0	4.4.0
	RP-15	RP-020082	1122	2	Correction to include Cell ID for Cell_DCH state	4.3.0	4.4.0
	RP-15	RP-020082	1187	2	Correction of Transparent mode signalling for UL rate control	4.3.0	4.4.0
	RP-15	RP-020082	1188	2	Introduction of default radio configurations for UMTS_AMR2 with four speech modes	4.3.0	4.4.0
	RP-15	RP-020082	1223	1	Acquisition of PLMN identity of neighbour cells via SIB 18	4.3.0	4.4.0
	RP-15	RP-020082	1254		Various ASN.1 Corrections	4.3.0	4.4.0
	RP-15	RP-020082	1290		Handover from UTRAN failure	4.3.0	4.4.0
	RP-15	RP-020082	1335		Corrections to indicate that SIB 14 is not used by 1.28 TDD	4.3.0	4.4.0
	RP-15	RP-020084	1129	2	Support of flexible hard split mode	4.4.0	5.0.0
	RP-15	RP-020090	1225	1	Introduction of the parameters of OTDOA with IPDL for 1.28 Mcps TDD	4.4.0	5.0.0
	RP-15	RP-020085	1291	1	Radio link timing	4.4.0	5.0.0
	RP-15	RP-020094	1305	2	Introduction of HSDPA	4.4.0	5.0.0
06/2002	RP-16	RP-020330	1373		ASN.1 Corrections	5.0.0	5.1.0
	RP-16	RP-020330	1376		Clarification of unnecessary MP IEs in RADIO BEARER RECONFIGURATION	5.0.0	5.1.0
	RP-16	RP-020330	1379		Correction on SIB type	5.0.0	5.1.0
	RP-16	RP-020330	1382		Clarification to the handling of IE "Cells for measurement" received in SIB 11/12	5.0.0	5.1.0
	RP-16	RP-020330	1385	1	Correction to Cell Update procedure	5.0.0	5.1.0
	RP-16	RP-020330	1388		Correction to handling of FACH measurement occasion info in SIB12	5.0.0	5.1.0
	RP-16	RP-020331	1392		Actions when optional IE "Maximum allowed UL TX power" is missing	5.0.0	5.1.0
	RP-16	RP-020331	1395		Corrections concerning default configurations	5.0.0	5.1.0
	RP-16	RP-020331	1398		Correction concerning when hard handover specific handling applies	5.0.0	5.1.0
	RP-16	RP-020331	1401		Handling of variables CELL_INFO_LIST and MEASUREMENT_IDENTITY	5.0.0	5.1.0
	RP-16	RP-020331	1404		IE "Cell Synchronisation Information"	5.0.0	5.1.0
	RP-16	RP-020331	1407		Corrections to Cell Individual Offset	5.0.0	5.1.0
	RP-16	RP-020332	1410		Clarification to Compressed Mode Status Info	5.0.0	5.1.0

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Date	TSG #	TSG Doc.	CR	Rev	Subject/Comment	Old	New
	RP-16	RP-020332	1413		Clarification of OTDOA quality figure	5.0.0	5.1.0
	RP-16	RP-020332	1416		Correction to Cell Access Restriction for SIB4	5.0.0	5.1.0
	RP-16	RP-020332	1419		Corrections concerning spare values and comments	5.0.0	5.1.0
	RP-16	RP-020332	1423		Variable for shared channel configurations	5.0.0	5.1.0
	RP-16	RP-020332	1426	1	Integrity protection on RB0	5.0.0	5.1.0
	RP-16	RP-020333	1429	1	Periodic cell update clarifications	5.0.0	5.1.0
	RP-16	RP-020333	1432		Multiple cells triggering event 1D	5.0.0	5.1.0
	RP-16	RP-020333	1435		Disjoint Active Sets in the Active Set Update procedure	5.0.0	5.1.0
	RP-16	RP-020333	1438		Deletion on compressed mode patterns when moving to CELL_FACH state	5.0.0	5.1.0
	RP-16	RP-020333	1441		TDD C-RNTI in Cell DCH	5.0.0	5.1.0
	RP-16	RP-020333	1444	1	CCTrCH Release in TDD	5.0.0	5.1.0
	RP-16	RP-020334	1447		Layer 3 retransmission of SIGNALLING CONNECTION RELEASE INDICATION	5.0.0	5.1.0
	RP-16	RP-020334	1450		Alignment of tabular and ASN.1 for UTRAN GPS timing of cell frames resolution	5.0.0	5.1.0
	RP-16	RP-020334	1453		Correction to Default Radio Configuration Timers	5.0.0	5.1.0
	RP-16	RP-020334	1456		Clarification to number of L3 filters	5.0.0	5.1.0
	RP-16	RP-020334	1459	1	Correction to 3G to 2G Inter-RAT handover for multi-domain RABs	5.0.0	5.1.0
	RP-16	RP-020334	1462		DCH quality target	5.0.0	5.1.0
	RP-16	RP-020335	1465		Correction to RB Mapping Info	5.0.0	5.1.0
	RP-16	RP-020335	1468	1	Ciphering activation for TM bearers	5.0.0	5.1.0
	RP-16	RP-020335	1471		TFCS selection guideline correction	5.0.0	5.1.0
	RP-16	RP-020382	1480	1	Clarification of Measurement Validity and Valid Measurement Objects	5.0.0	5.1.0
	RP-16	RP-020363	1483		Remaining clarification of Measurement Validity and Valid Measurement Objects	5.0.0	5.1.0
	RP-16	RP-020381	1486	1	Traffic Volume Measurement clarifications	5.0.0	5.1.0
	RP-16	RP-020335	1489		Correction to handling of IE 'Downlink information for each RL'	5.0.0	5.1.0
	RP-16	RP-020336	1492		Corrections to Security procedure on Missing integrity protection reset on relocation and counter check response actions for asymmetric bearer configurations	5.0.0	5.1.0
	RP-16	RP-020336	1495		Corrections to cell update interactions with security and SRNS Relocation	5.0.0	5.1.0
	RP-16	RP-020336	1498		"Out of service" area definition	5.0.0	5.1.0
	RP-16	RP-020339	1473		RRC connection release procedure in CELL_DCH state	5.0.0	5.1.0
	RP-16	RP-020339	1475		Correction to DL TM DCCH TF size for Default Configurations	5.0.0	5.1.0
	RP-16	RP-020339	1477		Corrections in ASN.1 related to SRNS relocation	5.0.0	5.1.0
	RP-16	RP-020341	1499		HS-DSCH related corrections	5.0.0	5.1.0
	RP-16	RP-020341	1500		Removal of BLER threshold from IE "Measurement Feedback info"	5.0.0	5.1.0
	RP-16	RP-020345	1501		RFC 3095 context relocation	5.0.0	5.1.0
09/2002	RP-17	RP-020541	1504	1	UE behaviour when active set cells are not included in CELL_INFO_LIST	5.1.0	5.2.0
	RP-17	RP-020541	1507	1	Corrections to handling of IE "Cells for measurement"	5.1.0	5.2.0
	RP-17	RP-020541	1510		Clarification on the use of UE radio access capability extensions within the INTER RAT HANDOVER INFO message	5.1.0	5.2.0
	RP-17	RP-020541	1513		Correction to RRC connection procedure	5.1.0	5.2.0
	RP-17	RP-020541	1516		Correction to the variable TGPS_IDENTITY	5.1.0	5.2.0
	RP-17	RP-020541	1522		Missing IEs in RLC info	5.1.0	5.2.0
	RP-17	RP-020542	1528	1	Corrections of UE internal measurement reporting events	5.1.0	5.2.0
	RP-17	RP-020542	1531	2	UE behaviour upon reception of reconfiguration	5.1.0	5.2.0
	RP-17	RP-020542	1534		Application of integrity keys in case of a pending CN domain switch during a SRNS relocation	5.1.0	5.2.0
	RP-17	RP-020542	1537	1	Clarifications on Quality Measurements	5.1.0	5.2.0
	RP-17	RP-020542	1540		Correction of DPCH constant value in TDD default radio configurations	5.1.0	5.2.0
	RP-17	RP-020542	1543		Handling of UE internal measurement information in broadcast	5.1.0	5.2.0
	RP-17	RP-020543	1546		Observed time difference to GSM reporting indicator	5.1.0	5.2.0
	RP-17	RP-020543	1551		Corrections on Security relative to ciphering of TM bearers and to SRNS relocation	5.1.0	5.2.0
	RP-17	RP-020543	1554		Coding of IE NC mode	5.1.0	5.2.0
	RP-17	RP-020543	1557		Clarification to filtered measurement quantities	5.1.0	5.2.0

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Date	TSG #	TSG Doc.	CR	Rev	Subject/Comment	Old	New
	RP-17	RP-020543	1560		Inconsistencies in triggering and reporting for events 1a, 1b,1c, 1e and 1f	5.1.0	5.2.0
	RP-17	RP-020543	1563	1	Optional and Mandatory fields in Measurement Control	5.1.0	5.2.0
	RP-17	RP-020544	1566		Clarifications to Reporting Cell Status	5.1.0	5.2.0
	RP-17	RP-020544	1569		Clarification to minimum SF	5.1.0	5.2.0
	RP-17	RP-020544	1572		Clarifications to inter-frequency measurements	5.1.0	5.2.0
	RP-17	RP-020544	1578	2	Ciphering when HO to UMTS of signalling only connection	5.1.0	5.2.0
	RP-17	RP-020544	1581		Inter RAT handover from UTRAN	5.1.0	5.2.0
	RP-17	RP-020544	1584		Correction to Cell Update procedure with cause "Radio link failure"	5.1.0	5.2.0
	RP-17	RP-020545	1587		Correction to the handling of IE "UTRAN DRX cycle length coefficient" in CELL/URA UPDATE procedure	5.1.0	5.2.0
	RP-17	RP-020545	1590		Correction to RLC unrecoverable error occurs in CELL_DCH state	5.1.0	5.2.0
	RP-17	RP-020545	1593		Use of scrambling change when activating CM pattern using SF/2 by MEASUREMENT CONTROL	5.1.0	5.2.0
	RP-17	RP-020545	1596		Actions when optional IE "Maximum allowed UL TX power" is missing	5.1.0	5.2.0
	RP-17	RP-020630	1599	1	IP_offset correction	5.1.0	5.2.0
	RP-17	RP-020545	1602		Clarification on the IE "Frequency Info"	5.1.0	5.2.0
	RP-17	RP-020546	1605		Correction of RNTI used in PUSCH capacity request and physical shared channel allocation	5.1.0	5.2.0
	RP-17	RP-020546	1608		Correction to allowed logical channel list choice for RACH transport channels	5.1.0	5.2.0
	RP-17	RP-020654	1611	1	Clarification of SRNS Relocation Info	5.1.0	5.2.0
	RP-17	RP-020546	1614		DCH quality target	5.1.0	5.2.0
	RP-17	RP-020546	1617		Handling of variables CELL_INFO_LIST and MEASUREMENT_IDENTITY(2)	5.1.0	5.2.0
	RP-17	RP-020546	1620	1	Correction of secondary CCPCH selection and PRACH selection	5.1.0	5.2.0
	RP-17	RP-020547	1623		RRC TVM Corrections	5.1.0	5.2.0
	RP-17	RP-020547	1626		Correction of Transmission Gap Distance semantics description	5.1.0	5.2.0
	RP-17	RP-020547	1629		Corrections to Active Set Update and simultaneous reconfiguration	5.1.0	5.2.0
	RP-17	RP-020547	1632		UE behaviour following RLC size change	5.1.0	5.2.0
	RP-17	RP-020547	1635		RRC SN in uplink	5.1.0	5.2.0
	RP-17	RP-020547	1638		Multiplexing of Tr mode RBs of different CN domains on the same transport channel	5.1.0	5.2.0
	RP-17	RP-020548	1641		Security clarifications	5.1.0	5.2.0
	RP-17	RP-020548	1644		Correction to the actions of "out of service area" and "in service area"	5.1.0	5.2.0
	RP-17	RP-020548	1647		TVM: pending time after trigger and initial conditions	5.1.0	5.2.0
	RP-17	RP-020548	1650	1	Handling of Downlink information for each RL in reconfiguration messages	5.1.0	5.2.0
	RP-17	RP-020548	1655		Corrections to Cell Update/URA Update Procedure in case of nested cell updates and simultaneous SRNS relocation	5.1.0	5.2.0
	RP-17	RP-020548	1670		Corrections to security	5.1.0	5.2.0
	RP-17	RP-020631	1673	1	SRNS relocation with integrity	5.1.0	5.2.0
	RP-17	RP-020549	1676		Reception of MEASUREMENT CONTROL in state CELL_FACH	5.1.0	5.2.0
	RP-17	RP-020549	1679		Unsupported configuration	5.1.0	5.2.0
	RP-17	RP-020549	1682		Handover corrections	5.1.0	5.2.0
	RP-17	RP-020558	1575	1	Correction of SFN-SFN Measurement	5.1.0	5.2.0
	RP-17	RP-020559	1661		Corrections to Synchronisation for 1.28 Mcps TDD	5.1.0	5.2.0
	RP-17	RP-020553	1657		Corrections on Power Control for 1.28 Mcps TDD	5.1.0	5.2.0
	RP-17	RP-020553	1659		Correction to RLC entity re-establishment during SRNS relocation	5.1.0	5.2.0
	RP-17	RP-020553	1663		Reintroduction of IE "SRB delay" in Rel-4 ASN.1	5.1.0	5.2.0
	RP-17	RP-020553	1665		Corrections to ASN.1 for SRNC relocation container	5.1.0	5.2.0
	RP-17	RP-020553	1667		Unused elements in ASN.1	5.1.0	5.2.0
	RP-17	RP-020557	1547		Correction on Radio link timing	5.1.0	5.2.0
	RP-17	RP-020662	1651	2	Physical layer IEs for HSDPA	5.1.0	5.2.0
	RP-17	RP-020557	1652		Transport channel information elements for HSDPA	5.1.0	5.2.0
	RP-17	RP-020590	1683		TX diversity on radio links in the active set	5.1.0	5.2.0
	RP-17	RP-020557	1684		Mandatory Support of dedicated pilots for channel estimation	5.1.0	5.2.0
12/2002	RP-18	RP-020721	1687		Corrections to IEs "Ellipsoid point with Altitude and uncertainty Ellipsoid" and "Ellipsoid point with uncertainty Ellipse"	5.2.0	5.3.0

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	RP-18	RP-020721	1690	1	Handling of Ciphering and integrity protection activation times	5.2.0	5.3.0
	RP-18	RP-020721	1693		Handling of measurements at state transitions to/from DCH state.	5.2.0	5.3.0
	RP-18	RP-020721	1696	2	Measurement related corrections	5.2.0	5.3.0
	RP-18	RP-020721	1699		ASN.1 of the SRNS relocation info	5.2.0	5.3.0
	RP-18	RP-020721	1710	1	Corrections to PRACH selection	5.2.0	5.3.0
	RP-18	RP-020722	1713		TDD Downlink Path Loss for interfrequency measurement	5.2.0	5.3.0
	RP-18	RP-020892	1716	1	Correction on coding of GSM Classmark 2 and 3	5.2.0	5.3.0
	RP-18	RP-020722	1719		Correction on Frame Allocation Calculation	5.2.0	5.3.0
	RP-18	RP-020722	1722		Inter-frequency measurements	5.2.0	5.3.0
	RP-18	RP-020722	1725		Maximum Allowed UL TX Power	5.2.0	5.3.0
	RP-18	RP-020722	1728		START values for the initialisation of SRB counters and UTRAN incorrect actions	5.2.0	5.3.0
	RP-18	RP-020723	1731		Correction to the RRC transaction table management	5.2.0	5.3.0
	RP-18	RP-020723	1803		Use of DCH Quality Target with Blind Transport Format Detection	5.2.0	5.3.0
	RP-18	RP-020723	1742		Correction to storing current TFC subset in variable TFC_SUBSET for TDD	5.2.0	5.3.0
	RP-18	RP-020723	1745		Security at inter-RAT handover	5.2.0	5.3.0
	RP-18	RP-020723	1748		Integrity protection activations times	5.2.0	5.3.0
	RP-18	RP-020723	1751		Additional measurements	5.2.0	5.3.0
	RP-18	RP-020724	1754		DPCH compressed mode info in Downlink information common for all RLS	5.2.0	5.3.0
	RP-18	RP-020724	1757	1	Handling of RB mapping	5.2.0	5.3.0
	RP-18	RP-020724	1766		RLC window size in default configurations	5.2.0	5.3.0
	RP-18	RP-020724	1769		Corrections to Activation time	5.2.0	5.3.0
	RP-18	RP-020724	1772		Numbering of "ASC Setting" IEs included in "PRACH partitioning" IE	5.2.0	5.3.0
	RP-18	RP-020724	1779	2	Correction on support for compressed mode	5.2.0	5.3.0
	RP-18	RP-020903	1734	3	Introduction of backwards compatible correction mechanism	5.2.0	5.3.0
	RP-18	RP-020727	1776		Signalling of the timing adjustment mode for closed loop Tx diversity	5.2.0	5.3.0
	RP-18	RP-020893	1810		Handling of hyper frame numbers	5.2.0	5.3.0
	RP-18	RP-020726	1760	2	Early UE Specific Behaviour Information in RRC Connection Request / interRAT info	5.2.0	5.3.0
	RP-18	RP-020858	1701		Correction of ASN1 IE "InterFreqCellInfoList-r4"	5.2.0	5.3.0
	RP-18	RP-020858	1703		Correction of Special Burst Scheduling for TDD	5.2.0	5.3.0
	RP-18	RP-020858	1705		Correction of measurement reporting event 6f for 1.28 Mcps TDD	5.2.0	5.3.0
	RP-18	RP-020858	1781		Ciphering during SRNS relocation without reuse of COUNT-C	5.2.0	5.3.0
	RP-18	RP-020858	1783		Correction to IE "Intra Domain NAS Node Selector"	5.2.0	5.3.0
	RP-18	RP-020858	1785		Correction to PRACH selection	5.2.0	5.3.0
	RP-18	RP-020859	1787		Correction to reporting event 6f for FDD	5.2.0	5.3.0
	RP-18	RP-020859	1802		ASN.1 corrections	5.2.0	5.3.0
	RP-18	RP-020859	1805		Asymmetric ROHC Configuration	5.2.0	5.3.0
	RP-18	RP-020859	1807		Reference Cell for GSM OTD Measurement	5.2.0	5.3.0
	RP-18	RP-020736	1707		RRC container for RFC3095 context	5.2.0	5.3.0
	RP-18	RP-020736	1791		Correction to IE "Access stratum release indicator"	5.2.0	5.3.0
	RP-18	RP-020736	1792		RLC capability for HSDPA	5.2.0	5.3.0
	RP-18	RP-020736	1794		Dedicated pilot bits for HS-DSCH	5.2.0	5.3.0
	RP-18	RP-020736	1795		Expansion of CPICH RSCP range	5.2.0	5.3.0
	RP-18	RP-020736	1796		L3 Retransmission of event 1b	5.2.0	5.3.0
	RP-18	RP-020736	1797		DPC mode change in ACTIVE SET UPDATE message	5.2.0	5.3.0
	RP-18	RP-020736	1798		Correction to handling of IE 'Downlink information for each RL'	5.2.0	5.3.0
	RP-18	RP-020896	1793	2	HSDPA parameter value ranges	5.2.0	5.3.0
03/2003	RP-19	RP-030103	1813		ASN.1 of the SRNS relocation Info	5.3.0	5.4.0
	RP-19	RP-030103	1816		Correction to procedural text for Physical Shared Channel Allocation (TDD only)	5.3.0	5.4.0
	RP-19	RP-030103	1819	1	CM and state transition related to measurements, additional measurements, virtual active set and periodic measurements	5.3.0	5.4.0
	RP-19	RP-030103	1822		Physical channel failure and radio link re-establishment	5.3.0	5.4.0
	RP-19	RP-030103	1825		Correction concerning bit numbering convention	5.3.0	5.4.0

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	RP-19	RP-030104	1831		Additional Measurement reporting list	5.3.0	5.4.0
	RP-19	RP-030104	1834	2	Correction on RRC integrity protection procedure	5.3.0	5.4.0
	RP-19	RP-030104	1837		Reporting Cell Status and Event 2A	5.3.0	5.4.0
	RP-19	RP-030104	1840		Correction to the handling of variable TGPS_IDENTITY and IE "Triggering condition 1/2"	5.3.0	5.4.0
	RP-19	RP-030104	1843	1	Hard handover with pending ciphering activation times	5.3.0	5.4.0
	RP-19	RP-030105	1846		Correction of default configurations	5.3.0	5.4.0
	RP-19	RP-030105	1849		Correction to UE behaviour on entering RRC Connected mode	5.3.0	5.4.0
	RP-19	RP-030105	1855		Update of Start values in USIM on inter-RAT transitions and transitions to idle mode	5.3.0	5.4.0
	RP-19	RP-030082	1858		Corrections to Channelisation Code TFCI Mapping for TDD	5.3.0	5.4.0
	RP-19	RP-030111	1860		Correction of PNBSCH for 1.28Mcps TDD	5.3.0	5.4.0
	RP-19	RP-030111	1862		Correction of SFN-SFN observed time difference for 1.28Mcps TDD	5.3.0	5.4.0
	RP-19	RP-030111	1864	3	ASN.1 corrections concerning missing UE capability extensions	5.3.0	5.4.0
	RP-19	RP-030111	1866		Extensions for 1.28 Mcps specific elements in system information	5.3.0	5.4.0
	RP-19	RP-030111	1868		Corrections to power control parameter signalling for 1.28 Mcps TDD	5.3.0	5.4.0
	RP-19	RP-030117	1872		TDD HS-SICH Power Control	5.3.0	5.4.0
	RP-19	RP-030117	1873		Usage of separate scrambling code for HSDPA	5.3.0	5.4.0
	RP-19	RP-030119	1874		TDD HS-DSCH midamble shift and burst type	5.3.0	5.4.0
	RP-19	RP-030117	1875		Corrections to the IE "Added or Reconfigured MAC-d flow" and the associated table in 10.3.10	5.3.0	5.4.0
	RP-19	RP-030117	1877	1	Network Assisted Cell Change from UTRAN to GERAN	5.3.0	5.4.0
	RP-19	RP-030117	1878	1	Defining more than one DSCH / USCH transport channel in PDSCH and PUSCH system information (TDD only)	5.3.0	5.4.0
	RP-19	RP-030117	1879		Introducing the use of pre-defined configurations within UTRA	5.3.0	5.4.0
	RP-19	RP-030120	1880		Group release (without security)	5.3.0	5.4.0
	RP-19	RP-030105	1884		Correction to Inter-RAT Measurement Report	5.3.0	5.4.0
	RP-19	RP-030106	1887		Correction of signalling of transport block size for DSCH	5.3.0	5.4.0
	RP-19	RP-030106	1890		PS service continuity when moving between 3G and 2G	5.3.0	5.4.0
	RP-19	RP-030106	1893	1	Multiple activations of the same compressed mode pattern	5.3.0	5.4.0
	RP-19	RP-030106	1896		Setting of ciphering activation time for TM bearers	5.3.0	5.4.0
	RP-19	RP-030117	1897		Correction of shadow CR implementation	5.3.0	5.4.0
	RP-19	RP-030111	1899		Removal of MRRU parameter in PDCP info	5.3.0	5.4.0
	RP-19	RP-030117	1900		Measurement event for evaluation of best HS-DSCH cel	5.3.0	5.4.0
	RP-19	RP-030105	1902	1	NAS and Integrity procedure interaction	5.3.0	5.4.0
	RP-19	RP-030117	1903		Correction to USBI	5.3.0	5.4.0
	RP-19	RP-030187	1909		GPS navigation model update mechanism	5.3.0	5.4.0
	RP-19	RP-030201	1910		Layer 3 filtering definition	5.3.0	5.4.0
	RP-20	RP-030293	1913		Handling of UP Assistance Data	5.4.0	5.5.0
	RP-20	RP-030293	1916	1	Concerns on Procedures for Cell-ID Positioning Method	5.4.0	5.5.0
	RP-20	RP-030293	1919		Inconsistency between Procedural, ASN.1, and Tabular Aspects of UE Positioning Error	5.4.0	5.5.0
	RP-20	RP-030293	1922		Removal of FFS (For further Study) and references to other working groups	5.4.0	5.5.0
	RP-20	RP-030293	1926		Key handling when entering idle mode and coding of security capabilities	5.4.0	5.5.0
	RP-20	RP-030293	1929		Security actions when SIM is present on RRC Connection Request	5.4.0	5.5.0
	RP-20	RP-030294	1932		Update of interfrequency measurement cell info list, reading of SIB11/12, inclusion of Measured Results on RACH	5.4.0	5.5.0
	RP-20	RP-030294	1937		Additional measurements without measurement validity	5.4.0	5.5.0
	RP-20	RP-030294	1940		Handover to UTRAN in macrodiversity	5.4.0	5.5.0
	RP-20	RP-030294	1943	1	TVM Reporting in CELL_PCH state	5.4.0	5.5.0
	RP-20	RP-030294	1946	1	Initialisation of the Virtual Active Set	5.4.0	5.5.0
	RP-20	RP-030295	1949		IE "Tx diversity mode" in ACTIVE SET UPDATE message	5.4.0	5.5.0
	RP-20	RP-030295	1952	1	Correction to transport channel traffic volume measurement events 4a and 4b	5.4.0	5.5.0
	RP-20	RP-030295	1955		Maximum Number of GPS Almanac Messages to be Stored in UE_POSITIONING_GPS_DATA	5.4.0	5.5.0
	RP-20	RP-030374	1958	2	Stopping of RLC entities at relocation	5.4.0	5.5.0
	RP-20	RP-030369	1978	4	Ciphering Mode info IE in 2G-3G Handover	5.4.0	5.5.0

Change history							
Date	TSG #	TSG Doc.	CR	Rev	Subject/Comment	Old	New
	RP-20	RP-030295	1981		START values on 2G-3G handover	5.4.0	5.5.0
	RP-20	RP-030298	1983		ROHC profile signalling	5.4.0	5.5.0
	RP-20	RP-030298	1959	1	Optimisation of the INTER RAT HANDOVER INFO message	5.4.0	5.5.0
	RP-20	RP-030350	1987	2	Corrections to security procedures in case of pending security configurations at SRNS Relocation	5.4.0	5.5.0
	RP-20	RP-030371	1990		Setting of T317 to infinity and out of service behaviour	5.4.0	5.5.0
	RP-20	RP-030303	1960		Correction to the IE 'HS-DSCH capability class'	5.4.0	5.5.0
	RP-20	RP-030303	1961		Correction of "RB mapping info" in case HS-DSCH + DCH	5.4.0	5.5.0
	RP-20	RP-030303	1963		Explanation of CV-UE for the IE MidambleShift in the tabular	5.4.0	5.5.0