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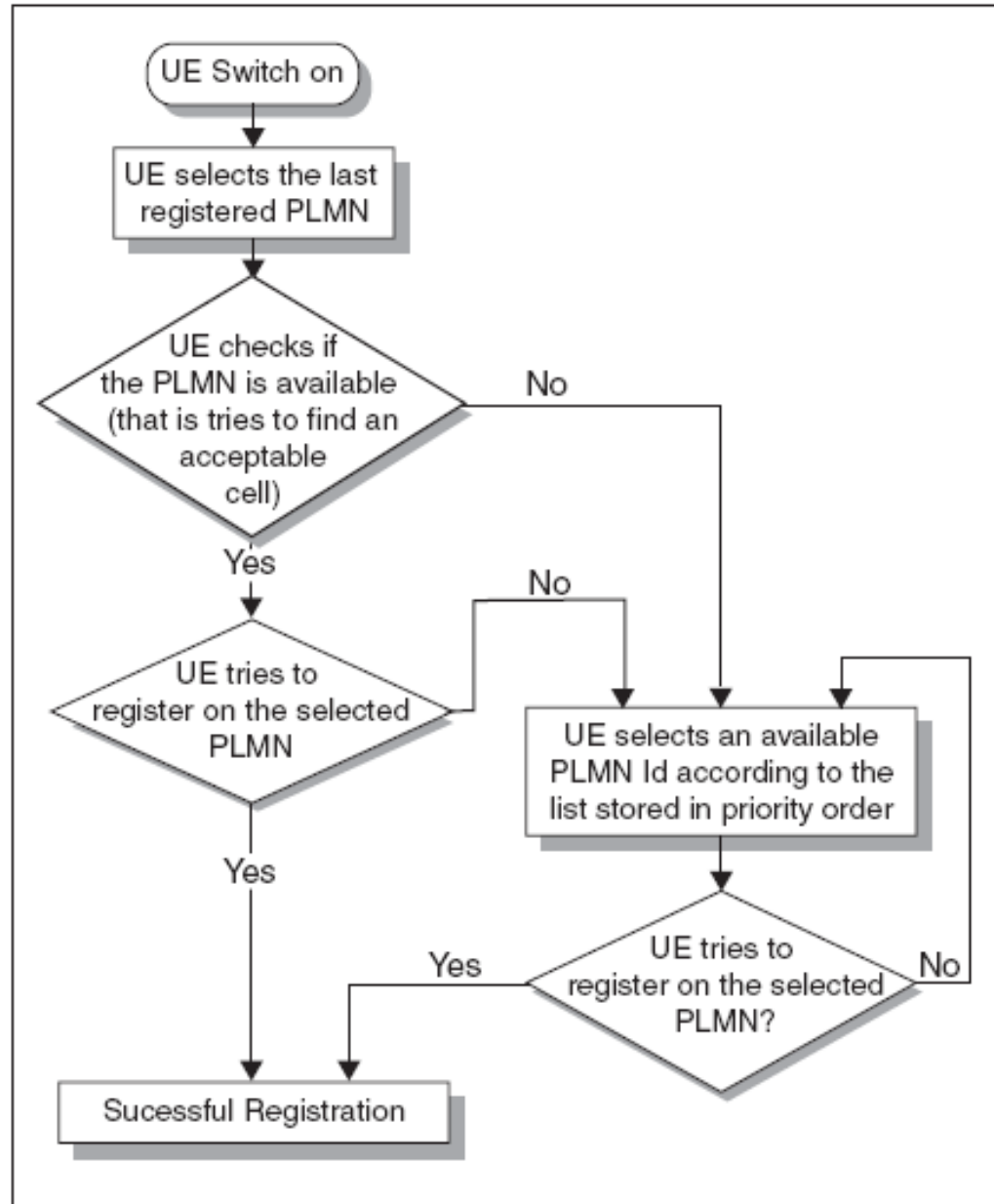
ZTE UMTS Cell Selection and Reselection

Talking to the future

Contents

- PLMN Selection
- Cell selection and reselection
- Cell Reservations and Access Restrictions

PLMN Selection



PLMN Selection

- The UE will select a PLMN when it registers at power-on or re-registers in 'out of service' conditions. In addition, the UE can make periodic PLMN selection.
- The PLMN selection is originated at a NAS. On request of the NAS, the AS searches for available PLMN and reports the result to the NAS. The NAS based on the information reported by the AS and the allowed PLMN information in SIM/USIM determines which PLMN will be selected finally.
- The UE scans all RF channels in the UTRA/GSM bands according to its capabilities to find available PLMNs. On each carrier, the UE shall search for the strongest cell and read its system information, in order to find out which PLMN the cell belongs to. If the UE can read one or several PLMN identities in the strongest cell, each found PLMN will be reported to the NAS as a high quality PLMN, provided that the following high quality criterion is fulfilled.
For an FDD cell, the measured primary CPICH RSCP value is greater than or equal to -95 dBm.

PLMN Selection

- Found PLMNs that do not satisfy the high quality criterion, but for which the UE has been able to read the PLMN identities are reported to the NAS as other PLMNs in order of decreasing CPICH RSCP for UTRA FDD cells.
- In automatic PLMN selection mode, the UE will select a PLMN that is available and allowed, in the following order
 - ◆ Home PLMN (HPLMN), if not previously selected, according to the Radio Access Technologies (RATs) supported by the UE.
 - ◆ Each PLMN in the user-controlled PLMNs list in the USIM, if present, in order of priority, according to the RATs supported by the UE.
 - ◆ Each PLMN in the operator-controlled PLMNs list in the USIM, in order of priority, according to the RATs supported by the UE.
 - ◆ Other PLMNs, according to the high-quality criterion, in random order.
 - ◆ Other PLMNs that do not fulfill high-quality criterion, in order of decreasing signal strength (SS).

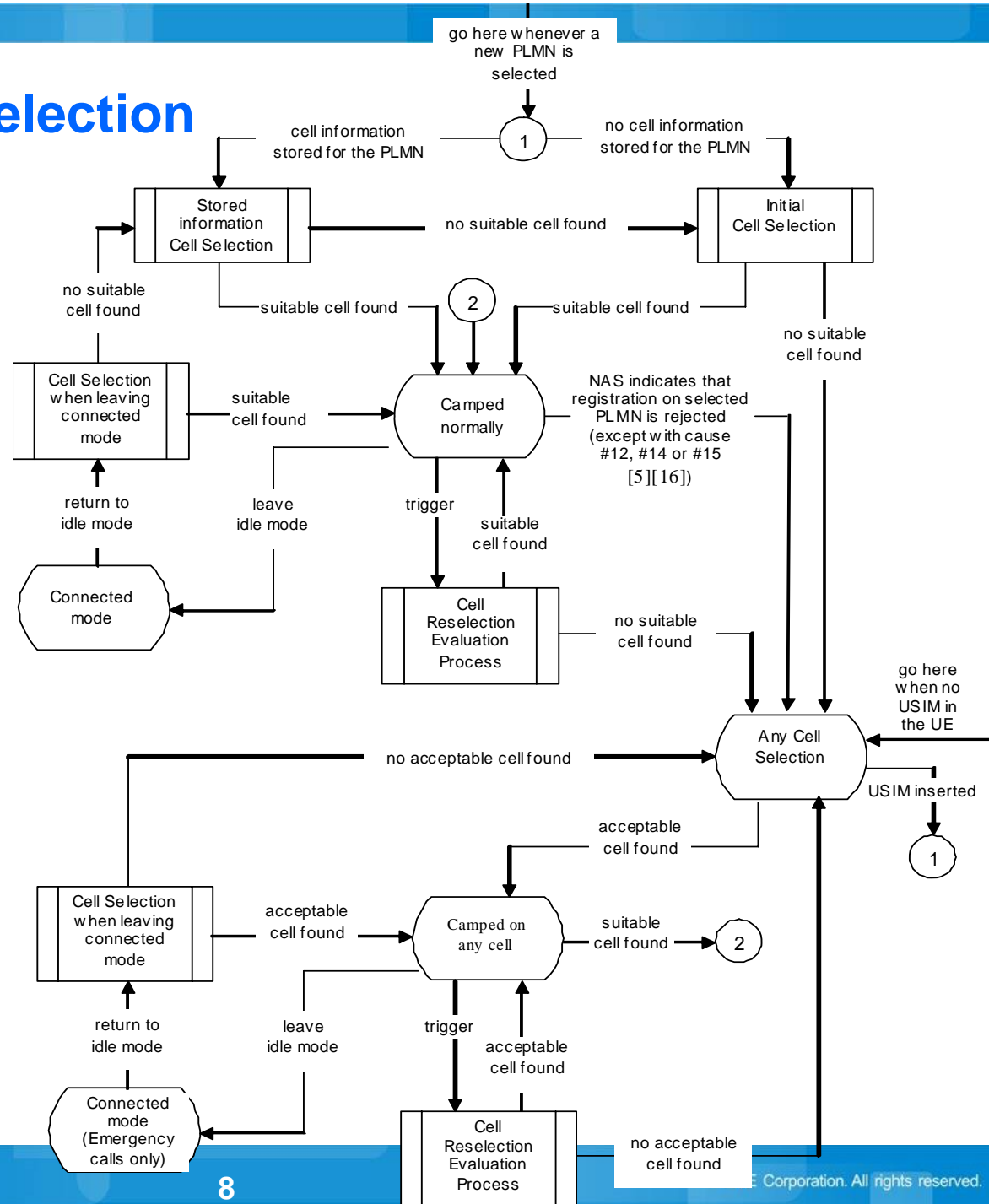
PLMN Selection

- In manual PLMN selection mode, the UE displays all PLMNs that it finds by scanning all frequency carriers. The UE displays those PLMNs that are allowed as well as those that are not allowed. The user makes a manual selection, according to the available access technology for the chosen PLMN, and the UE attempts registration on this PLMN. If the user selects an available PLMN in the forbidden PLMN list, the UE attempts to register and may receive a positive acknowledgement from the CN. In this case, the PLMN is removed from the forbidden list.
- Roaming is a service through which a UE is able to obtain services from another PLMN (Visited PLMN) than the HPLMN . in Automatic mode, having selected and registered on a Visited PLMN (VPLMN), periodically attempts to return to its HPLMN. The time interval between consecutive attempts is stored in the USIM and is managed by the network operator using a timer(The timer may have a value of between 6 minutes and 8 hours, with a step size of 6 minutes). In the absence of a fixed value, a default value of 30 minutes is used by the UE.

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Cell selection and reselection



- **Suitable cell**
 - Normal service
- **Acceptable cell**
 - Limited service
- **Barred cell**
- **Reserved cell**

Cell selection and reselection: Cell selection process overview

- Whenever a PLMN has been selected by NAS, the UE will attempt to find a suitable cell to camp on. The NAS may control the cell selection by:
 - ◆ Providing information on RAT(s) associated with the selected PLMN;
 - ◆ Maintaining lists of forbidden registration areas;
 - ◆ Providing a list of equivalent PLMNs.
- One or several RATs may be associated with the selected PLMN. It depends on the UE capability and PLMN plan.
- The AS will attempt to find a suitable cell to camp on
- If a suitable cell is found, the UE will select this cell to camp on, and report this event to NAS so that the necessary NAS registration procedures can be performed. When the registration is successful, the UE enters in state Camped normally in order to obtain normal service.
- If the UE is unable to find any suitable cell of selected PLMN the UE will enter the Any cell selection state.

Cell selection and reselection: Cell Selection Process

The UE shall use one of the following two search procedures :

- Initial Cell Selection

This procedure requires no prior knowledge of which RF channels are UTRA carriers. The UE shall scan all RF channels in the UTRA bands according to its capabilities to find a suitable cell. On each carrier, the UE need only search for the strongest cell. Once a suitable cell is found this cell shall be selected .

- Stored Information Cell Selection

This procedure requires stored information of carrier frequencies and optionally also information on cell parameters, e.g. scrambling codes, from previously received measurement control information elements. Once the UE has found a suitable cell the UE shall select it. If no suitable cell is found the Initial cell selection procedure shall be started.

Cell selection and reselection: Camped normally state overview

- In this state, the UE obtains normal service and performs the tasks as:
 - ◆ Select and monitor the indicated PICH and PCH of the cell according to information sent in system information;
 - ◆ Monitor relevant system information.
 - ◆ Perform necessary measurements for the cell reselection evaluation procedure.
 - ◆ Execute the cell reselection evaluation process.
- If after a Cell reselection evaluation process a better cell is found, the Cell reselection procedure is performed. If no suitable cell is found, the UE will enter the state Any cell selection.
- When UE leaves idle mode in order to enter the state Connected mode, the UE shall attempt to access the current serving cell. If the access attempt to the serving cell fails, the UE will use the Cell reselection evaluation procedure.

Cell selection and reselection: Connected mode state overview

- When returning to idle mode, the UE shall use the procedure Cell selection when leaving connected mode in order to find a suitable cell to camp on and enter state Camped normally. If a suitable cell is found, then the UE reports this event to NAS to be capable to perform necessary NAS registration procedures. If no suitable cell is found, the Stored information cell selection procedure will be used by the UE.
- If no suitable cell is found in cell reselection evaluation process, the UE enters the state Any cell selection.

Cell selection and reselection: Any cell selection state overview

- The state Any cell selection is also entered if the NAS indicates that a location registration is rejected or there is no SIM/USIM in the UE. In this state, the UE will attempt to find an acceptable cell to camp on, trying all RATs that are supported by the UE and searching first for a high quality cell, till an acceptable cell is found.
- If an acceptable cell is found, the UE will inform the NAS and camp on this cell and obtain limited service, state Camped on any cell.

Cell selection and reselection: Camped on any cell state overview

- In this state the UE obtains limited service. The UE will regularly attempt to find a suitable cell, trying all RATs that are supported by the UE. If a suitable cell is found, UE perform the procedure as specified in Camped normally state overview
- NOTE: The PLMN selection and reselection process may select a new PLMN at any time in idle mode, which causes a perform initial cell selection procedure

Cell selection and reselection: Cell Selection criteria

The cell selection criterion S is fulfilled when:

for FDD cells: $S_{rxlev} > 0$ AND $S_{qual} > 0$

for TDD cells: $S_{rxlev} > 0$

for GSM cells: $S_{rxlev} > 0$

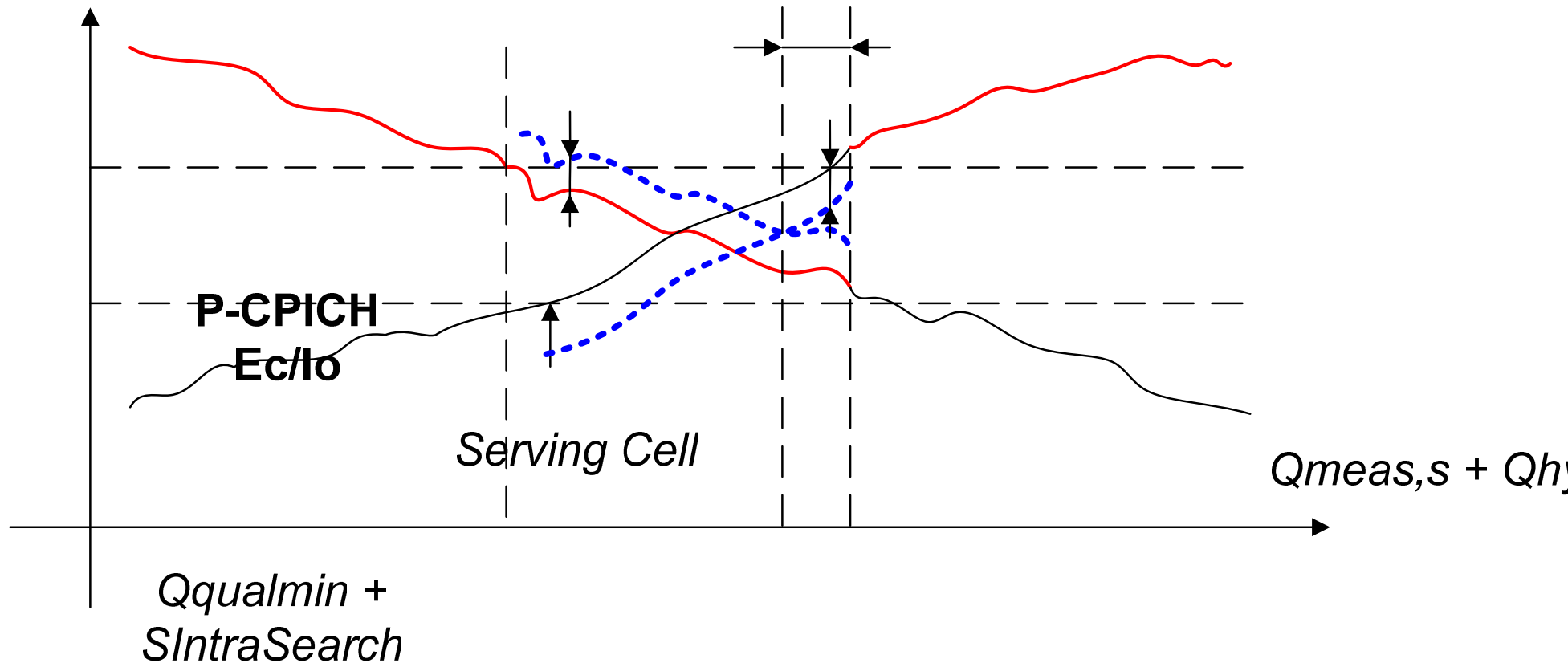
where

$$S_{qual} = Q_{qualmeas} - Q_{qualmin}$$

$$S_{rxlev} = Q_{rxlevmeas} - Q_{rxlevmin} - P_{compensation}$$

$$P_{compensation} = \max(UE_TXPWR_MAX_RACH - P_MAX, 0)$$

WCDMA Intra-Frequency Cell Re-Selection



Cell selection and reselection: Cell Selection Parameter

- **Qqualmeas**: Measured cell quality value. Applicable only for FDD cells. The quality of the received signal expressed in CPICH E_c/N_0 (dB).
- **Qrxlevmeas**: Measured cell RX level value. This is received signal, CPICH RSCP for FDD cells (dBm), P-CCPCH RSCP for TDD cells (dBm) and RXLEV for GSM cells (dBm).
- **Qqualmin**: Minimum required quality level in the cell (dB). Applicable only for FDD cells. QQualMin

Cell selection and reselection: Cell Selection Parameter

■ **Qrxlevmin**: Minimum required RX level in the cell (dBm).

■ **For serving cell:**

■ If **DltaQRxLevMin** is broadcast, then $Qrxlevmin = QRxLevMin + DltaQRxLevMin$.

■ If **DltaQRxLevMin** is not broadcast, then $Qrxlevmin = QRxLevMin$. Whether to broadcast **DltaQRxLevMin** or not is controlled by **DltaQRxLevMinPr**.

■ **For neighbor cell:**

In Idle mode or SIB12 is not broadcast,

■ if **DtQrxLvMnSib11** is not broadcast, then $Qrxlevmin = QrxLevMin$. In Idle mode or SIB12 is not broadcast,

■ if **DtQrxLvMnSib11** is broadcast, then $Qrxlevmin = QrxLevMin + DtQrxLvMnSib11$.

In connected mode and SIB12 is broadcast,

■ if **DtQrxLvMnSib12** is not broadcast, then $Qrxlevmin = QRxLevMin$.

■ If **DtQrxLvMnSib12** is broadcast, then $Qrxlevmin = QrxLevMin + DtQrxLvMnSib12$.

Whether to broadcast **DtQrxLvMnSib11** or not is controlled by **DtQrxLvMnSib11Pr**. Whether to broadcast **DtQrxLvMnSib12** or not is controlled by **DtQrxLvMnSib12Pr**.

■ **UE_TXPWR_MAX_RACH**: Maximum TX power level **MaxRACHTxPwr** on RACH (read in system information) (dBm) (for cells under the RNC, it is the max value of **MaxRACHTxPwr (Prach)**; for cells under other RNC, it is the value of **MaxRACHTxPwr (externalUtranCell)**).

Cell selection and reselection: Cell Selection Parameter

Parameter name	Qqualmin
Abbreviated name	<i>QQualMin</i>
Description	<p>This parameter indicates the minimum required quality level of the cell which satisfies the condition of being selected or reselected by UE. When the measurement quantity is CPICH Ec/No, only the measured quality of the cell is over Qqualmin can the cell be selected.</p> <p>If value of the parameter is increased, it's harder for the cell to satisfy the condition of being selected.</p> <p>If value of the parameter is decreased, it's easier for the cell to satisfy the condition of being selected.</p>
Range and Step	[-24, 0]dB; Step 1 dB
Unit	dB
Default Value (note)	-18 dB

Cell selection and reselection: Cell Selection Parameter

Parameter name	Qrxlevmin
Abbreviated name	<i>QRxLevMin</i>
Description	This parameter indicates the minimum required received power level of the cell which satisfies the condition of being selected or reselected by UE. When the measurement quantity is CPICH RSCP, only the measured received power level of the cell is over Qrxlevmin can the cell be selected.
Range and Step	[-115, -25]dBm; Step 2 dBm
Unit	dBm
Default Value (note)	-115 dBm

Cell selection and reselection: Cell Selection Parameter

Parameter name	DeltaQrxlevmin Configuration Tag
Abbreviated name	<i>DltaQRxLevMinPr</i>
Description	This parameter is a switch indicating whether DeltaQrxlevmin used for cell reselection is configured or not.
Range and Step	0: False 1: True
Unit	N/A
Default Value (note)	0: False

Cell selection and reselection: Cell Selection Parameter

Parameter name	DeltaQrxlevmin
Abbreviated name	<i>DltaQRxLevMin</i>
Description	This parameter indicates the extension of Qrxlevmin, which means $Qrxlevmin = Qrxlevmin + DeltaQrxlevmin$.
Range and Step	[-4, -2]dB; Step2 dB
Unit	dB
Default Value (note)	-2 dB

Cell selection and reselection: Cell Selection Parameter

Parameter name	DeltaQrxlevmin in SIB11 Configuration Tag
Abbreviated name	<i>DtQrxLvMnSib11Pr</i>
Description	This parameter indicates whether DeltaQrxlevmin in SIB11 is configured.
Range and Step	0: False 1: True
Unit	N/A
Default Value (note)	0: False

Cell selection and reselection: Cell Selection Parameter

Parameter name	DeltaQrxlevmin in SIB11
Abbreviated name	<i>DtQrxLvMnSib11</i>
Description	This parameter is the Qrxlevmin increment in SIB11. If present, the actual value of Qrxlevmin = Qrxlevmin + DeltaQrxlevmin
Range and Step	OMCR: [-4, -2]dB Step2dB RNC: $D = (P+4) / 2$ [0, 1]
Unit	dB
Default Value (note)	-2 dB

Cell selection and reselection: Cell Selection Parameter

Parameter name	DeltaQrxlevmin in SIB12 Configuration Tag
Abbreviated name	<i>DtQrxLvMnSib12Pr</i>
Description	This parameter indicates whether DeltaQrxlevmin in SIB12 is configured.
Range and Step	0: False 1: True
Unit	N/A
Default Value (note)	0: False

Cell selection and reselection: Cell Selection Parameter

Parameter name	DeltaQrxlevmin in SIB12
Abbreviated name	<i>DtQrxLvMnSib12</i>
Description	This parameter is the Qrxlevmin increment in SIB12. If present, the actual value of Qrxlevmin = Qrxlevmin + DeltaQrxlevmin
Range and Step	OMCR: [-4, -2]dB Step2dB RNC: $D = (P+4) / 2$ [0, 1]
Unit	dB
Default Value (note)	-2 dB

Cell selection and reselection: Cell Selection Parameter

Parameter name	Maximum Allowed UL TX Power of RACH
Abbreviated name	<i>MaxRACHTxPwr</i>
Description	This parameter indicates the maximum allowed UL transmission power of RACH.
Range and Step	[-50, 33]dBm
Unit	dBm
Default Value (note)	24 dBm

Cell selection and reselection: Cell Reselection Evaluation Process

- The measurement rules below apply in Idle, URA_PCH, CELL_PCH states. In CELL_FACH state the UE is required to perform measurements on all intra-frequency, inter-frequency and inter-RAT cells listed in system information. In Idle, URA_PCH, CELL_PCH and CELL_FACH states the UE shall only consider those cells the UE is mandated to measure according to the measurement rules below.
- Notes: The measurement rules described below are only for the network not used HCS which are almost same principles for HCS network.
- In the following rules, the UE uses Squal for FDD cells and Srxlev for TDD cells for Sx
 - ◆ If $S_x > S_{\text{IntraSearch}}$, UE may choose to not perform intra-frequency measurements.
 - ◆ If $S_x \leq S_{\text{IntraSearch}}$, UE performs intra-frequency measurements.
 - ◆ If $S_{\text{IntraSearch}}$ is not sent, UE performs intra-frequency measurements. Whether to broadcast $S_{\text{IntraSearch}}$ or not is controlled by $S_{\text{IntraSearchPre}}$.

Cell selection and reselection: Cell Reselection Evaluation Process

- The UE may choose to not perform inter-frequency measurements when the following conditions are satisfied:
 - ◆ MBMS preferred frequency layer is not configured (FreqPLInd), or MBMS preferred frequency layer is configured but the current serving cell belongs to the MBMS preferred frequency layer.
 - ◆ $S_x > S_{\text{intersearch}}$
 - ◆ If SsearchHCS is broadcast and $S_{\text{rxlev}} > S_{\text{searchHCS}}$
- The UE needs to perform inter-frequency measurements at least for the MBMS preferred frequency layer when the following conditions are satisfied:
 - ◆ MBMS preferred frequency layer is configured and the current serving cell does not belong to the MBMS preferred frequency layer.
 - ◆ $S_x > S_{\text{intersearch}}$
 - ◆ If SsearchHCS is broadcast and $S_{\text{rxlev}} > S_{\text{searchHCS}}$.
- The UE needs to perform inter-frequency measurements when any one of the following conditions is satisfied:
 - ◆ $S_x \leq S_{\text{intersearch}}$
 - ◆ IF SsearchHCS is broadcast and $S_{\text{rxlev}} \leq S_{\text{searchHCS}}$.
- If SinterSearch is not broadcast, the UE performs inter-frequency measurement. Whether to broadcast SinterSearch or not is controlled by SinterSearchPre.

Cell selection and reselection: Cell Reselection Evaluation Process

- If $S_x > S_{SearchRat}$, UE does not need to measure quality of inter-RAT neighbor cells.
 - ◆ If $S_x \leq S_{SearchRat}$, the UE performs inter-RAT cell quality measurement.
 - ◆ If $S_{SearchRat}$ is not broadcast, the UE performs inter-RAT neighbor cell quality measurement. Whether to broadcast $S_{SearchRat}$ or not is controlled by $OtherRATInfoPre$.

Cell selection and reselection: Cell Reselection Criteria

- The following cell re-selection criteria are used for intra-frequency cells, inter-frequency cells and inter-RAT cells.
- UE shall perform ranking of all cells that fulfil the criterion S
- If the serving cell uses the HCS (UseOfHCS (utranCell)) structure, the following cell reselection rule H is used for quality ranking in cell reselection

$$H_s = Q_{meas,s} - Q_{hcs_s}$$

$$H_n = Q_{meas,n} - Q_{hcs_n} - TO_n * L_n$$

Cell selection and reselection: Cell Reselection Criteria

- If the cell does not use the HCS structure, the following cell reselection rule R is used for quality ranking in cell reselection.

$$R_s = Q_{\text{meas},s} + Q_{\text{hyst}_s} + Q_{\text{offmbms}}$$

$$R_n = Q_{\text{meas},n} - Q_{\text{offset}_{s,n}} + Q_{\text{offmbms}} - TO_n * (1 - L_n)$$

where

$$TO_n = \text{TEMP_OFFSET}_n * W(\text{PENALTY_TIME}_n - T_n)$$

$$L_n = 0 \quad \text{if } \text{HCS_PRIO}_n = \text{HCS_PRIO}_s$$

$$L_n = 1 \quad \text{if } \text{HCS_PRIO}_n \neq \text{HCS_PRIO}_s$$

$$W(x) = 0 \quad \text{for } x < 0$$

$$W(x) = 1 \quad \text{for } x \geq 0$$

Cell selection and reselection: Cell Reselection Parameter

- TEMP_OFFSET_n applies an offset to the H and R criteria for the duration of PENALTY_TIME_n after a timer T_n has started for that neighbouring cell.
- TEMP_OFFSET_n and PENALTY_TIME_n are only applicable if the usage of HCS is indicated in system information.
- The timer T_n is implemented for each neighbouring cell. T_n shall be started from zero when one of the following conditions becomes true:
 - ◆ if HCS_PRIO_n <> HCS_PRIO_s and $Q_{meas,n} \geq Q_{hcsn}$
 - ◆ if HCS_PRIO_n = HCS_PRIO_s and
 - for serving FDD and neighbour FDD cells if the quality measure for cell selection and reselection is set to CPICH RSCP in the serving cell, and $Q_{meas,n} > Q_{meas,s} + Q_{offset1s,n}$ or
 - for serving FDD and neighbour FDD cells if the quality measure for cell selection and reselection is set to CPICH Ec/No in the serving cell, and $Q_{meas,n} > Q_{meas,s} + Q_{offset2s,n}$ or
 - for all other serving and neighbour cells, and $Q_{meas,n} > Q_{meas,s} + Q_{offset1s,n}$

Cell selection and reselection: Cell Reselection Criteria

- Tn for the associated neighbour cell shall be stopped as soon as any of the above conditions are no longer fulfilled. Any value calculated for TOn is valid only if the associated timer Tn is still running else TOn shall be set to zero.
- At cell-reselection, a timer Tn is stopped only if the corresponding cell is not a neighbour cell of the new serving cell, or if the criteria given above for starting timer Tn for the corresponding cell is no longer fulfilled with the parameters of the new serving cell. On cell re-selection, timer Tn shall be continued to be run for the corresponding cells but the criteria given above shall be evaluated with parameters broadcast in the new serving cell if the corresponding cells are neighbours of the new serving cell

Cell selection and reselection: Cell Reselection Parameter

- **Qoffset1s,n:** Qoffset1SNSib11, This parameter indicates the quality offset of the serving cell and neighboring cell when the measurement quantity is CPICH RSCP. This parameter is required when queues cells in the cell reselection rule. This parameter is broadcast to UE in SIB11.
- **Qoffset2s,n:** Qoffset2SNSib11, This parameter indicates the quality offset of the serving cell and neighboring cell when the measurement quantity is CPICH Ec/No. This parameter is required when queues cells in the cell reselection rule. This parameter is broadcast to UE in SIB11.
- **Qhyst1s:** QHyst1S, This parameter indicates the hysteresis value for FDD cells in case the quality measure for cell selection and reselection is set to CPICH RSCP. In cell-ranking criterion R of cell reselection, the R value of serving cell equals to the measured value plus the hysteresis value.
- **Qhyst1s,PCH:** QHyst1SPch, This parameter indicates the hysteresis value (Qhyst) when UE is in CELL_PCH /URA_PCH, used for FDD cells in case the quality measure for cell selection and reselection is set to CPICH RSCP. If this parameter is not provided in SIB4, Qhyst1s shall be used. In cell-ranking criterion R of cell reselection, the R value of serving cell equals to the measured value plus the hysteresis value.

Cell selection and reselection: Cell Reselection Parameter

- Qhyst1s,FACH: QHyst1SFach, This parameter indicates the hysteresis value (Qhyst) when UE is in CELL_FACH, used for FDD cells in case the quality measure for cell selection and reselection is set to CPICH RSCP. If this parameter is not provided in SIB4, Qhyst1s shall be used. In cell-ranking criterion R of cell reselection, the R value of serving cell equals to the measured value plus the hysteresis value.
- Qhyst2s: QHyst2S, This parameter indicates the hysteresis value for FDD cells in case the quality measure for cell selection and reselection is set to CPICH Ec/No. In cell-ranking criterion R of cell reselection, the R value of serving cell equals to the measured value plus Qhyst2s.
- Qhyst2s,PCH: QHyst2SPch, This parameter indicates the hysteresis value (Qhyst) when UE is in CELL_PCH /URA_PCH, used for FDD cells in case the quality measure for cell selection and reselection is set to CPICH Ec/No. If this parameter is not provided in SIB4, Qhyst2s shall be used. In cell-ranking criterion R of cell reselection, the R value of serving cell equals to the measured value plus the hysteresis value.
- Qhyst2s,FACH: QHyst2SFach, This parameter indicates the hysteresis value (Qhyst) when UE is in CELL_FACH, used for FDD cells in case the quality measure for cell selection and reselection is set to CPICH Ec/No. If this parameter is not provided in SIB4, Qhyst2s shall be used. In cell-ranking criterion R of cell reselection, the R value of serving cell equals to the measured value plus the hysteresis value.

Cell selection and reselection: Cell Reselection Parameter

- HCS_PRIOn: This specifies the HCS priority level for neighbouring cells (non-HCS cell: The HcsPrio of the current RNC cell takes the value of HcsPrio(utranCell). The HcsPrio of the neighbor RNC cell takes the value of HcsPrio (externalUtranCell). The HcsPrio of the GSM cell takes the value of HcsPrio (externalGsmCell). If not configured, it is 0 default. For value of HCS cells, refer to Value of “HCS Priority” in “Cell reselection measurement rule when the hierarchical cell structure (HCS) is used.
- HCS_PRIOs: This specifies the HCS priority level for serving cell. (non-HCS cell: The HcsPrio of the current RNC cell takes the value of HcsPrio(utranCell). The HcsPrio of the neighbor RNC cell takes the value of HcsPrio (externalUtranCell). The HcsPrio of the GSM cell takes the value of HcsPrio (externalGsmCell). For value of HCS cells, refer to Value of “HCS Priority” in “Cell reselection measurement rule when the hierarchical cell structure (HCS) is used.
- Treselections: TReselection, This parameter indicates the cell reselection timer value. UE shall reselect the new cell if the new cell is better ranked than the serving cell according to the cell-ranking criterion R during a time interval indicated by Treselections.
- Treselections,PCH: TReselectionPch, This parameter indicates the cell reselection timer value the UE shall use in RRC connected mode states CELL_PCH and URA_PCH if provided in SIB4, otherwise Treselections shall be used. UE shall reselect the new cell if the new cell is best ranked according to the cell-ranking criterion R during a time interval indicated by the cell reselection timer value.

Cell selection and reselection: Cell Reselection Parameter

- Treselections,FACH: TReselectionFach, This parameter indicates the cell reselection timer value the UE shall use in RRC connected mode state CELL_FACH if provided in SIB4, otherwise Treselections shall be used. UE shall reselect the new cell if the new cell is best ranked according to the cell-ranking criterion R during a time interval indicated by the cell reselection timer value.
- QoffMbms: This parameter indicates the additional offset added to cells belonging to the MBMS preferred frequency layer when judging the cell-ranking criterion R of cell reselection for the non-HCS cell.
- QualMeas: This parameter indicates the measurement quantity for cell selection and reselection.

Cell selection and reselection: Cell Reselection Parameter

- **SIntraSearchPre:** This parameter is a switch indicating whether Sintrasearch is configured or not. If the value is False, Sintrasearch is not configured to UE, and UE performs the intra-frequency measurement periodically according to the period indicated by the parameter Treselections. If the value is True, Sintrasearch is configured to UE, and UE judges whether to perform the intra-frequency measurement.
- **SIntraSearch:** This parameter indicates the intra-frequency measurement triggering threshold for cell reselection (Sintrasearch) used by UE to judge whether intra-frequency measurement should be performed. When HCS is not used, if the quality of serving cell exceeds Sintrasearch, UE may choose to not perform intra-frequency measurement; if the quality of serving cell is not larger than Sintrasearch or if Sintrasearch is not configured, UE performs intra-frequency measurement.

Cell selection and reselection: Cell Reselection Parameter

- SInterSearchPre: This parameter is a switch which indicates whether Sintersearch is configured or not. If the value is False, Sintersearch is not configured to UE, and UE performs the inter-frequency measurement periodically according to the period indicated by the parameter Treselections. If the value is True, Sintersearch is configured to UE, and UE judges whether to perform the inter-frequency measurement.
- SInterSearch: This parameter indicates the inter-frequency measurement triggering threshold for cell reselection(Sintersearch) used by UE to judge whether inter-frequency measurement should be performed. When HCS is not used, if the quality of serving cell exceeds Sintersearch, UE may choose to not perform inter-frequency measurement; if the quality of serving cell is not larger than Sintersearch or if Sintersearch is not configured, UE performs inter-frequency measurement.

Cell selection and reselection: Cell Reselection Parameter

- OtherRATInfoPre: This parameter is a switch indicating whether inter-RAT information parameters used for cell reselection are configured or not. If the value is False, inter-RAT information parameters are not configured to UE, and UE performs the inter-RAT measurement periodically according to the period indicated by the parameter Treselections. If the value is True, inter-RAT information parameters are configured to UE, and UE judges whether to perform the inter-RAT measurement.
- SSearchRat: This parameter indicates the inter-RAT measurement triggering threshold for cell reselection(Ssearch,RAT) used by UE to judge whether inter-RAT measurement should be performed. When HCS is not used, if the quality of serving cell exceeds Ssearch,RAT, UE may choose to not perform inter-RAT measurement; if the quality of serving cell is not larger than Ssearch,RAT or if Ssearch,RAT is not configured, UE performs inter-RAT measurement.

Cell selection and reselection: Cell Selection Parameter

Parameter name	Temporary_offset1 in SIB11
Abbreviated name	<i>TempOffset1Sib11</i>
Description	This parameter indicates the temporary offset for CPICH RSCP. The cell belongs to the HCS structure. This parameter is required when queue the cells in the cell reselection rule. This parameter is broadcast to UE in SIB11.
Range and Step	OMCR: (3, 6, 9, 12, 15, 18, 21, inf) dB RNC: [0, 7]
Unit	dB
Default Value (note)	9 dB

Cell selection and reselection: Cell Selection Parameter

Parameter name	Temporary_offset2 in SIB11
Abbreviated name	<i>TempOffset2Sib11</i>
Description	This parameter indicates the temporary offset of the neighboring cell for CPICH Ec/No. The cell belongs to the HCS structure. This parameter is required when queue the cells in the cell reselection rule. This parameter is broadcast to UE in SIB11.
Range and Step	OMCR: (2, 3, 4, 6, 8, 10, 12, inf) dB RNC: [0, 7]
Unit	dB
Default Value (note)	10 dB

Cell selection and reselection: Cell Selection Parameter

Parameter name	Temporary_offset1 in SIB12
Abbreviated name	<i>TempOffset1Sib12</i>
Description	This parameter indicates the temporary offset of the neighboring cell for CPICH RSCP. The cell belongs to the HCS structure. This parameter is required when queue the cells in the cell reselection rule. This parameter is broadcast to UE in SIB12.
Range and Step	OMCR: (3, 6, 9, 12, 15, 18, 21, inf) dB RNC: [0, 7]
Unit	dB
Default Value (note)	3 dB

Cell selection and reselection: Cell Selection Parameter

Parameter name	Temporary_offset2 in SIB12
Abbreviated name	<i>TempOffset2Sib12</i>
Description	This parameter indicates the temporary offset of the neighboring cell for CPICH Ec/No. The cell belongs to the HCS structure. This parameter is required when queue the cells in the cell reselection rule. This parameter is broadcast to UE in SIB12.
Range and Step	OMCR: (2, 3, 4, 6, 8, 10, 12, inf) dB RNC: [0, 7]
Unit	dB
Default Value (note)	2 dB

Cell selection and reselection: Cell Selection Parameter

Parameter name	Penalty Time in SIB11
Abbreviated name	<i>PenaltyTimeSib11</i>
Description	This parameter indicates the effective time of the neighboring cell temporary offset. The cell belongs to the HCS structure. This parameter is required when queue the cells in the cell reselection rule. This parameter is broadcast to UE in SIB11.
Range and Step	OMCR: (Not Used, 10, 20, 30, 40, 50, 60)s RNC: [1, 7]
Unit	s
Default Value (note)	10 s

Cell selection and reselection: Cell Selection Parameter

Parameter name	Penalty Time in SIB12
Abbreviated name	<i>PenaltyTimeSib12</i>
Description	This parameter indicates the effective time of the neighboring cell temporary offset. The cell belongs to the HCS structure. This parameter is required when queue the cells in the cell reselection rule. This parameter is broadcast to UE in SIB12.
Range and Step	OMCR: (Not Used, 10, 20, 30, 40, 50, 60) s RNC: [1, 7]
Unit	s
Default Value (note)	N/A

Cell selection and reselection: Cell Selection Parameter

Parameter name	Qoffset1s,n in SIB11
Abbreviated name	<i>Qoffset1SNSib11</i>
Description	<p>This parameter indicates the quality offset of the service cell and neighboring cell when the measurement quantity is CPICH RSCP. This parameter is required when queues cells in the cell reselection rule. This parameter is broadcast to UE in SIB11.</p> <p>If value of the parameter is increased, it's harder for the neighboring cell to satisfy the condition of being selected.</p> <p>If value of the parameter is decreased, it's easier for the neighboring cell to satisfy the condition of being selected</p>
Range and Step	<p>OMCR: [-50, 50]dB</p> <p>RNC: D=P+50, [0, 100]</p>
Unit	dB
Default Value (note)	0 dB

Cell selection and reselection: Cell Selection Parameter

Parameter name	Qoffset2s,n in SIB11
Abbreviated name	<i>Qoffset2SNSib11</i>
Description	This parameter indicates the quality offset of the service cell and neighboring cell when the measurement quantity is CPICH Ec/No. This parameter is required when queues cells in the cell reselection rule. This parameter is broadcast to UE in SIB11.
Range and Step	OMCR: [-50, 50]dB RNC: D=P+50, [0, 100]
Unit	dB
Default Value (note)	0 dB

Cell selection and reselection: Cell Selection Parameter

Parameter name	Qoffset1s,n in SIB12(dB)
Abbreviated name	<i>Qoffset1SNSib12</i>
Description	This parameter indicates the quality offset of the service cell and neighbor cell for CPICH RSCP. This parameter is required when queue the cells in the cell reselection rule. This parameter is broadcast to UE in SIB12.
Range and Step	OMCR: [-50, 50]dB RNC D=P+50, [0, 100]
Unit	dB
Default Value (note)	0dB

Cell selection and reselection: Cell Selection Parameter

Parameter name	Qoffset2s,n in SIB12(dB)
Abbreviated name	<i>Qoffset2SNSib12</i>
Description	This parameter indicates the quality offset of the service cell and neighbor cell for CPICH Ec/N0. This parameter is required when queue the cells in the cell reselection rule. This parameter is broadcast to UE in SIB12.
Range and Step	OMCR: [-50, 50]dB RNC D=P+50, [0, 100]
Unit	dB
Default Value (note)	0dB

Cell selection and reselection: Cell Selection Parameter

Parameter name	Qhyst1-s
Abbreviated name	<i>QHyst1S</i>
Description	This parameter indicates the hysteresis value for FDD cells in case the quality measure for cell selection and reselection is set to CPICH RSCP. In cell-ranking criterion R of cell reselection, the R value of serving cell equals to the measured value plus the hysteresis value.
Range and Step	[0, 40]dB; Step2 dB
Unit	dB
Default Value (note)	2 dB

Cell selection and reselection: Cell Selection Parameter

Parameter name	Qhyst1s for UE in CELL_PCH or URA_PCH State
Abbreviated name	<i>QHyst1SPch</i>
Description	This parameter indicates the hysteresis value (Qhyst) when UE is in CELL_PCH /URA_PCH, used for FDD cells in case the quality measure for cell selection and reselection is set to CPICH RSCP. If this parameter is not provided in SIB4, Qhyst1s shall be used. In cell-ranking criterion R of cell reselection, the R value of serving cell equals to the measured value plus the hysteresis value.
Range and Step	[0, 40]dB; Step 1 dB
Unit	dB
Default Value (note)	2 dB

Cell selection and reselection: Cell Selection Parameter

Parameter name	Qhyst1s for UE in CELL_FACH State
Abbreviated name	<i>QHyst1SFach</i>
Description	This parameter indicates the hysteresis value (Qhyst) when UE is in CELL_FACH, used for FDD cells in case the quality measure for cell selection and reselection is set to CPICH RSCP. If this parameter is not provided in SIB4, Qhyst1s shall be used. In cell-ranking criterion R of cell reselection, the R value of serving cell equals to the measured value plus the hysteresis value.
Range and Step	[0, 40]dB; Step 1 dB
Unit	dB
Default Value (note)	2 dB

Cell selection and reselection: Cell Selection Parameter

Parameter name	Qhyst2-s
Abbreviated name	QHyst2S
Description	This parameter indicates the hysteresis value for FDD cells in case the quality measure for cell selection and reselection is set to CPICH Ec/No. In cell-ranking criterion R of cell reselection, the R value of serving cell equals to the measured value plus Qhyst2s.
Range and Step	[0, 40]dB; Step 2 dB
Unit	dB
Default Value (note)	2 dB

Cell selection and reselection: Cell Selection Parameter

Parameter name	Qhyst2s for UE in CELL_PCH or URA_PCH State
Abbreviated name	<i>QHyst2SPch</i>
Description	This parameter indicates the hysteresis value (Qhyst) when UE is in CELL_PCH /URA_PCH, used for FDD cells in case the quality measure for cell selection and reselection is set to CPICH Ec/No. If this parameter is not provided in SIB4, Qhyst2s shall be used. In cell-ranking criterion R of cell reselection, the R value of serving cell equals to the measured value plus the hysteresis value.
Range and Step	[0, 40]dB; Step 1 dB
Unit	dB
Default Value (note)	2 dB

Cell selection and reselection: Cell Selection Parameter

Parameter name	Qhyst2s for UE in CELL_FACH State
Abbreviated name	<i>QHyst2SFach</i>
Description	This parameter indicates the hysteresis value (Qhyst) when UE is in CELL_FACH, used for FDD cells in case the quality measure for cell selection and reselection is set to CPICH Ec/No. If this parameter is not provided in SIB4, Qhyst2s shall be used. In cell-ranking criterion R of cell reselection, the R value of serving cell equals to the measured value plus the hysteresis value.
Range and Step	[0, 40]dB; Step 1 dB
Unit	dB
Default Value (note)	2 dB

Cell selection and reselection: Cell Selection Parameter

Parameter name	Treselection
Abbreviated name	<i>Treselection</i>
Description	This parameter indicates the cell reselection timer value. UE shall reselect the new cell if the new cell is better ranked than the serving cell according to the cell-ranking criterion R during a time interval indicated by Treselections.
Range and Step	[0, 31]s; step 1s
Unit	s
Default Value (note)	1s

Cell selection and reselection: Cell Selection Parameter

Parameter name	Treselections,PCH
Abbreviated name	<i>TReselectionPch</i>
Description	This parameter indicates the cell reselection timer value the UE shall use in RRC connected mode states CELL_PCH and URA_PCH if provided in SIB4, otherwise Treselections shall be used. UE shall reselect the new cell if the new cell is best ranked according to the cell-ranking criterion R during a time interval indicated by the cell reselection timer value.
Range and Step	[0, 31]s; step 1s
Unit	s
Default Value (note)	2s

Cell selection and reselection: Cell Selection Parameter

Parameter name	Treselections,FACH
Abbreviated name	<i>TReselectionFach</i>
Description	This parameter indicates the cell reselection timer value the UE shall use in RRC connected mode state CELL_FACH if provided in SIB4, otherwise Treselections shall be used. UE shall reselect the new cell if the new cell is best ranked according to the cell-ranking criterion R during a time interval indicated by the cell reselection timer value.
Range and Step	[0, 6.2]s; step 0.2 s
Unit	s
Default Value (note)	2s

Cell selection and reselection: Cell Selection Parameter

Parameter name	Measurement Quantity for Cell Selection and Reselection
Abbreviated name	<i>QualMeas</i>
Description	This parameter indicates the measurement quantity for cell selection and reselection.
Range and Step	1: CPICH Ec/No 2: CPICH RSCP
Unit	N/A
Default Value (note)	1: CPICH Ec/No

Cell selection and reselection: Cell Selection Parameter

Parameter name	Qoffmbms
Abbreviated name	<i>QoffMbms</i>
Description	This parameter indicates the additional offset added to cells belonging to the MBMS preferred frequency layer when judging the cell-ranking criterion R of cell reselection for the non-HCS cell.
Range and Step	[4, 8, 12, 16, 20, 30, 40, Infinity]dB
Unit	dB
Default Value (note)	4 dB

Cell selection and reselection: Cell Selection Parameter

Parameter name	S-intrasearch Configuration Tag
Abbreviated name	<i>SintraSearchPre</i>
Description	This parameter is a switch indicating whether Sintrasearch is configured or not. If the value is False, Sintrasearch is not configured to UE, and UE performs the intra-frequency measurement periodically according to the period indicated by the parameter Treselections. If the value is True, Sintrasearch is configured to UE, and UE judges whether to perform the intra-frequency measurement.
Range and Step	0: False 1: True
Unit	N/A
Default Value (note)	1: True

Cell selection and reselection: Cell Selection Parameter

Parameter name	S-intrasearch
Abbreviated name	<i>SIntraSearch</i>
Description	This parameter indicates the intra-frequency measurement triggering threshold for cell reselection (Sintrasearch) used by UE to judge whether intra-frequency measurement should be performed. When HCS is not used, if the quality of serving cell exceeds Sintrasearch, UE may choose to not perform intra-frequency measurement; if the quality of serving cell is not larger than Sintrasearch or if Sintrasearch is not configured, UE performs intra-frequency measurement.
Range and Step	[0, 20] dB; Step 2 dB
Unit	dB
Default Value (note)	14 dB

Cell selection and reselection: Cell Selection Parameter

Parameter name	S-intersearch Configuration Tag
Abbreviated name	<i>SInterSearchPre</i>
Description	This parameter is a switch which indicates whether Sintersearch is configured or not. If the value is False, Sintersearch is not configured to UE, and UE performs the inter-frequency measurement periodically according to the period indicated by the parameter Treselections. If the value is True, Sintersearch is configured to UE, and UE judges whether to perform the inter-frequency measurement.
Range and Step	0: False 1: True
Unit	N/A
Default Value (note)	1: True

Cell selection and reselection: Cell Selection Parameter

Parameter name	S-intersearch
Abbreviated name	<i>Sintersearch</i>
Description	This parameter indicates the inter-frequency measurement triggering threshold for cell reselection(Sintersearch) used by UE to judge whether inter-frequency measurement should be performed. When HCS is not used, if the quality of serving cell exceeds Sintersearch, UE may choose to not perform inter-frequency measurement; if the quality of serving cell is not larger than Sintersearch or if Sintersearch is not configured, UE performs inter-frequency measurement.
Range and Step	[0, 20]dB; Step 2 dB
Unit	dB
Default Value (note)	10 dB

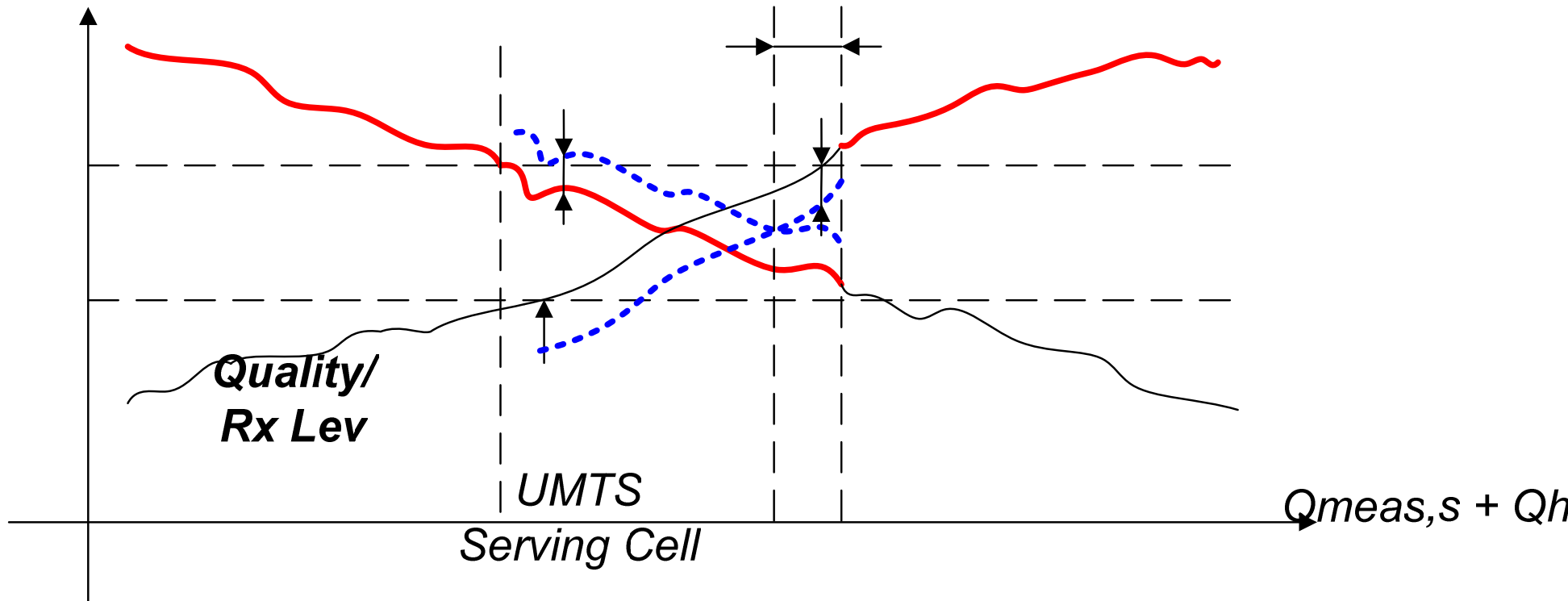
Cell selection and reselection: Cell Selection Parameter

Parameter name	Other RAT Information Configuration Tag
Abbreviated name	<i>OtherRATInfoPre</i>
Description	This parameter is a switch indicating whether inter-RAT information parameters used for cell reselection are configured or not. If the value is False, inter-RAT information parameters are not configured to UE, and UE performs the inter-RAT measurement periodically according to the period indicated by the parameter <i>Treselections</i> . If the value is True, inter-RAT information parameters are configured to UE, and UE judges whether to perform the inter-RAT measurement.
Range and Step	0: False 1: True
Unit	N/A
Default Value (note)	1: True

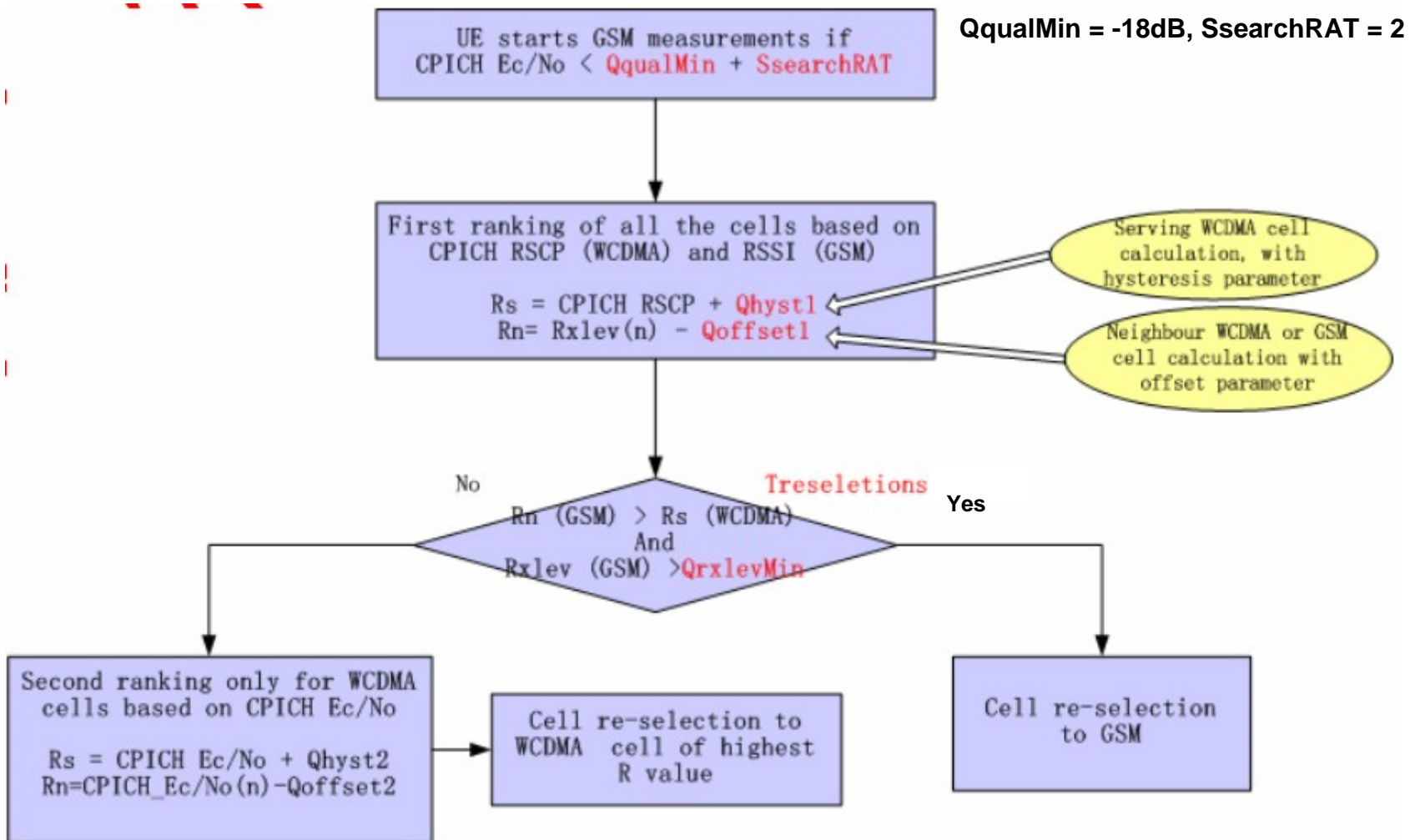
Cell selection and reselection: Cell Selection Parameter

Parameter name	S-search,RAT
Abbreviated name	<i>SSearchRat</i>
Description	<p>This parameter indicates the inter-RAT measurement triggering threshold for cell reselection(Ssearch,RAT) used by UE to judge whether inter-RAT measurement should be performed. When HCS is not used, if the quality of serving cell exceeds Ssearch,RAT, UE may choose to not perform inter-RAT measurement; if the quality of serving cell is not larger than Ssearch,RAT or if Ssearch,RAT is not configured, UE performs inter-RAT measurement.</p> <p>When Ssearch,RAT is delivered to the UE, if its value is increased, it's easier for the UE to trigger inter-RAT measurement.</p> <p>If value of the parameter is decreased, it's harder for the UE to trigger inter-RAT measurement.</p>
Range and Step	[0, 20]dB; Step 2 dB
Unit	N/A
Default Value (note)	2 dB

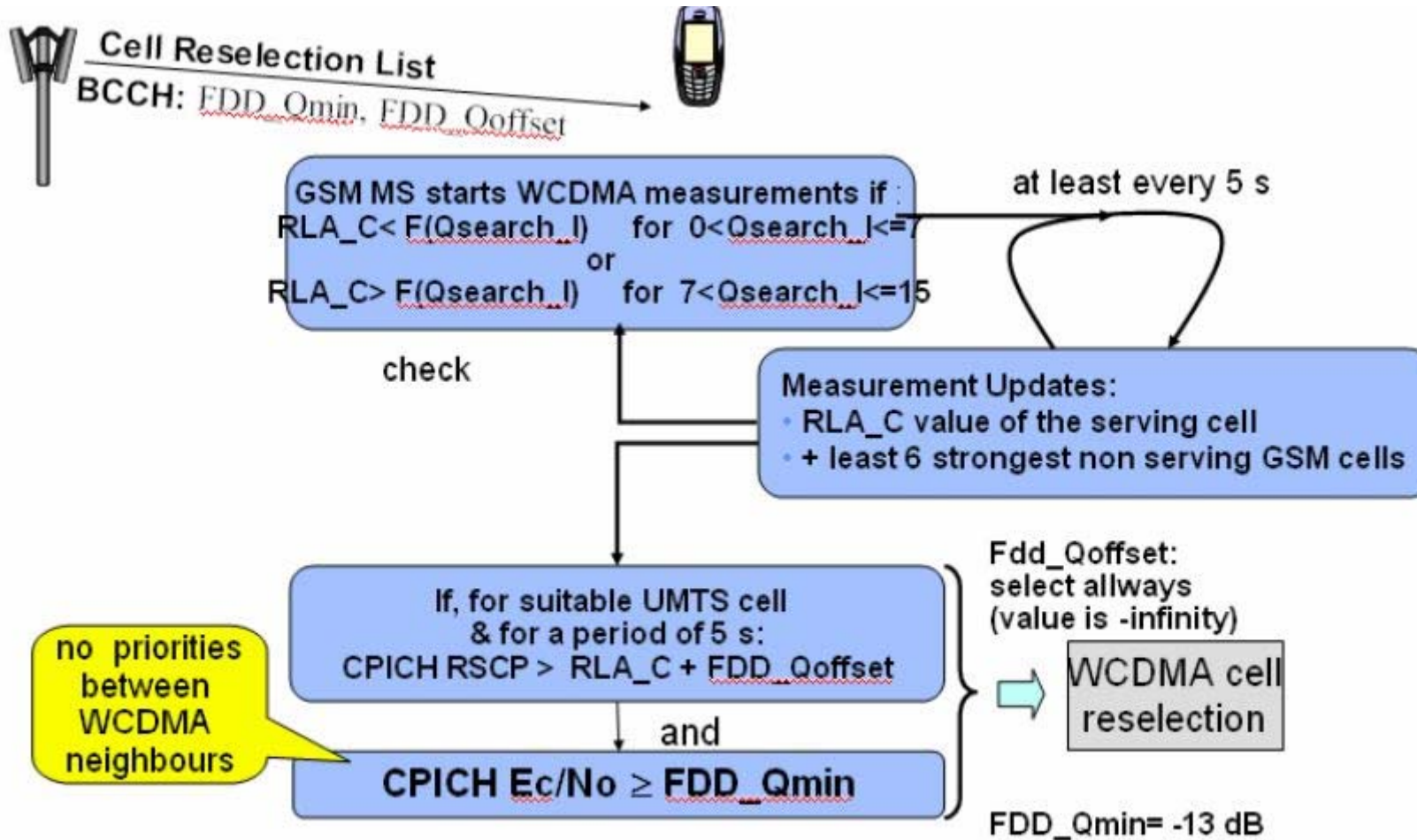
Inter-RAT Cell Re-Selection



$Q_{qualmin} + S_{searchRat}$



Inter-RAT Cell Reselection 2G to 3G



Contents

- PLMN Selection
- Cell selection and reselection
- Cell Reservations and Access Restrictions

Cell Reservations and Access Restrictions

- There are two mechanisms, which allow an operator to impose cell reservations or access restrictions.
- The first mechanism uses indication of cell status and special reservations for control of cell selection and re-selection procedures.
- The second mechanism will allow preventing selected classes of users from sending initial access messages for load control reasons. At subscription, one or more Access Classes are allocated to the subscriber and stored in the USIM, which are employed for this purpose.
- Cell status and cell reservations are indicated with the Cell Access Restriction Information Element in the System Information Message by means of three Information Elements:
 - ◆ Cell barred CellBarredInd
 - ◆ Cell Reserved for operator use OperatorUseInd
 - ◆ Cell reserved for future extension CellRsvExt

Cell Reservations and Access Restrictions

- In state CellBarredInd, it's necessary to configure InFreqReselInd and TBarred for the UE. If InFreqReselInd is "Not Allowed", the processing strategy of the intra-frequency neighbor cell in state CellBarred is the same as the current cell in state CellBarred. The UE will not attempt to reselect the cell in state CellBarred within the Tbarred time period. After Tbarred expires, the UE will attempt again to reselect the cell.
- When cell status is indicated as "not barred", "not reserved" for operator use and "not reserved" for future extension
 - ◆ All UEs will treat this cell as candidate during the cell selection, cell evaluation and cell re-selection procedures in Idle mode and in Connected mode.
- When cell status is indicated as "not barred", "not reserved" for operator use and "reserved" for future extension
 - ◆ UEs will behave as if cell status "barred" is indicated using the value "not allowed" in the information element (IE) "Intra-frequency cell re-selection indicator" and the maximum value for Tbarred

Cell Reservations and Access Restrictions

- When cell status is indicated as "not barred" and "reserved" for operator use,
 - ◆ UEs assigned to Access Class 11 or 15 will treat this cell as candidate during the cell selection and cell re-selection procedures if the cell belongs to the home PLMN.
 - ◆ UEs assigned to an Access Class in the range 0 to 9 and 12 to 14 shall behave as if cell status "barred" is indicated using the value "not allowed" in the IE "Intra-frequency cell re-selection indicator" and the maximum value for Tbarred
- When cell status "barred" is indicated,
 - ◆ The UE is not permitted to select/re-select this cell, not even for emergency calls.
 - ◆ The UE will ignore the "Cell Reserved for future extension (Cell Reservation Extension) use" IE.
 - ◆ The UE is not permitted to receive any MBMS services.
 - ◆ The UE will select another cell according to the following rule:

Cell Reservations and Access Restrictions

- If the "Intra-frequency cell re-selection indicator" IE in Cell Access Restriction IE is set to value "allowed", the UE may select another cell on the same frequency if selection/re-selection criteria are fulfilled.
 - If the UE is camping on another cell, the UE shall exclude the barred cell from the neighbouring cell list until the expiry of a time interval T_{barred} . The time interval T_{barred} is sent via system information in a barred cell together with Cell status information in the Cell Access Restriction IE.
 - If the UE does not select another cell, and the barred cell remains to be the "best" one, the UE shall after expiry of the time interval T_{barred} again check whether the status of the barred cell has changed.
 - If the "Intra-frequency cell re-selection indicator" IE is set to "not allowed" the UE shall not re-select a cell on the same frequency as the barred cell. During an ongoing emergency call, the Intra-frequency cell re-selection indicator IE" shall be ignored, i.e. even if it is set to "not allowed" the UE may select another intra-frequency cell
 - If the barred cell remains to be the "best" one, the UE shall after expiry of the time interval T_{barred} again check whether the status of the barred cell has changed.
- The reselection to another cell may also include a change of RAT.

Cell Reservations and Access Restrictions Parameter

Parameter name	Tbarred
Abbreviated name	<i>TBarred</i>
Description	This parameter indicates the barred time of a barred cell.
Range and Step	(10, 20, 40, 80, 160, 320, 640, 1280) s
Unit	s
Default Value (note)	10s

Cell Reservations and Access Restrictions Parameter

Parameter name	Cell Barred Indicator
Abbreviated name	<i>CellBarredInd</i>
Description	This parameter is cell barred indicator. If the cell barred indicator is set to “Barred”, UEs are not permitted to select/re-select this cell, even for emergency calls.
Range and Step	1: Barred 2: Not Barred
Unit	N/A
Default Value (note)	2: Not Barred

Cell Reservations and Access Restrictions Parameter

Parameter name	Cell Reserved for Operator Use
Abbreviated name	<i>OperatorUseInd</i>
Description	This parameter is cell reserved indicator for operator use. If the value is “reserved”, the cell cannot be camped on, except for particular UEs, if so indicated in the system information.
Range and Step	0: Reserved 1: Not Reserved
Unit	N/A
Default Value (note)	1: Not Reserved

Cell Reservations and Access Restrictions Parameter

Parameter name	Cell Reservation Extension
Abbreviated name	<i>CellRsvExt</i>
Description	This parameter is cell reservation extension indicator. If it is set “reserved”, if the value of Intra-frequency Cell Reselection Indicator is “not allowed”, UEs shall behave as if cell status "barred" is indicated. And if cell status “not barred” is indicated, the "Cell Reservation Extension" is invalid.
Range and Step	0: Reserved 1: Not Reserved
Unit	N/A
Default Value (note)	1: Not Reserved

Cell Reservations and Access Restrictions Parameter

Parameter name	Intra-frequency Cell Reselection Indicator
Abbreviated name	<i>InFreqReselInd</i>
Description	This parameter is intra-frequency cell reselection indicator. If cell is barred, if the value of this parameter is “Allowed”, UE is allowed to select other intra-frequency cell in case it satisfies the cell selection/relection condition. If it is set “Not Allowed”, when cell is barred, UE will not select another intra-frequency cell.
Range and Step	0: Allowed 1: Not Allowed
Unit	N/A
Default Value (note)	0: Allowed

Cell Reservations Parameter Summary

Parameter Name	Default Value	TRUE Value
Qqualmin	-18db	-18db
Qrxlevmin	-115dbm	-115dbm
DeltaQrxlevmin Configuration Tag	FALSE	FALSE
DeltaQrxlevmin	-2db	-2db
DeltaQrxlevmin in SIB11 Configuration Tag	FALSE	FALSE
DeltaQrxlevmin in SIB11	-2db	-2db
DeltaQrxlevmin in SIB12 Configuration Tag	FALSE	FALSE
DeltaQrxlevmin in SIB12	-2db	-2db
Maximum Allowed UL TX Power of RACH	24dbm	24dbm
Temporary_offset1 in SIB11	9db	9db
Temporary_offset2 in SIB11	10db	10db
Temporary_offset1 in SIB12	3db	3db
Temporary_offset2 in SIB12	2db	2db

Cell Reservations Parameter Summary

Parameter Name	Default Value	TRUE Value
Penalty Time in SIB11	10s	10s
Penalty Time in SIB12	Not Used	Not Used
Qoffset1s,n in SIB11	0db	0db
Qoffset2s,n in SIB11	0db	0db
Qoffset1s,n in SIB12(dB)	0db	0db
Qoffset2s,n in SIB12(dB)	0db	0db
Qhyst1-s	2db	2db
Qhyst1s for UE in CELL_PCH or URA_PCH State	2db	2db
Qhyst1s for UE in CELL_FACH State	2db	2db
Qhyst2-s	2db	2db
Qhyst2s for UE in CELL_PCH or URA_PCH State	2db	2db
Qhyst2s for UE in CELL_FACH State	2db	2db
Treselection	1s	1s
Treselections,PCH	2s	2s

Cell Reservations Parameter Summary

Parameter Name	Default Value	TRUE Value
Treselections,FACH	2s	2s
Measurement Quantity for Cell Selection and Reselection	CPICH Ec/No	CPICH Ec/No
Qoffmbms	4db	4db
S-intrasearch Configuration Tag	TRUE	TRUE
S-intrasearch	14db	14db
S-intersearch Configuration Tag	TRUE	TRUE
S-intersearch	10db	10db
Other RAT Information Configuration Tag	TRUE	TRUE
S-search,RAT	2db	8db
Tbarred	10s	10s
Cell Barred Indicator	Not Barred	Not Barred
Cell Reserved for Operator Use	Not Reserved	Not Reserved
Cell Reservation Extension	Not Reserved	Not Reserved
Intra-frequency Cell Reselection Indicator	Allowed	Allowed