

Status Report for WI to TSG

Work Item Name: Enhancement of the support of network sharing in the UTRAN

SOURCE: Rapporteur

TSG: RAN

WG: 2

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Ref. to WI sheet: ftp://ftp.3gpp.org/tsg_ran/TSG_RAN/Work_Item_sheets/

Progress Report since the last TSG (for all involved WGs):

RAN WG2 and WG3 consider the network sharing work as finalized.

RAN WG2:

Agreed CRs:

- CR(2487rev1) to 25.331 on Network Sharing and multiple PLMN identities (see R2-042736).
- CR(124) to 25.304 on Network Sharing and multiple PLMN identities (see R2-042665).

Estimated level of completion in RAN WG2: 100%

RAN WG3:

Agreed CRs:

- CR(701) to 25.413 on Indication of selected PLMN in shared networks (R3-041419).
- CR(702r1) to 25.413 on Rerouting in MOCN (R3-041621).
- CR(58) to 25.410 on MOCN rerouting function (R3-041478).
- CR(92) to 25.401 on Support of MOCN and GWCN configurations in UTRAN (R3-041479).
- CR(715r2) to 25.413 on Support of full Mobility/Backwards Compatibility in Network Sharing (R3-041711).

Estimated level of completion in RAN WG3: 100%

List of Completed elements (for complex work items):

The following technical principles has been agreed:

- Broadcast of multiple PLMN
 - A list of PLMN identities can be inserted into the Master Information Block (MIB).
 - The PLMN list can contain up to 5 additional PLMN identities.
 - The MCC of a PLMN identity in the list may not be sent if its MCC is the same as the MCC of the previous PLMN in the list.
 - A bit indicates whether the pre Rel. 6 "PLMN identity" IE in the MIB is considered to be part of the multiple PLMN list or not.
 - When the multiple PLMN list is not available in the MIB, the pre Rel. 6 "PLMN identity" IE in the MIB is the PLMN of the cell.
- Indication of selected PLMN
 - An IE that indicates selected PLMN to UTRAN is inserted in the INITIAL DIRECT TRANSFER message for release 6 UEs.
 - The explicit PLMN identity is inserted in the INITIAL DIRECT TRANSFER message for release 6 UEs.
 - The selected PLMN is indicated to the CN in a new IE in the RANAP "Initial UE message" for release 6 UEs.
- The forwarding of available PLMNs to NAS at PLMN selection is clarified.

- Cell selection/reselection
 - It is clarified that a cell may have one LAC but several LAIs, and it is clarified when a cell is suitable.
 - If several PLMN identities make the cell suitable, NAS for release 6 UEs makes a choice among them.
- Handovers
 - Depending on RNC capabilities, the source RNC or the target CN node is responsible for the determination of the selected PLMN identity for the UE in the target cell.
 - The selected PLMN for the UE in the target cell is indicated to the target RNC in a new IE in the RANAP: RELOCATION REQUEST message.
 - For backward compatibility with legacy RNCs, a PLMN identity is inserted in hard handover messages and UTRAN MOBILITY INFORMATION, and CN INFORMATION INFO contains the pre Rel. 6 “PLMN identity” IE in the MIB.
- Rerouting in MOCN
 - Introduction of RAN-centric rerouting function in MOCN in 25.413.
 - Overall description of rerouting function in 25.410.
 - RANAP coding of reject causes for rerouting in MOCN in 25.413
- Introduction of MOCN and GWCN configurations in UTRAN in 25.401.
- Indication of selected PLMN in COMMON ID message in GWCN configuration.

List of open issues:

Estimates of the level of completion (when possible):

100%

WI completion date review resulting from the discussion at the working group:

RAN#26

References to WG's internal documentation and/or TRs:

None