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:
A network sharing solution was presented and discussed. CRs for the proposed solution were attached. The solution for LA/RA updates in CELL_DCH triggered a lot of discussion, and it was decided to send a liaison to CN1 and SA2 asking for clarifications about what PLMN identity information should be provided in CN INFORMATION INFO message.

The presented solution was taken as a working assumption in RAN2, but depending on the replies of the LSs some revisions might be needed.

Estimated level of completion in RAN WG2: 80%

RAN WG3:
- CR(683) to 25.413 on indication of selected PLMN-id (using RANAP signalling from RNC to CN) has been agreed and is ready for approval (RAN #26).
- CR (56), introduction of Rerouting function for MOCN in 25.410, was agreed and ready for approval (RAN #26).
- CR (682), Rerouting function in MOCN configuration introduced in 25.413. The CR was discussed and principally agreed with only one open issue. The open issue is related to the RANAP coding of reject causes.

Estimated level of completion in RAN WG3: 90%

List of Completed elements (for complex work items):
The following technical principles has been accepted:
- 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.
  - The selected PLMN is indicated to the CN in a new IE in the RANAP "Initial UE message".
- 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.

- o An AS PLMN selection procedure is introduced, which specifies what equivalent PLMN the UE shall choose at cell reselection.
- Introduction of RAN-centric rerouting function for MOCN in 25.413.
- Overall description of rerouting function in 25.410.

List of open issues:
- What PLMN identity information is to be provided in CN INFORMATION INFO message?
- Coded or explicit selected PLMN identity in INITIAL DIRECT TRANFER message.
- Proper RANAP coding of reject causes for rerouting in MOCN.

Estimates of the level of completion (when possible):
85%

WI completion date review resulting from the discussion at the working group:
RAN#26

References to WG's internal documentation and/or TRs:
None