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3GPP TSG RAN meeting #93e
Electronic meeting, Sept. 13-17, 2021
A.I. 9.0.4

RP-212352

Views on SON MDT Enhancements for Rel-18

Background

- Based on pre-plenary email discussion in RP-211666, there seems to be consensus to have a SON MDT Enhancements WI in Rel-18
- Further, the moderator proposed the following scope as baseline. However, the scope indicated is large and further consolidation is needed
  - SON MDT WI Tentative Areas / Scope (RAN3, RAN2)
    - 1. IRAT HO voice fallback
    - 2. SON MDT Rel-17 leftovers (details FFS) e.g., MR-DC CPAC and MRO successful PSCell change report, fast MCG recovery
    - 3. Rel-16 features not earlier covered including their Rel-17 enhancements: NPN, V2X, IAB
    - 4. Rel-17 new features, RACH enhancements, MBS, Cov Enh, NTN, SDT, Slice
    - 5. Other, FFS e.g., Mandatory capability for essential cases (e.g., related to energy consumption), applicable parts of 5GAA predictive QoS not covered above if any.
  - Note: Bullets 1-4 are tentatively ordered according to decreasing priority and the feature listing in bullets 3 and 4 are tentatively ordered according to decreasing priority. This is preliminary.

Proposals

- **Proposal 1:** Prioritize the following features for SON/MDT for Rel-18:
  - **Rel-17 leftovers** (already identified and should be studied in Rel-18)
  - **NPN** (simple extension to PLMN networks)
  - **MBS** (To mirror LTE MBMS MDT feature)
  - **RACH partitioning** (might need enhancements to RACH report with unified RACH framework)
- **Proposal 2:** Deprioritize the following for SON/MDT for Rel-18:
  - **IRAT Handover voice fallback**: This is a deprecating feature specially with VoNR
  - **NTN**: Newly introduced in Rel-17
  - **Mandatory capability for essential cases** (e.g., related to energy consumption): Capabilities need not be discussed at this point in the WID
  - **Predictive QoS**: Better study in AI/ML WI
- **Proposal 3:** Other features e.g., SDT, Slice, V2X, IAB could be low priority and only considered if there is high interest from operators and a lot of companies
- **Proposal 4**: On whether to move SON/MDT for few features (e.g., V2X, NPN, IAB) to its own dedicated WIs, we prefer to keep it within the SON/MDT WI as it has been done earlier for other features e.g., NR-U, Mobility Enhancements

Proposals

- **Proposal 5:** Consider the following structure as new baseline for further discussions:
  - SON MDT WI Tentative Areas / Scope (RAN3, RAN2)
    - **Rel-17 leftovers** (details FFS) e.g., MRO for CPAC, Successful PSCell change report, Fast MCG recovery
    - **New features**: NPN, RACH partitioning, MBS
    - **Other features (further down scoping needed)**: SDT, Slice, V2X, IAB

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