3GPP TSG RAN Meeting #84
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RP-191417
was RP-190859

NEC Views on Rel-17 Topics

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Roadmap

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NEC View on Rel-17 topics

Overview and Motivation : Smart Connectivity

- Rel-17 shall cover **additional use cases** for which there is sufficient demand
- Rel-17 shall **improve efficiency** and **correct problems**
  - ... based on problems identified with the deployment of Rel-15 and Rel-16
- To remain future-proof, there also needs to be room in Rel-17 for **studies** into areas that may impact 3GPP in future

New Features : NR Support for

- Above 52.6GHz
- Various type IoT (*e.g. NR-Lite*)
- UAV / drones
- 1024QAM

NR Enhancements :

- MIMO (*e.g. Multi-panel Tx for UL*)
- Side Link
- Enhanced NR operation on unlicensed band (*e.g. 60GHz*)
- MR-DC (*e.g. Multiple Connectivity*)
- IAB
- Private Network
- SON/MDT (*e.g. more use cases*)
- Network Sharing
- Non Terrestrial Network
- Multicast

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Regarding TEI

Problem Statement :

- Recently some unfortunate experiences with TEI
  - E.g. SA2 LS in R3-191209 caused RAN3 work ending up with TEI16 CR
- TEI sometimes hides significant features

TEI principles (shared by many RAN experts) :

- TEI is something **small** and **contained**
  - Anything else should become a WI
  - In principle TEI to be captured in one CR (possibly one CR with similar change in multiple specifications)
- TEI is restricted to **one** WG only
  - Work requiring interaction across multiple RAN WGs should have appropriate WI
  - "Cross-TSG" work should also be based on appropriate WI
- TEI is restricted to **one** meeting cycle

TEI Principles (cont'd) :

- If principles cannot be met, or will no longer be met, a **specific Work Item** should be drafted
  - ... following the normal rules for WIs

Proposals :

- Document above principles in TR 21.900
  - SP#83 approved SP-190270, which captures some principles already
- RAN to provide input to SA discussion on possible improvements to TEI process
  - In particular improvements will be needed if TEI cannot be avoided for "cross-TSG" work

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