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Focus Areas for Release 16

LG Electronics, LG Uplus

Contents

- 1. System-level focus areas for Rel-16
- 2. SA-led non-RAN impacting focus areas for Rel-16

1. System-level focus areas for Rel-16 (1/3)

V2X/Automotive

- Study items for architecture to cover V2X/Automotive
  - FS_eV2XARC (Study on architecture enhancements for 3GPP support of advanced V2X services)
  - Mixed Mode Broadcasting/Multicasting – *No study item yet*

- Why this focus area is essential
  - Specifying 5GC/NR V2X in Rel-16 is important meet the current automotive ecosystem demands.
  - Having C-V2X competitive with 802.11p is important.

- Expected main impacts on RAN WGs
  - NR PC5 (sidelink)
  - Uu enhancements including Mixed Mode Broadcasting/Multicasting

※ Impacts on RAN WGs are expected to support Stage 1 requirements identified by SA1 (e.g. TR 22.886, TS 22.186) and Stage 2 requirements identified by SA2 (e.g. TR 23.786).

1. System-level focus areas for Rel-16 (2/3)

URLLC

- Study items for architecture to cover URLLC
  - FS_5G_URLLC (Study on enhancement of URLLC supporting in 5GC)
  - FS_Vertical_LAN (Study on 5GS Enhanced support of Vertical and LAN Services) – *Proposal submitted to SA2#127BIS*

- Why this focus area is essential
  - Developing enablers for vertical services/application requiring URLLC such as V2X, Automation, Industrial IoT, high-end IoT is important.
  - Improving Rel-15 5GS for AR/VR/Tactile Internet is important.

- Expected main impacts on RAN WGs
  - Uu enhancements

※ Impacts on RAN WGs are expected to support Stage 1 requirements identified by SA1 (e.g. TS 22.261, TR 22.804, TR 22.821) and Stage 2 requirements identified by SA2 (e.g. TR 23.725, TR 23.Vertical_LAN).

1. System-level focus areas for Rel-16 (3/3)

IoT/MTC

- Study items for architecture to cover IoT/MTC
  - FS_CIoT_5G (Study on Cellular IoT support and evolution for the 5G System)

- Why this focus area is essential
  - It is important to support identified IoT/MTC functionalities in 5GC by connecting NB-IoT and LTE-M(eMTC) to 5GC.

- Expected main impacts on RAN WGs
  - Connectivity of NB-IoT and LTE-M(eMTC) to 5GC

※ Impacts on RAN WGs are expected to support Stage 1 requirements identified by SA1 (e.g. TS 22.261) and Stage 2 requirements identified by SA2 (e.g. TR 23.724).

2. SA-led non-RAN impacting focus areas for Rel-16 (1/2)

Enhanced Traffic Handling & Localized Services

- Study items for architecture to cover Enhanced Traffic Handling & Localized Services
  - FS_ATSSS (Study on Access Traffic Steering, Switch and Splitting support in the 5G system architecture)
  - FS_eIMS5G (Study on Enhanced IMS to 5GC Integration)
  - FS_FLADN (Study on supporting Flexible Local Area Data Network) – *Proposal submitted to SA2#127BIS*

- Why this focus area is essential
  - Defining fine-grained traffic handling mechanism for access steering/switch/splitting is important to fully utilize 5GS.
  - Localized routing for IMS traffic needs to be defined.
  - LADN should be enhanced to provide more flexible options for deployments in the operator's 5G business model.

2. SA-led non-RAN impacting focus areas for Rel-16 (2/2)

Enhanced Slicing

- Study items for architecture to cover Enhanced Slicing
  - FS_eNS (Study on Enhancement of Network Slicing)

- Why this focus area is essential
  - It is important to complete missing features not dealt with in Rel-15 and enhance Network Slicing to address Rel-16 Stage 1 requirements.