3GPP TSG RAN Meeting #97-e
Electronic Meeting, September 12 - 16, 2022

RP-222085

FUJITSU

Views on additional WI/SIs for Rel-18

TDoc Type: Discussion

For: Decision

Agenda item: 9

Source: Fujitsu Limited

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Background

- In RAN#96, a lot of new WI/SI and upsocoping proposals were submitted, but not discussed
- It was also pointed out that there might be possibility for the approval of new RAN1-3 WI/SIs plus scope extension at RAN#96
  - It depends on the workload of WGs, possibility of F2F meeting, etc.

In this contribution, we share our views on the potential additional WI/SIs submitted to RAN#96

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Passive IoT/Ambient IoT(RP-221706)

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- **Observation:**
  - We see some use cases for this functionality in 5G-Advanced era
    - Ultra-low power
    - Ultra-low cost
    - no/very small energy storage
  - RAN level study in Rel-18 will help the acceleration of standardization work
    - We believe RAN can accommodate this amount of work
- **Proposal:**
  - Approve RAN level study, which aims at defining KPI and scenarios from RAN perspective

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Integrating sensing and communication(RP-221292)

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- **Observation:**
  - The concept and functionality of ISAC will be more and more important toward 6G era
    - Autonomous optimization of communication considering the surroundings
    - Enjoy the benefit of high frequency (millimeter wave and/or terahertz)
  - Nevertheless, RAN is not ready to start this study:
    - SA discussion is not matured: no urgency to perform the parallel discussion
    - RAN WGs are fully congested, and no room for additional study
    - The priority is not so high considering the global spectrum allocation
- **Proposal:**
  - Consider in future release, e.g. Rel-19

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RRM Measurement Prediction(RP-221278)

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- **Observation:**
  - Mobility is a potential use case for AI
    - This use case has been covered by Rel-18 AI email discussions
  - Mobility enhancements have been drawing a big attention, and a lot of mobility functionalities are specified and waiting for commercialization
    - An additional functionality, i.e. L1/L2 mobility, will be specified in Rel-18
    - AI for NG-RAN SI also covers mobility aspect
  - Considering the high workload, we don’t see any urgency to start the mobility related AI work in Rel-18

- **Proposal:**
  - Consider in future release, e.g. Rel-19

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RRCResumeRequest Protection(RP-221743)

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- **Observation:**
  - Request from SA, and common understanding is that this issue should be solved
  - RAN2 assessments have been finished, and it was found that TEI is not applicable
    - This would be a cross WG project
  - Spec impact and required TU would be sufficiently small

- **Proposal:**
  - Approve RAN2 lead WI

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Further Enh. Private network(RP-221290)

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- **Observation:**
  - We see the benefit of the following scenarios for NPN
    - *Enabling support for idle and connected mode mobility between SNPNs without new network selection*
    - *Support for non-3GPP access for SNPN*
  - To make the NPN functionality more useful, the normative work should be finalized in Rel-18
- **Proposal:**
  - Approve RAN3 lead WI, and the following scope should be included
    - idle and connected mode mobility between SNPNs without new network selection
    - non-3GPP access for SNPN

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Summary of our proposals

- The following items are important in Rel-18, and should be approved at RAN#97e
  - Passive IoT/Ambient IoT(RAN level)
  - RRCResumeRequest Protection (RAN2 lead)
  - Further Enh. Private network (RAN3 lead), at lest with the following scope
    - idle and connected mode mobility between SNPNs without new network selection
    - non-3GPP access for SNPN

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Thank you

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