RP-181980

IIOT Scope

AI 9.3.12

Mediatek Inc

Data Duplication Enhancement

- The potential requirement for higher-than-PDCP duplication seems unclear.
- Multi-connectivity with > 2 Radio Links is not specified yet.
- The usefulness of CA Duplication with > 2 legs (High Freq + Low Freq + ?) seems unclear.
- Network Coding Requires to allow bit-errors and seems to be replacing HARQ, which would require substantial study effort, also in RAN1.

- Mediatek View
  - Do not consider higher-than-PDCP duplication for now.
  - Do not consider PDCP duplication > 2 legs
  - Do not consider Network Coding or other Changes to L1.
  - <u>Proposed objective:</u> Either Nothing or “Enhancements to PDCP duplication activation/deactivation”.
  - Responsible group: RAN2

UL/DL intra-UE prioritization/multiplexing

- Proposed Objective: Enhancements to prioritization between eMBB and URLLC traffic and between grant-free and grant-based Tx.
  - Suggest to not mention explicitly both Data and Control
  - Tentative RAN2 scope: UL enhancements to LCP, LCP restrictions, SR and BSR.
    - Expectation that a number of rejected proposals from Rel-15 will be re-discussed, which is ok
    - Mediatek view: RAN2 scope is ok but it could be made clear that RAN2 focus is UL.
  - Tentative RAN1 scope: DL/UL Enhancements to preemption, scheduling, HARQ?
    - Support of out-of-order scheduling and HARQ feedback is already part of the URLLC SI "Enhancements to scheduling/HARQ/CSI processing timeline".
    - DL Preemption has been discussed previously, but it was agreed to not specify details.
    - If it would anyway be required to L1-prioritize on service beyond what is currently done, and still keep L1 specifications "service-agnostic", potentially cooperation between R1 and R2 would be needed.
    - Mediatek view: We are not sure any R1 scope beyond eURLLC is needed, but if this is the case, the R1 scope need further clarification.

Support for TSN

- Accurate reference timing: Delivery & related process (Proposals include: SIB delivery or RRC delivery to UEs, Multiple Transmission points, …)
  - Mediatek view: OK

- Scheduling enhancements / traffic patterns / QoS for wireless Ethernet, Enhancements to support of cyclic traffic
  - Mediatek view: This Objective should be made more clear, e.g. by referring to known traffic patterns and cyclic traffic, and by clarifying RAN1 vs RAN2 scope.
  - RAN1 Scope: Scheduling enhancements
  - RAN2 Scope: QoS

- Ethernet header compression (with defining new ROHC Profile).
  - Mediatek view: It should be made more clear how the output of the study is expected to be used, in order to make the study result useful.

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