**Rel-19 ProSe**

Sept 25, 2023

Moderator- MediaTek Inc.

**Participating companies**: Asiainfo, AT&T, Charter, China Telecom, CTC, DISH, Ericsson, FirstNet, Google, Huawei, Intel, InterDigital, LG Electronics, MediaTek, MITRE, Matrixx, NICT, NIST, NTT Docomo, Nokia, OPPO, Philips, Qualcomm, Samsung, Siemens, Tencent, Vivo, ZTE.

**Agenda:**

A summary of points discussed:

* **WT#1**: Whether any limitation on number of hops to considered as the default assumption in this WT.

**Summary:**

Two possible directions to reduce the level of complexity discussed: Limiting the number of hops, narrowing down the scope to specific topologies (e.g. Tree-based vs. full mesh subject to clarification). Also there was a suggestion that part of the scope (e.g. for L3) can be tasked to SA6.

**Way Forward (subject to further discussion in the meeting):**

Several companies preferred not to narrow the scope yet until the solutions are discussed and see how they meet the Stage 1 requirements as also commented by public safety sector. WT#1 is kept as it is.

* **WT#3:** 
  + Whether this WT considers single-hop ProSe only or single-hop ProSe + multi-hop ProSe (to be studied in WT#1)
  + Scope versus PIN Rel-18 to be identified.
  + Concerns shared on this WT to be addressed.

**Summary:**

Companies are divided on inclusion of WT#3. Some shared concern seeing no added value, esp. considering R-19 TU budgets. Others think this is a relevant study also in line with what happened during LTE ProSe discussions (e.g. for WLAN).

**Way Forward (subject to further discussion in the meeting):**

For the time-being, WT#3 is kept for further discussion during the meeting. The scope is reduced to L3 Relay only and also assumed no dependency to WT#1 scope.

* **WT#5:**
  + How many paths needs to be considered? only 2?
  + Whether combination of L2 relay and L3 relay needs to be considered? or only the same type relays to be used for multi-path?
  + On applicability of combination of L2+L3 or L3+L3 Relays, more details needed (e.g. applicability to L3 Relay with or w/o N3IWF support).
  + Whether the default assumption for this WT for Remote UE is to have no direct Uu path?

**Summary:**

Different views shared on the number of paths and the right combinations to be considered for Rel-19 study but the majority agreed that the scope should be narrowed down (some combinations would have strong RAN dependency).

**Way Forward (subject to further discussions in the meeting):**

A note is added that the scope is limited to two U2N Relays and combinations limited to L2+L2 (RAN dependency) / L3+L3 (whether L3 with N3IWF to be considered is FFS). Whether to include L2 + L3 is FFS.

* **WT#9:**
  + Whether this WT can be reconsidered in the scope of Rel-19 ProSe based on clarifications received during SA#101.

**Summary:**

Philips/ Siemens provided a brief update on justification on why WT#9 (NPN Enhancements for ProSe) should be included as part of the scope of Rel-19. However, concerns shared by some companies on the scope of the item and gap analysis versus existing features.

**Way Forward (subject to further discussions in the meeting):**

Proponents of WT#9 to bring a discussion paper and suitable wording to narrow-down the scope of WT#9 for further discussion during the meeting.

* **WT#14:**
  + Whether this WT can be reconsidered in the scope of Rel-19 ProSe based on discussions during SA#101 or to be pursued separately (e.g. as a TEI-19 proposal)

**Summary:**

Moderator of TSC/URLLC/TRS enhancements (Huawei) provided a brief summary on sidelink time synchronization draft SID to identify scope versus Rel-19 ProSe and to see whether the item can be re-scoped in Rel-19 ProSe. Some companies think that part of the related SID may have RAN dependency and the rest of WTs may use existing ProSe features (as it is) and this does not require any enhancements in ProSe unless it is further clarified.

**Way Forward (subject to further discussions in the meeting):**

It was decided that the draft SID on sidelink time synchronization to be kept separate from the ProSe until further clarification.

* **TU Budgeting**
  + Impact of scoping based on discussion points as above on TU budget to be considered.
  + TUs to be made more balanced between study and normative phase.

**Summary:**

It was requested that the Normative Work TUs to be increased to be a closer match to study TUs. Moderator commented that we try as much as possible to adhere to Guidelines from Both SA2 and SA leaderships.

**Way Forward (subject to further discussions in the meeting):**

For the time-being it was decided to increase the WT#1 (to 2 TUs) and WT#5 (to 1 TU) for Normative work but to keep WT#3 TUs as before.