**3GPP TSG-RAN WG2 Meeting #125 R2-240xxxx**

**Athens, Greece, Feb 26th - March 1st, 2024**

**Agenda item:** 7.2.3

**Source:** Intel Corporation

**Title:** [POST124][POS] [TS 38.355] Open Issue list

**Document for:**  Discussion and decision

# Introduction

This is to provide the open issue list based on issues received in [Post124][419][POS] TS 38.355 finalisation (Intel).

Rapporteur would like to use the email discussion to collect the RILs from companies on TS 38.355.

Note: We basically follow the ASN.1 review procedure as RRC, e.g. **class type**, etc. The main differences are that companies provide issues in this draft instead of inserting RILs in the specification directly (therefor no check in/out procedure). In addition, companies please use your company name as Company identifiers, e.g. Intel 001, etc.

Rapporteur provided the Rapporteur CR “Miscellaneous corrections to SLPP specification” (based on TS 38.355 v 18.0.0) in the draft folder to correct class 0 issues and also some issues listed in the clause 3. Companies please provide your comments/proposals based on this version.

The deadline for this email discussion is:

* **Feb 2nd 10.00 UTC as target deadline for adding identified issues into this email discussion report.**
* **Feb 09th 10.00 UTC as deadline for companies to provide comments on issue raised in the email discussion.**

#  Contact Information

Respondents to the email discussion are kindly asked to fill in the following table.

|  |  |
| --- | --- |
| Company | Contact: E-mail |
| Intel | Yi.guo@intel.com |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |

# Open issue list

**Companies are invited to provide comments/suggestions on the draft CR “Miscellaneous corrections to SLPP specification” (based on TS 38.355) in the following table.**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Issue** | **Copied existing specification text.****Text should be unique, so that it can be easily found in the specification.****If needed, add also the new text.** | **Comment/description/****Correction/proposal** | **Class** | **Status** | **Comments** |
| Rapp001 | 6.5 SLPP PDU Common Contents | **Issue:** relative location/velocity are missing.Note 0: Issue was raised in previous meeting and concluded to be resolved in maintenance phase based on companies’ contribution.Note 1: Rapporteur did not provide proposal/correction on the issue since it was raised in previous email discussion. For new identified issues raised by companies, please provide proposal/correction together with the issue.  | 2 | ToDo |  |
| Rapp002 | 6 Protocol data units, formats and parameters (ASN.1) | **Issue:**So far, we did not identity the content for some IEs, e.g. commonIEsRequestCapabilities, CommonSL-PRS-MethodsIEsRequestLocationInformation. Further discuss whether these empty IEs should be deleted in maintenance phase.Note 0: Issue was raised by Huawei in previous email discussion and concluded to be resolved in maintenance phase based on companies’ contribution.Note 1: Rapporteur did not provide proposal/correction on the issue since it was raised in previous email discussion. For new identified issues raised by companies, please provide proposal/correction together with the issue. | 2 | ToDo |  |
| Rapp003 | 6.3.1 Common information elements | **Issue:**QC: It seems most elements in this section (apart from the GAD shape, *CommonIEsAbort, CommonIEsError*) are not really "common" (in the strict sense)?I think those should be in *SLPP-PDU-CommonSL-PRS-MethodsContents?*And the "true" common elements in *SLPP-PDU-CommonContents*?Similar to the *Multiplicity and type constraint definitions.* Those seems only applicable to *SLPP-PDU-CommonSL-PRS-MethodsContents.*Rapporteur comments in previous email discussion:*ARFCN-ValueNR used in ScheduledLocationTime which is in SLPP-PDU-CommonContents, and SL-RTD-Info which is used in multiple positioning methods.*LCS-GCS-Translation is used in multiple positioning methods.check whether all elements in this section are really "common" and whether any of them should be in SLPP-PDU-CommonSL-PRS-MethodsContents? And the "true" common elements in SLPP-PDU-CommonContents?Similar to the Multiplicity and type constraint definitions. Those seems only applicable to SLPP-PDU-CommonSL-PRS-MethodsContents.Note 0: Issue was raised by QC in previous email discussion and concluded to be resolved in maintenance phase based on companies’ contribution.Note 1: Rapporteur did not provide proposal/correction on the issue since it was raised in previous email discussion. For new identified issues raised by companies, please provide proposal/correction together with the issue. | 2 | ToDo |  |
| Rapp004 | 6.5 SLPP PDU Common Contents***locationInformationType***This IE indicates whether the server requires a location estimate or measurements. | **Issue:** Only server can trigger the location information transfer procedure?Is this only for the server? E.g., does "ranging" require a server? (seems to imply that any UE which supports e.g., SL-RTT and SL-AoA is a target/anchor/server simultaneously?)Note 0: Issue was raised by QC in previous email discussion and concluded to be resolved in maintenance phase based on companies’ contribution.Note 1: Rapporteur did not provide proposal/correction on the issue since it was raised in previous email discussion. For new identified issues raised by companies, please provide proposal/correction together with the issue. | 1 | ToDo |  |
| Rapp005 | 6.3.1 Common information elementsSL-RTD-Info | **Issue:** ZTE: R1’s parameter list is:

|  |  |  |  |
| --- | --- | --- | --- |
| sync-Info-for-SL-TDOA-TOA | New | Indicates synchronization information of anchor UEs between a UE and LMF or another UE.Synchronization information includes:• The synchronization source type (GNSS, gNB/eNB, and UE) of anchor UEs• The RTD between anchor UEs  | Sync source type: enumerated {GNSS, gNB/eNB, UE}- If the synchronization source of an anchor UE is gNB/eNB, the anchor UE can further provide cell identity informationFor RTD between anchor UEs:- subframeOffset with value range INTEGER (0..1966079)OR sl-OffsetDFN with value range INTEGER (1..1000)- rtdQuality: ref. NR-TimingQuality. |

Each anchor UE should be allowed to report synchronization type, not only reference anchor UE.Rapporteur comments in previous email discussion:Option 1: Current structure is, the RTD from all anchor UEs refers to the same source. Option 2: If my understanding is correct, your suggestion is that the RTD for each anchor UE can refer to different source, i.e. one by one mapping. Considering the information is provided by server, option 1 seems simpler to measured UE?Note 0: Issue was raised by ZTE in previous email discussion and concluded to be resolved in maintenance phase based on companies’ contribution.Note 1: Rapporteur did not provide proposal/correction on the issue since it was raised in previous email discussion. For new identified issues raised by companies, please provide proposal/correction together with the issue. | 2 | ToDo |  |
| Rapp006 | All clauses in the specification | **Corrections:**Remove additional space, use correct format.See the draft CR “Miscellaneous corrections to SLPP specification” | 0 | PropAgree |  |
| Rapp007 | 4.1.4 SLPP Messages5.1.5 Reception of SLPP Request Capabilities5.2.5 Reception of SLPP Request Assistance Data5.3.5 Reception of Request Location Information5.4.3 SLPP Error Detection5.4.4 Reception of an SLPP Error Message5.5.2 Procedures related to Abort5.5.3 Reception of an SLPP Abort Message | **Correction:**Use field name in the procedure part.See the draft CR “Miscellaneous corrections to SLPP specification” | 0 | PropAgree |  |
| Rapp008 | 4.2 Common SLPP Session Procedure | **Correction:**Align the term “session ID” in the specification.See the draft CR “Miscellaneous corrections to SLPP specification” | 0 | PropAgree |  |
| Rapp009 | 6.1 General | **Correction:**Clarify that “In this release of the specification,” upon receiving a message with the field absent, the UE releases the current value.See the draft CR “Miscellaneous corrections to SLPP specification” | 0 | PropAgree |  |
| Rapp010 | 6.2.1 General message structure– SLPP-Message | **Correction:**There is no CP for SLPP.***sequenceNumber***This field may be included when an s*lpp-MessageBody* is included but shall be omitted otherwise. , see the draft CR “Miscellaneous corrections to SLPP specification” .See the draft CR “Miscellaneous corrections to SLPP specification” | 0 | PropAgree |  |
| Rapp011 | 6.3.1 Common information elements– CommonIEsAbort | **Correction:**Change “should be” to “is” to align the wording used in the specification.This IE defines the request to abort an ongoing procedure. The abort cause '*stopPeriodicReporting*' is used by an endpoint to stop any ongoing location reporting configured as *periodicalReporting* in the *CommonIEsRequestLocationInformation*. .See the draft CR “Miscellaneous corrections to SLPP specification” | 0 | PropAgree |  |
| Rapp012 | 6.3.1 Common information elements– CommonIEsError | **Correction:**Change “is” to “are”***errorCause***This IE defines the cause for an error. '*slppMessageHeaderError*' and '*slppMessageBodyError*' are used if a receiver is able to detect a coding error in the SLPP header (i.e., in the common fields) or SLPP message body respectively. '*incorrectDataValue*' is used if a receiver receives an incorrect data value.See the draft CR “Miscellaneous corrections to SLPP specification” | 0 | PropAgree |  |
| Rapp013 | 6.3.1 Common information elements– LCS-GCS-Translation | **Correction:**Remove unnecessary extension markLCS-GCS-Translation ::= SEQUENCE { alpha INTEGER (0..3599), beta INTEGER (0..3599), gamma INTEGER (0..3599)}.See the draft CR “Miscellaneous corrections to SLPP specification” | 2 | PropAgree |  |
| Rapp014 | 6.3.1 Common information elements– PositioningModes | **Correction:**Remove unnecessary extension markPositioningModes ::= SEQUENCE { posModes BIT STRING { ue-based (0), ue-assisted (1) } (SIZE (1..8))}.See the draft CR “Miscellaneous corrections to SLPP specification” | 2 | PropAgree |  |
| Rapp015 | 6.4 Multiplicity and type constraint values | **Correction:**Remove FFS since no comments on this.maxNrOfSLTxUEs INTEGER ::= 256 -- Max Tx UEs per Rx UE.See the draft CR “Miscellaneous corrections to SLPP specification” | 2 | PropAgree |  |
| Rapp016 | 6.5 SLPP PDU Common Contents– CommonIEsRequestLocationInformation | **Correction:**Remove unnecessary extension mark velocityRequest BOOLEAN} confidence INTEGER(0..100)} tenMilliSeconds ENUMERATED { true} OPTIONAL}.See the draft CR “Miscellaneous corrections to SLPP specification” | 2 | PropAgree |  |
| Rapp017 | 6.5 SLPP PDU Common Contents– CommonIEsProvideLocationInformation | **Correction:**Remove unnecessary extension mark ellipsoidArc EllipsoidArc} horizontalWithVerticalVelocityAndUncertainty HorizontalWithVerticalVelocityAndUncertainty} locationfailurecause LocationFailureCause}.See the draft CR “Miscellaneous corrections to SLPP specification” | 2 | PropAgree |  |
| Rapp018 | 6.6 SLPP PDU Common SL-PRS Methods Contents– CommonSL-PRS-MethodsIEsProvideAssistanceData | **Correction:**Remove unnecessary extension mark  arp-LocationInfoList SEQUENCE (SIZE (1..4)) OF ARP-LocationInfoElement}.See the draft CR “Miscellaneous corrections to SLPP specification” | 2 | PropAgree |  |
| Rapp019 | 6.6 SLPP PDU Common SL-PRS Methods Contents– Common-SL-PRS-MethodsIEsProvideLocationInformation | **Correction:**Remove unnecessary extension mark CommonSL-PRS-MethodsIEsProvideLocationInformation ::= SEQUENCE {}.See the draft CR “Miscellaneous corrections to SLPP specification” | 2 | PropAgree |  |
| Rapp020 | 6.9 SLPP PDU SL-TDOA Contents– SL-TDOA-ProvideAssistanceData | **Correction:**Add extension mark SL-TDOA-ProvideAssistanceData ::= SEQUENCE { sl-PositionCalculationAssistanceTDOA SL-PositionCalculationAssistanceTDOA OPTIONAL, ...}SL-PositionCalculationAssistanceTDOA ::= SEQUENCE { sl-RTD-Info SL-RTD-Info OPTIONAL, ...}.See the draft CR “Miscellaneous corrections to SLPP specification” | 2 | PropAgree |  |
| Rapp021 | 6.10 SLPP PDU SL-TOA Contents– SL-TOA-ProvideAssistanceData | **Correction:**Add extension mark SL-TOA-ProvideAssistanceData ::= SEQUENCE { sl-PositionCalculationAssistanceTOA SL-PositionCalculationAssistanceTOA OPTIONAL, ...}SL-PositionCalculationAssistanceTOA ::= SEQUENCE { sl-RTD-Info SL-RTD-Info OPTIONAL, ...}.See the draft CR “Miscellaneous corrections to SLPP specification” | 2 | PropAgree |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |

# Summary

Based on the input from companies, we have the following proposals: