**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.

|  |  |
| --- | --- |
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# 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 elements  SL-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 information  For 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 Messages  5.1.5 Reception of SLPP Request Capabilities  5.2.5 Reception of SLPP Request Assistance Data  5.3.5 Reception of Request Location Information  5.4.3 SLPP Error Detection  5.4.4 Reception of an SLPP Error Message  5.5.2 Procedures related to Abort  5.5.3 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 mark  LCS-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 mark  PositioningModes ::= 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 |  |
| H001 | 4.1.1 SLPP Configuration SLPP is used point-to-point between Endpoints, e.g. server and target in order to obtain absolute position, relative position, or ranging information of target UE using sidelink measurements obtained by one or more reference sources. Figure 4.1.1-1 shows the configuration as applied to the sidelink positioning (as defined in TS 38.305 [3] and TS 23.273 [5]).    Figure 4.1.1-1: SLPP Configuration for sidelink positioning | According to the figure, SLPP can only be transferred between the server and the target/reference sources (anchor UE?). But it is also possible that SLPP messages are transferred between the target and anchor UEs.  **Should revise the figure to support all scenarios.** | 1 |  |  |
| H002 | 4.1.2 SLPP Sessions and Transactions An SLPP session is used between UEs or a Location Server and a UE in order to obtain location related measurements based on NR PC5 radio signals, a location estimate or to transfer assistance data. A single SLPP session is used to support a single location request (e.g., for a single SL-MT-LR, or SL-MO-LR). Multiple SLPP sessions can be used between the same endpoints to support multiple different location requests (as required by TS 23.273 [5]). For UE-only Operation, the instigator of an SLPP session which is the Endpoint who receives the LCS request, initiates an SLPP session by sending an SLPP message containing an assigned session ID (session identifier) to the other endpoint (s). All constituent messages within a session shall contain the same session ID. For LMF involved Operation, the session ID is assigned by target UE and contained in the SLPP messages used for communication between UEs. The session ID may be included in the SLPP message for the communication between target UE and the LMF. | Better to be captured in the field description of session ID. Propose to remove the description here and move it to the description of session ID | 1 |  |  |
| H003 | 4.3 SLPP Transport4.3.1 Transport Layer Requirements SLPP requires reliable, in-sequence delivery of SLPP messages from the underlying transport layers. This clause describes the transport capabilities that are available within SLPP. A UE implementing SLPP shall support SLPP reliable transport (including all three of duplicate detection, acknowledgement, and retransmission). | Should also clarify on the cast type that only unicast is supported in this release.  add clarification that in this release, only transport by unicast is supported as the WID indicates | 1 |  |  |
| H004 | 4.3.3.1 General Each SLPP message may carry an acknowledgement request and/or an acknowledgement indicator. A SLPP message including an acknowledgement request (i.e., that include the IE *ackRequested* set to TRUE) shall also include a sequence number. Upon reception of an SLPP message which includes the IE *ackRequested* set to TRUE, a receiver returns an SLPP message with an acknowledgement response (i.e., that includes the *ackIndicator* IE set to the same sequence number of the message being acknowledged). An acknowledgement response may contain no SLPP message body (in which case only the sequence number being acknowledged is significant); alternatively, the acknowledgement may be sent in an SLPP message along with an SLPP message body. An acknowledgement is returned for each received SLPP message that requested an acknowledgement including any duplicate(s). Once a sender receives an acknowledgement for an SLPP message, and provided any included sequence number is matching, it is permitted to send the next SLPP message. No message reordering is needed at the receiver since this stop-and-wait method of sending ensures that messages normally arrive in the correct order.  When an SLPP message is transported via a NAS SL-MO-LR request, the message does not request an acknowledgement. | **We would like to understand what SLPP message are included in SL-MO-LR and what are their purposes, although we understand that according to the current CT4 stage3 spec, SLPP message indeed can be included in the SL-MO-LR message.** | 1 |  |  |
| H005 | 5.3.5 Reception of Request Location Information Upon receiving a *RequestLocationInformation* message, Endpoint A shall:  1> if the requested information is compatible with Endpoint A’s capabilities and configuration:  2> include the requested information in a *ProvideLocationInformation* message;  2> set the IE *SessionID* in the response message to the same value as the IE *SessionID* in the received message if received;  2> set the IE *SLPP-TransactionID* in the response to the same value as the IE *SLPP-TransactionID* in the received message;  2> deliver the *ProvideLocationInformation* message to lower layers for transmission.  1> otherwise:  2> if one or more positioning methods are included that Endpoint A does not support:  3> continue to process the message as if it contained only information for the supported positioning methods;  3> handle the signaling content of the unsupported positioning methods by SLPP error detection as in 5.4.3. | merge the current 1> and 2> conditions into “else if xxxx” Change the 3> level to 2> level | 0 |  |  |
| H006 | 6 Protocol data units, formats and parameters (ASN.1)6.1 General The contents of each SLPP message is specified in clause 6.2 using ASN.1 to specify the message syntax and using tables when needed to provide further detailed information about the fields specified in the message syntax. The syntax of the information elements that are defined as stand-alone abstract types is further specified in a similar manner in clause 6.3.  The ASN.1 in this clause uses the same format and coding conventions as described in Annex A of TS 38.331 [2]. Upon receiving a message with the field absent, the UE releases the current value. | This sentence should only be applicable for assistance data message. Should Clarify that it is only applicable for the fields within ProvideAsssistanceData SLPP message | 1 |  |  |
| H007 | – *PositioningModes* The IE *PositioningModes* is used to indicate several positioning modes using a bit map.  -- ASN1START  -- TAG-POSITIONINGMODES-START  PositioningModes ::= SEQUENCE {  posModes BIT STRING { ue-based (0), ue-assisted (1) } (SIZE (1..8)),  ...  } | Need to be aligned with the 38305 description to differentiate between different types of UE based: include SL-target UE-based and SL-server UE-based. See table 4.3.1-2. define 3 capabilities: SL-target UE-based, SL-server UE-based, ue-assisted |  |  |  |
| H008 | SL-RTD-Info ::= SEQUENCE {  referenceRTD-Info ReferenceRTD-Info,  rtd-InfoList RTD-InfoList  } | **referecenRTD-Info can be optional** |  |  |  |
| H009 | ReferenceRTD-Info ::= SEQUENCE {  syncSourceType ENUMERATED { gnss, gNB-eNB, ue},  applicationLayerID OCTET STRING OPTIONAL,  nrCell-Identify SEQUENCE {  nr-PhysCellID NR-PhysCellID,  nr-ARFCN ARFCN-ValueNR,  nr-CellGlobalID NCGI OPTIONAL  } OPTIONAL  } | **Should clarify that the field is only present when the syncsourceType is set to gNB-eNB**  **Also, if the type can be eNB, then the lte-ARFCN and cell ID should be added??**  **Also, NCGI and PCI/ARFCN do not need to be present at the same time. So, all the three fields should be optional.** |  |  |  |
| H010 | RTD-InfoListPerTxUE ::= SEQUENCE {  applicationLayerID OCTET STRING,  rtdBetweenAnchorUEs CHOICE {  subframeOffset INTEGER (0..1966079),  sl-OffsetDFN INTEGER (0..1000)  },  rtd-Quality SL-TimingQuality  } | Should clarify what the values indicate. Add field description. |  |  |  |
| H011 | CommonIEsRequestLocationInformation ::= SEQUENCE {  locationInformationType LocationInformationType,  periodicalReporting PeriodicalReportingCriteria OPTIONAL,  additionalInformation AdditionalInformation OPTIONAL,  qos QoS OPTIONAL,  environment Environment OPTIONAL,  scheduledLocationTime ScheduledLocationTime OPTIONAL,  ... | In LPP, QoS can be transferred from LMF to the UE in RequestLocationRequest message. The legacy is reused for SLPP in the spec. But QoS for SLP also includes priority level and delay budget.  23.586:  Ranging/SL Positioning QoS information contains attributes defined in clause 4.1b of TS 23.273 [8] with the following additions:  - The accuracy attribute also includes  - the relative horizontal accuracy, and the relative vertical accuracy for relative positioning;  - the distance accuracy and direction accuracy for Ranging.  - Range, which indicates the applicability of the QoS attributes in the Ranging/SL Positioning operation over PC5.  - Priority level.  - Delay Budget.  Should consider how to deliver the priority level and delay budget to the UE, can take the QoS handling in SL communication/relay as a reference |  |  |  |
| H012 | ScheduledLocationTime ::= SEQUENCE {  utc-Time UTCTime OPTIONAL,  gnss-Time SEQUENCE {  gnss-TOD-Msec INTEGER (0..3599999),  gnss-TimeID GNSS-ID  } OPTIONAL,  nr-Time SEQUENCE {  nr-PhysCellID NR-PhysCellID,  nr-ARFCN ARFCN-ValueNR,  nr-CellGlobalID NCGI OPTIONAL,  nr-SFN INTEGER (0..1023),  nr-Slot CHOICE {  scs15 INTEGER (0..9),  scs30 INTEGER (0..19),  scs60 INTEGER (0..39),  scs120 INTEGER (0..79)  } OPTIONAL  } OPTIONAL,  relativeTime INTEGER (1..1024) OPTIONAL  } | **Scheduled location time can also be based on DFN. Should add DFN time and sync source as one possible time indicating the scheduled location time** |  |  |  |
| H014 | Azimuth ::= SEQUENCE {  azimuthResult INTEGER (0..89),  uncertainty INTEGER (0..127),  confidence INTEGER (0..100) OPTIONAL  } | according to clause 5.10 of TS 23.032-i10, a degree range of 0-90 should be not adequate. change the value range to 0-360. |  |  |  |
| H015 | SL-PRS-AssistanceData ::= SEQUENCE {  applicationLayerID OCTET STRING,  sl-PRS-SequenceID INTEGER(0..4095) OPTIONAL, -- SL PRS sequence generation, from server to Tx UE  sl-POS-ARP-ID-Tx INTEGER (1..4) OPTIONAL, -- sl-pos-arpID-Tx  sl-PRS-ResourceId INTEGER (0..16) OPTIONAL, -- sl-PRS-ResourceId  tx-TimeStamp SL-TimeStamp OPTIONAL, -- Tx TimeStamp  ... | Since each UE may have multiple ARP ID, the association information can be a list. Should change the association information to a list.  Agreement  For location calculation, the ARP ID of SL PRS transmission can be informed to another UE or LMF by Tx UE informing the association between ARP ID and the already transmitted SL PRS resource(s) as assistance data.  Agreement  Regarding the association information report between ARP ID and the already transmited SL PRS resource(s):  • The association information includes {ARP ID, Tx time stamp, SL PRS resource ID (optional)}. |  |  |  |
| H016 | *– SL-AoA-ProvideCapabilities* The IE *SL-AOA-ProvideCapabilities* is used to indicate the support of SL-AOA and to provide SL-AOA positioning capabilities.  -- ASN1START  -- TAG-SL-AOA-PROVIDECAPABILITIES-START  SL-AoA-ProvideCapabilities ::= SEQUENCE {  applicationLayerID OCTET STRING,  positioningModes PositioningModes,  tenMsUnitResponseTime PositioningModes OPTIONAL,  periodicalReporting PositioningModes OPTIONAL,  ...  } | Application ID at least should be optional when the transfer is between two UEs.  Should find justification whether it is needed in the SLPP between UE and LMF. If it is not needed, the application ID here should be removed. |  |  |  |
| H017 | ***sl-PRS-ResourceId*** This field specifies the PRS resourde ID used for SL positioning measurements. | Typo |  |  |  |
| H018 | SL-RTT-MeasElement ::= SEQUENCE {  applicationLayerID OCTET STRING,  los-NLOS-Indicator LOS-NLOS-Indicator OPTIONAL, -- sl-losNlosIndicator  sl-POS-ARP-ID-Rx INTEGER (1..4) OPTIONAL, -- sl-pos-arpID-Rx  sl-PRS-ResourceId INTEGER (0..16) OPTIONAL, -- sl-PRS-ResourceId  sl-PRS-RxTxTimeDiffFirstPathResult CHOICE {  k0 INTEGER (0..1970049),  k1 INTEGER (0..985025),  k2 INTEGER (0..492513),  k3 INTEGER (0..246257),  k4 INTEGER (0..123129),  k5 INTEGER (0..61565)  } OPTIONAL, -- sl-PRS-RxTxTimeDiff  sl-PRS-RSRP-Result INTEGER (0..126) OPTIONAL, -- sl-PRS-RSRP  sl-PRS-FirstPathRSRPP-Result INTEGER (0..126) OPTIONAL, -- sl-PRS-RSRPP  sl-RTT-AdditionalPathList SL-RTT-AdditionalPathList OPTIONAL,  sl-TimeStamp SL-TimeStamp OPTIONAL, -- sl-Timestamp  sl-TimingQuality SL-TimingQuality OPTIONAL, -- sl-TimingQuality  tx-TimeInfo SL-TimeStamp OPTIONAL, -- tx-Time-Info  ...  } | Field description is missing in this section. References should be added for measurement results, ie, mapping from the code points to meas results in RAN4 spec. |  |  |  |
| H019 | *– SL-TDOA-ProvideAssistanceData* -- ASN1START  -- TAG-SL-TDOA-PROVIDEASSISTANCEDATA-START  SL-TDOA-ProvideAssistanceData ::= SEQUENCE {  sl-PositionCalculationAssistanceTDOA SL-PositionCalculationAssistanceTDOA OPTIONAL  }  SL-PositionCalculationAssistanceTDOA ::= SEQUENCE {  sl-RTD-Info SL-RTD-Info OPTIONAL  }  -- TAG-SL-TDOA-PROVIDEASSISTANCEDATA-STOP  -- ASN1STOP | Should also include absolute location?? |  |  |  |
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# Summary

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