# Guidelines for Rel-18 37.355 ASN.1 review

## 1. General

We will use this FTP folder to store the review file:

<https://www.3gpp.org/ftp/Email_Discussions/RAN2/%5BMisc%5D/ASN1%20review/TS%2037355%202024-03>

The review will be run by companies inserting their review comments directly into the TS 37.355 Review file:

- Companies may insert new RILs for identified issues/problems.

- Companies may insert comments on existing RILs, e.g. to indicate alternative solutions.

Each WI LPP CR rapporteur/editor is expected to provide a "WI CR" with corrections for the RILs related to the WI (see WI list in section 9 below). Companies that identified RILs are encouraged to cooperate offline with the WI LPP CR rapporteur.

WI CR editors are expected to monitor the review file for RILs of the respective WI.

## 2. RIL template

RILs shall be inserted into the Review file following this layout:

**[RIL]**: Xxyz **[Delegate]**: <Company name (Delegate name)> **[WI]**: **[Class]**: **[Status]**: ToDo **[TDoc]**: None

**[Proposed Conclusion]**:

**[Description]**:

**[Proposed Change]**:

**[Comments]**:

We will use the Word macro named "RILAddComment" which can be found here:

[https://www.3gpp.org/ftp/Email\_Discussions/RAN2/[Misc]/ASN1%20review/](https://www.3gpp.org/ftp/Email_Discussions/RAN2/%5bMisc%5d/ASN1%20review/) in file "RIL-Macro and instructions.docx".

We will NOT use the Word comment features "Reply" or "Resolve" in this review activity.

The macro creates a Word Comment with different fields to be filled in as follows:

**[RIL]**: Number allocated by the company, **one letter + 3 digits**, e.g., R007.

Ensure the number is unique for the company.  
See company codes in section 8 below.

**[Delegate]**: This field is automatically filled in by the macro to the User setting. Shall be set to <Company name (Delegate name)> (to e.g. allow easy trace responsible Delegate).  
  
**[WI]**: See WI codes in section 9 below.

**[Class]**: Shall be set by the delegate to value 1 or 2.

1. **Editorial;** e.g. typos, commas, colon, missing/double spaces, italics etc.   
   See procedure for Class 0 issues in section 6 below.
2. **Issues not affecting LPP PDU decoding;** e.g. incorrect/incomplete/missing field description; missing need codes; incorrect/incomplete/missing conditional statements, etc. Including any issues with clauses 1-5, and 7.
3. **Issues affecting LPP PDU decoding;** e.g. missing/wrong optional statement, extensibility issues, wrong structure of a field/IE, etc.   
     
   NOTE: LPP "normally" follows the ASN.1 guidelines in Annex A of 36.331. Please try to be consistent with existing LPP specification text as far as possible.

**[Status]**: ToDo <only changed by the Rapporteur> later to reflect the status (see section 7).

**[TDoc]**: Add Tdoc number (or just “R2-22xxxxx” if no tdoc is allocated yet) if the issue needs to be described and the solution is or will be proposed in a separate Tdoc. See section 4 below.

**[Proposed Conclusion]**: Only used and changed by the Rapporteur later.

**[Description]**: Describe the issue in one line (like a "title").

**[Proposed Change]**: Describe the problem and solution.   
Other company may add alternative solution (preceded by company identifier, i.e., [Qualcomm]). Do not modify text entered by other companies!

**[Comments]**: Comments added by other companies (preceded by company identifier, i.e., [Qualcomm]). Do not modify text entered by other companies!

## 3. Check out/in ASN.1 Review file

The following steps need to be followed:

(1) Create a check-out file

a. Name the file "vX IS LOCKED for editing.txt", where X is the highest version of the Review file stored in the FTP folder. E.g. "v006 IS LOCKED for editing.txt"

b. Insert your name and email i.e. <Delegate name (Delegate email)>, as only content in the file.

(2) Upload this checkout file to the FTP folder.

a. If your checkout file was successfully uploaded, you have now checked out the review file.

(3) Download the Review file vX locally to your disc and step the version of the review file from vX to v(X+1), e.g. "37355\_Rel18\_ASN1\_Review\_v007"

(4) Insert your RILs and RIL comments into the review file.

a. Ensure to have Tracked Changes "OFF" when adding/modifying RILs in the Review file.

(5) Upload the updated Review file to the FTP folder.

a. By this, you now allow others to check-out the Review file.

(6) Send a "check in" email on RAN2 reflector.

a. Use this text in the Subject field of the email:

[R18 LPP ASN1] LPP Review file Check-in

b. In the body of the email, indicate the ASN.1 review file name and new version of the file you have uploaded.

c. List the added and commented RILs in the body of the email.

i. Added RILs: Qxx1, Qxx2 etc

ii. Commented RILs: Yxx1, Zxx1 etc

NOTE: For this process to work effectively you should not have the file checked out for more than ~1 hour (implying you must do the review work and prepare the RILs "offline", before checking out the Review file for editing).

## 4. For issues that need a separate Tdoc

Most issues raised in the RIL are expected to be handled/implemented in the respective WI Rapporteur/Editor CR by the individual WI/CR Editors for each WI (see section 9 for the WIs).

- The RIL Source Company may indicate in the RIL that a separate Tdoc is needed by filling in the [TDoc] field as described in section 2 above. This should only be needed for complicated issues, e.g., where more than one solution is possible and/or solution is not obvious.

- You can store a draft version of the tdoc in the \Tdocs subfolder in the FTP review folder.

- Create a sub-folder under the \Tdocs folder named by the RIL issue (e.g. [Q123]) and store a draft tdoc there.

- When submitting a tdoc related to a RIL, please be sure to include the RIL number(s) in the tdoc title, e.g. "[Q123] Feature X correction".

- Companies are encouraged to provide early drafts with TPs on solutions, so that other companies can check whether the solution is agreeable.

- NOTE: The WI CR Rapporteur/Editor may still include a proposed solution in the WI Rapporteur/Editor CR even for issues with a separate tdoc. WI Rapporteur/Editor CR is then expected to work with the RIL Source Company offline.

## 5. Some general advice

- Ensure to have tracked changes "OFF" when adding/modifying RILs in the ASN.1 Review file.

- Before adding a new issue, please read the existing comments in that part of the spec to avoid creating a duplicate. You may respond to an existing comment to add your company view.

- With the Word comment, do not mark/select several words or bigger chunks of text. Only put down the insertion point.

- Do not use Word comment features "Reply" or "Resolve".

## 6. Class 0 issues

Class 0 issues can be sent directly to the Rapporteur via email: [sfischer@qti.qualcomm.com](mailto:sfischer@qti.qualcomm.com).

Rapporteur will compile all received Class 0 issues and include them in a LPP Editorial CR for RAN2#125.

## 7. RIL [Status] Update

At the end of the review phase focused on introducing RILs, Rapporteur will work with the WI CR Rapporteurs/Editors and update the Status field (currently set to "ToDo"), as follows:

a. PropAgree, for RILs where the proposed solution is implemented in the WI Rapporteur CR

b. PropReject, for RILs where the WI CR Rapporteur rejects the proposal made in the RIL

c. Remaining RILs are left as ToDo. They are typically expected to be covered in specific tdoc as indicated in the RIL and be handled in the WI session at the RAN2 meeting.

## 8. Company Identifiers

The following 1-letter identifiers were used by companies in the Rel-17 review (to form the RIL issue number).

Other companies wishing to participate in the review can send an email to [sfischer@qti.qualcomm.com](mailto:sfischer@qti.qualcomm.com) to reserve their letter.

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| --- | --- |
| ID | Company |
| A | Apple |
| B | Lenovo |
| C | CATT |
| D | DOCOMO |
| E | Ericsson |
| F | Fujitsu |
| G | Google |
| H | Huawei |
| I | Intel |
| J | Sharp |
| L | LGE |
| M | Mediatek |
| N | Nokia |
| O | OPPO |
| Q | Qualcomm |
| R | Rapporteur |
| S | Samsung |
| T | Microelectronics Technology Inc. |
| Z | ZTE |
| V | vivo |
| W | Swift Navigation |
| X | Xiaomi |
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## 9. WI Identifiers

NOTE: The Source Company is expected to draft the WI specific CR according to the RIL comments.

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| --- | --- | --- | --- | --- |
| WI Code used in the RIL | WI | WI CR | CR Tdoc | Source |
| GEN | Used for general issues not related to any of the WIs below. | | | |
| 1symbolPRS | TEI18 | Introduction of 1-symbol PRS in 37.355[1symbol\_PRS] | R2-2312446 | ZTE Corporation |
| L2RemoteUE | TEI18 | Support positioning of L2 UE-to-network remote UEs [PosL2RemoteUE] | R2-2313814 | MediaTek Inc., et al. |
| GNSS-LOS/NLOS | TEI18 | GNSS LOS/NLOS assistance information [GNSS LOS/NLOS] | R2-2313815 | Vodafone, et al. |
| LocalCoords | TEI18 | Support of Local Cartesian Coordinates in LPP [PosLocalCoords] | R2-2312808 | Qualcomm Incorporated |
| GNSS-PCV | TEI18 | SSR Satellite PCV Residuals [Rel18PCV] | R2-2313061 | Swift Navigation, et al. |
| BT-AoA-AoD | TEI18 | Bluetooth AoA/AoD support [BT-AoA-AoD] | R2-2313859 | Ericsson |
| NR-Pos | NR\_pos\_enh2 | Introduction of Expanded and improved NR positioning | R2-2314032 | CATT |
| NTN | NR\_NTN\_enh-Core | Introduction of network verification of UE location in TS 37.355 | R2-2313777 | CATT |