# Guidelines for Rel-19 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%202025-09>

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 specific CR" with corrections for the RILs related to the WI (see WI list in section 9 below).

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 WI CR Rapporteur> later to reflect the status (see section 7).

**[TDoc]**: Add Tdoc number (or just “R2-25xxxxx” 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 WI CR 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\_Rel-19\_ReviewFile\_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.

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.

## 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 will be collected in the file **LPP\_Rel-19\_Editorials\_vXYZ** located in

<https://www.3gpp.org/ftp/Email_Discussions/RAN2/%5BMisc%5D/ASN1%20review/TS%2037355%202025-09/Class%200%20issues>

using the following procedure:

To avoid parallel editing of this file, the same check-out/check-in mechanism as above is used.   
The following steps need to be followed:

1. **Create** a check-out file
   1. Name the file “vX IS LOCKED for editing.txt”, where X is the highest version of the Editorials file stored in the FTP folder. E.g. “v006 IS LOCKED for editing.txt”
   2. 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.
   1. If your checkout file was successfully uploaded, you have now checked out the Editorials file.
3. **Download** the Editorials file vX locally to your disc and step the version of the Editorials file from vX to v(X+1).
4. **Insert** your draft changes into the Editorials file.
5. **Upload** the updated Editorials file to the FTP folder.
   1. By this, you now allow others to check-out the Editorials file.

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).

## 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-18 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.

|  |  |
| --- | --- |
| 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. |
| V | vivo |
| W | Swift Navigation |
| X | Xiaomi |
| Z | ZTE |

## 9. WI Identifiers

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

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 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. | | | Qualcomm Incorporated |
| AIML | NR\_AIML\_air-Core | Introduction of AI/ML Positioning Accuracy Enhancements | R2-2506584 | Qualcomm Incorporated |
| NavIC-L1 | LCS\_NAVIC\_L1\_SPS\_NR\_LTE-Core | Introduction of NavIC L1 SPS A-GNSS in LPP | R2-2506430 | Ericsson |
| BDS-B2b | LCS\_BDS\_B2b\_LTE\_NR | Introduction of B2b signal in BDS system in A-GNSS | R2-2505094 | CATT |
| SRS-FH | TEI19 [Pos\_SRSHop] | Introduction of UE capability for SRS frequency hopping for non-RedCap UE in 37355 | R2-2506320 | ZTE |
| IntegerAmbiguity | TEI19 [GNSS-EqualIntegerAmbiguity] | UE request for equalIntegerAmbiguityLevel assistance data | R2-2506318 | Ericsson |
| IntegrityPeriodicAD | TEI19 [IntegrityPeriodicAD] | Introduction of periodic AD for NR integrity service alert | R2-2506477 | Huawei |