**3GPP TSG-RAN WG2 Meeting #123 *R2-23xxxxx***

**Toulouse, France, August 21 – 25, 2023**

**Agenda item:** 7.24.2

**Source:** Swift Navigation (Moderator)

**Title:** [Post123][405][POS] CRs on PCV residuals (Swift)

**Document for:**  Discussion, Agreement

# 1. Introduction

* [Post123][405][POS] CRs on PCV residuals (Swift)

Scope: Update the CRs in R2-2309112 / R2-2309113 / R2-2309114 / R2-2309115 / R2-2309116 in accordance with received comments.

Intended outcome: AIP CRs

Deadline: Short2 (not for RP) Friday 8th September 1000 UTC

The final deadline for comment is **Friday 8th September 2023, 1000 UTC**.

# 2. Discussion

The draft CRs for the Satellite PCV Residuals have been updated following the offline comments received at RAN2#123. They are uploaded here: <https://www.3gpp.org/ftp/Email_Discussions/RAN2/%5BRAN2%23123%5D/%5BPost123%5D%5B405%5D%5BPOS%5D%20CRs%20on%20PCV%20residuals%20(Swift)>

**Question 1: Any additional comments or suggested edits to the draft CRs? If so, please detail in the table below.**

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| **Company** | **Comments** |
| Intel | LPP CR  *posSibType2-26 i is not in change mark;*  38.331 CR  ,... for both parts is not needed, shall be deleted; |
| Lenovo | 1. All CRs: in “Summary of change” the below sentence can be removed since they are R18 CRs.   “There are no inter-operability issues.”   1. 37.355 CR:  * Clause 6.5.2.3, IE GNSS-CommonAssistDataReq: “OPTIONAL” is missing for the new element, see below.   [[  gnss-SSR-IOD-UpdateReq-r18 GNSS-SSR-IOD-UpdateReq-r18 OPTIONAL -- Cond IODUpdateReq  ]]   * Clause 6.5.2.3, IE GNSS-PeriodicAssistDataReq: shouldn’t the suffix “Req” be added in the field name gnss-SSR-IOD-Update, see below?   [[  gnss-SSR-IOD-UpdateReq-r18 GNSS-SSR-IOD-Update-r18 OPTIONAL -- Cond pPCV  ]]  }   * Clause 6.5.2.10: To be consistent with the naming used in IE GNSS-GenericAssistanceDataSupport the dash in the IE name should be removed.   – *GNSS-SSR-SatellitePCVResiduals-Support*  -- ASN1START  GNSS-SSR-SatellitePCVResiduals-Support-r18 ::= SEQUENCE {  ...  }  -- ASN1STOP   1. 36.331 CR:  * Cover page: RAN box should be ticked and CN box should be unticked; in “Reason for change” the referenced LPP CR R2-2309114 needs to be replaced by the final version.  1. 38.331 CR:  * Cover page: RAN box should be ticked and CN box should be unticked; in “Reason for change” the referenced LPP CR R2-2309114 needs to be replaced by the final version; in “Clauses affected” the clause “6.3.2” should be added. * In posSibType-r17: add suffix “-v1800” to the new values “posSibType1-11”, “posSibType2-26”. |
| Qualcomm | 36.305/38.305:  The abbreviations IOD, PCV, PCO, APC are now used at multiple places. It may make sense to add them to section 3.2 as well.  37.355:  *GNSS-PeriodicAssistData / GNSS-PeriodicAssistDataReq*  The *IOD-Update* should not be needed periodically. E.g., we also do not provide ephemeris or almanac periodically. In any case, the ASN.1 is wrong since this IE negotiates the *GNSS-PeriodicControlParam-r15* (see LPP section 5.2.1) (and *GNSS-PeriodicAssistDataReq-r15* in IE *A-GNSS-RequestAssistanceData)*.  *GNSS-SSR-IOD-Update*  Editorial: The IE/field names in the introductory text should be in Italic font (i.e., GNSS-SSR-IOD-Update, iod-ssr). |
| Swift Navigation | Thanks for all the editorial help.  We kept *IOD-Update* in *GNSS-PeriodicAssistData* for now (but corrected the ASN.1). The purpose of *IOD-Update* is to allow the device to periodically check if an update is needed without needing to download new PCV information each time. If a new update is needed (as determined by the *IOD-*Update), the device can request new PCV information, similar to how the *iod* under *GNSS-SSR-OrbitCorrections* can be checked to compare if new ephemeris data is needed. |
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# 3. Conclusions

Proposal 1: TBC