**3GPP TSG-SA WG2 Meeting #154AH-E (e-meeting)S2-2301772**

**January 16 – 20, 2023, Elbonia (revision of S2-2301305)**

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| *CR-Form-v12.2* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
|  | | | | | | | | |
|  | **23.256** | **CR** | **0077** | **rev** | **1** | **Current version:** | **17.5.0** |  |
|  | | | | | | | | |
| *For* [***HE******LP***](http://www.3gpp.org/3G_Specs/CRs.htm#_blank)*on using this form: comprehensive instructions can be found at* [*http://www.3gpp.org/Change-Requests*](http://www.3gpp.org/Change-Requests)*.* | | | | | | | | |
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| ***Proposed change affects:*** | UICC apps |  | ME | **x** | Radio Access Network | **x** | Core Network |  |

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| ***Title:*** | Architectural enhancements for support of Broadcast Remote ID | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Source to WG:*** | Qualcomm Incorporated | | | | | | | | | |
| ***Source to TSG:*** | SA2 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | UAS\_Ph2 | | | | |  | ***Date:*** | | | 2023-01-03 |
|  |  | | | |  | |  | | |  |
| ***Category:*** | **B** |  | | | | | ***Release:*** | | | Rel-18 |
|  | *Use one of the following categories:* ***F*** *(correction)* ***A*** *(mirror corresponding to a change in an earlier release)* ***B*** *(addition of feature),* ***C*** *(functional modification of feature)* ***D*** *(editorial modification)*  Detailed explanations of the above categories can be found in 3GPP [TR 21.900](http://www.3gpp.org/ftp/Specs/html-info/21900.htm). | | | | | | | | *Use one of the following releases: Rel-8 (Release 8) Rel-9 (Release 9) Rel-10 (Release 10) Rel-11 (Release 11) … Rel-16 (Release 16) Rel-17 (Release 17) Rel-18 (Release 18) Rel-19 (Release 19)* | |
|  |  | | | | | | | | | |
| ***Reason for change:*** | | TR 23.700-58 concludes on the use of PC5 for support of Broadcast Remote ID:   * a mechanism based on PC5 leveraging U2X (UAV-to-everything) as described by the architectural enhancements identified in solution #5, applicable to both UAV UE that registers to the MNO network, and to UAVs that operate out of coverage | | | | | | | | |
|  | |  | | | | | | | | |
| ***Summary of change:*** | | The CR introduces section 5.X describing the use of PC5 broadcast communication mode of TS 23.287 for Broadcast Remote ID. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Consequences if not approved:*** | | TR conclusions are not implemented. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Clauses affected:*** | | 2, 5.X | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **Y** | **N** |  | | | |  | | |
| ***Other specs*** | |  | **x** | Other core specifications | | | | TS/TR ... CR ... | | |
| ***affected:*** | |  | **x** | Test specifications | | | | TS/TR ... CR ... | | |
| ***(show related CRs)*** | |  | **x** | O&M Specifications | | | | TS/TR ... CR ... | | |
|  | |  | | | | | | | | |
| ***Other comments:*** | |  | | | | | | | | |
|  | |  | | | | | | | | |
| ***This CR's revision history:*** | |  | | | | | | | | |

\* \* \* \* Start of 1st Change \* \* \* \*

# References

The following documents contain provisions which, through reference in this text, constitute provisions of the present document.

- References are either specific (identified by date of publication, edition number, version number, etc.) or non‑specific.

- For a specific reference, subsequent revisions do not apply.

- For a non-specific reference, the latest version applies. In the case of a reference to a 3GPP document (including a GSM document), a non-specific reference implicitly refers to the latest version of that document *in the same Release as the present document*.

[1] 3GPP TR 21.905: "Vocabulary for 3GPP Specifications".

[2] 3GPP TS 23.501: "System architecture for the 5G System (5GS)".

[3] 3GPP TS 23.502: "Procedures for the 5G System (5GS)".

[4] 3GPP TS 23.222: "Common API Framework for 3GPP Northbound APIs".

[5] 3GPP TS 22.125: "Unmanned Aerial System (UAS) support in 3GPP".

[6] 3GPP TS 23.401: "General Packet Radio Service (GPRS) enhancements for Evolved Universal Terrestrial Radio Access Network (E-UTRAN) access".

[7] 3GPP TS 36.300: "Evolved Universal Terrestrial Radio Access (E-UTRA) and Evolved Universal Terrestrial Radio Access Network (E-UTRAN); Overall description; Stage 2".

[8] 3GPP TS 23.273: "5G System (5GS) Location Services (LCS); Stage 2".

[9] 3GPP TS 23.503: "Policy and charging control framework for the 5G System (5GS); Stage 2".

[10] 3GPP TS 33.256: "Security aspects of Uncrewed Aerial Systems (UAS)".

[X] ASTM F3411.19: "Standard Specification for Remote ID and Tracking".

[Y] ASD-STAN prEN 4709-002:2022-03: "Aerospace series - Unmanned Aircraft Systems - Part 002: Direct Remote Identification".

\* \* \* \* Next Change \* \* \* \*

## 5.X Broadcast Remote ID

### 5.X.1 Broadcast Remote ID using PC5

Broadcast Remote ID leverages A2X broadcast communication mode as defined in TS 23.287 [X] clause 5.2.1.2 and clause 6.3.1, for both UAV UEs that register to the MNO network(s) and UAVs that operate out of coverage. Procedures and mechanisms in TS 23.287 [X] apply to A2X with the following differences:

- When A2X is used for BRID, the content of the messages for BRID is defined according to regional regulations for BRID (e.g. message set of ASTM F3411.19 [X] or ASD-STAN prEN 4709-002 P1 [X]) and optionally according to regional mean of compliance documents.

\* \* \* \* End of Changes \* \* \* \*