**3GPP TSG-CT WG3 Meeting #141C3-252367**

**Bratislava, SK, 19 – 23 May 2025**

**Title: LS on Time To Collision prediction accuracy**

**Response to:**

**Release: Rel-19**

**Work Item: UAS\_Ph3**

**Source: CT3**

**To: SA2**

**Cc:**

**Contact person: Tianmei Liang**

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**Send any reply LS to: 3GPP Liaisons Coordinator,** **mailto:3GPPLiaison@etsi.org**

**Attachments:** **N/A**

# Overall description

Upon TS 23.288 clause 6.19 Relative Proximity Analytics in Rel-19 UAS\_Ph3 WI added the >> sublevel parameters of TTC prediction output as in below table 6.19.3-2:

**Table 6.19.3-2: Relative proximity predictions**

|  |  |
| --- | --- |
| **Information** | **Description** |
| UE group ID or set of UE IDs | Identifies the UE(s) for which the statistics apply by a list of SUPIs or GPSIs, or a group of UEs by a list of Internal-Group-Ids. |
| Time slot entry (1..max) | List of predicted time slots. |
|  >Time slot start | Time slot start time within the Analytics target period. |
|  > Duration | Duration of the time slot. |
|  > UE proximity attributes | Predicted proximity data. This includes distance between UEs in the group/list and other proximity data as mentioned in clause 6.19.1. |
|  >> relative proximity information | Predicted proximity information. |
|  >> Confidence | Confidence of this prediction. |
|  >> Sampling Ratio | Percentage of UEs accounted based on proximity criteria. |
| Time To Collision (TTC) information (NOTE 1) |  |
|  > Time To Collision | Time until a collision with another UE happens. |
|  >> Collision space | Predicted space of the collision at the collision time, e.g. Ellipsoid point with altitude and uncertainty ellipsoid in TS 23.032 [34]. |
|  >> Confidence | Confidence of the prediction for Collision space |
|  >> Collision direction | Predicted collision direction of the target UE at the collision time. |
|  >> Confidence | Confidence of the prediction for collision direction. |
|  >> Accuracy | Accuracy of collision direction. |
|  > Confidence | Confidence of the prediction. |
|  > Accuracy | Accuracy of TTC (dependent on both the UE location accuracy and confidence of the prediction). |
| NOTE 1: Analytics subset that can be used in "list of analytics subsets that are requested" and "Preferred level of accuracy per analytics subset". |

CT3 would like to ask below question for SA2 clarification upon CT3 group cannot align the contents of accuracy and data type for "Accuracy of collision direction" IE with related editor’s note needs to be resolved.

**Question 1:**

What is the meaning for the "Accuracy of collision direction" and "Accuracy of TTC" IEs and suggested unit for the "Accuracy of collision direction" IE?

**To SA2:**

**ACTION:** CT3 kindly asks SA2 to answer the question and update the specification accordingly if needed.

# 3 Dates of next TSG CT WG 3 meetings

CT3#142 25 – 29 August 2025 Goteborg, SE

CT3#143 13 – 17 October 2025 Sophia-Antipolis, FR