**3GPP TSG-CT WG3 Meeting #109eC3-202103**

**E-Meeting, 16th – 24th April 2020**

**Title: LS on subscription to V2X services**

**Response to:**

**Release: Rel-16**

**Work Item: eV2XARC**

**Source: CT3**

**To: SA2**

**Cc: CT4**

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

**Attachments:**

# 1 Overall description

As defined in clause 5.5 of TS 23.287,

c) the list of the PLMNs where the UE is authorized to perform V2X communication over PC5 reference point. For each PLMN in the list, the RAT(s) over which the UE is authorized to perform V2X communications over PC5 reference point; and

d) PC5 QoS parameters as defined in clause 5.4.2 used by NG-RAN,

are provided by the UDR to the PCF during the UE Policy Association Establishment procedure and UE Policy Association Modification procedure using Nudr service for Data Set "Policy Data" and Data Subset "Policy Set Entry". If the subscription information provided to the PCF from UDR is changed (e.g., PC5 QoS related parameters, the list of PLMNs where the UE is authorized to perform V2X communication over PC5 reference point), the PCF initiates the UE Configuration Update procedure.

As defined in clause 6.1.2.2.2 of TS 23.503,

* during Initial Registration, the (H-)PCF retrieves the list of PSIs and its content stored in the (H-)UDR for this SUPI while the V-PCF (in the roaming scenario) retrieves the list of PSIs and its content stored in the V-UDR for the PLMN ID of this UE (alternatively, the V-PCF can have this information configured locally).
* the (H-)PCF maintains the latest list of PSIs delivered to each UE as part of the information related to the Policy Association until the UE policy association termination request is received from the AMF. Then the (H-)PCF stores the latest list of PSIs and its contents in the (H-)UDR using the Nudr\_DM\_Update including DataSet "Policy Data" and Data Subset "Policy Set Entry".

CT3 would like to ask SA2 following questions related to the list of PSIs stored in the Policy Set Entry:

Q1: If there is no subscription data defined in the UDR for the V2X UE and/or no PSI is stored in the Policy Set Entry, how does the PCF create the related V2X policies? (e.g, first V2X UE registration, where the V2X UE may not report any PSI)

Q2: As there is no procedure to define that the V2X UE reports the PSI during the initial registration, why does the H-PCF need to store the V2X Policy in the UDR?

Q3: If the PCF authorizes and updates the V2X Policy for the V2X UE based on changes on subscription information, and the information stored in the , "Policy Set Entry" contains a list of PSIs, in which UDR data set is stored the above referred subscription information?

# 2 Actions

**To SA2**

**ACTION:** CT3 asks SA2 to answer above questions and update their specification if necessary.

# 3 Dates of next TSG CT WG 3 meetings

3GPP TSG CT3#110e 25th – 29th May 2020 E-Meeting

3GPP TSG CT3#111 24th – 29th August 2020 US, US