**3GPP TSG CT WG3 Meeting #137 *C3-245372***

**Hefei, CN, 14 - 18 October, 2024 (Revision of C3-245101)**

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| *CR-Form-v12.3* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
|  | | | | | | | | |
|  | **29.525** | **CR** | **0368** | **rev** | **1** | **Current version:** | **19.0.0** |  |
|  | | | | | | | | |
| *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 |  | Radio Access Network |  | Core Network | **X** |

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|  | | | | | | | | | | |
| ***Title:*** | Presence condition update, addition and miscellaneous changes | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Source to WG:*** | Nokia | | | | | | | | | |
| ***Source to TSG:*** | CT3 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | SBIProtoc19 | | | | |  | ***Date:*** | | | 17-10-2024 |
|  |  | | | |  | |  | | |  |
| ***Category:*** | **F** |  | | | | | ***Release:*** | | | Rel-19 |
|  | *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-17 (Release 17) Rel-18 (Release 18) Rel-19 (Release 19)  Rel-20 (Release 20)* | |
|  |  | | | | | | | | | |
| ***Reason for change:*** | | In 4.2.2.7, The last two line has the wrong wording "a as" in the line. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Summary of change:*** | | In 4.2.2.7, the space removal in the end of the line. The last two charging information lines are update for the proper wording instead "a as".  In 5.6.2.3, the extra space in suppFeat attribute is removed. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Consequences if not approved:*** | | The quality of the specification is not up to the mark. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Clauses affected:*** | | 4.2.2.7, 5.6.2.3 | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **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 does not impact the OpenAPI descriptions defined in this specification. | | | | | | | | |
|  | |  | | | | | | | | |
| ***This CR's revision history:*** | |  | | | | | | | | |

\* \* \* \* First Change \* \* \* \*

#### 4.2.2.7 Provisioning of charging related information

This functionality applies to non-roaming and roaming scenarios. In non-roaming scenarios the NF service consumer corresponds to the AMF, and in the roaming scenario the NF service consumer corresponds to the V-PCF or the AMF.

When the "SLAMUP" feature is supported, the PCF may provide the NF service consumer with the charging function information for the UE, i.e. the CHF address(es), and if available, the associated CHF instance ID(s) and CHF set ID(s), during the UE Policy Association establishment based on the operator policy.

The (H-)PCF may retrieve the (H-)CHF addresses, and if available, the associated (H-)CHF instance ID(s) and (H-)CHF set ID(s) as described in 3GPP TS 29.512 [27], clause 4.2.2.3.1.

In order to provision the (H-)CHF information to the NF service consumer, the (H-)(V-)PCF shall include within the PolicyAssociation data structure the "chfInfo" attribute containing the charging information. The "chfInfo" attribute may include the primary (H-)CHF address, within the "primaryChfAddress" attribute, and secondary (H-)CHF address, within the "secondaryChfAddress" attribute if available. When the (H-)CHF supports redundancy based on NF Set concepts as described in 3GPP TS 29.500 [5], the "chfInfo" attribute may include the (H-)CHF address, encoded within the"primaryChfAddress" attribute, (H-)CHF instance, encoded within the "primaryChfInstanceId" attribute, and primary (H-)CHF set id, encoded within the "primaryChfSetId". The primary (H-)CHF information may be also complemented by secondary (H-)CHF information, if available.

The (V-)PCF provided (H-)CHF information shall overwrite any predefined (H-)CHF information configured at the AMF.

If there is no home operator policy indicating that the same (H-)CHF shall be selected by the (H-)PCF for the UE and by the AMF, then no charging information is provisioned by the (H-)PCF, and the AMF shall select the charging information as follows:

1. In non-roaming scenarios, the charging information is selected as specified in 3GPP TS 32.256 [44], clause 5.1.3.

2. In roaming scenarios, the charging information is selected as specified in 3GPP TS 32.256 [44], clause 5.1.5.2.

\* \* \* \* Next changes \* \* \* \*

#### 5.6.2.3 Type PolicyAssociationRequest

Table 5.6.2.3-1: Definition of type PolicyAssociationRequest

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Attribute name | | Data type | | P | | Cardinality | | Description | | Applicability | |
| notificationUri | | Uri | | M | | 1 | | Identifies the recipient of Notifications sent by the PCF. | |  | |
| altNotifIpv4Addrs | | array(Ipv4Addr) | | O | | 1..N | | Alternate or backup IPv4 Addess(es) where to send Notifications. | |  | |
| altNotifIpv6Addrs | | array(Ipv6Addr) | | O | | 1..N | | Alternate or backup IPv6 Addess(es) where to send Notifications. | |  | |
| altNotifFqdns | | array(Fqdn) | | O | | 1..N | | Alternate or backup FQDN(s) where to send Notifications. | |  | |
| supi | | Supi | | M | | 1 | | Subscription Permanent Identifier. | |  | |
| gpsi | | Gpsi | | C | | 0..1 | | Generic Public Subscription Identifier. Shall be provided when available. | |  | |
| accessType | | AccessType | | C | | 0..1 | | The Access Type where the served UE is camping. Shall be provided when available. | |  | |
| accessTypes | | array(AccessType) | | C | | 1..N | | The Access Type(s) where the served UE is camping. Shall be provided when available. | | AccessChange | |
| pei | | Pei | | C | | 0..1 | | The Permanent Equipment Identifier of the served UE. Shall be provided when available. | |  | |
| userLoc | | UserLocation | | C | | 0..1 | | The location of the served UE. Shall be provided when available. | |  | |
| timeZone | | TimeZone | | C | | 0..1 | | The time zone of the network where the served UE is camping. Shall be provided when available. | |  | |
| servingPlmn | | PlmnIdNid | | C | | 0..1 | | The serving network (a PLMN or an SNPN) where the served UE is camping. For the SNPN the NID together with the PLMN ID identifies the SNPN. Shall be provided when available. | |  | |
| ratType | | RatType | | C | | 0..1 | | The RAT Type where the served UE is camping. Shall be provided when available. | |  | |
| ratTypes | | array(RatType) | | C | | 1..N | | The RAT Type(s) where the served UE is camping. Shall be provided when available. | | AccessChange | |
| groupIds | | array(GroupId) | | C | | 1..N | | Internal Group Identifier(s) of the served UE. Shall be provided when available. | |  | |
| hPcfId | | NfInstanceId | | C | | 0..1 | | H-PCF Identifier. Shall be provided by the AMF in roaming scenarios when available. | |  | |
| hPcfUri | | Uri | | C | | 0..1 | | H-PCF URI. It shall be provided by the AMF in roaming scenarios, if available.  When present, it shall contain the API URI of the Npcf\_UEPolicyControl service of the H-PCF ID indicated in the "hPcfId" attribute. The API URI shall take the form specified in clause 5.1. | | EnhEstRoaming | |
| hPcfSetId | | NfSetId | | C | | 0..1 | | H-PCF Set Identifier of the H-PCF instance indicated in the "hPcfId" attribute. It shall be provided by the AMF in roaming scenarios, if available. | | EnhEstRoaming | |
| uePolReq | | UePolicyRequest | | C | | 0..1 | | A request for UE Policies. Shall be provided when the AMF receives an "UE STATE INDICATION" message, as defined in Annex D.5.4 of 3GPP TS 24.501 [15]. | |  | |
| guami | | Guami | | C | | 0..1 | | The Globally Unique AMF Identifier (GUAMI) shall be provided by an AMF as NF service consumer. | |  | |
| serviceName | | ServiceName | | O | | 0..1 | | If the NF service consumer is an AMF, it should provide the name of a service produced by the AMF that makes use of information received within the Npcf\_UEPolicyControl\_UpdateNotify service operation. | |  | |
| servingNfId | | NfInstanceId | | C | | 0..1 | | If the NF service consumer is an AMF, it shall contain the identifier of the serving AMF. | |  | |
| pc5Capab | | Pc5Capability | | C | | 0..1 | | Indicates the PC5 Capability for V2X communications supported by the UE. It shall be provided when available at the NF service consumer. | | V2X | |
| a2xCapab | | array(A2xCapability) | | C | | 1..N | | Indicates the A2X Capabilities for A2X communications supported by the UE. It shall be provided when available at the NF service consumer. | | A2X | |
| proSeCapab | | array(ProSeCapability) | | C | | 1..N | | Indicates whether the UE is capable of one or more of the the following 5G ProSe Capabilities: 5G ProSe Direct Discovery, 5G ProSe Direct Communication, Layer-2 and/or Layer 3 5G ProSe UE-to-Network Relay and Layer-2 and/or Layer 3 5G ProSe Remote UE, and when the "ProSe\_Ph2" feature is supported, Layer-2 and/or Layer-3 5G ProSe UE-to-UE Relay and Layer-2 and/or Layer-3 5G ProSe End UE.  It shall be provided when available at the NF service consumer. | | ProSe | |
| confSnssais | | array(ConfiguredSnssai) | | C | | 1..N | | The Configured NSSAI for the serving PLMN, and optionally the mapped S-NSSAI value of home network corresponding to the configured S-NSSAI in the serving PLMN.  When the feature SliceAwareANDSP is supported, it shall be provided in the roaming case when available at the NF service consumer and the "n3gNodeReSel" attribute is present.  If the feature NssaiChange is supported, it shall be provided in the roaming case. (NOTE 1) | | SliceAwareANDSP, NssaiChange | |
| n3gNodeReSel | | Non3gppAccess | | C | | 0..1 | | A wrongly selected non-3gpp access node. It shall be provided when the UE has selected a non-3gpp access node that is not compatible with the Allowed NSSAI. | | SliceAwareANDSP | |
| sliceN3gNodeSelCap | | SliceSpecificN3gNodeSelectionCapability | | O | | 0..1 | | Indicates whether the UE supports N3IWF/TNGF selection based on the slices the UE wishes to use over untrusted/trusted non-3GPP access. | | SliceAwareANDSP | |
| satBackhaulCategory | | SatelliteBackhaulCategory | | O | | 0..1 | | Indicates types of the satellite backhaul based on satellite types (when satellite backhaul is used) or non-satellite backhaul (when satellite backhaul is not used).  The default value "NON\_SATELLITE" shall apply if the attribute is not present. | | EnSatBackhaulCategoryChg | |
| vpsUePolGuidance | | map(UePolicyParameters) | | O | | 1..N | | Contains the service parameter used to guide the VPLMN-specific URSP and may contain the subscription to VPLMN-specific URSP delivery outcome. The key of the map represents the AF request to guide the VPLMN-specific URSP rules.  This attribute only applies in roaming and when the V-PCF is the NF service consumer. | | VPLMNSpecificURSP | |
| lboRoamInfo | | array(LboRoamingInformation) | | O | | 1..N | | Contains LBO roaming information for DNN and S-NSSAI combination(s).  This attribute only applies in roaming and when the AMF is the NF service consumer. | | VPLMNSpecificURSP | |
| 5gsToEpsMob | | boolean | | O | | 0..1 | | When it is set to true, it indicates the UE Policy Association creation is triggered by a 5GS to EPS mobility scenario.  Default value is false. | | EpsUrsp | |
| suppFeat | | SupportedFeatures | | M | | 1 | | Indicates the features supported by the service consumer. | |  | |
| rangSlCapab | | array(RangSLCapability) | | C | | 1..N | | Contains the Ranging/SL related UE capabilities.  It shall be provided when available at the NF service consumer. | | Ranging\_SL | |
| NOTE 1: The "mappedHomeSnssai" attribute within the ConfiguredSnssai data type may only be provided if the "NssaiChange" feature is supported. | | | | | | | | | | | |

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