**3GPP TSG-CT3 Meeting #136 *C3-244564***

**Maastricht, The Netherlands, 19th – 23rd August 2024 revision of C3-244083**

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| *CR-Form-v12.3* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
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|  | **29.525** | **CR** | **0349** | **rev** | **1** | **Current version:** |  |  |
|  | | | | | | | | |
| *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:*** | Correct presence field for some of the attributes | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Source to WG:*** | Nokia, ZTE | | | | | | | | | |
| ***Source to TSG:*** | CT3 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | SBIProtoc19 | | | | |  | ***Date:*** | | | 2024-08-12 |
|  |  | | | |  | |  | | |  |
| ***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:*** | | 1. "n3gNodeReSel" is defined as Optional but a condition is provided in the description and hence the presence for this attribute has to be corrected to "Conditional". 2. "urspEnfReport" is defined as Optional but a condition is provided in the description and hence the presence for this attribute has to be corrected to "Conditional". 3. "ueReqPduSessionType" is defined as Optional but a condition is provided in the description and hence the presence for this attribute has to be corrected to "Conditional". 4. "satBackhaulCategory" is defined as Conditional but there is no condition provided in the description and hence the presence for this attribute has to be corrected to "Optional". | | | | | | | | |
|  | |  | | | | | | | | |
| ***Summary of change:*** | | This CR proposes update the presence condition for the attribute as explained above. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Consequences if not approved:*** | | 1. This may lead to incorrect implemenations, since there is discrepency between the attribute "Presence" indicator and the description. 2. Aligning the "Presence" indicator with the description will help in proper implementation without any issues. 3. Consistency in the specification is not maintained. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Clauses affected:*** | | 5.6.2.3, 5.6.2.4, 5.6.2.11 | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **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 any open API defined in this specifications. | | | | | | | | |
|  | |  | | | | | | | | |
| ***This CR's revision history:*** | |  | | | | | | | | |

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

#### 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 when available. |  |
| 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 |
| 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 |
| chfInfo | ChargingInformation | O | 0..1 | Contains the CHF address(es), and if available, the associated CHF instance ID(s) and CHF set ID(s). (NOTE 2) | SLAMUP |
| 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.  NOTE 2: This attribute may only be supplied by the PCF in the response to the initial POST request that requested the creation of an individual UE policy resource. | | | | | |

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

#### 5.6.2.4 Type PolicyAssociationUpdateRequest

Table 5.6.2.4-1: Definition of type PolicyAssociationUpdateRequest

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Attribute name | | Data type | | P | | Cardinality | | Description | | Applicability | |
| notificationUri | | Uri | | O | | 0..1 | | Identifies the recipient of Notifications sent by the PCF. | |  | |
| altNotifIpv4Addrs | | array(Ipv4Addr) | | O | | 1..N | | Alternate or backup IPv4 Address(es) where to send Notifications. | |  | |
| altNotifIpv6Addrs | | array(Ipv6Addr) | | O | | 1..N | | Alternate or backup IPv6 Address(es) where to send Notifications. | |  | |
| altNotifFqdns | | array(Fqdn) | | O | | 1..N | | Alternate or backup FQDN(s) where to send Notifications. | |  | |
| triggers | | array(RequestTrigger) | | C | | 1..N | | Request Triggers that the NF service consumer observes. | |  | |
| praStatuses | | map(PresenceInfo) | | C | | 1..N | | If the Trigger "PRA\_CH" is reported, the UE presence status for tracking area for which changes of the UE presence occurred shall be provided. The "praId" attribute within the PresenceInfo data type shall also be the key of the map. The "presenceState" attribute within the PresenceInfo data type shall be supplied. The "additionalPraId" attribute within the PresenceInfo data type shall not be supplied. The "praId" attribute within the PresenceInfo data type shall include the identifier of an individual presence reporting area. | |  | |
| userLoc | | UserLocation | | C | | 0..1 | | The location of the served UE shall be provided for trigger "LOC\_CH". | |  | |
| uePolDelResult | | UePolicyDeliveryResult | | C | | 0..1 | | UE Policy Delivery Result. Shall be provided together with trigger "UE\_POLICY" when a "MANAGE UE POLICY COMPLETE" message or a "MANAGE UE POLICY COMMAND REJECT" message, as defined in Annex D.5 of 3GPP TS 24.501 [15], has been received by the V-PCF and is being forwarded to the H-PCF. | |  | |
| uePolTransFailNotif | | UePolicyTransferFailureNotification | | C | | 0..1 | | The UE policy transfer failure notification. Shall be the provided together with trigger "UE\_POLICY" when a response with HTTP status code 4xx or 5xx as defined in clause 5.2.2.3.1.2 of 3GPP TS 29.518 [14] or a N1N2 Transfer Failure Notification as defined in clause 5.2.2.3.2 of 3GPP TS 29.518 [14] is received after the V-PCF provisioned the UE policy by invoking the Namf\_Communication\_N1N2MessageTransfer service operation to the AMF and is notifying the H-PCF. | |  | |
| uePolReq | | UePolicyRequest | | C | | 0..1 | | A request for UE Policies. Shall be provided together with trigger "UE\_POLICY" when the V-PCF receives an "UE POLICY PROVISIONING REQUEST" message, as defined in clause 7.2.1.1 of 3GPP TS 24.587 [24], if the "V2X" feature is supported, and/or when the V-PCF receives an "UE POLICY PROVISIONING REQUEST" message for 5G ProSe, as defined in clause 10.4.1 of 3GPP TS 24.554 [28], if the "ProSe" feature is supported and/or when the V-PCF receives an "UE POLICY PROVISIONING REQUEST" message for A2X, as defined 3GPP TS 24.577 [32], if the "A2X" feature is supported and/or when the V-PCF receives an "UE POLICY PROVISIONING REQUEST" message for Ranging/SL, as defined 3GPP TS 24.514 [42], if the "Ranging\_SL" feature is supported.. | | V2X, A2X, ProSe, Ranging\_SL | |
| guami | | Guami | | C | | 0..1 | | The Globally Unique AMF Identifier (GUAMI) shall be provided by an AMF as NF service consumer during the AMF relocation. | |  | |
| servingNfId | | NfInstanceId | | C | | 0..1 | | It shall contain the identifier of the new AMF during the AMF relocation. | |  | |
| plmnId | | PlmnIdNid | | C | | 0..1 | | The serving network identity (a PLMN or an SNPN) of the served UE shall be provided for trigger "PLMN\_CH". | | PlmnChange | |
| connectState | | CmState | | C | | 0..1 | | The connectivity state of the served UE shall be provided for trigger "CON\_STATE\_CH". | | ConnectivityStateChange | |
| groupIds | | array(GroupId) | | C | | 1..N | | Internal Group Identifier(s) of the served UE. Shall be provided for trigger "GROUP\_ID\_LIST\_CHG". | | GroupIdListChange | |
| 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.  It shall be included by the target AMF only in inter-AMF mobility scenarios and for trigger "FEAT\_RENEG". It requires that the "V2X" feature is supported. | | FeatureRenegotiation | |
| a2xCapab | | array(A2xCapability) | | C | | 1..N | | Indicates the A2X capabilities supported by the UE. It shall be provided when available at the NF service consumer.  It shall be included by the target AMF only in inter-AMF mobility scenarios and for trigger "FEAT\_RENEG". It requires that the "A2X" feature is supported. | | FeatureRenegotiation | |
| proSeCapab | | array(ProSeCapability) | | O | | 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. | | 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. It shall be provided in case of roaming for trigger "CONF\_NSSAI\_CH" or for trigger "NON\_3GPP\_NODE\_RESELECTION". (NOTE) | | SliceAwareANDSP, NssaiChange | |
| n3gNodeReSel | | Non3gppAccess | | C | | 0..1 | | A wrongly selected non-3gpp access node. It shall be provided when available at the NF service consumer and the "NON\_3GPP\_NODE\_RESELECTION" trigger is reported within the "triggers" attribute. | | SliceAwareANDSP | |
| satBackhaulCategory | | SatelliteBackhaulCategory | | C | | 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).  It shall be provided for trigger "SAT\_CATEGORY\_CHG". | | EnSatBackhaulCategoryChg | |
| urspEnfReport | | map(UrspEnforcementPduSession) | | C | | 1..N | | Represents information about the enforced URSP rule(s) in one or more PDU sessions for the affected UE.  The key of the map is a character string that represents an integer value (it may correspond with a PDU session identifier).  It shall be present when the notified policy control request trigger is "URSP\_ENF\_INFO". | | URSPEnforcement | |
| vpsUePolGuidance | | map(UePolicyParameters) | | O | | 1..N | | Contains the service parameter used to guide the VPLMN-specific URSP rule determination and may contain the subscription to VPLMN-specific URSP delivery outcome. The key of the map represents the AF request to guide 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 a DNN and S-NSSAI combination(s).  This attribute only applies in roaming and when the AMF is the NF service consumer. | | VPLMNSpecificURSP | |
| accessTypes | | array(AccessType) | | C | | 1..N | | The Access Type(s) where the served UE is camping. It shall be provided for trigger "ACCESS\_TYPE\_CH" when the access type(s) changes or when the access type(s) is initially reported as consequence of the provisioning of the trigger. | | AccessChange | |
| ratTypes | | array(RatType) | | C | | 1..N | | The RAT Type(s), if available, for the reported "accessTypes" where the served UE is camping. It shall be provided, if available, for trigger "ACCESS\_TYPE\_CH" when the access type(s) changes or when the access type(s) is initially reported as consequence of the provisioning of the trigger. | | AccessChange | |
| suppFeat | | SupportedFeatures | | C | | 0..1 | | Indicates the features supported by the NF service consumer. It shall be included by the target AMF in inter-AMF mobility scenarios for trigger "FEAT\_RENEG". | | FeatureRenegotiation | |
| rangSlCapab | | array(RangSLCapability) | | O | | 1..N | | Contains the Ranging/SL related UE capabilities. | | Ranging\_SL | |
| NOTE: The "mappedHomeSnssai" attribute within the ConfiguredSnssai data type may only be provided if the "NssaiChange" feature is supported. | | | | | | | | | | | |

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

#### 5.6.2.11 Type UrspEnforcementPduSession

Table 5.6.2.11-1: Definition of type UrspEnforcementPduSession

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Attribute name | Data type | P | Cardinality | Description | Applicability |
| urspEnfInfo | UrspEnforcementInfo | M | 1 | Represents UE provided information about the enforced URSP rule(s) in one PDU session. |  |
| sscMode | SscMode | C | 0..1 | SSC Mode of the PDU session.  It shall be provided when URSP rule enforcement information is provided for the first time. |  |
| ueReqDnn | Dnn | C | 0..1 | UE requested DNN.  It shall be provided when URSP rule enforcement information is provided for the first time, if available and different from the selected DNN. |  |
| ueReqPduSessionType | PduSessionType | C | 0..1 | UE requested PDU session Type.  It shall be provided when URSP rule enforcement information is provided for the first time. |  |
| dnn | Dnn | C | 0..1 | Selected DNN.  It shall be provided when URSP rule enforcement information is provided for the first time. |  |
| snssai | Snssai | C | 0..1 | S-NSSAI of the HPLMN.  It shall be provided when URSP rule enforcement information is provided for the first time. |  |

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