**3GPP TSG-CT WG3 Meeting #130 *C3-234253r1***

**Xiamen, China, 9 - 13 October, 2023**

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| *CR-Form-v12.2* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
|  | | | | | | | | |
|  | **29.507** | **CR** | **0274** | **rev** | **1** | **Current version:** | **18.3.0** |  |
|  | | | | | | | | |
| *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:*** | Removal of feature dependency | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Source to WG:*** | ZTE | | | | | | | | | |
| ***Source to TSG:*** | CT3 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | eNS\_Ph3 | | | | |  | ***Date:*** | | | 2023-9-29 |
|  |  | | | |  | |  | | |  |
| ***Category:*** | **F** |  | | | | | ***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:*** | | 1. As indicated in policy association establishment procedure and modification procedure as follows, the support of "NetSliceRepl" feature has no dependency on "SliceSupport" feature and "DNNReplacementControl" feature.   4.2.2.1  - if the "SliceSupport" feature, the "DNNReplacementControl" feature and/or the "NetSliceRepl" feature is supported in the NF service consumer and the UE is registered via a 3GPP access, the Allowed NSSAI in the 3GPP access encoded in the "allowedSnssais" attribute; and  4.2.3.1  if the "SliceSupport" feature, the "DNNReplacementControl" feature and/or the "NetSliceRepl" feature is supported, the UE is registered via 3GPP access, the Allowed NSSAI changed, and the Policy Control Request Trigger "Change of Allowed NSSAI" was provided, then the Allowed NSSAI encoded in the "allowedSnssais" attribute;   1. As indicated in policy association establishment procedure and modification procedure as follows, the support of "PartNetSliceSupport" feature has no dependency on "SliceSupport" feature and "DNNReplacementControl" feature.   - if the "PartNetSliceSupport" feature and/or the "NetSliceRepl" feature is/are supported in the NF service consumer and the UE is registered via a 3GPP access, the Partially Allowed NSSAI in the 3GPP access within the "partAllowedNssai" attribute;  - if the feature "DNNReplacementControl" and/or the "NetSliceRepl" feature is/are supported, the mapping of each S-NSSAI of the Allowed NSSAI and, if the "PartNetSliceSupport" feature and/or the "NetSliceRepl" feature is/are supported, the mapping of each S-NSSAI of the Partially Allowed NSSAI to the corresponding S-NSSAI of the HPLMN encoded in the "mappingSnssais" attribute; | | | | | | | | |
|  | |  | | | | | | | | |
| ***Summary of change:*** | | Update 5.8 to   * remove the dependency features "SliceSupport" "DNNReplacementControl" from the description of "NetSliceRepl" feature. * remove the dependency features "SliceSupport" "DNNReplacementControl" from the description of "PartNetSliceSupport" feature. | | | | | | | | |
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| ***Consequences if not approved:*** | | Wrong feature dependency. | | | | | | | | |
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| ***Clauses affected:*** | | 5.6.2.9, 5.8 | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **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 have any impact in the OpenAPI specification. | | | | | | | | |
|  | |  | | | | | | | | |
| ***This CR's revision history:*** | |  | | | | | | | | |

**Additional discussion(if needed):**

**Proposed changes:**

\*\*\* 1st Change \*\*\*

#### 5.6.2.9 Type AmRequestedValueRep

Table 5.6.2.9-1: Definition of type AmRequestedValueRep

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Attribute name | Data type | P | Cardinality | Description | Applicability |
| userLoc | UserLocation | O | 0..1 | The location of the served UE is camping. |  |
| praStatuses | map(PresenceInfo) | O | 1..N | The UE presence statuses for tracking areas.  The "praId" attribute within the PresenceInfo data type shall also be the key of the map. |  |
| accessTypes | array(AccessType) | O | 1..N | The Access Types where the served UE is camping. | MultipleAccessTypes |
| ratTypes | array(RatType) | O | 1..N | The 3GPP RAT Type and non-3GPP RAT Type where the served UE is camping. | MultipleAccessTypes |
| allowedSnssais | array(Snssai) | O | 1..N | The Allowed NSSAI in the 3GPP access and includes the S-NSSAIs values the UE can use in the serving PLMN. | SliceSupport, DNNReplacementControl, NetSliceRepl |
| n3gAllowedSnssais | array(Snssai) | O | 1..N | The Allowed NSSAI in the non-3GPP access and includes the S-NSSAIs values the UE can use in the serving PLMN when the UE is registered in the non-3GPP access. | SliceSupport, MultipleAccessTypes, DNNReplacementControl |
| partAllowedNssai | map(PartiallyAllowedSnssai) | O | 1..N | Represents the updated Partially Allowed NSSAI.  The "snssai" attribute within the PartiallyAllowedSnssai data type shall be the key of the map. | PartNetSliceSupport, NetSliceRepl |
| snssaisPartRejected | map(SnssaiPartRejected) | O | 1..N | Represents the updated set of S-NSSAI(s) partially rejected in the RA.  The "snssai" attribute within the SnssaiPartRejected data type shall be the key of the map. | PartNetSliceSupport |
| rejectedSnssais | array(Snssai) | O | 1..N | Represents the updated set of Rejected S-NSSAI(s) in the RA. | PartNetSliceSupport |
| pendingNssai | array(Snssai) | O | 1..N | Represents the updated Pending NSSAI. | PartNetSliceSupport |

\*\*\* 2nd Change \*\*\*

## 5.8 Feature negotiation

The optional features in table 5.8-1 are defined for the Npcf\_AMPolicyControl API. They shall be negotiated using the extensibility mechanism defined in clause 6.6 of 3GPP TS 29.500 [5].

Table 5.8-1: Supported Features

|  |  |  |
| --- | --- | --- |
| Feature number | Feature Name | Description |
| 1 | SliceSupport | Indicates the support of AM policies differentiation based on the awareness of the allowed NSSAI. |
| 2 | PendingTransaction | This feature indicates support for the race condition handling as defined in 3GPP TS 29.513 [7]. |
| 3 | UE-AMBR\_Authorization | Indicates the support of UE-AMBR control by the PCF in the serving network. |
| 4 | DNNReplacementControl | Indicates the support of DNN replacement control. |
| 5 | MultipleAccessTypes | Indicates the support of AM policies for the multiple access types where the served UE is camping. |
| 6 | WirelineWirelessConvergence | Indicates the support of Wireline and Wireless access convergence. |
| 7 | ImmediateReport | Indicates the support of the current applicable values report corresponding to the policy control request triggers for policy update notification. |
| 8 | ES3XX | Extended Support for 3xx redirections. This feature indicates the support of redirection for any service operation, according to Stateless NF procedures as specified in clauses 6.5.3.2 and 6.5.3.3 of 3GPP TS 29.500 [5] and according to HTTP redirection principles for indirect communication, as specified in clause 6.10.9 of 3GPP TS 29.500 [5]. |
| 9 | UE-Slice-MBR\_Authorization | Indicates the support of UE-Slice-MBR control by the PCF in the serving network. |
| 10 | AMInfluence | Indicates the support of the alternative mechanism to support informing the PCF for the UE of PDU session(s) established/terminated events via the delivery of the PCF for the UE information necessary for the PCF for the PDU session to send notifications on PDU session(s) established/terminated events through the AMF and the SMF. |
| 11 | EneNA | This feature indicates the support of NWDAF data reporting. |
| 12 | TargetNSSAI | Indicates the support for RFSP Index associated with the Target NSSAI. |
| 13 | 5GAccessStratumTime | This feature indicates the support of 5G acess stratum time distribution parameters provisioning. |
| 14 | FeatureRenegotiation | This feature indicates the support of feature renegotiation during the update of a policy association triggered by UE mobility with AMF change. | |
| 15 | NetSliceRepl | This feature indicates the support of the network slice replacement functionality as part of the enhancements of the network slicing functionality.  The following functionalities are supported:  - Support the network slice replacement information management. | |
| 16 | RFSPValidityTime | This feature indicates the support of the provisioning of a validity time for the RFSP Index value that indicates the EPC/E-UTRAN access is prioritized over 5GS access. | |
| 17 | NetTimeSyncStatus | This feature indicates the support of network timing synchronization status and reporting. This feature requires the support of the 5GAccessStratumTime feature as well. | |
| 18 | NetSliceUsageCtrl | This feature indicates the support of the network slice usage control functionality as part of the enhancements of the network slicing functionality.  The following functionalities are supported:  - Support the provisioning by the PCF of the network slice usage control information (e.g., slice deregistration inactivity timer value).  This feature requires the support of the "SliceSupport" and/or "DNNReplacementControl" features. | |
| 19 | PartNetSliceSupport | This feature indicates the partial network slice support in a Registration Area functionality as part of the enhancements of the network slicing functionality.  The following functionalities are supported:  - Support the reporting of the changes in the Partially Allowed NSSAI, S-NSSAI(s) partially rejected in the RA, Rejected S-NSSAI(s) in the RA and/or the Pending NSSAI to the PCF. | |

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