**3GPP TSG-WG SA2 Meeting #162 *S2-240xxxx***

**April 15th – 19th, 2024, Changshan, China**

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| *CR-Form-v12.2* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
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|  | **23.503** | **CR** |  | **rev** | **<Rev#>** | **Current version:** | **18.5.0** |  |
|  | | | | | | | | |
| *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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X

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| ***Proposed change affects:*** | UICC apps |  | ME |  | Radio Access Network |  | Core Network | **X** |

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| ***Title:*** | Minimize number of UE and AM Policy Associations | | | | | | | | | |
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| ***Source to WG:*** | Ericsson | | | | | | | | | |
| ***Source to TSG:*** | SA2 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | TEI19\_MINPA | | | | |  | ***Date:*** | | | 2024-04-10 |
|  |  | | | |  | |  | | |  |
| ***Category:*** | ***B*** |  | | | | | ***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-16 (Release 16) Rel-17 (Release 17) Rel-18 (Release 18) Rel-19 (Release 19)* | |
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| ***Reason for change:*** | | The UE Policy Association indication in UDM is set to enable by the operator, it was agreed at last SA2 meeting that the AF does not have control on whether there is a need to establish a UE Policy Association or not, but rather the operator decides whether there are services that reqire UE Polciies to be sent to the UE and set the indication accordingly.  The AF, in this scenario offers some package to users that require to provision UE Policies to route the service provided by the application over a PDU Session with the required capabilities, such as DNN or S-NSSAI and operator has a business agreement with the ASP that owns the AF.  The UE Policy Association indication in UDM is set to disable by the operator as well when thre are no services that requires to have UE policies provisioned at the UE. Before setting the indication to disable, the operator needs to ensure that there are no UE Policies stored in the UE. | | | | | | | | |
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| ***Summary of change:*** | | The UE Policy Association Indication may be set to enable when it is required to provision UE Policies to the UE, that is either there are service specific parameters provisioned by the AF, via NEF, in UDR for this SUPI as part of the UDR DataSet “Application Data” and Data Subset “Service Specific Information” for a SUPI or for an Internal-Group-Id or the operator policies in the PCF that indicates that UE Policies are available for a SUPI or both.  The UE Policy Association Indication may be set to disable in the UDM when the UE is not longer subscribed to any service that requires sending UE policies to the UE. Before setting the indication to disable, the operator needs to ensure that there are no UE Policies stored for any of these services in the UE. | | | | | | | | |
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| ***Consequences if not approved:*** | | Not possible to enable the UE Policy Association only when UE policies are to be sent to the UE | | | | | | | | |
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| ***Clauses affected:*** | | 6.1.2.2.x (new) | | | | | | | | |
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|  | | **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's revision history:*** | |  | | | | | | | | |

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

##### 6.1.2.2.x Handling of the UE Policy Association

The establishment of the UE Policy Association is performed by the AMF under the conditions defined in Table 6.1.2.2.x-1:

**Table 6.1.2.2.x-1. Handling of the UE Policy Association at AMF**

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| --- | --- | --- | --- |
| **UE Policy Association indications at UDM** | **UE Policy Container from the UE** | **Local Configuration at the AMF** | **Result** |
| Not received | Present or not present | Indicates that the conditions to establish the UE Policy Association (e.g., TAC values or SUPI ranges) | AMF decides whether to establish a UE Policy Association based on UE policy container and local configuration |
| Enabled | Does not matter | Does not matter | UE Policy Association is established |
| Disabled | Does not matter | Does not matter | UE Policy Association is not established |

The UE Policy Association Indication for a SUPI is part of Access and Mobility Subscription data in UDM as described in clause 5.2.3.3.1 of TS 23.502 [3]. It may be set to enable when it is required to provision UE Policies to the UE, that is either there are service specific parameters provisioned by the AF, via NEF, in UDR for this SUPI as part of the UDR DataSet “Application Data” and Data Subset “Service Specific Information” for a SUPI or for an Internal-Group-Id or the operator policies in the PCF that indicates that UE Policies are available for a SUPI or both, the Access and Mobility Subscription data in UDM for each SUPI is set via the provisioning system.

The UE Policy Association Indication for a SUPI may be set by the operator to disable when the UE is not longer subscribed to any service that requires sending UE policies to the UE. Before setting the indication to disable, the operator needs to ensure that there are no UE Policies stored for any of these services in the UE, by revoking the authorization for the service specific information for all of the AFs with active authorizations, as defined in clause 4.15.6.7a of TS 23.502 [3] or by setting the configuration in PCF to remove the UE Policies in the UE if any or both, and by checking the list of stored PSIs in UDR.

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