**3GPP TSG-SA5 Meeting #132e *S5-204313***

**e-meeting 17th 28th August 2020**

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| *CR-Form-v12.0* |
| **CHANGE REQUEST** |
|  |
|  | **28.535** | **CR** | **0004** | **rev** | **-** | **Current version:** | **16.0.0** |  |
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| *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 | **x** | Core Network | **x** |

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| ***Title:***  | Management different type of control loops |
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| ***Source to WG:*** | Huawei |
| ***Source to TSG:*** | S5 |
|  |  |
| ***Work item code:*** | eCOSLA |  | ***Date:*** | 2020-08-05 |
|  |  |  |  |  |
| ***Category:*** | **B** |  | ***Release:*** | Rel-17 |
|  | *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 canbe 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-12 (Release 12)**Rel-13 (Release 13)Rel-14 (Release 14)Rel-15 (Release 15)Rel-16 (Release 16)* |
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| ***Reason for change:*** | The capability of different control loops may be different. Degrees of human intervening are different accordingly. There should be different means for the management of control loops with different capabilities. |
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| ***Summary of change:*** | There are three ways for the management of control loops with different capabilities from low to high: rule based, policy based and intent based |
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| ***Consequences if not approved:*** | It is difficult to manage control loops with different capability type using the same way. |
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| ***Clauses affected:*** | 4.2.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 ...  |
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| ***Other comments:*** |  |
|  |  |
| ***This CR's revision history:*** |  |

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| **1st of changes** |

## 4.2.x Management different behaviour of control loops

The capability of different control loops may be different. High capability control loops may handle complex management work with little intervene from the human. Low capability control loops may need detail rule instructions to be able to manage certain repeative work. There are three types of way to manage different control loops:

- Rules driven control loop: The MnS Consumer specify the detailed rules to achieve the functionalities of the different stages of the closed loop. The MnS Producer implements the different stages of the closed loop based on corresponding rules specified by the MnS Consumer.

- Policy driven control loop: The MnS Consumer specify the policies for control of the loops. The MnS Producer automatically proceed the control loop based on policies specified by the MnS Consumer.

- Intent driven control loop: The MnS Consumer specify the intent as the objective of the control loop. The MnS Producer translates the intent to detailed behavior and corresponding condition for different stages of the closed loop. In order to satisfy the intent, the MnS Producer may implement one or multiple closed loop(s).

Editor’s Notes: It is FFS more details of different control loop capabilities and the related NRM definitions.

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| **2nd of changes** |