**3GPP TSG-SA5 Meeting #131e *S5-203184***

**e-meeting 25th May-3rd June 2020**

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| *CR-Form-v11.4* |
| **CHANGE REQUEST** |
|  |
|  | **28.545** | **CR** | **0006** | **rev** | **1** | **Current version:** | **15.1.0** |  |
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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:***  | Update clause 8 virtualized resource alarm correlation |
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| ***Source to WG:*** | Huawei |
| ***Source to TSG:*** | S5 |
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| ***Work item code:*** | NETSLICE-FS5G |  | ***Date:*** | 2020-05-14 |
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| ***Category:*** | **F** |  | ***Release:*** | Rel-15 |
|  | *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:*** | 1. The reference to TS 28.516 which define the solution for virtualized resource alarm correlation is missing in clause 8 virtualized resource alarm correlation;
2. The description “The FM data report service can correlate the NF application alarms and the VNF and/or VNFC alarms related to virtualized resource” is not correct, should be service producer instead of service.
3. Some update on the text is needed to align with TS 28.516.
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| ***Summary of change:*** | 1. Add reference to TS 28.516
2. Update the description of clause 8 to align with TS 28.516
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| ***Consequences if not approved:*** | The description of clause 8 virtualized resource alarm correlation is incorrect. |
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| ***Clauses affected:*** | 2, 8 |
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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:*** |  |

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| ***This CR's revision history:*** |  |

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| **1st Change** |

# 2 References

The following documents contain provisions which, through reference in this text, constitute provisions of the present document.

- References are either specific (identified by date of publication, edition number, version number, etc.) or non‑specific.

- For a specific reference, subsequent revisions do not apply.

- For a non-specific reference, the latest version applies. In the case of a reference to a 3GPP document (including a GSM document), a non-specific reference implicitly refers to the latest version of that document *in the same Release as the present document*.

[1] 3GPP TR 21.905: "Vocabulary for 3GPP Specifications".

[2] 3GPP TS 28.532: "Management and orchestration; Management services".

[3] 3GPP TS 28.541: "Management and orchestration; 5G Network Resource Model (NRM); Stage 2 and stage 3".

[Y] 3GPP TS 28.516: "Fault Management (FM) for mobile networks that include virtualized network functions; Procedure"

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| **2nd Change** |

# 8 Virtualized resource alarm correlation

The authorized MnS consumer request VNF application alarms and VNF instance alarms related to virtualized resource from MnS producer by consuming the fault supervision MnS. MnS producer obtain the VNF application alarms (including affected VNF/VNFC instance identifier and detailed VNF alarm information) from the VNF, and the VNF instance alarms related to virtualized resource (including affected VNF/VNFC instance identifier and detailed NFVI/VM alarm information) received from the VNFM. Based on the above obtained alarms, MnS producer can correlate the VNF application alarms and the VNF and/or VNFC alarms related to virtualized resource according to affected VNF instance identifier and/or VNFC instance identifiers. The detailed procedure for virtualized resource alarm correlation procedure see corresponding procedure of NE alarm correlation made by EM in the context of NFV described in TS 28.516[Y] and the MnS producer act as the role of EM.

The authorized MnS consumer request NSSI alarms including alarm reports related to virtualized resource by consuming the fault supervision MnS. The MnS producer should collect alarm report related to virtualized resource according to affected VNF instance identifier corresponding to the NF instance in the NSSI.

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| **End of Change** |