**3GPP TSG-SA5 Meeting #130e *S5-202193***

**e-meeting 20-28 April 2020**

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| *CR-Form-v12.0* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
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|  | **28.531** | **CR** | **0047** | **rev** | **-** | **Current version:** | **16.5.0** |  |
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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:*** | Clarification on network slice related identifiers | | | | | | | | | |
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| ***Source to WG:*** | Huawei | | | | | | | | | |
| ***Source to TSG:*** | S5 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | TEI16 | | | | |  | ***Date:*** | | | 2020-04-28 |
|  |  | | | |  | |  | | |  |
| ***Category:*** | **F** |  | | | | | ***Release:*** | | | Rel-16 |
|  | *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-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:*** | | There are three concepts which need clarifications:  - Network Slice  - Network Slice Instance  - NSI ID   1. "Network Slice" term/definition: The definition of “Network Slice” (defined in TS 23.501) is conceptually aligned between SA2 and SA5. "NetworkSlice" IOC represents the SA2 defined "Network Slice" for the management purpose. This is the general network slicing management approach as we did for management of other network elements. 2. "Network Slice Instance" term/defintion: The definition of "Network Slice Instance" (defined in TS 23.501) is conceptually aligned between SA2 and SA5. It focuses on the depolyment aspect and composition of Network Slice (defined in TS 23.501). In SA5 understanding, the Network Slice Instance contains the related resources which are needed to compose a network slice including both 3GPP defined Core network and RAN. 3. "NSI ID" term: The term "NSI ID" might lead to conslusion that it is the identifier of NSI, which is actually DN of NSI. In the context of SA2, the NSI ID usage is optional and for the purpose to identify the core network part of NSI using NRF discovery mechanism.   Potential confusion is mainly caused by the use of "NSI ID" term. | | | | | | | | |
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| ***Summary of change:*** | | Clarify the identifiers for network slice management purpose and Network Slice signaling purpose. | | | | | | | | |
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| ***Consequences if not approved:*** | | Misleading identifiers may lead to incorrect implementation. | | | | | | | | |
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| ***Clauses affected:*** | | 4.6 | | | | | | | | |
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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:*** | |  | | | | | | | | |

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| **1st Change** |

## 4.6 General information for network slice related identifiers

There are following network slice related identifiers which serve different purposes:

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| **Identifier** | **Description** |
| **Identifiers for network slice management purpose** | |
| **Identifier of NS Instance** | To identify a NetworkSlice instance, DN of NetworkSlice IOC (i.e. the objectinstance attribute) is the management identifier of that NetworkSlice instance, see TS 28.541 [6]. |
| **Identifier of NSS Instance** | To identify a NetworkSliceSubnet instance, DN of NetworkSliceSubnet IOC (i.e. the objectinstance attribute) is the management identifier of that NetworkSliceSubnet instance, see TS 28.541 [6]. |
| **Identifiers for Network Slice signaling purpose** | |
| **NSI ID** | NSI ID is only for 5GC signaling use, i.e. to identify Core Network part of a Network Slice instance when multiple Network Slice instances of the same Network Slice are deployed, and there is a need to differentiate between them in the 5GC, see clause 3.1 of TS 23.501 [10]. The NRM attribute cNSIIdList of NRFFunction and NSSFFunction, see TS 28.541 [6], is a list for NSI ID(s). |
| **S-NSSAI** | To identify Network Slice. Referred to TS 23.501 [10] and TS 38.300 [11]. NRM attribute sNSSAIList of ServiceProfile contained by instance of NetworkSlice IOC identifies the S-NSSAI(s) supported by the corresponding Network Slice, see TS 28.541 [6]. |
| **PLMN ID** | Represents PLMN identifier. |

The NSI ID and S-NSSAI are configured by the management system.

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| **End of Change** |