**3GPP TSG-SA WG6 Meeting #49-e S6-221096**

**e-meeting, 16th – 22nd May 2022 (revision of S6-22xxxx)**

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| *CR-Form-v12.1* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
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|  |  | **CR** | **0069** | **rev** | **9** | **Current version:** | **.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 | **x** | Radio Access Network |  | Core Network | **x** |

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| ***Title:*** | Updating network slicing requirements for MC services | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Source to WG:*** | Ericsson, , FirstNet, Motorola Solutions, BDBOS | | | | | | | | | |
| ***Source to TSG:*** | S6 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | MCOver5GS | | | | |  | ***Date:*** | | | 2022-04-27 |
|  |  | | | |  | |  | | |  |
| ***Category:*** | A |  | | | | | ***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-15 (Release 15) Rel-16 (Release 16) Rel-17 (Release 17) Rel-18 (Release 18)* | |
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| ***Reason for change:*** | | Due to the LS sent from CT1 asking for clarification on the configuration and use of slicing by MC services, This CR provides clarifications on the initial MC service UE (pre-) configuration related to network slice in order to avoid issues in stage 3 related work, and to be fully aligned with 3GPP TS 23.501.  SA6 needs to follow the network slice concepts defined in 3GPP TS 23.501, and based on 3GPP TS 23.501 clause 5.15, the UE utilizes the set of Default Configured NSSAI as the Requested NSSAI once the Configured/Allowed NSSAI(s) are not provided to the UE, e.g., during initial registration procedures. Otherwise, the MC service UE is not allowed to request a slice.  Furthermore, the UE may be pre-configured or provisioned with information for the establishment of the PDU sessions that correspond to the MC traffic, as described in 3GPP TS 23.503. | | | | | | | | |
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| ***Summary of change:*** | | * Clarify that the initially configured/ pre-configured slices in the MC service UE refers to the Default Configured NSSAI, and to be utilized as described in 3GPP TS 23.501. * The UE may be pre-configured or provisioned with information related to PDU session establishment such as the network slice utilized by the MC service UE. | | | | | | | | |
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| ***Consequences if not approved:*** | | * No alignment with 3GPP TS 23.501 related to network slicing concepts. | | | | | | | | |
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| ***Clauses affected:*** | | 4.4.2 and A.2 | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **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 \* \* \* \*

### 4.4.2 Requirements

For the use of network slicing in the MC service context, the following minimum requirements in accordance with 3GPP TS 23.501 [7] shall be considered:

One network slice shall be assigned per PDU session and may benefit from a dedicated transmission resource allocation.

The network slicing for MC services follows the concepts defined in 3GPP TS 23.501 [7]. The Initial MC service UE configuration shall contain at least one network slice identity (S-NSSAI). Those S-NSSAIs shall be considered as part of the Default Configured S-NSSAI(s), and should be utilized by the MC service UE to form the Requested S-NSSAI(s) at registration as specified in 3GPP TS 23.501 [7].

If the MC service UE requests a slice which is subject to Network Slice-Specific Authentication and Authorization, the corresponding aspects as well as the MC service UE behaviour are to be followed as described in 3GPP TS 23.501 [7], and 3GPP TS 23.502 [10]. The corresponding credentials per S-NSSAI can be configured in the initial MC service UE configuration or UE (pre-)configuration.

The use of network slices corresponding to non-standardized NSSAIs across PLMN boundaries requires harmonisation in order to guarantee their availability.

Initial MC service UE configuration data may contain information for the PDU session to be used for each MC service (including among others the S-NSSAI).

\* \* \* \* Second change \* \* \* \*

# A.2 Initial MC service UE configuration data

The configuration data defined in 3GPP TS 23.280 [3] in Annex A.6 apply, with the following exceptions:

- DNN and the corresponding DN credentials instead of the PDN credentials shall be used, along with the S-NSSAI to be used for each MC service;

- The Default Configured slice(s) information may be pre-configured at the MC service UE and be utilized as defined in 3GPP TS 23.501 [7];

NOTE: It is up to UE implementation, whether an S-NSSAI value is included in the Requested NSSAI. If not included, the corresponding MC traffic could be handled according to the URSP rule with the "match all" Traffic descriptor.

- Additional MC network slice identification information may be provided for each S-NSSAI, e.g., the corresponding network slice credentials.

\* \* \* \* End of changes \* \* \* \*