**3GPP TSG-CT3 Meeting #134 *C3-242084***

[**Changsha**](https://www.3gpp.org/ftp/tsg_ct/WG3_interworking_ex-CN3/TSGC3_128_Bratislava/Invitation/)**, China, 15th April – 19th April 2024**

**Title: LS on Clarification related to NSI.**

**Response to: NA**

**Release: Rel-18**

**Work Item: NSCALE**

**Source:** **3GPP CT3**

**To:** **3GPP SA6**

**Cc: 3GPP SA2, 3GPP SA5**

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**Send any reply LS to: 3GPP Liaisons Coordinator,** **mailto:3GPPLiaison@etsi.org**

**Attachments:** None

# 1 Overall description

As per S2-2403703, SA2 LS reply to LS on Clarification related to the information exposed by the 5GC to NSCE server provided below clarification:

*The output of Network Slice load statistics/prediction as described in Table 6.3.3A-2 and Table 6.3.3A-4 of TS 23.288 can be exposed, although it was not exposed to the AF, and the attached CR (TS 23.288 CR#1061) fixed it. Note that Network Slice Instance load statistics/prediction as described in Table 6.3.3A-1 and Table 6.3.3A-3 of TS 23.288 should not be exposed as Network Slice instance is within 5GC and its assumed external AF or NEF is not aware of Network Slice Instance. Besides, as described in TS 33.501 clause 5.9.2.3, NEF and the AF shall fulfil the security requirements that include that “Internal 5G Core information such as DNN, S-NSSAI etc., shall not be sent outside the 3GPP operator domain.” But there is no agreement in SA2 whether a possible associated NSI ID in Load Level Analytics/predictions can be exposed or not to a trusted AF or an NEF.*

As per TS 23.435:

### 9.3.1 General

This functionality is a service related to the translation of the service API as invoked by the end applications to slice APIs based on the API configuration and application to slice mapping. Slice APIs can be defined as customized/tailored sets of service APIs (which can be either NEF northbound APIs or OAM provided APIs or enabler layer/SEAL provided APIs) and can be mapped to particular slice instances. The slice APIs can be a bundled or combined API comprising of different types of APIs, which will be used to expose the telco (5GS/SEAL)-provided services as needed by the applications of the slice customer. Each slice API may be configured per network slice instance.

#### 9.7.2.2 Network slice related performance and analytics report subscription and report

3. NSCE server correlates the performance data of network slice instance, the analytics data of group of UEs and the KQI/QoE data to generate the performance data and analytics data report as required by VAL server.

#### 9.7.2.3 Multiple slices related performance and analytics consolidated report request

5. The NSCE server verifies and analyses analytics data of network slice instances that is received from MDE/NWDAF about both PNI-NPN and PLMN slices, then NSCE server makes consolidated performance report among different kinds of network slices in specific period of time/location zone.

#### 9.9.2.1 Procedures on slice API configuration

b. S-NSCE server may also interact with OAM to query on the target slice availability and the up-to-date configured slice parameters e.g. slice RRM policies, modification of the NSI/NSSI resources (see TS 28.531 [8], 5.1.12) at the target service area and measurements for the slice at the target area.

Table 9.9.3.2-1: Application service continuity requirement request

|  |  |  |
| --- | --- | --- |
| Information element | Status | Description |
| Slice identifier | O | The slice identifier (S-NSSAI, NSI ID or ENSI) which is mapped to the VAL application, if known by the VAL server |

Table 9.13.3.2-1: Inter-PLMN application service continuity requirement request

|  |  |  |
| --- | --- | --- |
| Information element | Status | Description |
| Slice identifier | O | The slice identifier (S-NSSAI, NSI ID or ENSI) which is mapped to the VAL application, if known by the VAL server |

Table 9.9.4.6-1: slice modification notify

|  |  |  |
| --- | --- | --- |
| Information element | Status | Description |
| Slice identifier | M | The slice identifier (S-NSSAI, NSI ID or ENSI) which is expected or predicted to modify to extend slice availability to the target service area |

Table 9.13.3.3-1: Inter-PLMN slice modification notify

|  |  |  |
| --- | --- | --- |
| Information element | Status | Description |
| Slice identifier | M | The slice identifier (S-NSSAI, NSI ID or ENSI) which is used and/or modified to extend slice availability to the target service area |

**Question 1**: Based on SA2 LS reply (S2-2403703), the external applications is not aware of the NSI value. How the clauses highlighted above will be handled? (e.g. VAL server sending/receiving NSI ID or NSCE server correlating performance data based on NSI)

As per 23.435, clause 9.9:

Table 9.9.3.2-1: Application service continuity requirement request

|  |  |  |
| --- | --- | --- |
| Information element | Status | Description |
| Target Service Area | O | The target area can be represented as the geographical coordinates / set of waypoints outside the original service area, where the VAL application/ UE(s) is expected or predicted to move. |

Table 9.9.4.6-1: slice modification notify

|  |  |  |
| --- | --- | --- |
| Information element | Status | Description |
| Target Service Area | M | The target area can be represented as the edge service area (including the target DNN/DNAI) or the topological area (e.g. list of cells/TAs) for which the slice modification applies.  |

**Question 2**: What is the expected "Target Service Area" information? Is it geographical co-ordinates and/or Topological area (e.g. List of cells/Tas) only? Or does it also include target DNN/DNAI information as well?

# 2 Actions

**To SA6**

**ACTION:** CT3 kindly asks SA6 to answer the above questions and update the SA6 specifications, if necessary.

# 3 Dates of next TSG CT WG 3 meetings

CT3 Meeting calendar can be found at:

<https://www.3gpp.org/dynareport?code=Meetings-C3.htm>