3GPP TSG SA WG 1 Meeting 98e S1-221zzz

Electronic Meeting, 9-19 May 2022

**Title: [Draft] Reply LS on Issues Network Slice information delivery to a 3rd party**

**Response to: LS S6-220975**

**Release: Release 18**

**Work Item: FS\_NSCALE**

**Source: SA1**

**To: SA6**

**Cc: SA5**

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

**Attachments:** None

# 1 Overall description

SA1 thanks SA6 for their questions.

SA6 asked 2 questions:

Q1: Does SA1 consider that exposing of network slice information about slices which MNO is capable to provide, towards third-party (NSCE customer being the slice end customer) is implied in SA1 requirements?

The stage 1 requirement cited in the LS from SA6: "Based on operator policy, a 5G network shall provide suitable APIs to allow a trusted third-party to create, modify, and delete network slices used for the third-party." will be realized with functionality in stage 2.

The key word in this requirement is "suitable" which implies that the API enables the trusted third party to perform the operations listed. To the extent that creating and deleting slices is not *generic* - as slices and their capabilities differ - the requirement does imply that information concerning these differences is exposed.

Q2: If network slice information about existing slices needs to be exposed, what parameters (e.g. maximum Number of UEs) have been identified to be included in such exposure?

Stage 1 specifications do not include a comprehensive list of specific parameters and capabilities associated with slices. Other specifications, e.g. TS 23.501, GSMA N.116, etc. consider slice capabilities in detail beyond the scope of SA1 specifications. The following requirements pertain to the question and provide a partial answer to Q2.

|  |  |
| --- | --- |
| Description | 22.261, 6.1.1  Network slicing allows the operator to provide customised networks. For example, there can be different **requirements on functionality (e.g. priority, charging, policy control, security, and mobility)**, **differences in performance requirements (e.g. latency, mobility, availability, reliability and data rates)**, or they can serve only specific users (e.g. MPS users, Public Safety users, corporate customers, roamers, or hosting an MVNO). |
| Capacity | 22.261, 6.1.2.2  The 5G system shall enable the network operator to define a minimum available capacity for a network slice. Scaling of other network slices on the same network shall have no impact on the availability of the minimum capacity for that network slice.  The 5G system shall enable the network operator to define a maximum capacity for a network slice. |
| Policy control, functionality, performance | 22.261, 6.1.2.2  The 5G system shall enable the network operator to define a minimum available capacity for a network slice. Scaling of other network slices on the same network shall have no impact on the availability of the minimum capacity for that network slice. |
| Geographical availability | 22.261, 6.1.2.3  The 5G system shall support a mechanism to configure a specific geographic area in which a network slice is accessible, i.e. a UE shall be within the geographical area in order to access the network slice. |

All specifics of parameters and how these are exposed are not specified in stage 1 specifications.

# 2 Actions

**To 3GPP SA6**

**ACTION:** SA1 asks that SA6 take the answer provided above into account.

# 3 Dates of next TSG SA WG 1 meetings

SA1#99 (TBC) 22-26 August 2022 Goteborg, SE

SA1#100 7-11 November 2022 TBD, North America