**3GPP TSG-SA5 Meeting #139-eS5-215419**

e-meeting, 11 - 20 October 2021 (revision of xx-yyxxxx)

**Source: Ericsson**

**Title: New SID on network slice provisioning enhancement**

**Document for: Approval**

**Agenda Item: 6.2**

3GPP™ Work Item Description

Information on Work Items can be found at <http://www.3gpp.org/Work-Items>
See also the [3GPP Working Procedures](http://www.3gpp.org/specifications-groups/working-procedures), article 39 and the TSG Working Methods in [3GPP TR 21.900](http://www.3gpp.org/ftp/Specs/html-info/21900.htm)

Title: Study on Enhancement of network slice provisioning

Acronym: FS\_NESPROE

Unique identifier:

{A number to be provided by MCC at the plenary}

Potential target Release: Rel-18

# 1 Impacts

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Affects: | UICC apps | ME | AN | CN | Others (specify) |
| Yes |  |  | X | X |  |
| No |  | X |  |  |  |
| Don't know | X |  |  |  | X |

# 2 Classification of the Work Item and linked work items

## 2.1 Primary classification

### This work item is a

|  |  |
| --- | --- |
|  | Feature |
|  | Building Block |
|  | *Work Task* |
| X | Study Item |

## 2.2 Parent Work Item

### 2.3 Other related Work Items and dependencies

{List here other Work Items which relate to the proposed one, such as a Work Item in an earlier Release if further enhancing the feature from the previous Release)}

|  |
| --- |
| Other related Work /Study Items (if any) |
| Unique ID | Title | Nature of relationship |
| eNETSLICE\_PRO | Network slice provisioning enhancement | If agreed??? |
| 810027 | Intent driven management service for mobile networks | Rel-17 WI. |

# 3 Justification

### Profile Extensibility

TS 28.541 has specified profile datatypes with a standard set of attributes that can be used to express input requirements from a consumer. But implementations may want to support additional types of requirements on top of those currently included in the standard. While extensions themselves are out of scope for standardization, it may be beneficial to study whether standardised mechanisms for discovery and provisioning can be used.

### Intent-driven Management of Network Slicing

Already today network slice management shares some basic ideas with intent-driven management. The requirements provided via profile as input to slice or slice subnet allocation can be compared with intent expectations. The producer in turn decides if and how the requirements can be met. Thus, it can be of interest to study if intent is possible and beneficial to use for slice management use cases.

# 4 Objective

The objective of this study is to study:

1. Describe potential use cases, requirements and solutions for methods that allow service and slice profiles to be extended with proprietary data using standardised mechanisms.
2. Describe potential use cases, requirements, and solutions for applying intent for network slice management.

# 5 Expected Output and Time scale

|  |
| --- |
| New specifications {One line per specification. Create/delete lines as needed} |
| Type  | TS/TR number | Title | For info at TSG#  | For approval at TSG# | Rapporteur |
| Internal TR | XXX | Study on network slice provisioning enhancement | SA#95 (Mar 2022) | SA#97 (Sep 2022) | Ericsson |

|  |
| --- |
| Impacted existing TS/TR {One line per specification. Create/delete lines as needed} |
| TS/TR No. | Description of change  | Target completion plenary# | Remarks |
|  |  |  |  |
|  |  |  |  |

# 6 Work item Rapporteur(s)

Robert Petersen, Ericsson, robert.petersen@ericsson.com

# 7 Work item leadership

SA WG5

# 8 Aspects that involve other WGs

None identified yet

# 9 Supporting Individual Members

|  |
| --- |
| Supporting IM name |
| Ericsson |
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