**3GPP TSG-CT Meeting #96CP-221321**

**Budapest, Hungary, 05th – 06th June 2022**

(revision of CP-221186)

**Source: 3GPP TSG CT WG6**

**Title: Study on new UICC application for NSSAA**

**Document for: Approval**

**Agenda Item: 18.2**

3GPP™ Work Item Description

For guidance, see [3GPP Working Procedures](http://www.3gpp.org/About/WP.htm), article 39; and [3GPP TR 21.900](http://www.3gpp.org/ftp/Specs/html-info/21900.htm).  
Comprehensive instructions can be found at <http://www.3gpp.org/Work-Items>

# Title: Study on new UICC application for NSSA

## Acronym: FS\_NS\_Slice-USIM

## Unique identifier: 960005

## 1 3GPP Work Area

|  |  |
| --- | --- |
|  | **Radio Access** |
| **x** | **Core Network** |
|  | **Services** |

## 2 Classification of WI and linked work items

### 2.0 Primary classification

This work item is a …

|  |  |
| --- | --- |
| **x** | Study Item (go to 2.1) |
|  | Feature (go to 2.2) |
|  | Building Block (go to 2.3) |
|  | Work Task (go to 2.4) |

### 2.1 Study Item

|  |  |  |
| --- | --- | --- |
| Related Work Item(s) (if any] | | |
| Unique ID | Title | Nature of relationship |
| 830103 | Enhancement of Network Slicing | Introduction of Security procedures for network slices |

Go to §3.

### 2.2 Feature

|  |  |  |
| --- | --- | --- |
| Related Study Item or Feature (if any) | | |
| Unique ID | Title | Nature of relationship |
|  |  |  |

Go to §3.

### 2.3 Building Block

|  |  |  |
| --- | --- | --- |
| Parent Feature (or Study Item) | | |
| Unique ID | Title | TS |
|  |  |  |

This work item is …

|  |  |
| --- | --- |
|  | Stage 1 (go to 2.3.1) |
|  | Stage 2 (go to 2.3.2) |
| **x** | Stage 3 (go to 2.3.3) |
|  | Test spec (go to 2.3.4) |
|  | Other (go to 2.3.5) |

#### 2.3.1 Stage 1

|  |  |  |
| --- | --- | --- |
| Source of external requirements (if any) | | |
| Organization | Document | Remarks |
|  |  |  |

Go to §3.

#### 2.3.2 Stage 2

|  |  |  |
| --- | --- | --- |
| Corresponding stage 1 work item | | |
| Unique ID | Title | TS |
|  |  |  |

|  |  |  |
| --- | --- | --- |
| Other source of stage 1 information | | |
| TS or CR(s) | Clause | Remarks |
|  |  |  |

**If no identified source of stage 1 information, justify:**

Go to §3.

#### 2.3.3 Stage 3

|  |  |  |
| --- | --- | --- |
| Corresponding stage 2 work item (if any) | | |
| Unique ID | Title | TS |
|  |  |  |

|  |  |  |
| --- | --- | --- |
| Else, corresponding stage 1 work item | | |
| Unique ID | Title | TS |
|  |  |  |

|  |  |  |
| --- | --- | --- |
| Other justification | | |
| TS or CR(s) or external document | Clause | Remarks |
|  |  |  |

**If no identified source of stage 2 information, justify:**

Go to §3.

#### 2.3.4 Test spec

|  |  |  |
| --- | --- | --- |
| Related Work Item(s) | | |
| Unique ID | Title | TS |
|  |  |  |

Go to §3.

#### 2.3.5 Other

|  |  |  |  |
| --- | --- | --- | --- |
| Related Work Item(s) | | | |
| Unique ID | Title | Nature of relationship | TS / TR |
|  |  |  |  |

Go to §3.

### 2.4 Work task

|  |  |  |
| --- | --- | --- |
| Parent Building Block | | |
| Unique ID | Title | TS |
|  |  |  |

## 3 Justification

SA3 has finalized their security requirements on network slice-specific authentication and authorization (NSSAA) in 3GPP TS 33.501 clause 16 introduced in Release 16.

Among these requirements, there are few with potential UICC impact and hence need CT6's attention.

## 4 Objective

The aim of this work is to study the aspects for any potential enhancements on the UICC to be developed by CT6 based on the outcome of 3GPP TS 33.501. This work does not include selecting or standardizing any specific EAP method or associated EAP credential types for NSSAA.

For each of the objectives in the scope of the CT6 study, the UICC aspects that are to be covered in this study are as follows:

* Enhancements to support network slice-specific authentication and authorization using the UICC
  + Study potential solutions for slice-specific authentication using new specific UICC application
  + Study information the UICC application for NSSAA needs to contain
  + Study information needed by the ME to select the correct UICC application used for NSSAA, in the case where multiple such UICC applications are available on the UICC. This information will not include UICC application selection based on a specific EAP method or EAP credentials.
  + Study the interface that the new UICC application should feature in order to support NSSAA

Note: The study item in CT6 will not cover any security-related aspects within SA3’s remit.

## 5 Service Aspects

## 6 MMI-Aspects

## 7 Charging Aspects

## 8 Security Aspects

## 9 Impacts

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Affects:** | UICC apps | ME | AN | CN | Others |
| **Yes** | x | x |  |  |  |
| **No** |  |  | x | x | x |
| **Don't know** |  |  |  |  |  |

## 10 Expected Output and Time scale

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| New specifications [If Study Item, one TR is anticipated] | | | | | | |
| Spec No. | Title | 1st rsp. WG | 2nd rsp. WG(s) | Presented for information at plenary# | Approved at plenary # | Comments |
| 31.xxx | Study on new UICC application for NSSA | COLLET, Hervé, Thales, [herve.collet@thalesgroup.com](mailto:herve.collet@thalesgroup.com) |  | CT#100 | CT#101 |  |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Affected existing specifications [None in the case of Study Items] | | | | |
| Spec No. | CR | Subject of the CR | Approved at plenary# | Comments |
|  |  |  |  |  |

## 11 Work item rapporteur(s)

COLLET, Hervé, Thales, [herve.collet@thalesgroup.com](mailto:herve.collet@thalesgroup.com)

## 12 Work item leadership

CT6

## 13 Supporting Individual Members

|  |
| --- |
| Supporting IM name |
| Thales |
| G+D |
| IDEMIA |
| STMicroelectronics International |
| Valid |
| SK TELECOM |
| Telecom Italia S.p.A. |
| Vodafone |