**3GPP TSG-CT WG4 Meeting #125C4-244323**

**Hefei, China; 14th – 18th October 2024** **(revision of C4-244312)**

**Source: Samsung**

**Title:** **New WID on Reducing Information Exposure over SBI**

**Document for: Approval**

**Agenda Item: 19.2.1**

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: Reducing Information Exposure over SBI

Acronym: RedInfExp\_SBI

Unique identifier: TBD

Potential target Release: Rel-19

# 1 Impacts

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

# 2 Classification of the Work Item and linked work items

## 2.1 Primary classification

### This work item is a …

|  |  |
| --- | --- |
|  | Study  |
|  | Normative – Stage 1 |
|  | Normative – Stage 2 |
| X | Normative – Stage 3 |
|  | Normative – Other\* |

**\* Other = e.g. testing**

## 2.2 Parent Work Item

|  |
| --- |
| Parent Work / Study Items  |
| Acronym | Working Group | Unique ID | Title (as in 3GPP Work Plan) |
| N/A | N/A | N/A | N/A |

### 2.3 Other related Work Items and dependencies

|  |
| --- |
| Other related Work /Study Items (if any) |
| Unique ID | Title | Nature of relationship |
| 1000001 | Study on Reducing Information Exposure over SBI | CT4 study on Reducing Information Exposure over SBI  |

# 3 Justification

An excessive data exposure allows a compromised NF trigger attacks on other network functions. APIs defined by SBI currently does not limit the amount of information exposed to different NF-Service Consumers. Therefore, there should be a mechanism to strike a balance between data exposure aspects and efficiency/performance between the NFs.

Against this background, CP#100 has approved a SID to study on Reducing Information Exposure over SBI (FS\_RedInfExp\_SBI), please see CP-231350. In this SID, the following three key issues are studied:

* Key Issue #1: Excessive Data Exposure over SBI;
* Key Issue #2: Access to dis-allowed Data;
* Key Issue #3: Access to dis-allowed Resource Segments Access to dis-allowed Resource Segments ;

Based on various discussions in CT4, now the SID has reached completion. Conclusions for all of the 3 key issues have been agreed. As documented in TR 29.857, only KI#1 & 3 have normative impacts.

Considering the progress of the SID, a WID on Reducing Information Exposure over SBI is needed.

# 4 Objective

The aim of this work item is to specify the solutions that concluded to be standardized in TR 29.857 Clause 8 Conclusions.

Stage 3 objectives:

CT4:

* Changes to NRF APIs to allow NF-Producers register resource content filter definitions into NRF.
* Changes to NRF APIs to allow inclusion of resource content filter IDs in access-tokens and is applicable to case 1b of clause 13.4.1.1.2 of TS 33.501.
* Inclusion of one or more filters specifying information to be excluded in the resource retrieval requests by NF-Consumers
* Extending xxxInfo attributes with service scenario indication, wherever applicable

# 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 |
|  |  |  |  |  |  |
|  |  |  |  |  |  |

|  |
| --- |
| Impacted existing TS/TR {One line per specification. Create/delete lines as needed} |
| TS/TR No. | Description of change  | Target completion plenary# | Remarks |
| 29.510 | * Changes to NRF APIs to allow NF-Producers register resource content filter definitions into NRF.
* Changes to NRF APIs to allow inclusion of resource content filter IDs in access-tokens.
* Extending xxxInfo attributes with service scenario indication, wherever applicable
 | TSG#110 (Dec. 2025) | CT4 responsibility (stage 3) |
| 29.500 | * Inclusion of one or more filter specifying information to be excluded in the resource retrieval requests by NF-Consumers
 | TSG#110 (Dec. 2025) | CT4 responsibility (stage 3) |

# 6 Work item Rapporteur(s)

Nivedya P S, Samsung, nivedya.ps@samsung.com

# 7 Work item leadership

CT4

# 8 Aspects that involve other WGs

# 9 Supporting Individual Members

|  |
| --- |
| Supporting IM name |
| Samsung |
| Nokia |
|  |
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