**3GPP SA WG2 Meeting #152E S2-2206455r02**

**Electronic meeting, 17 – 26 August 2022 (Revision of S2-220xxxx)**

**Source: China Mobile**

**Title: New WID: UPF enhancement for Exposure and SBA**

**Document for: Approval**

**Agenda Item: 10.3**

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: UPF enhancement for Exposure and SBA

Acronym: UPEAS

Unique identifier: *{A number to be provided by MCC at the plenary}*

Potential target Release: *Rel-18*

# 1 Impacts

{For Normative work, identify the anticipated impacts. For a Study, identify the scope of the study}

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

# 2 Classification of the Work Item and linked work items

## 2.1 Primary classification

### This work item is a …

{Tick one box. "**Feature** / **Building Block** / Work Task" form a hierarchical structure. E.g. no Building Block can be proposed without a corresponding parent Feature. The full structure of all existing Work Items is shown in the 3GPP Work Plan in ftp://ftp.3gpp.org/Information/WORK\_PLAN}

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

### 2.2 Parent Work Item

|  |
| --- |
| Parent Work / Study Items  |
| Acronym | Working Group | Unique ID | Title (as in 3GPP Work Plan) |
| FS\_UPEAS | SA2 | 940076 | Study on UPF enhancement for Exposure and SBA |

### 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 Items (if any) |
| Unique ID | Title | Nature of relationship |
| 790007 | Study on Enhancements to the Service-Based 5G System Architecture(Release 16) | Study of extending SBA to user plane but without standardization |
|  |  |  |
|  |  |  |

# 3 Justification

This work item aims at specifying system enhancements to support UPF enhancement for event exposure and SBA. The solutions to support this feature has been studied and documented in TR 23.700-62.

It is proposed to convert the conclusions reached within TR 23.700-62 into normative text to TS 23.501, TS 23.502, TS 23.503.

# 4 Objective

The objective of this work item is to define the normative specifications of the solutions to enhance 5GS as per conclusions reached within TR 23.700-62 for the following aspects:

- Enhancement in 5GC system to support UPF event exposure service registration and discovery in NRF per conclusion in clause 8.1.

- Enhancement in 5GC system to support UPF expose information to other NFs i.e. NWDAF, AF/NEF per conclusion in clause 8.2.

# 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** |
| 23.501 | Architectural enhancements to support the stated objectives | SA#99 (March 2023) |  |
| 23.502 | Procedural enhancements to support the stated objectives | SA#99 (March 2023) |  |
| 23.503 | Procedural enhancements to support the stated objectives | SA#99 (March 2023) |  |
|  |  |  |  |

# 6 Work item Rapporteur(s)

Yan Han, China Mobile, hanyan@chinamobile.com

# 7 Work item leadership

SA2

# 8 Aspects that involve other WGs

# 9 Supporting Individual Members

|  |
| --- |
| Supporting IM name |
| China Mobile |
| AT&T |
| CATT |
| Deutsche Telekom |
| Sandvine |
| SK Telecom |
| Tencent |
| Vodafone |
| MATRIXX Software |
| Charter Communications |
| Verizon UK Ltd |
| Intel |
| KDDI |
| Samsung |
| Orange |
| Oracle |
| Siemens |
| Sennheiser |
| DISH Network |
| Telstra |
| TELUS |
| Microsoft |