**3GPP TSG-SA5 Meeting #155 *S5-243012***

**Jeju, South Korea, 27 - 31 May 2024** **(revision of xx-yyxxxx)**

**Source: Ericsson LM**

**Title: New SID on charging aspects for application functions**

**Document for: Agreement**

**Agenda Item: 7.2**

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 charging aspects for application functions

Acronym: FS\_AFCH

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 |  |  |  |  |  |

# 2 Classification of the Work Item and linked work items

## 2.1 Primary classification

### This work item is a …

|  |  |
| --- | --- |
| X | Study |
|  | Normative – Stage 1 |
|  | Normative – Stage 2 |
|  | 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 |  |  |  |

### 2.3 Other related Work Items and dependencies

|  |  |  |
| --- | --- | --- |
| Other related Work /Study Items (if any) | | |
| Unique ID | Title | Nature of relationship |
| N/A |  |  |

# 3 Justification

3GPP SA5 has specified charging using service-based interface for Network Functions (NFs) pertaining to the 5G system.

The TS 32.254 specifies charging related to network exposure, and charging relies on the NEF as CTF and the AF as a consumer to the NEF provided services. The consumer of the NEF provider can be generic AFs (i.e., and AF that can be used for any type of application) as specified in TS 23.501, or dedicated AFs (i.e., an AF that have one specific application) like as specified in TS 32.282.

The TS 23.501 describes a generic application function (AF) which may provide three services (i.e., Naf\_EventExposure, Naf\_ProSe, and Naf\_Authentication). The TS 32.282 specifies charging related to time synchronised network and one of the charging consumers (CTF) is a dedicated AF i.e., the TSN AF.

This means that charging for services provided by the AF is specified for some dedicated AF, while not for generic AF, this applies to both untrusted (third party) and trusted AF.

# 4 Objective

The objective of this study item is to identify how charging can be handled for application functions. The study should also find solutions that would fit both untrusted (third party) and trusted AF as well as considering both dedicated and generic types of AF.

Study the charging scenarios.

# 5 Expected Output and Time scale

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| New specifications | | | | | |
| Type | TS/TR number | Title | For info  at TSG# | For approval at TSG# | Rapporteur |
| TR | 28.xxx | Study on charging aspects for application functions | TSG SA#105 (Sep 2024) | TSG SA#106 (Dec 2024) |  |

|  |  |  |  |
| --- | --- | --- | --- |
| Impacted existing TS/TR | | | |
| TS/TR No. | Description of change | Target completion plenary# | Remarks |
|  |  |  |  |

# 6 Work item Rapporteur(s)

# 7 Work item leadership

SA5

# 8 Aspects that involve other WGs

# 9 Supporting Individual Members

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