**3GPP TSG-SA5 Meeting #148e *S5-233364***

**Electronic meeting, Online, 17 -25 April 2023** **(revision of xx-yyxxxx)**

**Source: China Mobile**

**Title: New WID on Charging Aspects of IMS Data Channel**

**Document for: Approval**

**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: New WID on Charging Aspects of IMS Data Channel

Acronym:IDC\_CH

Unique identifier:

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 |  |  |
| 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 |
| X | Normative – Stage 2 |
| X | Normative – Stage 3 |
|  | Normative – Other\* |

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

## 2.2 Parent Work Item

For a brand-new topic, use “N/A” in the table below. Otherwise indicate the parent Work Item.

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

### 2.3 Other related Work Items and dependencies

|  |
| --- |
| Other related Work /Study Items (if any) |
| Unique ID | Title | Nature of relationship |
| 920036 | Evolution of IMS Multimedia Telephony Service | Work Item of Stage 1 requirements |
| 940066 | Study on system architecture for next generation real time communication services | Study Item of Stage 2 architecture and procedures |
| 970014 | System architecture for Next Generation Real time Communication services | Work Item of Stage 2 architecture and procedures |

# 3 Justification

In Rel-18, the enhancement of IMS network to support data channel has been studied in TR 23.700-87, and the related architecture, interfaces and procedures have been specified in TS 23.228 in SA2 to support next generation real time communication services.

To support next generation real time communication services in Rel-18, impacts on charging aspects under SA5's responsibility are foreseen (e.g. duration based charging for IMS data channel, volume based charging for IMS data channel) and the related work should be considered within Rel-18.

# 4 Objective

The objective of the work item is to specify the following charging aspects for IMS data channel of next generation real time communication services:

- Charging principles and potential enhancements to IMS charging to support duration based charging for IMS data channel, including charging procedures during IMS Data Channel establishment, update and release.

- Potential enhancements to 5GC charging to support volume based charging for IMS data channel, considering QoS handling of IMS data channel, as well as the identifiers of caller and callee of IMS data channel services.

- Potential enhancements to charging information and CDRs.

# 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 |
| 32.260 | Add IMS charging principle and procedure for charging for IMS data channel | TSG#102(Dec. 2023) |  |
| 32.255 | Update SMF charging to support charging for IMS data channel | TSG#102(Dec. 2023) |  |
| 32.291 | Update Nchf\_ConvergedCharging service API to support charging for IMS data channel | TSG#103(Mar. 2024) |  |
| 32.298 | Update CDR(s) definition and ASN.1 to support charging for IMS data channel | TSG#103(Mar. 2024) |  |

# 6 Work item Rapporteur(s)

Chen, Ai, China Mobile, chenai at chinamobile dot com

# 7 Work item leadership

SA5

# 8 Aspects that involve other WGs

None

# 9 Supporting Individual Members

|  |
| --- |
| Supporting IM name |
| China Mobile |
| CATT |
| HiSilicon |
| Huawei |
| MATRIXX Software |
| ZTE |
|  |
|  |