**3GPP TSG-SA5 Meeting #140-e *S5-216139rev1***

e-meeting, 15 - 24 November 2021 (revision of xx-yyxxxx)

**Source: Huawei**

**Title: New work item on charging enhancements for 5GS CIoT**

**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: Work item on charging enhancements for 5GS CIoT

Acronym: CH5GCIoT

Unique identifier: TBD

Potential target Release: Rel-17

# 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 |  |  |  |  |  |

# 2 Classification of the Work Item and linked work items

## 2.1 Primary classification

### This work item is a Feature

|  |  |
| --- | --- |
| 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\_5G\_CIoT\_CH | SA5 | 890021 | Study on charging aspects of 5GS CIoT |

### 2.3 Other related Work Items and dependencies

|  |
| --- |
| Other related Work /Study Items (if any) |
| Unique ID | Title | Nature of relationship |
|  |  | {optional free text}  |

Dependency on non-3GPP (draft) specification:

# 3 Justification

The TR 28.816 provides the investigation on charging enhancement for 5GS CIoT which are based the system aspect described in TS 23.501 and TS 23.502. Multiple charging aspects for 5GS CIoT and potential solutions are also described in TR 28.816.

The conclusions and recommendation part considered a shorten list of recommendations of normative work, before the end of release 17.

This WID of charging enhancements for 5GS CIoT proposes to specify the enhancements of charging aspect of 5G data connectivity domain charging.

# 4 Objective

The work item will provide the charging enhancements of 5G data connectivity domain charging for 5GS CIoT including:

* The charging information for SMF and CHF related to 5GS CIoT in TS 32.255 and TS 32.291.
* Update procedures for 5GS CIoT based on those in TS 32.255.
* Update and include new information elements in CDR in TS 32.298.

# 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 |
| 32.255 | The enhancements for SMF and CHF for 5GS CIoTThe charging information, charging procedure updates for 5GS CIoT. | TSG#95 |  |
| 32.291 | Describe charging information for 5GS CIoT. | TSG#96 |  |
| 32.298 | Include new information elements in CDR | TSG#96 |  |

# 6 Work item Rapporteur(s)

Zhu, Lei, Huawei, *Lei.zhu@huawei.com*

# 7 Work item leadership

SA5

# 8 Aspects that involve other WGs

SA2

# 9 Supporting Individual Members

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| --- |
| Supporting IM name |
| Huawei |
| HiSilicon |
|  |
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