**3GPP TSG-SA Meeting #104 *SP-241001***

Shanghai, China, 18 - 21 June 2024 (revision of SP-240701)

**Source: SA WG5**

**Title: New WID on CHF Segmentation**

**Document for: Approval**

**Agenda Item: 6.2.5**

**3GPP TSG-SA5 Meeting #154 *S5-241826***

**Changsha, China, 15 - 19 April 2024**

**Source: Nokia**

**Title: New WID on CHF Segmentation**

**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: CHF Segmentation

Acronym: CHFSeg

Unique identifier: 1040012

Potential target Release: Rel-19

# 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) |
| FS\_CHFSEG | SA5 | 980026 | Study on CHF Segmentation |

### 2.3 Other related Work Items and dependencies

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

**Dependency on non-3GPP (draft) specification: None**

# 3 Justification

SA5 has studied the potential use cases, requirements, and solutions for the enhancements of CHF discovery and selection in TR 28.840, which identified, potential charging scenarios and requirements, it has developed and evaluated the potential solutions for the charging aspects supporting such cases, which will increase the flexibility of CHF Discovery and Selection. The following cases are considered:

* CHF Selection by NF Consumers Information;
* CHF Selection based on SUPI or CHF Group ID;
* CHF Selection by a Tenant or Application;
* CHF Discovery by Charging Domains

It’s required normative work in order to make visible the solutions identified for CHF Discovery and selection enhancements in Rel-19.

# 4 Objective

The objective of this work item is to specify the requirements and solutions for CHF Discovery and Selection. Specifically, the areas of work for SA5 include:

* **WT-1:** CHF Selection by NF Consumers Information;
	+ CHF selection based on location
	+ Using NRF locality information
* **WT-2:** CHF Selection based on SUPI or CHF Group ID ;
	+ CHF selection based on user group
* **WT-3:** CHF Selection by a Tenant or Application
	+ CHF selection based on S-NSSAI
	+ CHF selection based on S-NSSAI and SUPI
* **WT-4:** CHF Discovery by Charging Domains
	+ Use Supported Features in HTTP Custom Header and in Nchf

This work will be based on the corresponding conclusions documented in TR 28.840.

## TU estimates and dependencies

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Work Task ID** | **TU Estimate****(Study)** | **TU Estimate****(Normative)** | **RAN Dependency****(Yes/No/Maybe)**  | **SA Dependency****(Yes/No/Maybe)** | **Non-3GPP Dependency** |
| WT-1 | 0 | 1 | No | No | No |
| WT-2 | 0 | 1 | No | Maybe | No |
| WT-3 | 0 | 1 | No | Maybe | No |
| WT-4 | 0 | 1 | No | No | No |

**Total TU estimates for the normative phase: 4**

**Total TU estimates: 4**

# 5 Expected Output and Time scale

|  |
| --- |
| Impacted existing TS/TR {One line per specification. Create/delete lines as needed} |
| TS/TR No. | Description of change  | Target completion plenary# | Remarks |
| TS 32.290 | Update CHF Discovery and Selection (e.g. using NRF locality, selection based on location) | TSG SA#106(Dec 2024) |  |
| TS 32.291 | Enhance Supported Features to include charging domains | TSG SA#107(Mar 2025) |  |

# 6 Work item Rapporteur(s)

Cetinkaya Egemen Kemal,Verizon (egemen.cetinkaya@verizon.com)

# 7 Work item leadership

SA5

# 8 Aspects that involve other WGs

Not identified yet.

# 9 Supporting Individual Members

|  |
| --- |
| Supporting IM name |
| Nokia |
| Amdocs |
| AT&T |
| Verizon |
| Huawei |
| DISH Networks |
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