**3GPP TSG-SA5 Meeting #155 *S5-243011***

**Jeju, South Korea, 27 - 31 May 2024** **(revision of S5-242785)**

**Source: Ericsson LM**

**Title: New WID on charging enhancement for indirect network sharing**

**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: Charging enhancement for indirect network sharing

Acronym: NetShare\_CH

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

|  |  |
| --- | --- |
|  | Study |
|  | Normative – Stage 1 |
| X | Normative – Stage 2 |
|  | 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) |
| TEI19\_NetShare | SA2 | 1030011 | Indirect Network Sharing |

### 2.3 Other related Work Items and dependencies

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

# 3 Justification

The stage 1 requirements of Indirect Network Sharing have been documented in TS 22.261 to support NG-RAN sharing without a direct connection between the shared NG-RAN and the participating operator’s core network. The stage 2 the necessary architectural and functional enhancements on 5GC will be documented in TS 23.501 and TS 23.502. There is currently no description of how interconnect charging for indirect network sharing can be supported.

# 4 Objective

The objective of this work item is to describe how interconnect charging can be performed for indirect network sharing, with minimum impact on charging specifications.

- WT-1: adding description of interconnect charging for indirect network sharing

## 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  (Yes/No/Maybe) |
| WT-1 | 0 | 1 | No | No | No |

Total TU estimates for the study phase: 0

Total TU estimates for the normative phase: 1

Total TU estimates: 1

# 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 |
| 32.240 | Description of Indirect Network Sharing | TSG SA#106 (Dec 2024) |  |
| 32.255 | Description of Indirect Network Sharing | TSG SA#106 (Dec 2024) |  |
| 32.256 | Description of Indirect Network Sharing | TSG SA#106 (Dec 2024) |  |

# 6 Work item Rapporteur(s)

# 7 Work item leadership

SA5

# 8 Aspects that involve other WGs

None identified yet.

# 9 Supporting Individual Members

|  |
| --- |
| Supporting IM name |
| Ericsson LM |
| China Mobile |
| MATRIXX |
| Huawei |
|  |