**3GPP TSG-SA5 Meeting #154 *S5-241742***

Changsha, China, 15 - 19 April 2024 (revision of S5-241742)

**Source: Ericsson AB**

**Title: New WID on charging enhancements 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: CHNetShare

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 interconnect charging for indirect network sharing.

# 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.

## 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 | New description of indirect network charging | TSG SA#106 (Dec 2024) |  |
| 32.255 | Addtion indirect network charging architecture | 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 AB |
|  |
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