**3GPP TSG-SA5 Meeting #146Bis-e *S5-231047***

Electronic meeting, 16 - 19 January 2023

(revision of S5-231021 and S5-231047)

**Source: Huawei, Ericsson**

**Title: New WID on Enhancement of service based management architecture**

**Document for: Approval**

**Agenda Item: 6.2.2**

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: Enhancement of service based management architecture

Acronym: eSBMA

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 | X |  |
| No |  |  |  |  |  |
| Don't know |  |  |  |  |  |

# 2 Classification of the Work Item and linked work items

## 2.1 Primary classification

### This work item is a …

|  |  |
| --- | --- |
|  | Feature |
|  | Building Block |
| X | *Work Task* |
|  | Study Item |

## 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\_eSMBA | SA5 | 910031 | Study on Enhancement of service-based management architecture |

### 2.3 Other related Work Items and dependencies

{List here other Work Items which relate to the proposed one, such as a Work Item in an earlier Release if further enhancing the feature from the previous Release)}

|  |  |  |
| --- | --- | --- |
| Other related Work /Study Items (if any) | | |
| Unique ID | Title | Nature of relationship |
| 930009 | (NSA\_SBMA) Improved support for NSA in the service-based management architecture | Enhancement of service based management architecture |

# 3 Justification

In Rel-18 FS\_eSBMA study the following items have been concluded.

1. Scope of SBMA specifications

2. SBMA supporting management of 5G SA and NSA scenarios

3. SBMA supporting management architecture and frameworks in other SDOs

4. Use of Models in SBMA

5. Improvement on the management function description

6. Providing overview for SBMA series of specifications

Based on the output of the study, the group agreed that some improvement are needed to elaborate the usage of SBMA, including clarifying SBMA supporting management of 5G SA and NSA scenarios, add description on management of management functions, coordination enhancement on architecture to reflect the collaboration with other industry groups.

The study on Enhancement of service based management architecture in TR 28.925 has also provided the following recommendations:

* SBMA is using specifications that were made for the IRP architecture. Some of them are generic but only state IRP architecture as scope, while others are mixing information that are IRP info only with:
* SBMA info only, or
* info valid both in IRPs and in SBMA.
* Replace 28.622 (Generic Network Resource Model IRP) with a new 5G TS for SBMA, including stage 1, 2 and 3.
* Replace 28.662 (Generic RAN Network Resource Model IRP) with a new 5G TS for SBMA, including stage 1, 2 and 3.
* Propose a Work Item to include inventory NRM for SBMA.
* Replace 32.401 (PM; Concept and requirements) with a new 5G TS for SBMA.
* Update 32.404 (Performance measurements; Definitions and template) to include SBMA.

Further more, 32.300 Name convention for Managed Objects ought to be valid also in SBMA.

# 4 Objective

The objectives of this work item are:

1. Improvement on the existing TS 28.533 description of SBMA including:

(1) Improve the mechanisms description on how SBMA support the management of 5G SA and NSA scenarios.

(2) Improve the overview of SBMA series specifications based on Rel-18 work progress.

2. Specify the concept of management of Management Functions and the related references of MnSs which support management of corresponding Management Functions.

3. Address the architecture enhancement based on the collaboration with other industry groups (e.g GSMA OPG etc.).

4. To create new series of SBMA specifications for

(1) Specify “Generic Network Resource Model (NRM)” stage 1,2 and 3 for SBMA,

(2) Specify “Generic Radio Access Network (RAN) Network Resource Model (NRM)” stage 1,2 and 3 for SBMA,

(3) Specify “Inventory NRM” stage 1,2 and 3 for SBMA,

(4) Specify “Performance Management (PM ); Concept and requirements” for SBMA.

5. Update TS 32.404 Performance measurements; Definitions and template to be valid for SBMA.

6. Update TS 32.300 Name convention for Managed Objects to be valid for SBMA.

# 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 |
| TS | 28.XXX | Generic Network Resource Model (NRM) stage 1,2 and 3 for SBMA | TSG SA#101  (Sep.2023) | TSG SA#102  (Dec.2023) | Mark Scott, Ericsson, mark.scott@ericsson.com. |
| TS | 28.XXX | Generic Radio Access Network (RAN) Network Resource Model (NRM) stage 1,2 and 3 for SBMA | TSG SA#101  (Sep.2023) | TSG SA#102  (Dec.2023) | Mark Scott, Ericsson, mark.scott@ericsson.com. |
| TS | 28.XXX | Inventory NRM stage 1,2 and 3 for SBMA | TSG SA#101  (Sep.2023) | TSG SA#102  (Dec.2023) | Robert Petersen, Ericsson, robert.petersen@ericsson.com |
| TS | 28.XXX | Performance Management (PM); Concept and requirements | TSG SA#101  (Sep.2023) | TSG SA#102  (Dec.2023) | Bagher Zadeh, Ericsson, bagher.zadeh@ericssson.com |

|  |  |  |  |
| --- | --- | --- | --- |
| Impacted existing TS/TR {One line per specification. Create/delete lines as needed} | | | |
| TS/TR No. | Description of change | Target completion plenary# | Remarks |
| TS 28.533 | Enhancement of service based management architecture | TSG#102 (Dec.2023) |  |
| TS 32.404 | Update TS 32.404 Performance measurements; Definitions and template to be valid for SBMA. | TSG#102 (Dec.2023) |  |
| TS 32.300 | Update TS 32.300 Name convention for Managed Objects to be valid for SBMA. | TSG#102 (Dec.2023) |  |

# 6 Work item Rapporteur(s)

Lan Zou, Huawei, zoulan@huawei.com, (responsible for studying objective 1, 2 and 3): primary Rapporteur

Petersen, Robert, Ericsson, [robert.petersen@ericsson.com](mailto:robert.petersen@ericsson.com), (responsible for studying objective 4,5 and 6)

# 7 Work item leadership

SA5

# 8 Aspects that involve other WGs

None.

# 9 Supporting Individual Members

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| --- |
| Supporting IM name |
| Huawei |
| Ericsson |
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