**3GPP TSG-SA5 Meeting #146Bis-e *S5-231024***

Electronic meeting, 16 - 19 January 2023

 (revision of xx-yyxxxx)

**Source: Nokia, Nokia Shanghai Bell**

**Title: New WID on SBMA enablers**

**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: SBMA enablers

Acronym: SBMAe

Unique identifier:

Potential target Release: Rel-18

# 1 Impacts

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 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.

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| --- |
| Parent Work / Study Items  |
| Acronym | Working Group | Unique ID | Title (as in 3GPP Work Plan) |
| FS\_eSBMAe | SA5 | 950027 | Study on basic Service-Based Management Architecture (SBMA) enabler enhancements |

### 2.3 Other related Work Items and dependencies

None.

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# 3 Justification

TR 28.831 " Study on basic Service-Based Management Architecture (SBMA) enabler enhancements" discusses numerous enhancements for SBMA enabler enhancements and concludes with concrete recommendations. The purpose of this WI is to implement these recommendations into normative specifications.

More specifically, the following issues shall be addressed:

TR 28.831, clause 4.2 proposes to add a node selection mechanism inspired by XPath. Uses cases include targeted notification subscriptions. TS 32.158 and TS 28.532 shall be updated accordingly. This work applies only to the HTTP/JSON SS.

TR 28.831, clause 4.3 proposes an update to the stage 2 definition of "createMOI". TS 28.532 shall be updated accordingly.

TR 28.831, clause 4.4 proposes an update to the stage 2 definition of "modifyMOIAttributes". TS 28.532 shall be updated accordingly.

*Editor's note (to be removed in the final version, just provided here for information on potential WID updates)*

*TR 28.831, clause 4.x1 proposes to add a stage 2 operation allowing to add, delete and update multiple objects with a single request". TS 28.532 shall be updated accordingly. This is re-engineering existing stage 3 capabilities (defined in both the HTTP/JSON SS and the NETCONF/YANG SS) into stage 2 only. New stage 3 capabilities are not added.*

*Note 1: TR 28.831, clause 4.x1 will be proposed at SA5#147.*

*TR 28.831, clause 4.x2 proposes to add a stage 3 definitions for HTTP error responses. TS 32.158 and TS 28.532 shall be updated accordingly. This work applies only to the HTTP/JSON SS.*

*Note: TR 28.831, clause 4.x 2will be proposed at SA5#147.*

*TR 28.831, clause 4.x3 proposes to add capability allowing a MnS producer to advertise supported NRMs and supported features of these NRMs, like which IOC is supported or which attribute. TS 28.532 shall be updated accordingly. Note: TR 28.831, clause 4.x3 will be proposed at SA5#147.*

*TR 28.831, clause 4.x4 proposes to add capability identifiers in the REST SS for features of the ProvMnS. A consumer can obtain these capability identifiers to know what a specific ProvMnS supports. An example of a capability identifier is for example indicating if HTTP Patch is supported or not. This work applies only to the HTTP/JSON SS. Note: TR 28.831, clause 4.x4 will be proposed at SA5#147.*

*Alarm management is specified in TS 28.532, TS 28.622/3 and 28.545. In addition, an RPC style and a CRUD based alarm management is defined. The RPC-style shall be deprecated. The remaining definitions shall be consolidated all in a new TS.*

# 4 Objective

The objectives are:

* for targeted notification subsciptions
* Update stage 2 definitions of the Prov MnS
* Add HTTP error response formats
* Add the capability allowing a MnS producer to advertise supported NRMs and supported features of these NRMs.
* Add Prov MnS capability identifiers
* Consolidate all alarm related definitions into one new TS

# 5 Expected Output and Time scale

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| --- |
| 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 |  | Alarm management | TSG#101 (Sep 2023) | TSG#102 (Dec 2023) | Olaf Pollakowski |

|  |
| --- |
| Impacted existing TS/TR {One line per specification. Create/delete lines as needed} |
| TS/TR No. | Description of change  | Target completion plenary# | Remarks |
| TS 28.532 | Update stage 2 definitions of the Prov MnS | TSG#102 (Dec 2023) |  |
| TS 28.158 | Add node selection mechanism (inspired by XPath) | TSG#102 (Dec 2023) |  |
| TS 28.532 | Add node selection mechanism (inspired by XPath) | TSG#102 (Dec 2023) |  |
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# 6 Work item Rapporteur(s)

Pollakowski, Olaf, Nokia, olaf.pollakowski@nokia.com

# 7 Work item leadership

SA5

# 8 Aspects that involve other WGs

None.

# 9 Supporting Individual Members

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| --- |
| Supporting IM name |
| Nokia |
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