**3GPP TSG-SA5 Meeting #154 *S5-* *242147d1***

Changsa, CN, 15-19 April 2024

**Source: Ericsson India Private Limited**

**Title: DP Correct Stage 3 YAML isWritable and is isReadable attribute properties**

**Document for: Endorsement**

**Agenda Item: 6.3.1 - Methodology**

# 1 Decision/action requested

***The group to discuss and endorse the proposal.***

# 2 References

[1] 3GPP TR 32.160 “Management and orchestration; Management service template”.

[2] 3GPP TR 28.541 “Management and orchestration; 5G Network Resource Model (NRM); Stage 2 and stage 3”.

# 3 Rationale

SA5 specifications allows the definition of attribute properties "isReadable" and "isWritable" as specified in [1] for defining valid interactions of managers and agents.

For example, in [2], value true or false must be defined for attribute properties "isReadable" and "isWritable" for all Attributes.

### 6.3.11 MaxPktSize <<dataType>>

#### 6.3.11.1 Definition

This data type represents the maximum packet size (See Clause 3.4.11 of GSMA NG.116 [50]) in downlink or uplink.

#### 6.3.11.2 Attributes

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Attribute name | S | isReadable | isWritable | isInvariant | isNotifyable |
| servAttrCom | CM | T | F | T | T |
| maxSize | M | T | T | F | T |

The Stage 2 attribute properties "isReadable" and "isWritable" must be represented in both OpenAPI/yaml and NETCONF/yang solution sets.

For YANG, the solution set mapping rules defined in [1], clause 6.2.20.1 indicates that "isReadable" and "isWritable" are implemented using the yang ‘config’ statement. An excerpt (condensed) of which follows from module \_3gpp-ns-nrm-sliceprofile.yang

…

 list maxPktSize {

 config false;

 key idx;

 max-elements 1;

 leaf idx {

 description "Synthetic index for the element.";

 type uint32;

 }

…

For YAML, the solution set mapping rules defined in [1], clause 6.1.11.8 indicate that indicates that "isReadable" and "isWritable" are implemented using the YAML statement "readOnly" and "writeOnly" .

Example:[1]

properties:

 flower:

 type: string

 readOnly: true

 writeOnly: false

## Potential issue

Stage 3 YANG solution set seems to have not been specified for attributes values "isReadable" and "isWritable".

This issue has been seen in all the Stage 3 YAML specifications.

## Conclusion

The above issue needs to be confirmed by SA5.

A decision needs to be made to address this issue in the SA5 OpenAPI definitions.

Updates will need to be applied all existing stage3 YAML with attribute properties "isReadable" and "isWritable" values already specified in Stage 2.

# 5 Detailed proposal

The group is asked to endorse that this issue needs to be resolved.

If endorsed, CRs will be submitted to SA5#155 to address this as follows:

* update YAML with attribute properties "isReadable" and "isWritable" values already specified in Stage 2 for the cases where their values is different than the default value.
* update all YAML files containing this issue:
	+ Rel-18
	+ Rel-19 (if applicable for SA5#155)