**3GPP TSG-SA5 Meeting #144-e *S5-224048***

**e-meeting, 27 June - 1 July 2022**

**Source: Huawei**

**Title: DP on new specifications for TS 28.622 in the context of SBMA with new structure proposal**

**Document for: Discussion and Endorsement**

**Agenda Item: 6.5.2.1**

# 1 Decision/action requested

***The group is asked to discuss and endorse.***

# 2 References

[1] S5-201123 Use new 28xyz for 28622 material

[2] S5-221164 CR TS 28.622 Add description of the corresponding IOCs

[3] S5-223407 Rel-17 CR 28.622 Clarification for IRP and SBMA framework

[4] S5-223007 OAM Chair notes and conclusions

# 3 Rationale

**Issue #1 for the discussion:**

The group discussed the issues for reusing the TS 28.622 and 28.623 Generic Network Resource Model (NRM) Integration Reference Point (IRP) for the deployment scenario of SBMA, including:

* The title and scope for TS 28.622 and TS 28.623 is specific for deployment scenario of IRP framework.
* It is not clear which IOC can be used for the deployment scenario of IPR framework, which IOC can be used for the deployment scenario of SBMA and which IOC can be used for both.
* The inconsistence problem for different solution set (including YAML, YANG and XML) in TS 28.622.

Based on the discussion in previous meetings (e.g. S5-221164 and S5-223407), it is not possible to revise the TS 28.622 to address above issues. Also as the group discussed in the SA5#143e, it is better to address these issue in R18.

**Detailed proposal#1:** It proposes to introduce a new TS for generic NRM for SBMA in R18, which will cover the SBMA contents in TS 28.622, including:

- Revise the AdNRM\_ph2 WID proposal (SP-220351) to introduce a new TS for generic NRM for SBMA

- Cover the content in TS 28.622 and TS 28.623 which can be applied to SBMA in the new specification.

**Issue #2 for the discussion:**

In previous 5G, the TS 28.622 Generic NRM is mainly used to define the common network resource model (e.g. SubNetwork, ManagedElement, ManagedFunction), which can be used for all NRM fragments (e.g. EUTRAN NRM, UTRAN NRM, EPC NRM). However, in SBMA, the group use the model driven approach for several management capabilities (including PM control NRM fragment, threshold monitoring control NRM fragment, Notification subscription and heartbeat notification control NRM fragment, File retrieval NRM fragment, MnS Registry NRM fragment and File download NRM fragment), and more generic NRM fragment for new management capabilities will be introduced in Rel-18. Current structure mixed all class diagram clause 4.2, all IOC and <<dataType>> in clause 4.3 and all attribute definitions in clause 4.4, which is not easily for the reader to get all NRM information for a specific management capability.

**Detailed proposal#2:** It proposes to restructure the generic NRM specification (new TS number proposed in proposal#1) to show the individual management capability. Following is the structure proposal for the NRM fragment for one management capability based on TS 32.160 and proposal in S5-201123[2].

*X. NRM fragment for XXX Management capabilities*

*X.1* *Imported and associated information entities*

*X.2 Class diagram*

 *X.2.1 Relationships*

 *X.2.2 Inheritance*

*X.3 Class definition*

*X.4 dataType definition*

*X.5Attribute definition*

 *X.5.1 Attribute properties*

*X.6 Notification*

# 4 Detailed proposal

**Proposal#1:** It proposes to introduce a new TS for generic NRM for SBMA in R18, which will cover the SBMA contents in TS 28.622, including:

- Revise the AdNRM\_ph2 WID proposal (SP-220351) to introduce a new TS for generic NRM for SBMA

- Cover the content in TS 28.622 and TS 28.623 which can be applied to SBMA in the new specification.

**Proposal#2:** It proposes to work on the concrete structure for the new TS before auguest meeting with interested companies.