**3GPP TSG-SA5 Meeting #146Bis-e *S5-231039***

Electronic meeting, 16 - 19 January 2023

**Source: Huawei**

**Title: DP on naming convention of MnS using CRUD operation with certain NRM Fragment**

**Document for: Discussion and Endorsement**

**Agenda Item: 6.1.1**

# 1 Decision/action requested

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

# 2 References

[1] 3GPP TS 28.533: "Management and orchestration; Architecture framework"

[2] S5-226196 Rel-17 CR TS 28.104 Correct interchanging use of MDAS and MDA MnS

[3] S5-226265 Rel-17 CR 28.532 Add introduction clause to the Prov MnS definition

[4] S5-226362 pCR 28.317 Add Concept for RANSC

# 3 Rationale

This discussion paper related to eMDAS\_Ph2 WI, FS\_eIDMS\_MN SI and FS\_eSBMAe SI.

Based on the discussion in SA5#146e meeting, the naming convention issue for the MnS using CRUD operation with certain NRM Fragment raised in several contributions (S5-226196[2], S5-226265[3] and S5-226362[4]), so this contribution proposes to discuss the naming convention for the MnS using CRUD operation with certain NRM Fragment.

TS 28.533 described that a MnS is composed by a MnS component type A and

- a MnS component type B, or

- a MnS component type B and a MnS component type C.

TS 28.532 described CRUD operations are the MnS component type A and in combination with a NRM (MnS component type B) constitute a MnS.

Following are the proposed name for MnS type for the combination of CRUD operations with a NRM.

Table 1 proposed MnS type for the combination of CRUD operations with a NRM

|  |  |  |
| --- | --- | --- |
| **Proposed MnS Type** | **MnS Components** | |
| **MnS Component type A** | **MnS Component type B** |
| Provisioning MnS | CRUD operations | NRM fragment for 5GC  NRM fragment for NR  NRM fragment for Slicing |
| Performance Control MnS | CRUD operations | PM control NRM fragment |
| Performance Threshold Monitoring MnS | CRUD operation | Threshold monitoring control NRM fragment |
| Subscription MnS | CRUD operations | Notification subscription control NRM fragment |
| Heartbeat control MnS | CRUD operations | Heartbeat notification control NRM fragment |
| FM Control MnS | CRUD operation | FM control NRM fragment |
| Trace Control MnS | CRUD operations | Trace control NRM fragment |
| File Retrieval MnS | CRUD operations | File retrieval NRM fragment |
| File Download MnS | CRUD operations | File download NRM fragment |
| ManagementDataCollection control MnS | CRUD operation | ManagementDataCollection control NRM fragment |
| QoE Control MnS | CRUD operations | QoE Measurement Collection control NRM fragment |
| MnS Registry MnS | CRUD operation | MnS Registry NRM fragment |
| Edge Computing MnS | CRUD operation | Edge NRM Fragment |
| ML training MnS | CRUD operations | NRM fragment for ML training (TS 28.105) |
| MDA MnS | CRUD operations | NRM fragment for MDA request and MDA report (TS 28.104) |
| Communication service assurance MnS | CRUD operations | Assurance management NRM fragment (TS28.536) |
| Policy MnS | CRUD operations | Policy management NRM fragment (TS 28.556) |
| Intent driven MnS | CRUD operations | NRM fragment for intent (TS28.312) |

Further, above MnS can be divided into multiple MnS instances for different domains. For instance,

- Provisioning MnS can further divided into Provisioning MnS for NR (CRUD operations with NR NRM), Provisioning MnS for 5GC (CRUD operations with 5GC NRM) and Provisioning MnS for Slicing (CRUD operations with Slicing NRM);

- Intent driven MnS can further divided into intent driven MnS for radio network (CRUD operations with RadioNetworkExpectation), intent driven MnS for 5GC (CRUD operations with 5GCNetworkExpectation), intent driven MnS for network slicing ((CRUD operations with NetworkSliceExpectation)).

# 4 Detailed proposal

It proposes to use the proposed name for MnS type in above Table 1 for the corresponding combination of CRUD operation with a NRM.