**3GPP TSG-SA5 Meeting #145-e *S5-225213***

**e-meeting, 15 - 24 August 2022**

**Source: China Mobile, HUAWEI**

**Title: TS 28.317 Use case and requirement for ARCF data handling**

**Document for: Approval**

**Agenda Item: 6.4.1**

# 1 Decision/action requested

***In this box give a very clear / short /concise statement of what is wanted.***

# 2 References

[1] SP-211431 New WID on Self-Configuration of RAN Nes

[2] S5-222726 TS 28.317 v0.1.0

# 3 Rationale

This document is going to provide proposals on usecases and requirements for ARCF data handling.

# 4 Detailed proposal

This document proposes the following updates for TS 28.317.

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| **1st Change** |

# Management capabilities

### 5.1 ARCF data handling

#### 5.1.1 Use cases

ARCF data are the data which cannot be generated by MnS producer for RANSC(e.g., SCS). For example, the data is required for successful activation (of e.g. cell, gNB) that require coordination between several MnS producers for RANSC. The MnS producer for RANSC is used in plug-and-connect procedures to provide the NE with correct software and configuration information. The goal of the ARCF data handling is to transfer the ARCF data to the MnS producer for RANSC if needed and ensure that it is valid when it is used during self-configuration process.

The ARCF data can be provided by other management entity or human operator. How to generate the ARCF data is out of scope of the present document.

The MnS producer for RANSC needs to obtain the ARCF data.and generate the RAN NE initial configuration data. The authorized MnS consumer for RANSC will provide the ARCF data to MnS producer for RANSC directly or indicate it where the ARCF data is available and it can retrieve the data from there. The authorized MnS consumer for RANSC can be the entity who provides the ARCF data.

Before MnS producer for RANSC obtain the ARCF data, it may indicate need for ARCF data to the authorized MnS consumer for RANSC .

When MnS producer for RANSC receive the ARCF data, it may perform ARCF data validation to validate the syntax and semantics of ARCF data.

Editor's Note: Whether use the term "ARCF data" is FFS.

Editor’s Note: the term “MnS producer/consumer for RANSC” is FFS.

Editor’s Note: the initial idea to use the term “ARCF data” is to align LTE specification (e.g. TS 32.501), this term needs further discussed whether it is still suitable used in SBMA specification.

#### 5.1.2 Requirements

**REQ-ARCF -1:** MnS producer for RANSC shall have the capability to obtain the ARCF data or information which indicate where the ARCF data is available for downloading from its authorized consumer.

**REQ-ARCF -2:** MnS producer for RANSC shall have the capability to allow its authorized consumer to request to validate the previously downloaded ARCF data.

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| **End of change** |