**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 ARC 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 ARC 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 ARC data handling

#### 5.1.1 Use cases

ARC 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 ARC data handling is to transfer the ARC data to the MnS producer for RANSC if needed and ensure that it is valid when it is used during self-configuration process.

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

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

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

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

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

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

#### 5.1.2 Requirements

**REQ-ARCF -1:** MnS producer for RANSC shall have the capability to obtain the ARC data or information which indicate where the ARC 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 ARC data.

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| **End of change** |