**3GPP TSG-SA5 Meeting #144-e *S5-224097***

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

**Source: China Mobile, HUAWEI**

**Title: TS 28.317 Use cases and requirements for ARCF data handling**

**Document for: Approval**

**Agenda Item: 6.4.1.1**

# 1 Decision/action requested

***Discuss and approve on the proposal.***

# **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.

|  |
| --- |
| **1st Change** |

# Management capabilities

### 5.1 ARCF data handling

#### 5.1.1 Use cases

ARCF data are the data which are required for successful activation (of e.g. cell, gNB) that require coordination between several cells and cannot be generated by self-configuration entity (i.e., SCS). As TS 28.315 described, the SCS is a vendor-specific functional element that 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 self-configuration entity 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 self-configuration entity needs to obtain the ARCF data to perform self-configuration process. The authorized consumer will provide the ARCF data to self-configuration entity directly or indicate it where the ARCF data is available and it can retrieve the data from there. The authorized consumer can be the entity who provides the ARCF data, such as Network Manager for RAN NE deployment.

Before self-configuration entity obtain the ARCF data, it may indicate need for ARCF data to the authorized consumer.

When self-configuration entity receive the ARCF data, it may perform ARCF data validation to validate the syntax and semantics of ARCF data.

#### 5.1.2 Requirements

**REQ-ARCF -1:** 3GPP management system shall have the capability to obtain the ARCF data or information which indicate where the ARCF data is available for downloading.

**REQ-ARCF -2:** 3GPP management system shall have the capability to allow its authorized consumer to request to validate the previously downloaded ARCF data.

|  |
| --- |
| **End of change** |