**3GPP TSG-SA5 Rapporteur call *S5-22xxxx***

**e-meeting, 2 March 2022**

**Source: Nokia, Nokia Shanghai Bell**

**Title: CHF Set Concept & Retry Handling**

**Document for: Discussion**

**Agenda Item: NCHF**

# 1 Decision/action requested

**Agree on the scenarios when interacting with two CHFs.**

# 2 References

[1] 3GPP TS 32.290: "Telecommunication management; Charging management; 5G system; Services, operations and procedures of charging using Service Based Interface (SBI)"

# 3 Rationale

Additional reference on the alternative CHF.

See proposed changes to TS 32.290 [1].

# 4 Detailed proposal

|  |
| --- |
| **First change** |

### 5.5.2 Retry handling

In case a NF consumer (CTF) does not receive a Charging Data Response, it may retransmit the Charging Data Request message. The number of retries and delay between retries shall be locally configured in the NF consumer (CTF).

If the retried charging data request [Initial] is received by the same CHF, the uniqueness checking may be based on the Charging Identifier included in the charging data request. CHF shall respond to the retried charging data request [Initial] with the original charging session identifier.

If the retried request is charging data request [Update] or charging data request [Termination], the uniqueness checking may based on the inspection of the Charging Session Identifier and Invocation Sequence Number pair.

If retried message shall have the same Invocation Sequence Number as the original of the retried message i.e. the Invocation Sequence Number shall not be incremented when the message is retried. The NF consumer (CTF) may send the retried message to an alternative CHF if the Session Failover indication is received from the CHF. The alternative CHF can be built as defined in 23.501 [201]

In the case of a notification request time out the CHF may retry the message. The number of retries and delay between retries shall be locally configured in the CHF.

|  |
| --- |
| **End of changes** |