**3GPP TSG-SA3 Meeting #108-e S3-221954**

**e-meeting, 22nd – 26th August, 2022**

**Source:**  **Huawei, HiSilicon**

**Title:** **Key issue on security aspects of IMS DC**

**Document for: Approval**

**Agenda Item: 5.15**

# 1 Decision/action requested

***It is proposed to approve the key issue described in this document.***

# 2 Rationale

SA2 is working on enhancement to support Data Channel usage in IMS network. It’s therefore proposed to study potential security aspects of SBA in IMS.

# 3 Detailed proposal

\*\*\* 1st CHANGE \*\*\*

# 2 References

The following documents contain provisions which, through reference in this text, constitute provisions of the present document.

- References are either specific (identified by date of publication, edition number, version number, etc.) or non‑specific.

- For a specific reference, subsequent revisions do not apply.

- For a non-specific reference, the latest version applies. In the case of a reference to a 3GPP document (including a GSM document), a non-specific reference implicitly refers to the latest version of that document *in the same Release as the present document*.

[1] 3GPP TR 21.905: "Vocabulary for 3GPP Specifications".

[2] 3GPP TR 23.700-87: “Study on system architecture enhancement for next generation real time communication".

[y] 3GPP TS 33.328: "IP Multimedia Subsystem (IMS) media plane security".…

[x] <doctype> <#>[ ([up to and including]{yyyy[-mm]|V<a[.b[.c]]>}[onwards])]: "<Title>".

\*\*\* END OF 1st CHANGE\*\*\*

\*\*\* 2nd CHANGE \*\*\*

## 5.X Key issue #x: Security aspects of Data Channel usage in IMS network

### 5.X.1 Key issue details

Existing IMS procedures need to be changed to support Data Channel usage in IMS as is being studied in TR 23.700-87 [2]. It needs to be studied whether usage of Data Channel in IMS brings new security threats and requirements, and if so, it needs to be studied whether existing solutions could be re-used or if new solutions would need to be developed. For example, clause N.3 of TS 33.328 [y] describes media security of the WebRTC data channel, but only e2ae (End-to-access edge) security is specified at the moment. Current security mechanisms in WebRTC data channel needs to be reviewed and possibly reused for data channel in IMS.

### 5.X.2 Security threats

TBD. .

### 5.X.3 Potential security requirements

TBD. .

\*\*\* END OF 2nd CHANGE\*\*\*