**3GPP TSG SA WG5 Meeting #156 S5-244520**

**Maastricht, The Netherlands 19 - 23 August 2024**

**Source: Huawei**

**Title: Introduce the use case of charging for DC application download and usage**

**Document for: Approval**

**Agenda Item: 7.5.3**

# 1 Decision/action requested

***The group is asked to discuss and agree on the proposal.***

# 2 References

[1] 3GPP TR 28.851: "Study on charging aspects of next generation real time communication services phase 2".

# 3 Rationale

This pCR proposes to add topics on IMS DC download charging to TR 28.851 [1].

# 4 Detailed proposal

The following changes are proposed to be incorporated into TR 28.851.

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| **First change** |

## 5.x Topic X: charging for DC application download and usage

### 5.x.1 Use cases

#### 5.x.1.1 Use case #Xa: Download application via bootstrap data channel

According to TS 23.228 [x] Annex AC.4 and AC.7.5, when UE request to establish an IMS Data Channel, the DCSF provides a URL to the MF or MRF via the IMS AS during data channel media resource reservation for the bootstrap data channel that enables downloading a subscriber specific graphical user interface to the UE via the Bootstrap Data Channel. The subscriber specific graphical user interface provides a menu of applications (e.g. Real-time Screen Sharing application) for which the user has subscribed to and is authorized to use. The originating UE and/or terminating UE may request DCSF to download the selected data channel application for further interaction.

The business roles and relationships are shown in Figure 5.x.1.1-1.



Figure 5.x.1.1-1: Business roles and relationship in IMS Data Channel Application Download

The charging party is IMS DC operator.

The charged party is the originating UE and terminating UE.

#### 5.x.1.2 Use case #Xb: Using application via application data channel

According to TS 23.228 [x] Annex AC.7.2, the application data channel support multiple interaction scenarios, for example, person-to-application interaction (P2A), and person-to-application-to-person interaction (P2A2P).

- In P2A scenario, the application data channel is established between the originating UE and DC AS or between the terminating UE and DC AS.

- In P2A2P scenario, the originating and terminating UE establish application data channels for the same application to communicate with the same DC AS.

The charging party is IMS DC operator.

The charged party is the originating UE and terminating UE.

### 5.x.2 Potential charging requirements

### 5.x.3 Key issues

### 5.X.4 Possible solutions

### 5.X.5 Evaluation

### 5.X.6 Conclusion

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| **End of changes** |