**3GPP TSG-CT WG1 Meeting #147C1-241477**

**Athens, Greece, 26 February-1 March 2024 Revision of C1-241475**

**Source: China Mobile, China Southern Power Grid Co**

**Title: Clarification on DC setup policy**

**Spec: 3GPP TS 24.186 v1.1.0**

**Agenda item: 18.3.8**

**Document for: Decision**

**1. Introduction**

This p-CR proposes to clarify the DC setup policy on when the IMS data channel is to be setup.

**2. Reason for Change**

TS 23.228 specifies the IMS DC configuration is for initiating a DC establishment request, and it does not restrict receiving a DC establishment request. Originating side and terminating side may have different configuaration on when to initiate the DC establishment request. Making restriction on receiving request has impacts on DC setup.

*AC.4 IMS DC Channel Setup*

*The following principles apply when an IMS Data Channel is established: -*

*- UE can establish an IMS Data Channel simultaneously while establishing an IMS audio/video session or upgrade an ongoing IMS audio/video session through a re-INVITE to an IMS Data Channel session.*

*NOTE: An IMS Data Channel established simultaneously with an IMS audio/video session can have impact to the IMS session setup time.*

*- The UE may be configured by the HPLMN either via Device Management or in the UICC whether and when to initiate a DC establishment request. If the UE is not configured by the HPLMN, it is left for UE implementation whether and when to initiate the DC establishment request. The UE shall not initiate a DC establishment request if the network has not indicated support for IMS DC service during IMS registration or if the UE is configured to not establish an IMS Data Channel.*

*- If a UE that has not subscribed to IMS Data Channel establishes an IMS Data Channel simultaneously with an IMS audio/video IMS session, the IMS AS shall discard the Data Channel request and proceed with the audio/video IMS session establishment.*

**3. Proposal**

It is proposed to agree the following changes to 3GPP TS 24.186 v1.1.0.

\* \* \* First Change \* \* \* \*

##### 9.3.2.1.1 General

The UE shall only initiate an MMTel session with an IMS data channel if the UE has determined that the UE and the home network supports the IMS data channel capability.

The policy related to the UE supporting the IMS data channel can be provided by the home network to the UE using e.g. OMA-DM with the management objects specified in 3GPP TS 24.275 [11] or UICC configuration, as specified in clause 9.2.1.1. When the UE is configured by home network with configuration for IMS data channel, then the UE may setup the IMS data channel.

If the UE is configured with IMS\_DC\_configuration node specified in 3GPP TS 24.275 [11] and:

a) DC\_allowed leaf indicates that IMS data channel is not allowed, the UE shall not include data channel capability indication and data channel related media description in SDP offer;

b) DC\_allowed leaf indicates that IMS data channel is allowed, and:

1) if DC\_Setup\_Option leaf is configured and indicates the IMS data channel is to be setup simultaneously while establishing an MMTel session, the UE:

- shall include the bootstrap data channel related media description in SDP offer within the initial INVITE request as described in clause 9.3.2.1.2 to setup the bootstrap data channel;

2) if DC\_Setup\_Option leaf is configured and indicates the IMS data channel is to be setup after an MMTel session is established, the UE shall generate a re-INVITE request for the bootstrap data channel setup and include the bootstrap data channel related media description in SDP offer as described in clause 9.3.2.1.3 to setup the bootstrap data channel; and

3) if the UE receives an initial INVITE or a re-INVITE request including the bootstrap data channel related media description in SDP offer, the UE shall generate an SDP answer as described in clause 9.3.3.1.

\* \* \* End of Changes \* \* \* \*