**3GPP TSG-CT WG1 Meeting #146C1-24xxxx**

**Online, 22– 26 January 2024 Revision of C1-240112**

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

**Title: Clarification on DC setup policy**

**Spec: 3GPP TS 24.186 v1.0.0**

**Agenda item: 18.3.8**

**Document for: Decision**

**1. Introduction**

This p-CR proposes to clarify the DC setup policy in 9.3.2.

**2. Reason for Change**

It is proposed to clarify the DC configuration only restricts DC provided/established by the home network.

In addition, it is suggested to clarify the SDP offer generated by the UE could be more that one m line for BDC, e.g. one is for BDC with local network and another is for BDC with romote network to align to TS 23.228. AC.7.1.

1. UE#1 sends the SIP INVITE request with an initial SDP to the IMS AS, through P-CSCF and S-CSCF in the originating network. The initial SDP contains offers for the bootstrap data channel establishment request with bootstrap DC stream ID. In this example procedure, the SDP contains both bootstrap data channel offers for originating side and terminating side.

**3. Proposal**

It is proposed to agree the following changes to 3GPP TS 24.186 v1.0.0.

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

### 9.3.2 Originating side

#### 9.3.2.1 Procedures at the UE

##### 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 capability support, 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, to setup IMS data channel, 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;

2) if DC\_Setup\_Option leaf is configured and indicates the IMS data channel is to be setup after an MMTel session is established, to setup IMS data channel, 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.

\* \* \* Next Change \* \* \* \*

##### 9.3.2.1.2 IMS data channel setup in conjunction with MMTel session setup

If the UE wants to initiate an MMTel session and determines to establish a bootstrap data channel simultaneously by configuration as described in clause 9.3.2.1.1, the UE:

1) shall generate an initial INVITE request in accordance with 3GPP TS 24.229 [9] and 3GPP TS 24.173 [10];

2) shall include the media feature tag defined in IETF RFC 5688 [5] for supported streaming media type with +sip.app-subtype="webrtc-datachannel" as specified in 3GPP TS 26.114 [4] in the Contact header field;

3) may include an Accept-Contact header field containing the "sip.app-subtype" media feature tag defined in IETF RFC 5688 [5] with a value of "webrtc-datachannel" as specified in 3GPP TS 26.114 [4]; and

4) shall include an SDP offer containing the media descriptions for the MMTel media according 3GPP TS 24.173 [10] and data channel media description(s) for the bootstrap data channel(s) in accordance with 3GPP TS 26.114 [4].

\* \* \* Next Change \* \* \* \*

##### 9.3.2.1.3 IMS data channel setup in conjunction with MMTel session modification

If a UE determines to establish a bootstrap data channel within an existing MMTel session by configuration as described in clause 9.3.2.1.1, the UE:

1) shall generate a reINVITE request in accordance with 3GPP TS 24.229 [9] and 3GPP TS 24.173 [10];

2) shall include the media feature tag defined in IETF RFC 5688 [5] for supported streaming media type with +sip.app-subtype="webrtc-datachannel" as specified in 3GPP TS 26.114 [4] in the Contact header field;

3) may include an Accept-Contact header field containing the "sip.app-subtype" media feature tag defined in IETF RFC 5688 [5] with a value of "webrtc-datachannel" as specified in 3GPP TS 26.114 [4]; and

4) shall include an updated SDP offer that contains data channel media description(s) for the bootstrap data channel(s) according to 3GPP TS 26.114 [4].

If a UE wants to establish an application data channel within an existing MMTel session and when the UE has an established bootstrap data channel associated with the MMTel session available, the UE:

1) shall generate a reINVITE request in accordance with 3GPP TS 24.229 [9] and 3GPP TS 24.173 [10];

2) shall include the media feature tag defined in RFC 5688 [5] for supported streaming media type with +sip.app-subtype="webrtc-datachannel" as specified in 3GPP TS 26.114 [4] in the Contact header field;

3) may include an Accept-Contact header field containing the "sip.app-subtype" media feature tag defined in IETF RFC 5688 [5] with a value of "webrtc-datachannel" as specified in 3GPP TS 26.114 [4]; and

4) shall include an updated SDP offer that contains a data channel media description for the bootstrap data channel, as well as the requested application data channel and the associated DC application binding information, according to 3GPP TS 26.114 [4].

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