The PoC Server A responds to the SIP INVITE request with a SIP 200 (OK) final response. Therefore the PoC Server B sends a SIP 200 (OK) final response to the Pre-established Session.

The PoC Client B acknowledges the reception of the MBCP Connect message. The message includes the PoC Session Identity. The PoC Server B sends the MBCP Connect to the PoC Client B. The message contains the SDP answer including the accepted media information (e.g. Codex, IP address and port number(s)) of the PoC Server B and accepted Media Burst Control Protocol.

The PoC Server B sends the MBCP Connect message to the PoC Client B. The message includes the PoC Session Identity. The PoC Client B acknowledges the reception of the MBCP Connect message. The message contains the PoC Session Identity.

The PoC Server A invites the PoC Client B who is indicated in the Refer-To header of the received SIP REFER request. The PoC Client A invites the PoC Client B to a Pre-established Session with Auto Answer at PoC Client B (IMS PoC Client Invitation).

The IMS Core A forwards the REFER to Participating and Controlling PoC server A.

The IMS Core A forwards the REFER to Participating and Controlling PoC server A.

Push-to-Talk session activated.

The PoC Server B sends the MBCP Connect message to the PoC Client B. The message contains the PoC Session Identity. The PoC Client B acknowledges the reception of the MBCP Connect message. The message contains the PoC Session Identity.

Indication to the user that the push-to-talk session has been activated. The controlling PoC server allocates the floor to PoC Client A.

The PoC Server A responds to the SIP INVITE request with a SIP 200 (OK) final response. The IMS Core A forwards the INVITE to PoC Server B. The IMS Core B forwards the INVITE to PoC Server B. The IMS Core A forwards the REFER to Participating and Controlling PoC server A.

The IMS Core A forwards the REFER to Participating and Controlling PoC server A.

The IMS Core A forwards the REFER to Participating and Controlling PoC server A.

The PoC Server A invites the PoC Client B who is indicated in the Refer-To header of the received SIP REFER request. The PoC Client A invites the PoC Client B to a Pre-established Session with Auto Answer at PoC Client B (IMS PoC Client Invitation).

The IMS Core A forwards the REFER to Participating and Controlling PoC server A.

The IMS Core A forwards the REFER to Participating and Controlling PoC server A.

Push-to-Talk session activated.

The PoC Server A responds to the SIP INVITE request with a SIP 200 (OK) final response. The IMS Core A forwards the INVITE to PoC Server B. The IMS Core B forwards the INVITE to PoC Server B. The IMS Core A forwards the REFER to Participating and Controlling PoC server A.

The IMS Core A forwards the REFER to Participating and Controlling PoC server A.

The IMS Core A forwards the REFER to Participating and Controlling PoC server A.

The IMS Core A forwards the REFER to Participating and Controlling PoC server A.

The PoC Server A invites the PoC Client B who is indicated in the Refer-To header of the received SIP REFER request. The PoC Client A invites the PoC Client B to a Pre-established Session with Auto Answer at PoC Client B (IMS PoC Client Invitation).

The IMS Core A forwards the REFER to Participating and Controlling PoC server A.

The IMS Core A forwards the REFER to Participating and Controlling PoC server A.

Push-to-Talk session activated.

The PoC Server B sends the MBCP Connect message to the PoC Client B. The message includes the PoC Session Identity. The PoC Client B acknowledges the reception of the MBCP Connect message. The message contains the PoC Session Identity.

Indication to the user that the push-to-talk session has been activated. The controlling PoC server allocates the floor to PoC Client A.

The PoC Server A responds to the SIP INVITE request with a SIP 200 (OK) final response. Therefore the PoC Server B sends a SIP 200 (OK) final response to the Pre-established Session established.

The IMS Core B responds to the SIP INVITE request with a SIP 200 (OK) final response. Therefore the PoC Server B sends a SIP 200 (OK) final response to the Pre-established Session established.

The IMS Core B responds to the SIP INVITE request with a SIP 200 (OK) final response. Therefore the PoC Server B sends a SIP 200 (OK) final response to the Pre-established Session established.

The PoC Server A invites the PoC Client B who is indicated in the Refer-To header of the received SIP REFER request. The PoC Client A invites the PoC Client B to a Pre-established Session with Auto Answer at PoC Client B (IMS PoC Client Invitation).

The IMS Core A forwards the REFER to Participating and Controlling PoC server A.

The IMS Core A forwards the REFER to Participating and Controlling PoC server A.

Push-to-Talk session activated.

The PoC Server A responds to the SIP INVITE request with a SIP 200 (OK) final response. Therefore the PoC Server B sends a SIP 200 (OK) final response to the Pre-established Session established.

The IMS Core B responds to the SIP INVITE request with a SIP 200 (OK) final response. Therefore the PoC Server B sends a SIP 200 (OK) final response to the Pre-established Session established.

The PoC Server A invites the PoC Client B who is indicated in the Refer-To header of the received SIP REFER request. The PoC Client A invites the PoC Client B to a Pre-established Session with Auto Answer at PoC Client B (IMS PoC Client Invitation).

The IMS Core A forwards the REFER to Participating and Controlling PoC server A.

The IMS Core A forwards the REFER to Participating and Controlling PoC server A.

Push-to-Talk session activated.

The PoC Server A responds to the SIP INVITE request with a SIP 200 (OK) final response. Therefore the PoC Server B sends a SIP 200 (OK) final response to the Pre-established Session established.

The IMS Core B responds to the SIP INVITE request with a SIP 200 (OK) final response. Therefore the PoC Server B sends a SIP 200 (OK) final response to the Pre-established Session established.

The PoC Server A invites the PoC Client B who is indicated in the Refer-To header of the received SIP REFER request. The PoC Client A invites the PoC Client B to a Pre-established Session with Auto Answer at PoC Client B (IMS PoC Client Invitation).

The IMS Core A forwards the REFER to Participating and Controlling PoC server A.

The IMS Core A forwards the REFER to Participating and Controlling PoC server A.

Push-to-Talk session activated.
PoC Client A invites PoC Client B to a Pre-established Session Confirmed Indication with Auto Answer at PoC Client B (IMS PoC Client Invitation)

Wireless Network A
IMS
Wireless Network B

User Equipment A
IMS Network A
IMS Core A
IMS Network B
IMS Core B
User Equipment B

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Talk Burst from PoC Client A to B

Permission to talk

Voice

Push-to-Talk Button Released

Floor is available indication

Talk Burst from PoC Client B to A

Push-to-Talk Button Released

Floor is available indication