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1 Scope

The present document provides the protocol details for telepresence using the IP Multimedia (IM) Core Network (CN) subsystem based on the Session Initiation Protocol (SIP), the Session Description Protocol (SDP), the Binary Floor Control Protocol (BFCP) and the ControLling mUltiple streams for tElepresence (CLUE) controlling multiple streams for telepresence based on service requirements.

The present document addresses the areas of describing and negotiating IM session with multiple media streams based on the IM CN subsystem, including point to point calls as specified in 3GPP TS 24.229 [2] and multiparty conferences as specified in 3GPP TS 24.147 [3], to facilitate the support of telepresence.

The functionalities for conference policy control and the signalling between a MRFC and a MRFP are not specified in this document.

Where possible, the present document specifies the requirements for this protocol by reference to specifications produced by the IETF within the scope of SIP, SDP, CLUE and BFCP, either directly, or as modified by 3GPP TS 24.229 [2].

The present document is applicable to Application Servers (ASs), Multimedia Resource Function Controllers (MRFCs), Multimedia Resource Function Processors (MRFP) and User Equipment (UE) providing IM session supporting telepresence capabilities.

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

[2] 3GPP TS 24.229: "Internet Protocol (IP) multimedia call control protocol based on Session Initiation Protocol (SIP) and Session Description Protocol (SDP); Stage 3".

[3] 3GPP TS 24.147: "Conferencing using the IP Multimedia (IM) Core Network (CN) subsystem; Stage 3".

[4] draft-ietf-clue-framework-23 (September 2015): "Framework for Telepresence Multi-Streams".

Editor's note: The above document cannot be formally referenced until it is published as an RFC.

[5] draft-ietf-clue-datachannel-11 (November 2015): "CLUE Protocol data channel".

Editor's note: The above document cannot be formally referenced until it is published as an RFC.

[6] draft-ietf-clue-signaling-06 (August 2015): "CLUE Signaling".

Editor's note: The above document cannot be formally referenced until it is published as an RFC.

[7] draft-ietf-mmusic-sctp-sdp-14 (March 2015): "Stream Control Transmission Protocol (SCTP) – Based Media Transport in the Session Description Protocol (SDP)".

Editor's note: The above document cannot be formally referenced until it is published as an RFC.

[8] IETF RFC 3264 (June 2002): "An Offer/Answer Model with Session Description Protocol (SDP)".