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Foreword

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1 Scope

The present document provides a study of stereoscopic 3D video services over 3GPP networks and terminals. Technical definitions, use case descriptions, working assumptions, subjective tests results and technical studies are presented.

This document identifies the gaps within the Release 10 3GPP specifications in order to enable the implementation of the mobile 3D video use cases.

2 References

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

[2] 3GPP TS 26.114: "IP multimedia subsystem (IMS); Multimedia telephony, Media handling and interaction".

[3] 3GPP TS 26.234: "Transparent end-to-end packet switched streaming service (PSS); Protocols and codecs".

[4] 3GPP TS 26.346: "Multimedia Broadcast/Multicast Service (MBMS); Protocols and codecs".

[5] 3GPP TS 26.247: "Transparent end-to-end Packet-switched Streaming Service (PSS); Progressive Download and Dynamic Adaptive Streaming over HTTP (3GP-DASH)".

[6] 3GPP TS 26.140: "Multimedia Messaging Service (MMS); Media formats and codecs".

[7] 3GPP TS 26.245: "Transparent end-to-end Packet-switched Streaming Service (PSS); Timed Text Format".

[8] 3GPP TS 26.430: "Timed Graphics".

[9] 3GPP TR 26.904: "Improved Video Coding Support".

[10] IETF RFC 3261: "SIP: Session Initiation Protocol".

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

[12] IETF draft draft-ietf-payload-rtp-mvc-01: "RTP Payload Format for MVC Video".

[13] IETF personal draft draft-greevenbosch-mmusic-sdp-3d-format-002: "Signal 3D format".

[14] ITU-R Recommendation BT 1788: "Methodology for the subjective assessment of video quality in multimedia applications".

[15] 3GPP TS 26.244: "Transparent end-to-end packet switched streaming service (PSS); 3GPP file format".

[16] ISO/IEC 14496-15: 2010: "Information technology – Coding of audio-visual objects – Part 15: Advanced Video Coding (AVC) file format".