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Technical Specification

Telecommunications and Internet converged Services and Protocols for Advanced Networking (TISPAN); IMS-based IPTV interoperability test specification

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Foreword

This Technical Specification (TS) has been produced by ETSI Technical Committee Telecommunications and Internet converged Services and Protocols for Advanced Networking (TISPAN).

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1 Scope

The present document specifies interoperability tests for IMS-based IPTV system for NGN Release 3. It covers the use of main IPTV functionality via different methods as defined in NGN Release 2 as well as NGN Release 3 new use cases and features for IPTV and possible interactions with Voice/Data communications such as Social TV, Incoming Voice call management and notification on TV screen. Interoperability test descriptions have been specified following the ETSI IPT test specification framework described in EG 202 568 [i.1] and interoperability testing methodology defined in EG 202 237 [i.2], i.e. interoperability testing with a conformance relation. Each interoperability test description includes an end user test sequence as well as a table for checking of high level message flows at key standardized reference points in the TISPAN IMS-based IPTV infrastructure [1] and [2].

2 References

References are either specific (identified by date of publication and/or edition number or version number) or non-specific. For specific references, only the cited version applies. For non-specific references, the latest version of the reference document (including any amendments) applies.

Referenced documents which are not found to be publicly available in the expected location might be found at <http://docbox.etsi.org/Reference>.

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2.1 Normative references

The following referenced documents are necessary for the application of the present document.

- [1] ETSI TS 182 027 (V3.4.1): "Telecommunications and Internet converged Services and Protocols for Advanced Networking (TISPAN); IPTV Architecture; IPTV functions supported by the IMS subsystem".
- [2] ETSI TS 183 063 (V3.5.2): "Telecommunications and Internet converged Services and Protocols for Advanced Networking (TISPAN); IMS-based IPTV stage 3 specification".
- [3] IETF RFC 2326: "Real Time Streaming Protocol (RTSP)".
- [4] IETF RFC 3261: "SIP: Session Initiation Protocol".
- [5] ETSI TS 102 034: "Digital Video Broadcasting (DVB); Transport of MPEG-2 TS Based DVB Services over IP Based Networks".
- [6] IETF RFC 3376: "Internet Group Management protocol, Version 3".
- [7] IETF RFC 2616: "Hypertext Transfer Protocol - HTTP/1.1".
- [8] ETSI TS 183 048: "Telecommunications and Internet converged Services and Protocols for Advanced Networking (TISPAN); Resource and Admission Control System (RACS); Protocol Signalling flows specification; RACS Stage 3".
- [9] ETSI TS 183 017 (V2.3.1): "Telecommunications and Internet converged Services and Protocols for Advanced Networking (TISPAN); Resource and Admission Control: DIAMETER protocol for session based policy set-up information exchange between the Application Function (AF) and the Service Policy Decision Function (SPDF); Protocol specification".
- [10] ETSI TS 102 539: "Digital Video Broadcasting (DVB); Carriage of Broadband Content Guide (BCG) information over Internet Protocol (IP)".
- [11] ETSI TS 102 323: "Digital Video Broadcasting (DVB); Carriage and signalling of TV-Anytime information in DVB transport streams".