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Technical Report

Telecommunications and Internet converged Services and Protocols for Advanced Networking (TISPAN); Feasibility study on IPTV Security Architecture

Reference
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Foreword

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

1 Scope

The present document presents the result of a study of options for the IPTV security architecture supporting TISPAN NGN Release 3 that satisfies the security requirements for IPTV given in TS 187 001 [i.1].

The present document offers the results of analysis of the options for security architecture and mechanisms to provide IPTV service protection where service protection refers to the protection offered during the period when IPTV media is transmitted in the NGN. A security architecture for a general content protection framework to allow comparison of existing content protection solutions (e.g. DRM systems) is required for the NGN, but is not covered by the present document. Content protection includes the provision of post-delivery protection of IPTV media and may include controls to ensure that the user can only use the content in accordance with the license it has been granted, e.g. the times of the content can be viewed.

NOTE: The functional architecture for IMS based IPTV without security entities conforms to TS 182 027 [i.5]. The functional architecture for dedicated IPTV subsystem without security entities conforms to TS 182 028 [i.6].

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.

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2.1 Normative references

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

Not applicable.

2.2 Informative references

The following referenced documents are not necessary for the application of the present document but they assist the user with regard to a particular subject area.

[i.1] ETSI TS 187 001: "Telecommunications and Internet Converged Services and Protocols for Advanced Networking (TISPAN); NGN SECurity (SEC); Requirements".

[i.2] Void.

[i.3] ETSI TS 181 016: "Telecommunications and Internet converged Services and Protocols for Advanced Networking (TISPAN); Service Layer Requirements to integrate NGN Services and IPTV".

[i.4] ETSI TS 187 003: "Telecommunications and Internet converged Services and Protocols for Advanced Networking (TISPAN); NGN Security; Security Architecture".

[i.5] ETSI TS 182 027: "Telecommunications and Internet converged Services and Protocols for Advanced Networking (TISPAN); IPTV Architecture; IPTV functions supported by the IMS subsystem".

[i.6] ETSI TS 182 028: "Telecommunications and Internet converged Services and Protocols for Advanced Networking (TISPAN); NGN integrated IPTV subsystem Architecture".