

ITU-T

TELECOMMUNICATION
STANDARDIZATION SECTOR
OF ITU

J.1006

(10/2016)

SERIES J: CABLE NETWORKS AND TRANSMISSION
OF TELEVISION, SOUND PROGRAMME AND OTHER
MULTIMEDIA SIGNALS

Conditional access and protection – Digital rights
management for cable television multiscreen service

Specification of IP-VoD DRM for cable television multiscreen system in multi-DRM environment

Recommendation ITU-T J.1006

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Summary

Recommendation ITU-T J.1006 describes the specification of IP-VoD DRM for cable television multiscreen system in multi-DRM environment which includes an encryption system commonly adopted to multiple DRMs.

History

Edition	Recommendation	Approval	Study Group	Unique ID*
1.0	ITU-T J.1006	2016-10-14	9	11.1002/1000/13055

Keywords

Common encryption, IP-VoD, multi-DRM.

* To access the Recommendation, type the URL <http://handle.itu.int/> in the address field of your web browser, followed by the Recommendation's unique ID. For example, <http://handle.itu.int/11.1002/1000/11830-en>.

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Introduction

IP-based video on demand (VoD) service which is available inside and outside of homes will inevitably increase the data traffic of media streaming and downloading over IP networks. Although video delivery has been done with HTTP streaming methods, there are no compatibilities among the methods. Consequently, ISO/IEC has standardized [ISO/IEC 23009-1] which has a feature that dynamically adapts the transmission rate.

Digital rights management (DRM) technology for content right protection is used in combination with device authentication. ITU-T has issued a Recommendation for architecture and requirements of DRM for cable television multiscreen [ITU-T J.1005]. Several types of DRM methods are currently deployed by industries and industry groups, and each method closely depends on content holder's right protection policy. In addition, because cable television multiscreen system can use multiple DRM methods, the contents delivery under the environment is expected to be simple as much as is possible. For example, content encryption scheme [ISO/IEC 23001-7] is commonly used among DRM methods. Common encryption scheme has advantages to reduce storage requirements and bandwidth requirements within IP networks located between cable platform and content delivery network (CDN) because of the content that is encrypted once for DRMs. The effectiveness of [ISO/IEC 23001-7] is very similar to the one of Simulcrypt (see [b-ETSI TS 103 197]). The structural relationship of cable platform and CDN is referred to in Appendix I.