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Amendment 1
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SERIES H: AUDIOVISUAL AND MULTIMEDIA SYSTEMS

IPTV multimedia services and applications for IPTV –
IPTV application event handling

Application event handling for IPTV services:
New video handling sensor event scenario in
Appendix II

Amendment 1

CAUTION !

PREPUBLISHED RECOMMENDATION

This prepublication is an unedited version of a recently approved Recommendation. It will be replaced by the published version after editing. Therefore, there will be differences between this prepublication and the published version.

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Application event handling for IPTV services: New video handling sensor event scenario in Appendix II

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Draft new Recommendation ITU-T H.740 Amd.1

Application event handling for IPTV services: New video handling sensor event scenario in Appendix II

Summary

Recommendation ITU-T H.740 provides a framework for application event handling for IPTV, such as emergency alert and audience measurement. This Recommendation provides a basic framework for application event model, application event description and notification, metadata model, delivery methods and security mechanism for application event for IPTV.

Amendment 1 includes a new use-case about video handling sensor event. This event can be used supplemental information of audience measurement and other IPTV applications.

1 Scope

This Recommendation provides a framework for application event handling for IPTV. An application event is a specific user interaction or an occurrence related with multimedia content in IPTV. This Recommendation describes general aspects for IPTV application event services, such as emergency alert and audience measurement. This Recommendation provides a basic framework for application event model, application event description and notification, metadata model, delivery methods and security mechanism for application event for IPTV.

2 References

The following ITU-T Recommendations and other references contain provisions which, through reference in this text, constitute provisions of this Recommendation. At the time of publication, the editions indicated were valid. All Recommendations and other references are subject to revision; users of this Recommendation are therefore encouraged to investigate the possibility of applying the most recent edition of the Recommendations and other references listed below. A list of the currently valid ITU-T Recommendations is regularly published. The reference to a document within this Recommendation does not give it, as a stand-alone document, the status of a Recommendation.

[IETF RFC 2046] IETF RFC 2046 (1996), Multipurpose Internet Mail Extensions (MIME) Part Two: Media Types.

3 Definitions

3.1 Terms defined elsewhere

This Recommendation uses the following terms defined elsewhere:

3.1.1 application [b-ITU-T Y.101]: A structured set of capabilities, which provide value-added functionality supported by one or more services.

3.1.2 broadcast [b-ITU-T M.60]: One-way transmission from one point to two or more other points.

3.1.3 content [b-ITU-T T.174]: Encoded generic value, media or non-media data.

3.1.4 end-user [b-ITU-T Y.1910]: The actual user of the products or services.

NOTE – The end-user consumes the product or service. An end-user can optionally be a subscriber.

3.1.5 IPTV [b-ITU-T Y.1901]: Multimedia services such as television/video/audio/text/graphics/data delivered over IP-based networks managed to support the required level of QoS/QoE, security, interactivity and reliability.

3.1.6 IPTV terminal device [b-ITU-T Y.1901]: A terminal device which has ITF functionality, e.g., a set-top box.

3.1.7 linear TV [b-ITU-T Y.1901]: A television service in which a continuous stream flows in real time from the service provider to the terminal device and where the user cannot control the temporal order in which contents are viewed.

3.1.8 metadata [b-ITU-T Y.1901]: Structured, encoded data that describe characteristics of information-bearing entities to aid in the identification, discovery, assessment, and management of the described entities.

NOTE – EPG metadata has many applications and may vary in depth from merely identifying the content package title or information to populate an EPG to providing a complete index of different scenes in a movie or providing business rules detailing how the content package may be displayed, copied, or sold.

3.1.9 service [b-ITU-T Y.101]: A structure set of capabilities intended to support applications.

3.1.10 service provider [b-ITU-T M.1400]: A general reference to an operator that provides telecommunication services to customers and other users either on a tariff or contract basis. A service provider may or may not operate a network. A service provider may or may not be a customer of another service provider.

3.1.11 terminal device (TD) [b-ITU-T Y.1901]: An end-user device which typically presents and/or processes the content, such as a personal computer, a computer peripheral, a mobile device, a TV set, a monitor, a VoIP terminal or an audiovisual media player.

3.1.12 video-on-demand (VoD) [b-ITU-T Y.1901]: A service in which the end-user can, on demand, select and view a video content and where the end-user can control the temporal order in which the video content is viewed (e.g., the ability to start the viewing, pause, fast forward, rewind, etc).

NOTE – The viewing may occur sometime after the selection of the video content.

3.2 Terms defined in this Recommendation

This Recommendation defines the following terms:

3.2.1 application event: An application event is every user interaction or occurrence related with multimedia contents in IPTV applications. It includes an emergency event from event notification services.