

I n t e r n a t i o n a l T e l e c o m m u n i c a t i o n U n i o n

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TELECOMMUNICATION
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OF ITU

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SERIES H: AUDIOVISUAL AND MULTIMEDIA SYSTEMS

Broadband, triple-play and advanced multimedia
services – Advanced multimedia services and applications

Architecture for mobile visual surveillance

Recommendation ITU-T H.626.1

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Architecture for mobile visual surveillance

Summary

The purpose of Recommendation ITU-T H.626.1 is to define architecture, functional requirements, entities, reference points and service control flow for visual surveillance systems with mobile units. The mobile visual surveillance system provides the display and storage of multimedia, such as video, audio, and images, captured by multiple remote cameras over an IP network for consumption by mobile users. It also provides other functionalities such as remote control, alarming and linkage actions, recording and playback.

History

Edition	Recommendation	Approval	Study Group
1.0	ITU-T H.626.1	2013-03-16	16

Keywords

Alarming, architecture, camera, mobile visual surveillance, PTZ control, recording and playback.

FOREWORD

The International Telecommunication Union (ITU) is the United Nations specialized agency in the field of telecommunications, information and communication technologies (ICTs). The ITU Telecommunication Standardization Sector (ITU-T) is a permanent organ of ITU. ITU-T is responsible for studying technical, operating and tariff questions and issuing Recommendations on them with a view to standardizing telecommunications on a worldwide basis.

The World Telecommunication Standardization Assembly (WTSA), which meets every four years, establishes the topics for study by the ITU-T study groups which, in turn, produce Recommendations on these topics.

The approval of ITU-T Recommendations is covered by the procedure laid down in WTSA Resolution 1.

In some areas of information technology which fall within ITU-T's purview, the necessary standards are prepared on a collaborative basis with ISO and IEC.

NOTE

In this Recommendation, the expression "Administration" is used for conciseness to indicate both a telecommunication administration and a recognized operating agency.

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As of the date of approval of this Recommendation, ITU had not received notice of intellectual property, protected by patents, which may be required to implement this Recommendation. However, implementers are cautioned that this may not represent the latest information and are therefore strongly urged to consult the TSB patent database at <http://www.itu.int/ITU-T/ipr/>.

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Architecture for mobile visual surveillance

1 Scope

The visual surveillance (VS) service is a telecommunication service focusing on audio and video application technology that is used to remotely capture multimedia (such as video, image, audio and various alarm signals) and present them to the end user in a friendly manner, based on a managed broadband network with ensured quality, security and reliability.

This Recommendation focuses on the architecture of a visual surveillance system with mobile units, as well as on the service flow related to mobile units, such as a mobile customer unit (M_CU), accessing real-time video streams from a visual surveillance system. This Recommendation defines the architecture, functional requirements, model, entities and reference points of the mobile visual surveillance system, based on the architecture defined in [ITU-T H.626].

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.

- [ITU-T F.743] Recommendation ITU-T F.743 (2009), *Requirements and service description for visual surveillance*.
- [ITU-T H.626] Recommendation ITU-T H.626 (2011), *Architectural requirements for visual surveillance*.
- [ITU-T H.627] Recommendation ITU-T H.627 (2012), *Signalling and protocols for visual surveillance*.
- [ITU-T M.60] Recommendation ITU-T M.60 (1993), *Maintenance terminology and definitions*.
- [ITU-T Y.101] Recommendation ITU-T Y.101 (2000), *Global Information Infrastructure terminology: Terms and definitions*.
- [ITU-T Y.110] Recommendation ITU-T Y.110 (1998), *Global Information Infrastructure principles and framework architecture*.
- [ITU-T Y.2012] Recommendation ITU-T Y.2012 (2010), *Functional requirements and architecture of next generation networks*.
- [IETF RFC 2326] IETF RFC 2326 (1998), *Real Time Streaming Protocol (RTSP)*.

3 Definitions

3.1 Terms defined elsewhere

This Recommendation uses the following terms defined elsewhere:

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