



International Telecommunication Union

ITU-T Focus Group on Internet Protocol Television (FG IPTV)

**Ghassem Koleyani
Nortel Networks
Chairman, FG IPTV**

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- o Structure
- o Working groups activities and deliverables
- o Meeting frequency



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What is IPTV?

IPTV is defined as multimedia services such as television/video/ audio/text/graphics/data delivered over IP based networks managed to provide the required level of QoS/QoE, security, interactivity and reliability.



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Focus group on IPTV

- o Was created in April 2006 at the end of IPTV consultation meeting initiated by the TSB director
- o Open to ITU Member States, Sector Members and Associates, as well as to any individual or corporation from a country which is a member of ITU who wished to contribute to the work. This included individuals or corporations who are also members of international, regional and national organizations according to ITU-T Recommendation A.7



FG IPTV mission statement

The mission of IPTV Focus Group is to coordinate and promote the development of global IPTV standards taking into account the existing work of the ITU study groups as well as Standards Developing Organizations (SDOs), Fora and Consortia.



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Goals of FG IPTV

- Definition of IPTV and identification of scenarios, requirements and service
- Review and gap analysis of existing standards and ongoing works
- Coordination of existing standardization activities
- Harmonization of the development of new standards
- Encourage interoperability with existing systems where possible

Working groups

- o WG 1: Architecture and Requirements
- o WG 2: QoS and Performance Aspects
- o WG 3: Service Security and Content Protection
- o WG 4: IPTV Network Control
- o WG 5: End Systems and Interoperability Aspects
- o WG 6: Middleware, Application and Content Platforms



WG 1: Architecture & requirements

Define service, user and architectural requirements and framework architecture, considering existing IPTV services and solutions by examining deployed scenarios and use cases based on classical IPTV and VoD uses. Examine and explore ways to provide IPTV based on NGN.



WG 1: Architecture & requirements - 2

Work items and deliverables underway:

- o Requirements for IPTV
- o IPTV architecture
- o Service Scenario for IPTV



WG2: QoS & performance aspects

- Champion and promote the development of global QoS and performance standards necessary to ensure high end-user satisfaction, and hence high end-user acceptance, for IPTV services.
- o Identify and assess the suitability of existing material relating to end-to-end QoS and QoE for IPTV
 - o Identify areas where further work is needed, and coordinate and harmonize activities in ITU-T, other SDO's and Fora and Consortia.

WG2: QoS & performance aspects -2

Work items and deliverables underway:

- o QoE requirements for IPTV
- o Traffic management for IPTV
- o Application layer reliability solutions for IPTV
- o Performance monitoring for IPTV



WG3: Service security & content protection

- o To provide a focus to address the urgent needs for globally accepted IPTV security standards as the market demands.
- o To define the security architecture, identify and if necessary initiate the development of the security mechanisms and interface specifications for IPTV, which will satisfy the Business & Security requirements and align with the IPTV system architecture.

WG3: Service security & content protection -2

Work items and deliverables underway:

- o Analyse the security threats
- o IPTV security requirements
- o IPTV security architecture, trust models, function modules and interfaces
- o Authentication, authorization, content protection and other security signal process mechanisms
- o Development of the security interface specifications



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WG4: IPTV network control

Focus and emphasis on:

- Naming, addressing, and identification aspects
- Control and signaling mechanisms
- Content distribution and data plane aspects
- Access & Home network issues
- Related issues



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WG4: IPTV network control - 2

Work items and deliverables underway:

- o Requirements of IPTV Network control aspects
- o Control and signalling aspect for IPTV architecture



WG5: End systems & interoperability

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Engaged in activities related to:

- o Terminals
 - Implementation Scenario
 - Functional, Software and Hardware Architecture
 - Protocol, Codec, Management, Security and DRM
- o Home Network
 - HN architecture and solutions related to IPTV
 - QoE (Quality of Experience)
 - Security/DRM
- o Remote Management
- o Interoperability



WG5:End systems & interoperability - 2

Work items and deliverables underway:

- o IPTV End Systems
- o Implementation scenarios
- o Home network architecture
- o Terminal remote management
- o Interoperability

WG 6: Middleware, application & content platforms

Identify and define middleware platforms, including applications, content formats, and their uses, that facilitate effective and interoperable use of an IPTV system for presenting and interacting with IPTV services.

The examples of the topics include:

- o Content Presentation and Execution Engines
- o Content Navigation Applications,
- o Metadata and Content Discovery
- o Audio and Video coding



WG 6: Middleware, application & content platforms - 2

Work items and deliverables underway:

- o IPTV Middleware, Applications, and Content Platforms
- o Identification of use cases and requirements
- o Review and analyze existing standards to find any gaps seen against the requirements of these Service aspects

Meeting frequency

- Will meet approximately every three months
- Second meeting, 16 - 20 October, Busan Republic of Korea
- Third meeting, 22-26 January 2007, Mountain View, CA, USA
- Fourth meeting, 7-11 May 2007
- Fifth meeting, 9-13 July 2007



More information

<http://www.itu.int/ITU-T/IPTV>

**No need for either a user Id or a password
Open to the public**



Thank you for your attention