

Who Should Attend

Engineering managers, developers, and technicians who need to know about the key parts and technologies, operation and equipment for planning, designing, and implementing IPTV Systems.

Objectives

- Identify the functional parts and basic operation of managed and unmanaged IPTV systems.
- What protocols are commonly used by IPTV systems and how they work.
- Important testing requirements that help to ensure quality of service and interoperability.
- The different types of devices used to view IPTV.
- Discover the different options on how to setup and distribute IPTV signals in the premises.
- Learn how digital rights management system work and why they are so important to IPTV.
- The fundamentals of IP Video and IP Audio.
- Describe the types of data multicasting.
- Explain the different types of media transmission formats and the evolution of MPEG and WMP.

Prerequisites

Knowledge of digital and analog signals, data networks and basic understanding of software protocols is desirable.

Summary Outline

IPTV Systems

- TVoDSL
- IPCATV
- WBBTV
- ITVSP

IPTV Viewing Devices

- IP STB
- IP Televisions
- Soft Client TV

Media Transmission Technologies

- MPEG-1
- MPEG-2
- MPEG-4
- WMP

IP Video

- AVC/H.264
- VC-1

IP Audio

- Musicam
- MP3

Protocols

- IGMP
- SIP

Digital Rights Management (DRM)

- XrML
- SVP

Premises Distribution Options

- CAT5 Cable
- Coax
- Power Line
- Phone Line
- Wireless

Data Multicasting

- Shared Tree
- Source Tree

Testing

- QoS
- Interoperability