

DATA SHEET: IPTV INTEROPERABILITY SHOWCASE

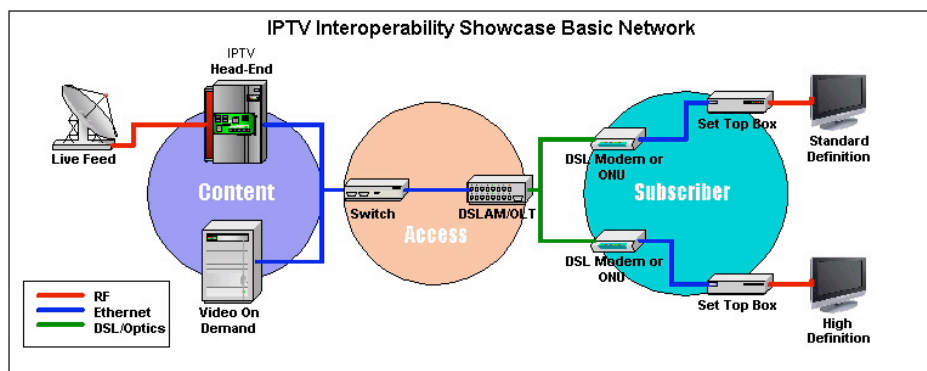


University
of New Hampshire
InterOperability
Laboratory

Interoperability: the lifeblood of data-communications

The TelcoTV Trade Show has chosen the University of New Hampshire InterOperability Laboratory to power a public, multi-vendor demonstration of Internet Protocol Television (IPTV) interoperability, the industry's first.

Not specific to any one company or product, the IPTV Interoperability Showcase (IIS) is a multi-vendor video deployment demonstration of a live IP video network running on the TelcoTV trade show floor.



This demonstration unites DSL and optical access platforms, middleware, content protection, head-ends, set-top boxes and VOD servers in a single network.

Live (satellite broadcast radio frequency) and stored video on demand (VOD) content arrives from an IPTV head-end and a VOD server respectively.

An edge switch channels the content to a DSLAM or ONT which then distributes it to subscribers over fiber optic cable (to an ONU) or copper via DSL. Consumer set-top boxes receive the content via Ethernet, where it is converted back to either standard definition or high definition television.

This demonstration represents companies working together to prove that all of the pieces of the technology do indeed work together and that their products will work with each other when carriers place them in their networks. Vendor interoperability means network operators can select equipment from a full spectrum of providers. Thus, interoperability examples such as this demonstrate forward-looking companies' willingness to cooperate for the advancement of the industry.

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IPTV - PUTTING ALL THE PIECES TOGETHER

CONTENT

- VIDEO ON DEMAND
- IPTV HEAD-ENDS

ACCESS

- ONTS
- DSLAMS

SUBSCRIBER

- MODEMS
- SET TOP BOXES



Companies participating in the IPTV Interoperability Showcase are:

Access Platforms	Head-ends	VOD	Set-Top Boxes	Content Protection	DSL Modems
Calix Occam Networks Optical Solutions Pannaway	Optibase Skystream Tut System	Kasenna	Amino Thomson Wegener	Irdeto Verimatrix	Westell Comtrend

The live content feed is provided by Eagle Broadband's IPTV Complete Service.

IPTV is in its infancy. Like any new technology, its growth depends on how well a myriad of different pieces mesh with each other. As yet there is no final, overall reference architecture for IPTV. The industry needs to establish standardized metrics and functionality requirements for performance and content security (digital rights management). End-to-end quality of service is needed to support varied services (voice, video and data) in the same network. Developing standards for testing components in the video delivery network and for ensuring interoperability between different manufacturers' devices is an ongoing process. Rigorous interoperability testing through standardization will drive IPTV forward as the premier service of telecom providers.



About the University of New Hampshire InterOperability Laboratory

The UNH-IOL has been working with members of the networking and data-communications industry for more than a decade to objectively test conformance and interoperability between devices and technologies.

A commercially funded arm of the UNH Research Computing Center, the laboratory operates in 32,000 square feet of highly dense networking and interoperability testing space in Durham, New Hampshire. The UNH-IOL provides commercial testing services to companies in 19 different fields of data-communications, including DSL, VoIP, wireless LAN, EPON, Gigabit Ethernet, Power over Ethernet, IPv6, Fibre Channel, iWARP, Fast Ethernet and MPLS Services. Companies pay an annual membership fee for which they receive testing for as many devices as they wish, as often as scheduling allows. Approximately 200 companies are currently members of the UNH-IOL.

The UNH-IOL is the only full-scale, non-profit test lab in the world dedicated to fostering cooperation and understanding within the data communications industry while at the same time providing hands-on experience to future engineers. The laboratory encourages interoperability through multi-vendor group test events ("Plugfests"), generates industry recognized reports on devices tested through its test suites, and provides a neutral environment where members can perform private, one-on-one testing and debugging.



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121 Technology Dr.,
Durham, N.H. 03824

603-862-0090