

IP NETWORK INTERFACE CONSULTANCY SERVICE

▶ CONSULTANCY SERVICES

Video compression headends, contribution and distribution systems are increasingly using Internet Protocol (IP) networks for the transfer of high-value content. IP technology is used for various types of communication. And because digital television deals with issues such as multicast and real-time transmission, it is necessary to carefully study and specify the IP infrastructure. Thomson Video Networks has been designing and installing Video over IP (VoIP) networks for many years and prides itself on offering quality expertise and consultancy through its professional services so its customers are sure to get it right the first time.

Digital television systems are increasingly using IP-network technology because of its reduced price and increased flexibility. Operators use IP for internally routing between key components such as encoders and multiplexers. They also use IP technology to communicate over wide area networks (WANs) for long-distance content exchange. In some cases it is also needed to connect the Thomson XMS Management System to the customer's corporate IT/IP infrastructure.

As is the case for SDI/ASI routers, configuring the IP infrastructure internally through to the headend is part of the headend configuration. Interfacing a compression system to an external or corporate IP infrastructure often requires in-depth expertise to ensure compatibility to various digital television specificities - multicast, redundancy, jitter, packet drop - and hence correctly deliver a service.

Thomson Video Networks boasts the experience and knowledge necessary to provide effective IP-network functioning. The company can also analyze an existing IP infrastructure and provide accurate recommendations as to how best deliver a good-quality service over an IP network. In fact, Thomson Video Networks is well positioned to offer expertise on all aspects and stages of managing a modern digital television system — from design, installation and configuration of certain points to the construction of a complete all-IP transport network.

This type of consultancy is recommended each time an operator interfaces a digital television system to an external or corporate IP network.

A Thomson Video Networks IP specialist, who is familiar with all aspects of a digital TV system, performs the consultancy service, which lasts for one week. This specialist works closely with the customer's headend and IP technical experts to thoroughly understand the customer's IP interface requirements and needed improvements. If necessary, Thomson Video Networks will perform test and measurement tasks, either through VPN access or on site. The company will then issue a report with interface optimization recommendations. While the customer is responsible for applying these recommendations, Thomson Video Networks is available to assist its customers in performing these tasks.

▶ DELIVERABLES

Detailed Questionnaire:

Along with a report on the current architecture, the questionnaire clarifies:

- Headend architecture
- Service status (on air, etc.)
- IP interface requirements
- Security requirement
- Redundancy requirements
- IP addressing plans
- IT servers (DNS, Domain controller, etc.)

IP Interfacing Analysis and Testing:

- If necessary testing customer network
- If necessary analysis and troubleshooting of IP captures

Solution Recommendations:

A report is issued with recommendations about optimization of the overall system

- Headend architecture update
- Network architecture update
- Recommendations regarding network equipment configuration and settings

▶ ORDERING INFORMATION

S-EXP-NI-IP: IP Network interface

Consultancy Services: IP Network

Interface Consultancy Service: to analyze the ext. IP infrastructure and to provide accurate recommendations so as to correctly deliver the service over an external IP network. One week. Travel and living expenses not included.