

Solutions

Triax IP-TV solutions

What is IPTV

Components typically used in
Triax IPTV solutions

Examples



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TRIAX IPTV solutions

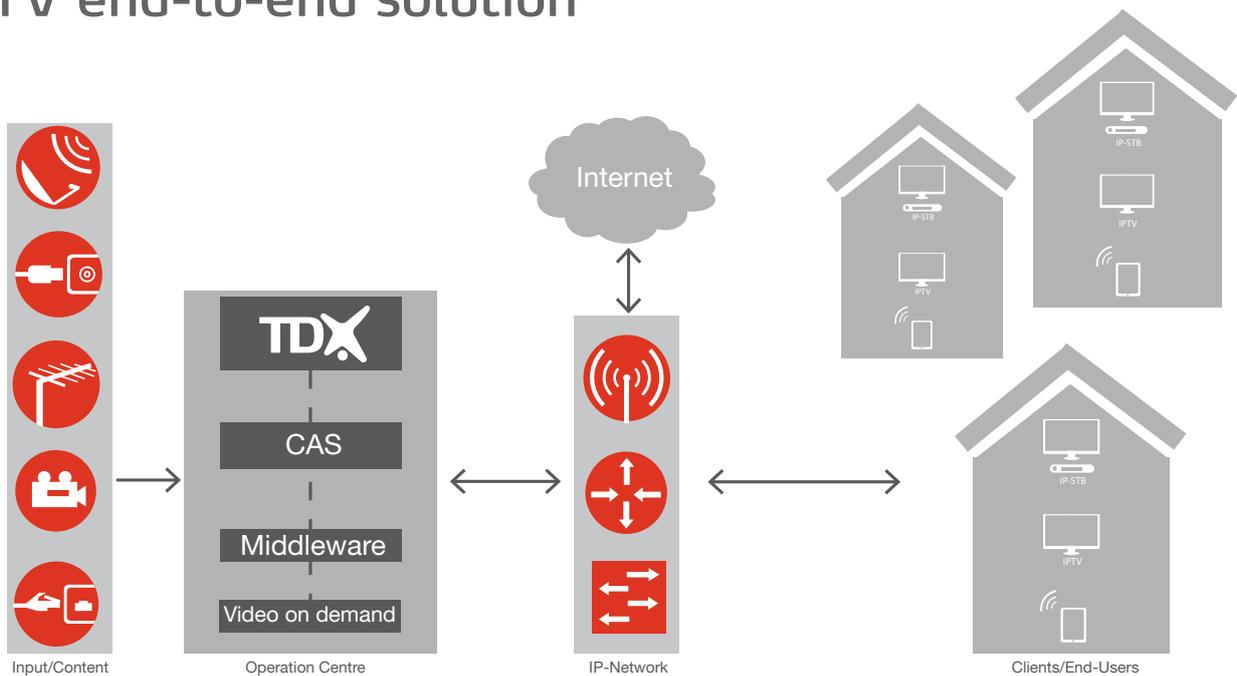
Innovative thinking, service orientation, easy to use and advanced technology – these are key words in Triax IPTV solutions. We offer end-to-end IPTV solutions for many different applications like hospitals, corporate buildings, compounds, hotels etc. We can provide hardware, software products as well as a full IPTV solution that perfectly fits to our customer's needs.

What is IPTV

IPTV (Internet Protocol TV) systems offer customized features. Live TV channels can be viewed on TV, smart devices and computers. Clients can have access to valuable customized information, portals like Facebook, VoD, catchup TV, pause TV, messaging and much more.

IPTV brings a new level of control and flexibility to the TV distribution.

IPTV end-to-end solution



Components typically used in Triax IPTV solutions



Triax IPTV Gateway – TDX

Triax TDX headend/gateway is the core of our IPTV solution. With our own developed headend you are able to receive both DVB and IP inputs and on the output site you can freely choose the IP signal in combination with DVB signals, this gives you full freedom to combine an IPTV solution with a traditional DVB installation.

The Graphic User Interface of the headend helps to easy management of the channel lists, epg etc. The IP output is distributed as a multicast stream into the IP network. Multicast management protocol ensures that streams which are not required on a particular network segment are not forwarded which maximizes the efficiency of the network.

Middleware

The middleware is the central software that defines user interfaces and set available services in an IPTV solution. Triax can provide scalable solutions, typically a basic module with international TV & radio channels, language support, Information and messaging possibilities. Additionally add-on modules can be provided as standard or customized solutions from small scale to high-end infotainment solutions.



Conditional Access System (CAS)

We work with partners specialized on high-end security solutions. Our CAS solutions enable content providers and broadcasters to feel secure! Our CAS solutions enable access for subscribed customers to view the services they pay for by smartcard or individual keys. But essential for the system is the ability to prevent unauthorized viewers to access the services.

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IP Network

The performance of the IPTV solution is dependent on the IP network. We recommend to architect your network carefully and only to use recommended network components. Triax can provide network components for transporting streams from the headend to the end user.

Switch

The switch is the backbone of an IP network. A network switch is a computer networking device that links network “hosts” or network “users”. The switch can handle security, bandwidth, multicast, broadcast, Unicast, routing, even IP addresses (IP addresses are normally being handled by a router) and much more. Switches allow different users/devices of a network to communicate directly with one another in a smooth and efficient manner. Triax focus on Ethernet networks that use LAN switches. Switches that provide a separate connection for each user/device in an internal network are called LAN switches.



Wireless IP equipment

Wi-Fi is a wireless networking technology that uses radio waves to provide wireless network connections between a user/device and a Wireless Access Point (WAP or AP).

Multicast streaming video places a huge strain on Wi-Fi networks. With dynamic multicast optimization, our preferred hardware goes beyond “tagging” and forwarding video traffic to intelligently identify video requests and convert multicast traffic to unicast traffic destined to just those clients subscribed to a given feed.



Routers

A router’s main purpose is to divide two networks. The two networks could be an office network and the Internet or an “administration network” or a “guest network” in a company. A router is often referred to as a “gateway” – technically seen a gateway could also be a firewall, a switch, headend or similar equipment.





Firewall:

A Firewall is a unit that is very similar to a router in many ways. But a firewall has more features and is more intelligent than the router. The firewall is able to inspect the data sent through it and stops hackers, viruses and other destructive data from the Internet.

Cable

The optimal infrastructure for IPTV is Cat6 or above or FTTH (Fibre to the home), however many buildings are already installed with coax cables. Triax can provide solutions for IPTV over coax.

Triax manufacture all kinds of quality cables for IP and coax networks. In the cable section of this catalogue you can find a range of cables and connectors.



Multiscreen

With a multiscreen solution you get complete freedom to watch live TV any-where at any-time, not only on traditional TV sets but also on tablets and smart-phones. Our multiscreen solution is provided in our middleware solution as add-on feature.



IP Set Top Box

With the IP receiver the end-user gets access to the whole spectrum of possibilities the IPTV solution offers. In the middleware solution the services are made available for the viewer via the set top boxes.



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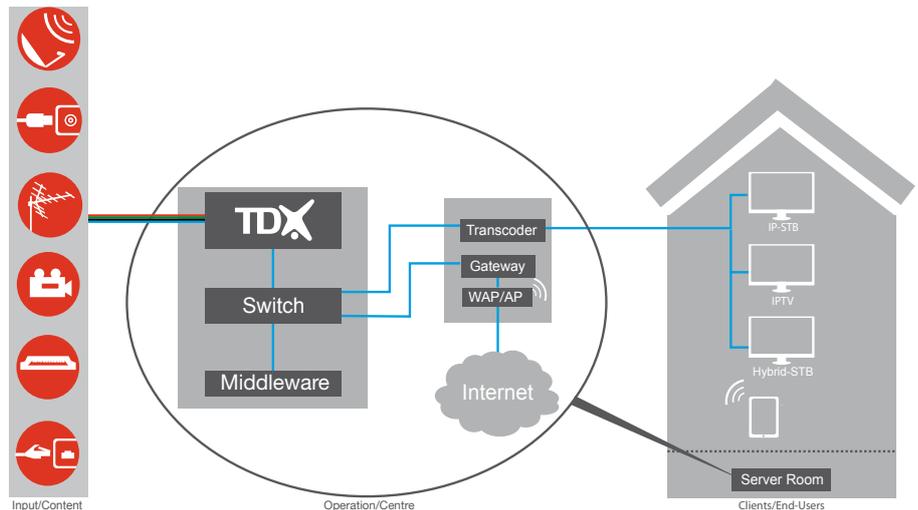
IPTV as a distribution technology

Full middleware solution

The combination of an IP headend and middleware addresses the fundamental needs of IPTV and Internet access for hotels, hospitals, cruise ships etc. To increase the revenue per guest a vast range of options for the multi-media promotion of different products and services are readily available. In cooperation with our partners we offer a wide range of IPTV solutions in this area.

Your benefits

- Tablet solution for remote control and live TV streaming
- Meeting / Conference room solution: Connect, present, browse, control!
- Hotel Info-Channel
- Time shift
- PVR – Personal Video Recorder
- Internet on TV



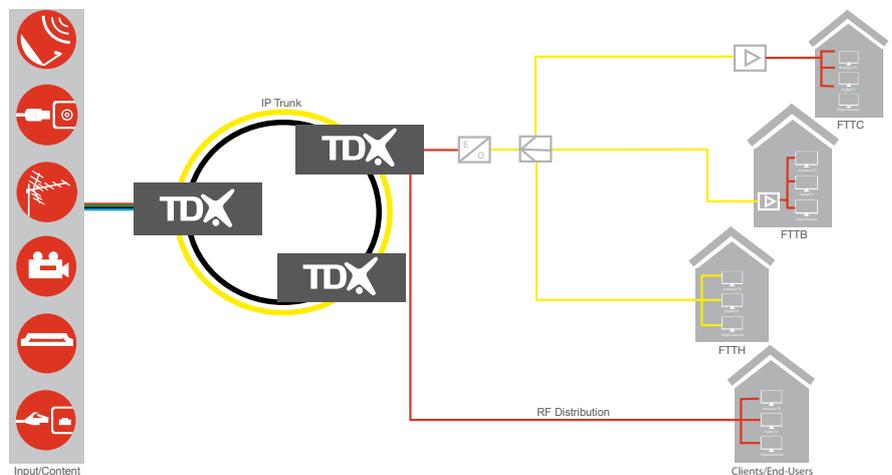
TDX as part of a fibre distribution

Increasingly, the existing optical CATV fibre networks (maybe in the past distributing analog modulated TV signals) are more and more used to transmit IP TV Services between the central headend and sub headend. Also the distribution cells in new system architectures are planned smaller. One reason for this is the feed-in of Internet services and providing bandwidth for Internet services to the end customer.

These distribution cells can be built up as an RF distribution network or as an optical distribution network. There are different technologies for building up the system in terms of optical distribution. FTTC (Fibre to the curb), the optical distribution ends at the street cabinet. FTTB (Fibre to the block), the fibre reaches the boundary of the building. FTTH (Fibre to the Home), the fibre reaches the living room.

Your benefits

- Easy signal handling and management
- Independent RF distribution per cell possible
- Smaller RF-distribution cells
- Redundancy systems with lower investments possible



- questions when create you own professional IPTV solution - just ask Triax