

BROADCAST NGN



## Performance at the highest level

The future of transmission technology is Internet Protocol, IP. And that's not just in the IT and telecommunications sector, but also increasingly in the media sector. At MEDIA BROADCAST the future has already started with the launch of BROADCAST NGN. This "Next Generation Network" opens up completely new possibilities for TV channels, production companies and other media companies for networked working and convergent, and therefore effective, use of existing network resources. The use of appropriate protocols such as MPLS allows broadband real-time applications with different service levels.

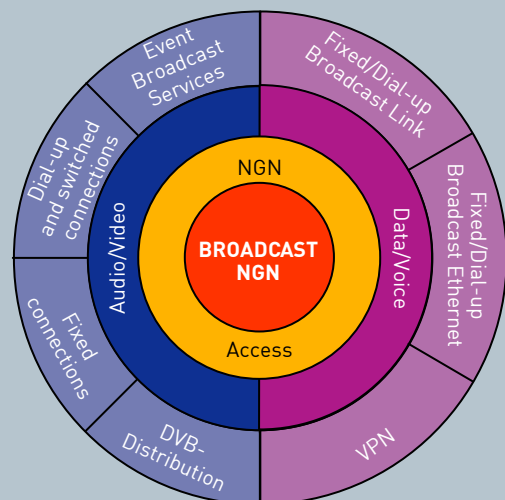
The new IP applications are oriented towards the current requirements of the industry, such as file-based services and the ability to access central storage media directly. They can be split into two areas that have so far mostly been realized via separate networks:

- the transmission of TV and radio content
- data and voice applications (ICT services)

These services will replace existing services in special networks. One example of this is ATM Broadcast Services, which will be migrated to the BROADCAST NGN from 2011. On the other hand, new services will supplement the portfolio.

### Innovations in many areas

Besides the many new service offers, the BROADCAST NGN also makes it possible to structure new rate models such as volume-dependent offers or the booking of last-minute capacities between existing locations.



Flexible network management systems allow customers much more than before to activate switches in their own VPN and make changes in the service profiles, e.g. bandwidth, themselves at short notice. Provisioning times for transmission capacity for events can also decrease considerably.

## Flexibility across the board

With its support of all traditional broadcasting formats, from AES/EBU to uncompressed 1.485 Gbps HDTV signals, and with many new, open IP interfaces (10/100/1000 Ethernet), the BROADCAST NGN meets requirements for flexible services.

## Security as a priority

The new, universal transmission platform will change nothing in terms of access security. This remains the top priority, a multi-stage, end-to-end access concept in conjunction with state-of-the-art technical precautions guarantees the confidentiality of the data to be transmitted.

## Service as customers like it

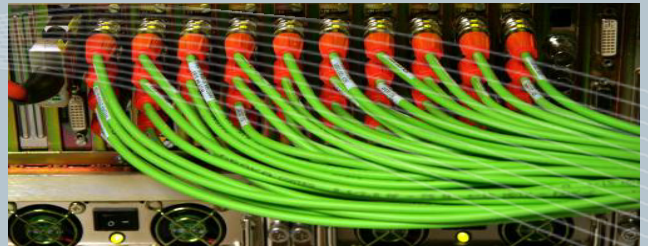
The service offer includes several classes, ranging from the ability to reroute manually without back-up, through to complete 2-way routing and even the addition of a 2nd signal source in case of error.

## The network grows too

In line with the increasing demands made of services operated via the BROADCAST NGN, MEDIA BROADCAST will also push ahead with the roll-out of the network infrastructure. The current offers are being migrated to the new network step by step. By 2010 the current switched network including it's access network is to be fully switched to the new IP platform.

Additional access points will then be available around the country and the total transmission capacity of the network will be a many times the current level.

Integration in international networks will also be realized, allowing content to be transmitted worldwide via IP.



## Our BROADCAST NGN today:

- Universal IP network for the transmission of video, audio, data and voice
- Innovative broadcast applications
- Migration of existing services and networks
- MPLS-based network with quality of service for live and real-time transmissions
- In future, individual and short-notice switching at the customer's premises
- Different service levels and classes
- Multi-layer, overarching security concept
- Worldwide standard, open to future applications

## New features from 2010:

- Compressed SD/HD-SDI transmissions via JPEG2000 codecs
- Virtual AV and data networks with dedicated BROADCAST NGN bandwidth
- Scalable Ethernet connections via FE or GE interfaces
- Broadband Internet access
- Interconnection to international carriers