

Competences Funea Broadband Services bv

The competences of Funea Broadband Services bv are focused on the transmission of broadband RF (PAL-TV /FM-Radio/QAM/QPSK) between head-end and subscriber, using FTTH technology. In our point of view, a switched 10/100 Mb Ethernet based FTTH network does not provide enough bandwidth to provide subscribers constant access to various video/audio programs on all standard TV-sets and video-recorders like they used to via a HFC-network. The success of FTTH will be the combination of both networks using the same infrastructure but different fibers: two fibers to every subscriber. Based on this view, we are open to any supplier offering Ethernet based end-to-end FTTH systems, to integrate our solution. We can provide the necessary optical RF-receiver as a plug-in unit, using our competence to discuss and define with supplier both mechanical lay-out and electrical/optical interfacing, to fit perfectly in supplier's subscriber unit.

FTTH RF-Network engineering:

- RF concept development
development of a FTTH-access network concept based on specified parameters for channel-load and signal quality using available and new developed equipment.
- network design
FTTH-access network design based on the given (or developed) network-concept.
- upgrade design
upgrade design of existing HFC-networks to full-service FTTH-networks.
- implementation
implementation of equipment and cabling in head-end and optical hubs/city-centers based on underlying concept and specifications.
- transmission calculation
theoretic calculation of the RF transmission-parameters of a full FTTH-network: CSO, CTB, C/N (IMA)

FTTH RF-Network consultancy:

- outline plan
outline plan and recommendation for network design or upgrade; time schedule
- draft proposal
calculation of estimated costs; core prices
- layout evaluation
Technical evaluation of the network layout both upstream and downstream based on given parameters for channel-load, signal-quality and number of homes-past per upstream cluster.
- error correlation
Determine the cause of incidental or continuous malfunction of (modem) services in the RF-network based on error correlation. An interrupt of services may occur due to different errors in design, equipment or concept.

FTTH RF-Network service:

- benchmark testing
testing of the RF transmission parameters;
- quality audits
full audit of the network based on pre-arranged methods and depth.
- leveling control
control of RF-levels of all carriers on desired parts or whole network.
- error correction
repair of network errors due equipment failure, cable damage or break, etc.
- preventive and corrective maintenance
both electrical and mechanical maintenance of FTTH RF-networks; reports including recommendations (and pricing) for repair or improvement.
- 24 hours call-service
call-service for malfunction-reports available 24-hours a day.

FTTH RF-Network installation

- turn-key installation
all-in installation, upgrade or extension of RF-equipment in head-end, hubs or city-centers.
- project management
organization of the labour and engineering necessary to successfully complete a project.
- service on demand
installation assistance on site: skilled labour of fully equipped technicians on a per hour or per project base.

Training

- Product training
Technical education covering the FTTH-product portfolio of Funea Broadband Services bv.
- System training
Customer tailed introduction to FTTH RF-network concepts and solutions.
- Facilities
Funea Broadband Services bv has its own in-house educational facility, but also provides training course on site at the client's premises.