

Weserve, a Netherlands ISP, uses Raisecom to provide Gigabit broadband services to thousands of underserved customers



Weserve B.V. is an ISP operating in Netherlands, providing a wide range of services from broadband to the home all the way to the most advanced hosting packages. Weserve owns and operates much of their own infrastructure, including data centers and fiber connections to the Internet backbone.

When the rural province of Drenthe joined forces to build infrastructure for broadband connectivity to its residents, Weserve was selected to provide L2 & L3 gigabit services to the homes. Drenthe built a L1 fiber network, as distances between homes and homes and the POPs in the province are quite large, while Weserve opted to build a L2 FTTH network.

Weserve is committed to providing its customers with the highest level of service, so network redundancy and resiliency was of primary importance. Scalability was another key factor, as they wanted the ability to serve more customers from each location if needed. Due to the large distances involved, the network equipment had to be managed and configured remotely and also provide redundant hardware components. And since they were serving a rural region, cost considerations were critical and they had to be able to generate a positive ROI on their new FTTH network.

Raisecom's equipment was selected for both the backbone and the access network. ISCOM 3000 series switches ran highly resilient 10Ge rings between POPs and inside the POPs. Each POP also ran a 10Gig ring for connectivity to the backbone. This network topology yielded very high resilience and low susceptibility to single points of failure.

Using Raisecom switches for both access and backbone was easier for network operations, as management and configuration are similar. The equipment could be managed remotely and each switch has a redundant power supply and fan for increased MTBF. Raisecom switches also operate as L3 access points, and Weserve can use them to provide L3 functionality like routing, saving on additional equipment costs. The entire project yielded a positive ROI with a few hundred homes connected to each POP.

Residents received Gigabit connections that support rich media HD and 4K streams, including multiple device streaming per household. The province is extremely pleased to offer residents broadband connectivity that was impossible to deliver previously.

Highlights:

- Deliver Gigabit broadband services that support rich media to homes and business throughout the region
- Highly resilient backbone rings scaling up to 40Gig between POPs
- Highly resilient access rings scaling up to 10Gig
- L3 access functionality built in to access switches
- Easy to deploy and manage
- High ROI in rural setting

Ariel Caner, Regional Business Development manager of Raisecom said:

“Using Raisecom for both the backbone and the access of a new FTTH network conferred significant cost savings and management advantages to Weserve. We’re more than pleased to offer a solution for rural broadband that can be deployed with a positive return to the ISP. This is a critical enabler for delivering broadband Internet to underserved customers”.