

An Excellent Formula for a Regional Network



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Take: a lot of room, sturdy fiber optic bundles, a clever corporate strategy combined with a large portion of customer orientation and a highly efficient installation concept, which brings everything to fruition. The formula for success could be rewritten exactly in this way for osnatel, a regional carrier that is becoming increasingly faster, more flexible and powerful. The R&M Fiber Optic Management System is part of the optimally balanced formula for the future.

osnatel GmbH is pushing ahead with the development of their regional network including a powerful exchange in Georgsmarienhütte and the reinforcing of the node at the corporate site in Osnabrück. The new hub in Georgsmarienhütte has a great future. On several hundred square meters, there is room for the company's own distributors, internal and external gateways as well as for server housing and carrier hotel services.

A regional network that grew rapidly
Thorsten Meyer, team manager of osnatel transmission technology explained: "The basis for the large project was our need for a second exchange facility to support the regional network, which has grown rapidly in the past five years". In addition, osnatel wanted to be able to respond more flexibly to customer requirements and specifications from its own network operation. Space limits were reached in the Osnabrück corporate center. Action was needed. The energy supplier, EWE AG, majority shareholder of the osnatel GmbH, was able to provide a favorable infrastructure with the construction of the exchange in Georgsmarienhütte – ten kilometers south of Osnabrück.

With the new construction, the opportunity arose to implement an infrastructure design that was well thought out from the beginning. The fiber optic distributor acting as the central point is starlike connected via two fiber optic cables to every system and creates a quick connection between switching, information and network technology. Depending on need,



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R&M FOM distributor with Uniracks including drag chain guide and double overlength management.

patch panels can rapidly be installed in the appropriate cabinet positions without extensive cabling work. This creates planning security and great flexibility without major pre-investments. For carrier connections or rapid exchange system expansions, the connection takes place via one-side assembled breakout cables with a 25 m unit length, which, depending on the application, are coupled and directly spliced open in the FOM distri-

butor. Thorsten Meyer said: "Thanks to this supply concept, we were able to shorten our response time from three to four weeks to a maximum of one week". Another example of efficient formulas à la osnatel: there are only uniform patch cable lengths. This simplifies storage and provides uniform processes. R&M E-2000™ APC 8 connectors are used as the standard.

25 local exchange networks and 614-kilometer of regional fiber optic network

osnatel GmbH has become one of the strongest network operators in the Osnabrück region. Attractive services for private customers, such as free telephone calls within all the local networks of the direct connection area resulted in this success. The catchment area in the German federal states of Lower Saxony and North Rhine Westfalia has approximately 1 million people and is characterized by a versatile industry. The subsidiary of the energy supplier, EWE AG, and the Stadtwerke Osnabrück AG has developed 25 local exchange networks for their telephone, Internet, data and system services since the year 2000. osnatel has a 614 kilometer long fiber optic interconnection network and more than 400 km of a subscriber network with copper twisted pair. SDH and GbE technologies (up to 10 Gbit/s) are used in the backbone network.



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osnatel and R&M are ready for new action: Andreas Wenzl (R&M, left) Thorsten Meyer (osnatel Transmission Technology Team Manager, center) and Jürgen Alberti (osnatel Network Planning, right).

Efficiency with the Fiber Optic Management System

The R&M Fiber Optic Management System (FOM) plays a pivotal role in the new exchange with its cabinets specifically adapted to the needs of osnatel. The feeding of the loose tubes from the double floor to the individual UniRacks occurs separately. Robust flexible tubes guide the cable well protected through the cabinet.

Well organized patch panels in easy-to-handle sliding tray technique allow osnatel technicians to work very quickly and in an uncomplicated and efficient manner while protecting the fiber. The patch cable guide via drag chains, alternations, strain relief and the chamber with the cable reserve are all designed for maximum protection of the cables and for easy handling. Brackets already exist for transferring cables into the next cabinets for subsequent development.

osnatel reinforced the existing node at the corporate site in Osnabrück at the same time as the distribution center in Georgsmarienhütte was being built. The network, which had grown rapidly, needed to be supported with additional fiber optic distribution systems in order

to meet the market requirements. R&M supplied compact FOM cabinets with a small installation depth, which seamlessly blend into the expanded infrastructure in particularly tight and windy conditions in the basement of the main building. Thorsten Meyer summed up the situation: "We need these surfaces and distribution technologies to be able to respond quickly and flexibly, to fulfill new requirements and provide new services. Long-term, we are ready for any situation with our fiber optic infrastructure". The R&M FOM system clearly contributes to the improved efficiency. The vision of a Next Generation Network is noticeably in his mind.



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osnatel believes in the high R&M quality.

E-2000™ manufactured under license be Diamond SA, Losone.

FOM: easy handling, complete network availability

A new era of efficient network management started at osnatel with the installation of R&M Fiber Optic Management Systems (FOM). Now, 25 local exchange networks, many sub-distributors and small distributors as well as connections of major customers can now be more reliably and flexibly supplied than ever. The adaptable, modular FOM cabinets with the UniRacks mounted with the sliding tray technique, facilitate and accelerate splicing, patching and service work in high-speed distribution networks. R&M planned many features, which prevent a mechanical effect on the vulnerable cables. Installers have the easily accessible fiber storage and fiber guide under control so that convenient handling, increased security and thus, complete network availability are guaranteed.

get more

for osnatel

- Efficient Fiber Optic Management
- Improved response time
- Adaptable cabinet solution
- Excellent price-performance ratio

