

The Very Best Connections for Five Million Customers

Mobitel, Bulgaria's market leader in the mobile telephony sector, has reacted to the mega trend of Big Data by upgrading its data center infrastructure. And R&M provided the necessary connectivity.

From the beginning of the digital age up until 2003, humanity generated a total of five exabytes of digital data (10 to the power of 18 bytes). By 2011, this amount was being created every two days, by 2013 every ten minutes – and by 2015 every five seconds. This dramatic increase is a major challenge for providers of telecommunication networks.



Fiber optics from Sofia to Beijing

With a market share of 50.1 percent, Mobitel is the leading Bulgarian mobile telephony supplier. It also provides its 5.3 million customers with fixed line services, in other words telephony, Internet and TV. Over the last few years, the company has invested around 1.78 billion euros in its infrastructure. Mobitel now has its own FO network with a total length of more than 7500 kilometers – around the distance between Sofia and Beijing. GSM coverage is more than 99.99% in relation to the number of inhabitants.

The Telekom Austria Group subsidiary was founded in 1994. In September 1995, it began commercial operations with what was then Bulgaria's first digital mobile communications network. Today, every third Bulgarian household is connected to Mobitel's fixed line network. This makes the company the largest provider in Bulgaria in the fixed line/Internet sector and the second largest for TV connections. In 2014, Mobitel posted sales revenues of 371.3 million euros.

Reaching for the sky

To ensure further successful development and fulfill increasing customer requirements, Mobitel required a new FO infrastructure in its data centers. The existing cabling was based on SC connectivity and fiber category OM2. This made it necessary to upgrade to category OM3 and LC connectivity to enable higher density in the patch panels.



R&M caught Mobitel's eye at a roadshow. After a presentation by Alexander Petrov, Managing Director of R&M Bulgaria, Mobitel's DC professionals visited the production plant in Bulgaria, met the designer team and were informed in detail about R&M DC solutions.

The major advantages for the client were the compelling product quality, the high density in the patch panel, short delivery times as well as the expert advice from the local R&M team. Mobitel now has data center infrastructure that provides plenty of scope for future developments: It is simple to migrate to 40/100 Gigabit Ethernet when required.



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Facts & Figures: Mobitel Bulgaria data center infrastructure:

- 28 3U global racks
- 144 MPO/MTP OM3 modules
- 72 OM3 trunk cables
- 24 UniRack2 LCD OM3
- 192 fiber optic modules LCD OM3