

Upgraded version of Bulgarian optical network switch



AI Overview

Bulgaria's optical network has been upgraded with next-generation Infinera technology, boosting per-channel capacity from 200 Gbps to 800 Gbps, with scalability up to 1.2 Tbps and advanced software-defined control. Overview of the UpgradeNeterra, a global connectivity provider, has invested €12 million to modernize Bulgaria's national backbone, deploying next-generation optical networking technology from Infinera, now part of Nokia . The upgrade focuses on Dense Wavelength Division Multiplexing (DWDM), which allows multiple optical signals to travel simultaneously over a single fiber pair, effectively transforming existing fiber routes into high-capacity digital corridors .

Key Technical Enhancements

- Increased Transmission Capacity:** The previous system supported up to 200 Gbps per wavelength channel. The upgraded platform now supports 800 Gbps per channel, with potential scaling to 1.2 Tbps, enabling large-scale enterprise connectivity, cloud traffic, and international data transit .
- ROADM Technology:** The deployment includes Reconfigurable Optical Add-Drop Multiplexers (ROADM), allowing network paths to be adjusted via software rather than manual intervention. This reduces operational complexity, minimizes service disruption, and accelerates provisioning of new services .
- Software-Defined Optical Management:** The upgrade introduces software-controlled network management, enabling dynamic reconfiguration, faster service delivery, and improved resilience .

Impact on Network Performance

The modernization addresses capacity constraints in parts of the existing backbone, supporting growing traffic from enterprise customers, ISPs, and NetIX internet exchange members . Priority routes include Sofia–Ruse and Sofia–Plovdiv–Stara Zagora–Sliven–Kapitan Andreevo, with expansion planned to co...

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Neterra's Bulgarian network utilizes DWDM (Dense Wavelength Division Multiplexing) technology. In simple terms, it allows dozens of different

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Data Optics Balkans LTD specializes in networking equipment, including an 8-Port 10/100Base-TX Ethernet Switch. This unmanaged switch is designed for desktop use, featuring eight LAN ports,

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That moment has arrived for Bulgaria's national backbone, and Neterra is responding with a €12 million investment aimed straight at throughput, stability, and scale. The global

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Neterra is launching a large-scale modernization of its Bulgarian backbone network. The company will invest €12 million, utilizing technological solutions from the global leader Infinera (part

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Bulgaria's Neterra invests 12 mln euro in data network

Bulgarian telecommunications services provider Neterra said on Monday that it is investing 12 million euro (\$14.2 million) to upgrade its optical

Switches

Switches, Optical communications, optical communication systems, consulting, design, splicing, testing of fiber optic lines, localization and elimination of damages. Representative of Sumitomo, EXFO,

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Neterra, a leading global provider of connectivity solutions, is investing €12 million to upgrade its Bulgarian backbone network. By leveraging

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Considering the different characteristics of these technologies, we propose a robust network planning solution called Progressive Optics Deployment and Integration for Growing Yields (PRODIGY+) to ...

€12 Million, One Network, and a Hard Reset: How Neterra Is

The global connectivity provider is rolling out a full modernization of its Bulgarian optical network using Infinera technology, now part of Nokia. The upgrade targets one clear goal: move far

Bulgaria's Evo in Network Upgrade Deal with Nokia Siemens

SOFIA (Bulgaria), July 5 (SeeNews) - Nokia Siemens said on Tuesday it will supply Gigabit Passive Optical Network (GPON) technology to upgrade the network of Bulgarian IT services provider EVO.

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Neterra upgrades Bulgarian backbone with new optical technology

Global connectivity provider Neterra is upgrading its Bulgarian backbone network. With an investment of €12 million and the use of technology from Infinera, part of Nokia, Neterra aims to

Neterra Invests €12M in High-Capacity Optical Network

The upgrade will deploy next-generation optical networking technology from Infinera, now part of Nokia. The backbone investment aims to

Contact Us

For more information, pricing, or custom solutions, please contact us:

Website: <https://www.mr-security.co.za>

Email: info@mr-security.co.za

Phone: +33 1 45 23 67 81

Address: 10 Rue de la Paix, 75002 Paris, France

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