infinera®

what THE NETWORK will be

INFINERA TRANSFORMS AKADO TELECOM'S MOSCOW NETWORK FOR SIMPLICITY, SPEED AND RELIABILITY

CUSTOMER NAME
AKADO TELECOM

CHALLENGE
Pursue a new business goal – offer enterprises reliable, high bandwidth services

Handle growing network traffic volumes speedily and ensure future scalability

Upgrade its IP/MPLS core network to 100GbE technology

SOLUTION
Infinera DTN and ATN form an integrated solution to enable quick network deployment and provide 100GbE and 10G services in a week's time

The foundation technology of photonic integrated circuits (PICs) saves on energy and space while ensuring maximum reliability

The Infinera Intelligent™ Transport Network architecture provides operational simplicity through an automated GMPLS control plane

RESULTS
Fast growth of network capacity

The network architecture was simplified enabling quick deployment of aggregation rings and faster 10G provisioning to clients

A manageable, reliable, cost-effective network with the ability to scale in the future using the DTN-X platform

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With a constantly growing demand for high bandwidth services from their corporate and government clients, Moscow's largest cable provider Akado Telecom turned to Infinera to address the increase in network traffic fuelled by video, cloud, business and social applications.

Driving new services, customers and capacity in the Moscow region

AKADO TELECOM, a major multi-service cable network operator in the Moscow region, launched the modernized high-speed metro optical network in Moscow and the surrounding region in 2012. To expand the network bandwidth, AKADO used the Infinera Intelligent Transport Network architecture.

According to Ilya Astakhov, Head of Network and Platforms Development Department at AKADO TELECOM, Infinera provided a right solution to address the need of 10G service for clients. "Previously we used IP/MPLS backbone routers linked by eight 10GbE ethernet channels. We could see that increasing network capacity using the same approach would be complex and inefficient compared to connecting these core routers with 100GbE services," Astakhov states. "Back in 2012 we predicted the need for 100GbE services for our packet core, as well as the continued support for 10G and lower data rate services out to the metro edge.

After careful consideration we chose Infinera as our supplier because of the flexibility and cost-effectiveness of the Intelligent Transport Network solution."

Operational simplicity, rapid deployment of network capacity, and optical architecture scalability were the key requirements that AKADO TELECOM was measuring against when choosing a potential partner to modernize the network. The company was pursuing a new business goal, to facilitate the commercial availability of 10G services to the enterprise clients, besides handling the company's internal bandwidth needs.
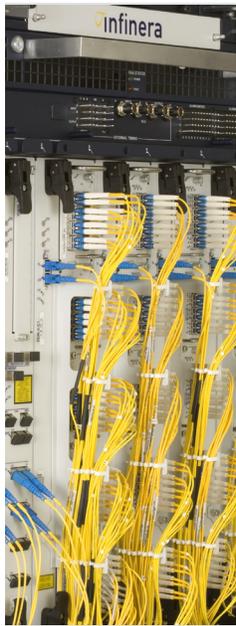
Choosing a simple, reliable, and future-proof solution

Astakhov is confident that Infinera's solution allows AKADO to meet the future demand for bandwidth coming from AKADO's new and existing customers: "In Russia the average annual traffic growth rate is at 30% driven by video services, cloud, and social media and it is important to keep ahead of the curve.

Infinera delivers AKADO a solution that provides a simple, reliable, and efficient architecture for both 10G and 100G services, while securing our investment."

At the core of AKADO's modernized backbone are two of Infinera's optical transport platforms – Infinera ATN and Infinera DTN, both part of the Intelligent Transport Network architecture.

"Infinera's ATN and DTN platforms provides AKADO an integrated solution which forms an efficient and highly scalable architecture yielding CapEx savings and offering end-to-end service management, lower energy costs, and fast network expansion."

ABOUT AKADO TELECOM
Akado Telecom provides a full range of advanced communication services based on its own fiber-optic network, which extends more than 20500 kilometers. Akado's multi-service network provides high-speed residential Internet access, voice services, and cable TV services, as well as a broad range of enterprise services for businesses.

Ilya Astakhov of AKADO confirms that Infinera provided a cost-effective solution to meet the company's operational and commercial goals – which include stringent energy efficiency requirements – thanks to Infinera's DWDM based on Photonic Integrated Circuits, combined with OTN switching and a GMPLS control plane in a single platform.: 'Our new DWDM network was initially designed to enable 100G services for our internal network and to be able to rapidly deploy 10G services to our customers in Moscow and the region faster than our competition. At the same time we built a base to scale it in a simple and fast manner in the future, considering a strong and continuous traffic growth trend."

Akado benefits from the simplicity and the reliability of the solution, and the end to end integration.

This is a core DWDM network based on the Infinera DTN as backbone nodes, with metro access provided by the Infinera ATN.
These platforms are tightly integrated, and this results in lower CapEx, reduced space and power requirements, and seamless service provisioning. The result is that the deployment of a new metro aggregation ring now takes less than a week, and AKADO is now able to rapidly provide service offerings at any speed: from the access layer to the core of the network.

Heading for 100G and beyond

The speed and efficiency of the upgraded infrastructure helps AKADO to win new clients and quickly deploy 10G services using Infinera's intuitive point-and-click DNA management system. AKADO is seeing a strong interest in 10G client services from a wide range of emerging businesses seeking fast Internet connection: banks, trading companies, local service providers, state organizations, design and printing agencies, and alike. AKADO is confident that they can now deploy these services faster than any other provider in the marketplace. AKADO is also no well positioned to accommodate future traffic demands and is planning to increase network capacity by adding 100G ports, and, according to Astakhov, high scalability, efficiency and reliability is giving Akado a tremendous competitive advantage.

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