



Rostelecom

ROSTELECOM BUILDS DIGITAL RUSSIA WITH JUNIPER

Summary

Company:
Rostelecom

Industry:
Telco

Business Challenges:
Prepare for the next generation of services, including 5G and high-speed data centers, and ensure an excellent digital viewing experience for international events.

Technology Solution:

- PTX10008 Packet Transport Router
- MX960 and MX480 Universal Routing Platforms

Business Results:

- Delivered an excellent user experience during international sporting and cultural events
- Increased reliability of existing services and allowed for the introduction of new services, including 5G
- Drove OpEx savings, including reduced power consumption, more efficient use of data center rack space, and lower support costs

Rostelecom is Russia's largest provider of digital services, serving millions of customers including households, government agencies, and corporations. A recognized technology leader, Rostelecom offers e-government, cybersecurity, data center, and cloud services. The foundation of Rostelecom's digital services is Juniper Networks routing solutions.

Recognizing the transformative opportunities of the digital world, Rostelecom has been working to enhance its service offering and customer experience. To prepare for the next generation of services, including 5G and high-speed data centers, Rostelecom wanted to modernize its network.

More than 13 million people use Rostelecom's broadband Internet and 10.2 million watch pay TV. In addition to laying the foundation for new services for its customers, Rostelecom needed to ensure an excellent digital user experience during international events, such as the 2019 Summer Universiade, hosted in Italy and showcasing the world's best student athletes.

"Network modernization allows us to increase the reliability of existing services provided to our customers, as well as allowing us to expand with new types of services," says Vadim Nikonov, director of backbone management at Rostelecom.

"Rostelecom is the first operator in Russia and the Commonwealth of Independent States to introduce Juniper Networks' latest solutions for backbone networks, which are now able to cope with ever-increasing traffic volumes. This is especially important when carrying out international and federal events and the planned deployment of 5G networks."

- Vadim Nikonov, director of backbone management, Rostelecom

Digital Strength and Scale

To meet customer expectations and facilitate service growth, Rostelecom migrated its network backbone to the Juniper Networks® PTX10008 Packet Transport Router, while the edge relies on the Juniper Networks MX960 Universal Routing Platform. Rostelecom migrated its backbone from Juniper Networks T1600 Routers, which will be repurposed in other areas of the network.

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Rostelecom’s network is massive, covering every region of the Russian Federation and stretching across 500,000 kilometers. The IP/MPLS network has more than 350 access points and an extensive international reach. Rostelecom operates data centers in Moscow, Kazan, Ekaterinburg, Novosibirsk, and Khabarovsk.

The upgrade project centered on increasing network efficiency by optimizing the service and transit planes. Rostelecom introduced field trunk routing over the PTX10008 router while moving the service load to the MX Series routers. A compact core router, the PTX10008 lays the foundation for an agile, hyperscale network that provides programmability, automation, and pervasive security in core routing. The MX Series routers deliver highly scalable routing, switching, security, and service features to enable revenue-generating services, network consolidation, and service convergence.

The network modernization project delivered the versatility Rostelecom needed to deliver an excellent user experience even as traffic loads continue to grow, and to increase service agility.

“Rostelecom expects to receive a tangible OpEx saving, including a five percent decrease in power costs, free up space in racks, and reduce the cost of technical support,” Nikonov says. “Support costs for legacy equipment is always higher, due to the need to maintain spare parts inventory.”

A Win-Win Partnership

The network modernization project leveraged Rostelecom’s deep expertise in Juniper’s networking solutions as well as its strong relationship with Juniper Networks.

“Without Juniper’s technical support and implementation support, the project with a high probability would simply not have happened,” Nikonov says. “A unique feature of this project is that Juniper Networks’ end customer receives a turnkey project.”

“Our task was to make Rostelecom’s network better and more reliable, but since Juniper is our long-standing, reliable partner, we were attentive to their interests, and they were attentive to ours,” Nikonov says. “As a result, we found a win-win solution that benefits all parties.

“With Juniper, we get the maximum benefit for the minimum investment.”

For More Information

To find out more about Juniper Networks products and solutions, please visit www.juniper.net.

About Juniper Networks

Juniper Networks brings simplicity to networking with products, solutions and services that connect the world. Through engineering innovation, we remove the constraints and complexities of networking in the cloud era to solve the toughest challenges our customers and partners face daily. At Juniper Networks, we believe that the network is a resource for sharing knowledge and human advancement that changes the world. We are committed to imagining groundbreaking ways to deliver automated, scalable and secure networks to move at the speed of business.

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