# Onet Builds Trust with Clients Through Secure and Scalable Juniper Networks Infrastructure

## Summary

**Company:**

Onet

**Industry:**

Media, Service Provider

**Challenges:**

- Provide enterprise security in network infrastructure
- Support cloud environment
- Manage rising Internet traffic volume
- Simplify network management

**Selection Criteria:**

Onet needed enterprise network security, support for a virtualized cloud environment, and full redundancy and scalability to support future growth.

**Network Solution:**

- MX480 3D Universal Edge Router
- SRX240 Services Gateway
- EX4500 and EX4200 Ethernet Switches
- Junos operating system

**Results:**

- Ensured secure client separation with logical systems support
- Provided virtualization capabilities to support cloud environment
- Simplified network management and service delivery
- Deployed scalable infrastructure for future growth

Founded in 1996, Onet Group is a leading Polish online publisher focusing on news, information, entertainment, communication, mobile and online advertising. Onet.pl is one of the strongest and most recognizable Polish media brands, recognized by IMM as the most influential Internet medium in Poland in 2012.

In addition to onet.pl, Onet group has other leading sites such as a dating website (Sympatia.pl), online location finder (Zumi.pl), video on demand (VOD.pl), and entertainment (plejada.pl). Onet reaches almost 14 million unique users per month, which is nearly 70 percent of all Internet users in Poland. Onet pages have nearly 2,4 billion page views per month. For this reason, Onet Group offers advertisers the most attractive premium advertising space in Polish Web portals.

## Challenge

Onet's portal was initially built using open source software. As traffic increased and more corporate clients began outsourcing their full IT services to Onet, the stability and scalability of the underlying infrastructure became increasingly important. Wojciech Ehrenfeld, director of public IT services at Onet, explains: "We launched a public cloud environment so that corporate clients can use our infrastructure for all their IT requirements. As we have both small and large clients in a variety of competitive industries, it was paramount that the infrastructure be secure so that each client can completely trust the environment."

## Selection Criteria

Onet opened a second data center to create maximum redundancy and availability, and now needed the network technology to back this up. The network infrastructure needed to deliver enterprise security, support a virtualized cloud environment, and provide full redundancy. It also needed to be able to grow with the expanding business, so scalability was an important factor. "I had experience with Juniper Networks in a previous role and knew that Juniper would provide the technology we needed to meet our clients' requirements, as well as the needs of our growing business," says Ehrenfeld.

*"Junos helps simplify our network environment and efficiently manage all of our routing, switching, and security from a central point. We have the flexibility to easily deploy new services and devices, very important in the dynamic environment we operate in."*

**Wojciech Ehrenfeld,** Director of Public IT Services, Onet

## Solution

In each of the data centers, a Juniper Networks® SRX240 Services Gateway is implemented to provide a 1.5 Gbps firewall, as well as an effective IPsec VPN layer.

The Juniper Networks MX480 3D Universal Edge Router is deployed at both edge and core locations in the data center networks. Dense and Modular Port Concentrator (DPC and MPC) cards are used within the chassis to support IPv4 and IPv6 peering. Onet's cloud strategy is supported through the routers' virtualization capabilities so that one physical device can be configured to act as two or three virtual routers, serving different clients.

Onet has also deployed Juniper Networks EX4200 Ethernet Switches (GbE) and EX4500 Ethernet Switches (10GbE) running Juniper's unique Virtual Chassis technology, which allows multiple interconnected switches to operate as a single logical device with a single operating system and IP address. As a result, Virtual Chassis technology has reduced the number of managed devices, dramatically lowering operational expenses and reducing management overhead. The EX4500 10GbE ports support bandwidth-heavy network content such as streaming video, while the EX4200 GbE switches are used for internal Layer 2 and Layer 3 network communication such as VLAN Spanning Tree Protocol (VSTP), BGP, and routing table manipulation.

*"I feel that the Juniper solution, supporting our cloud environment, gives us everything we need, both now and in the future."*

**Wojciech Ehrenfeld,** Director of Public IT Services, Onet

"We support the popular www.vod.pl service, which at any given time can have over 100,000 concurrent users. The infrastructure needs to manage particular peak times, such as when major sporting events are broadcast," Ehrenfeld says.

Ehrenfeld particularly likes the Juniper Networks Junos® operating system: "Junos OS helps to simplify our network environment and efficiently manage all of our routing, switching, and security

from a central point. We have the flexibility to easily deploy new services and devices, very important in the dynamic environment we operate in."

## Results

The implementation process was done in-house by Onet's own internal engineering team. "We have a lot of expertise and really didn't encounter any problems at all during the implementation," Ehrenfeld explains. "Devices were introduced transparently to our clients and without business disruption."

The Juniper Networks infrastructure and the dual data center setup have set Onet apart from its competitors. The new network has enabled Onet to launch a full-service cloud offering, providing clients with a robust and secure platform for VoIP, video, e-mail, backup and storage requirements. The environment is designed to manage unprecedented traffic volumes, and its flexibility and security layers mean different clients can be offered different service packages to suit their particular needs.

## Next Steps and Lessons Learned

With Internet traffic going only one way, Ehrenfeld feels prepared for the next move. "Our clients view the network infrastructure as a commodity and they expect it to work. When it doesn't work, the pivotal role of the network is instantly clear. Our business is to take this headache from our clients and provide a full solution to them so that they can take care of their core business. I feel that the Juniper solution, supporting our cloud environment, gives us everything we need, both now and in the future."

## For More Information

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

## About Juniper Networks

Juniper Networks is in the business of network innovation. From devices to data centers, from consumers to cloud providers, Juniper Networks delivers the software, silicon and systems that transform the experience and economics of networking. The company serves customers and partners worldwide. Additional information can be found at www.juniper.net.

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