



## MTS Ukraine upgrades to scalable, flexible HPE network

Ukraine's mobile provider lowers IT costs deploying secure HPE infrastructure

### Objective

Protect billing system and other key enterprise systems with a flexible, secure, and highly available infrastructure that enables MTS Ukraine to move its workloads and resources between geographically dispersed data centers.

### Approach

Implement HPE Ethernet Virtual Interconnect (EVI) to connect two 3-megawatt data centers into a single cloud infrastructure.

### IT Matters

- Provided flexibility to move applications and virtual machines between geographically dispersed data easily and quickly
- Created infrastructure that can be used in future to combine up to eight data centers
- Implemented disaster-proof infrastructure to protect billing system and other enterprise business systems

### Business Matters

- Saved costs by deploying HPE Ethernet Virtual Interconnect to combine MTS Ukraine data centers without the need for additional software changes or network upgrades
- Lowered MTS Ukraine management and overall IT costs by combining two data centers on one infrastructure
- Improved quality and continuity of MTS Ukraine customer service

“HPE designed a solution that combines our geographically distributed data centers into a single IT infrastructure so that we have the flexibility to move around our workloads and resources as needed. Going forward, we can use the solution to combine up to 8 more data centers and grow quickly while protecting our investment in technology.”

– Anatoly Starodubets, Head of IT Systems Operation Department, MTS Ukraine

Mobile TeleSystems (MTS) Ukraine is one of the largest cellular service providers in Ukraine. In 2013, the rapidly expanding company began a two-phase project with Hewlett Packard Enterprise (HPE) to support its billing system and other business-critical systems by upgrading its IT infrastructure. Working with ISV partner Nvision, HPE built two new data centers, then implemented HPE EVI to combine the centers into a single cloud infrastructure capable of scaled growth.

## **Phase 1: Create a scalable infrastructure**

MTS offers one of the world's fastest-growing regions an array of mobile and fixed voice, broadband, pay TV, content, and entertainment services. In 2013, MTS Ukraine embarked on a mission to replace its existing RISC-based IT architecture with an X86 platform. After initially considering Cisco, MTS Ukraine chose HPE and worked closely with HPE Consulting Services to design and build a flexible, scalable, highly available, and secure infrastructure.

In the first phase of the project, HPE Consulting Services helped design and build two data centers in Kiev. Originally, MTS Ukraine had planned to work with Cisco. But HPE's complete turnkey solution made HPE the clear choice. The HPE solution includes network design (LLD, HLD), data center and LAN core, MPLS routers, Local Traffic Balancers, Optical DWDM switches with encryption, SAN infrastructure, and support. Unlike Cisco's closed network, HPE's standards-based solution enables MTS Ukraine to integrate other vendors' technology and infrastructure solutions into its network—thus protecting its previous technology investments.

## **Phase 2: Connect the dots**

With the two new data centers in place, MTS Ukraine needed to combine them into a single IT infrastructure so they could easily move applications and virtual machines between the two data centers to increase availability and ensure disaster recovery. HPE Installation and Deployment Services implemented the HPE EVI solution to connect the data centers over IP infrastructures. With just one infrastructure to manage, MTS Ukraine has seen a reduction in both management time and overall IT cost. And since HPE included all licenses for implementing advanced network protocols in the hardware price, the HPE solution makes even more financial sense.

"The HPE EVI single-infrastructure solution gives us the flexibility to move around our workloads and resources as needed," says Volodymyr Khablo, Head of Servers Operation Department. "Going forward, we can use the solution to create as many as 4,000 VLANs and combine up to 8 other data centers. And since HPE's standards-based approach allows us to keep growing our infrastructure without worrying about interoperability, it protects our on-going technology investments."

## **Disaster-proof infrastructure**

HPE EVI delivers simplified, cloud-based connectivity across multiple data centers with single-touch deployment, enabling the rapid linking (think minutes, not months) of computer resources. This linking functionality provided another capability MTS Ukraine sought: business continuity in the event of a disaster.

"Since our data centers run on a single IT infrastructure," says Nikolay Tantsyura, Head of DC Projects, "we can migrate our billing system's virtual machines and applications from one data center to another. In the event of a disaster we can move these resources without interrupting business. Overall, the single infrastructure increases the availability of our billing system, saves us money, and provides backup for our other mission-critical business systems including ERP, business intelligence and analytics, and communications."

HPE Installation and Deployment Services also implemented HPE Intelligent Management Center (IMC) to provide MTS Ukraine with end-to-end network management of its IT infrastructure. HPE Support Services will support the installed HPE systems, proactively addressing network problems and outage causes so that MTS Ukraine can focus on business growth and innovation.

## Customer at a glance

### Solution

- HPE EVI (Ethernet Virtual Interconnect)

### Hardware

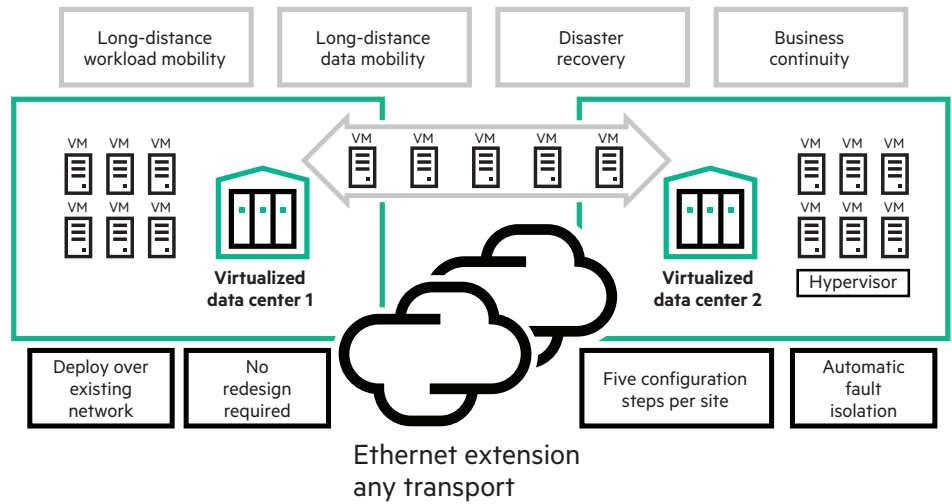
- HPE FlexNetwork 12500 Switch Series
- HPE FlexNetwork 10500 Switch Series
- HPE FlexNetwork 5500 Switch Series
- HPE FlexFabric 5800 Switch Series
- HPE FlexFabric 5900 Switch Series

### Software

- HPE Intelligent Management Center

### Services

- HPE Network Support
- HPE Installation and Deployment Services
- HPE Proactive Care Service
- HPE Consulting Services



## HPE team hit the ground running

In addition to the flexibility and dependability of HPE equipment itself, MTS benefitted from the quality of interaction with the HPE teams that worked on the project.

“After putting the new infrastructure into operation,” says Anatoly Klimashevsky, CIO, “HPE Consulting Services completed this business-critical project within our required frame and with no impact on our business operations. We chose the right partner when we chose HPE.”

## About MTS

Mobile TeleSystems Ukraine is the largest mobile operator in Ukraine and a subsidiary of MTS. Headquartered in Moscow, MTS offers mobile and fixed voice, broadband and pay TV in Eastern Europe, one of the world’s fastest growing regions. Together with its subsidiaries, MTS services more than 100 million mobile subscribers.



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