

Telecommunications | Armenia

Advancing digitalization in Armenia

OVIO

To meet soaring demand for digital services in Armenia, OVIO teamed up with Lenovo to build the largest and most powerful data center in the country, helping to promote investment and innovation.



Lenovo

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Customer background

Who is OVIO?

OVIO is one of Armenia's leading telecommunications and digital service providers. Headquartered in Abovyan, the company operates a 3,000 km fiber-optic network connecting Armenia to Iran, Georgia, and Europe. OVIO provides fixed telephony, broadband, IPTV, network, and infrastructure services to households across the country. Its corporate client list includes national and international banks, government agencies, and other state institutions.



2 The challenge

To promote economic development, investment, innovation, entrepreneurship, and social welfare, the Government of the Republic of Armenia has introduced numerous state support programs in recent years.

The ‘Infrastructure in Exchange for Investment’ program aims to encourage both local and foreign investments by providing financial support for infrastructure projects. Data center infrastructure is a key focus area, as the adoption of digital technologies in Armenia is increasing all the time.

With the plans approved as part of the ‘Infrastructure for Investments’ program, OVIO sought a technology partner to support the construction of a state-of-the-art data center.

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“The launch of this state-of-the-art facility is an **important step in the technological development of our country** and underlines our commitment to strengthen Armenia’s position in the global IT environment.”

Hayk Faramazyan
CEO, OVIO

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The
solution

Bigger and better

OVIO worked closely with Lenovo engineers, systems integrator Netcore, and a local construction company to design, build, and equip a 2 MW data center in Abovyan, located 16 km from the capital Yerevan.

With 216 server racks, it is the largest data center in Armenia and comprises mostly Lenovo ThinkSystem SR650 V2 and V3 servers as well as a Lenovo ThinkAgile VX hyperconverged infrastructure (HCI) cluster, powered by the VMware Cloud Foundation stack, to support public and hybrid cloud services.

Hardware

Lenovo ThinkAgile VX650 V3
Certified Node
Lenovo ThinkSystem SR650 V2
Lenovo ThinkSystem SR630 V2
Lenovo ThinkSystem SR650 V3
Lenovo ThinkSystem DE4000H
Hybrid Flash Array
Lenovo Storage D1212 Drive
Enclosure
IBM TS4300 Tape Library

Software

VMware Cloud Foundation

Services

Lenovo Premier Support for
Data Centers
Lenovo Professional Services

Secure and state of the art

OVIO's new data center is a tier-3 facility and certified to ISO 27001, ISO 27017, and ISO 27018 standards, as well as PCI DSS requirements. N+1 redundancy ensures high availability and fault tolerance.

The data center provides a full range of IT services from computing resources to storage of unstructured data. This includes rack space rental (colocation), public and hybrid cloud services (Infrastructure as a Service, IaaS) built on the Lenovo ThinkAgile VX Series and VMware Cloud Foundation stack. In addition to software-defined storage (SDS), OVIO takes advantage of software-defined networking (SDN) to give its clients the flexibility to customize the network landscape of the virtual data center.

3 The solution

The company also offers backup as a service (BaaS) to protect data from human error and disaster incidents, as well as from malware such as ransomware. OVIO Backup is based on state-of-the-art software and tiered backups using tape libraries, Lenovo ThinkSystem DE Series storage, and modern software-defined write once read many (WORM) storage based on Lenovo ThinkSystem SR650 V2 servers. In addition to storing backups, S3 object storage can be used to store other data: photos, drawings, audio and video, and other documents.

OVIO has also deployed its OVIO Wink IPTV service—the first interactive TV and online cinema platform in Armenia—using Lenovo ThinkSystem SR650 V2 servers and Lenovo Storage D1212 storage solutions.



“The clearest indicator of **trust in Lenovo’s solutions**, in my opinion, is the fact that **we ourselves are a consumer of services that are built on the Lenovo platform**. Moreover, when we needed to localize the Wink TV platform to provide video service to our subscribers, we chose a hardware solution from Lenovo for this, since we already had a technological base for cloud platforms.”

Boris Demirkhanyan

Deputy General Director, OVIO

4 The results

OVIO's data center is the largest such facility in Armenia. Today, it provides secure processing and storage of data for large and small businesses as well as government organizations. Built in compliance with tier-3 standards and equipped with robust, reliable Lenovo technology, the OVIO facility provides uninterrupted access to data and 24/7 customer service.

“A data center is about more than servers and storage and power supply; it's about trust,” says Boris Demirkhanyan, Deputy General Director of OVIO. “Our clients trust us with their operations and with their data. We're working to build trust in our services, as Armenian businesses increasingly adopt digital technologies.”



2 MW tier-3
data center



216 server racks



N+1 redundancy

4 The results

Such is the demand for its services, OVIO is already planning to expand the data center and increase the capacity of its cloud platform. The current number of installed racks can support 1,000 times as many cores, and OVIO expects to double its cloud resources within the next year.

“I can say that our data center will act as a catalyst for economic growth, attracting foreign companies, as well as concentrating local technological potential.”

Hayk Faramazyan

CEO, OVIO

Why Lenovo?

For OVIO, Lenovo technology offered the optimal combination of cost, ease of implementation, and a wide range of choices and configurations for a variety of infrastructures.

The Lenovo Presales team helped OVIO to choose and design the infrastructure for its cloud services, backup service, and S3 object storage service. Lenovo Professional Services implemented and helps to maintain the infrastructure with regular Health Check services.

What's more, the systems are all backed by Lenovo Premier Support for Data Centers. This gives OVIO direct priority access to Lenovo elite support teams 24/7/365 and prompt on-site support.

How do you meet a nation's growing demand for digital services?

Working with Lenovo, OVIO has built the largest and most powerful data center in Armenia.

Explore Lenovo ThinkSystem Solutions