BONA DEA

بسم الله الرحمن الرحيم

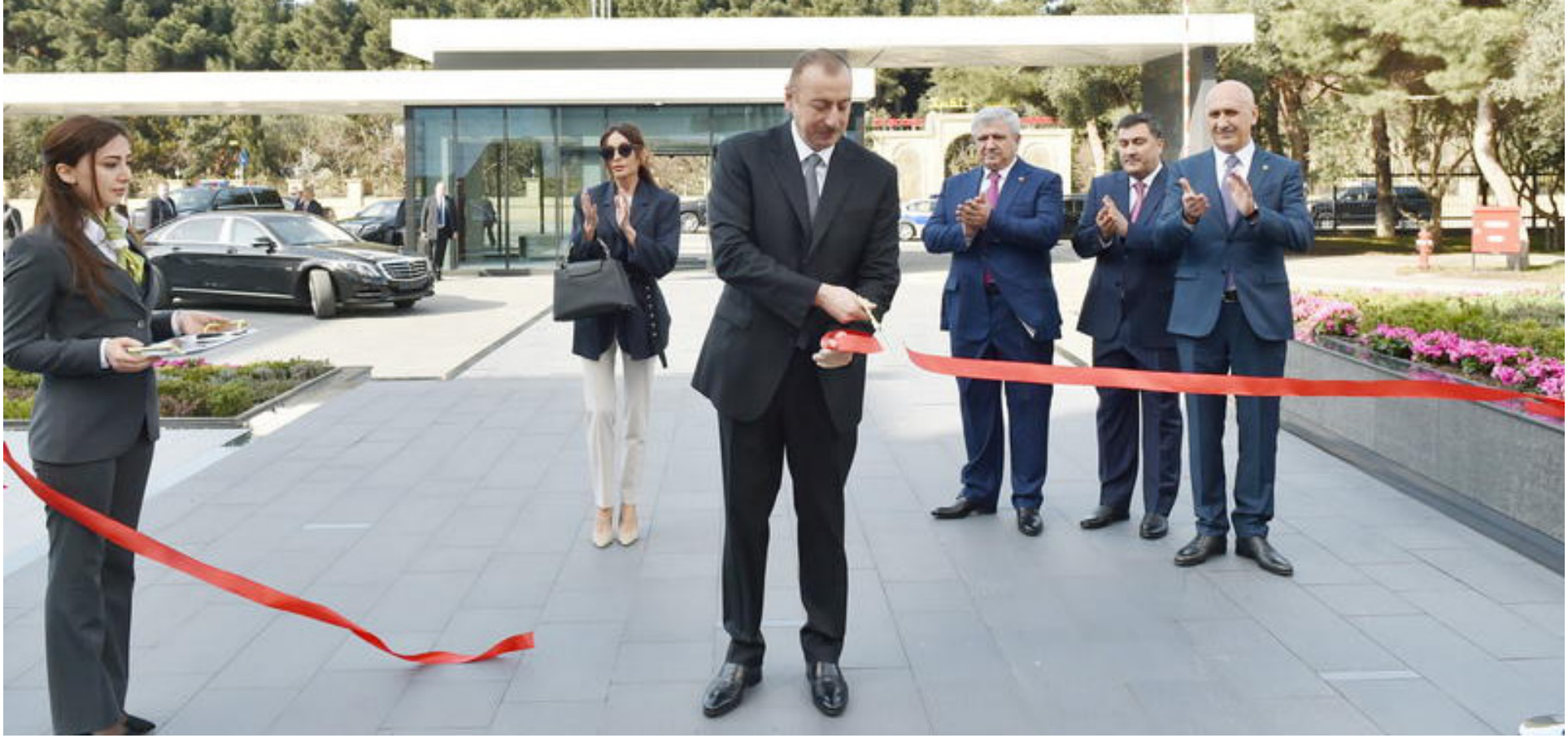
Bona Dea International Hospital

Transforming patient care with state-of-the-art IT

When patients' well-being is on the line, you need IT infrastructure you can rely on to keep critical medical systems running around the clock. Bona Dea International Hospital eschewed traditional data center solutions in favor of a hyperconverged infrastructure from Lenovo and Nutanix to support its crucial services.

Lenovo™

intel XEON inside™



President Ilham Aliyev attends the opening of Bona Dea International Hospital in Baku.

Bona Dea International Hospital is an ultra-modern medical center in Baku, Azerbaijan. Its mission? To provide all patients with the highest quality of care, and become one of the top-performing hospitals in the Caspian region.

With medical innovations advancing continuously, the newly built hospital wanted to implement cutting-edge technology to support patient care – from the operating theater to the data center.

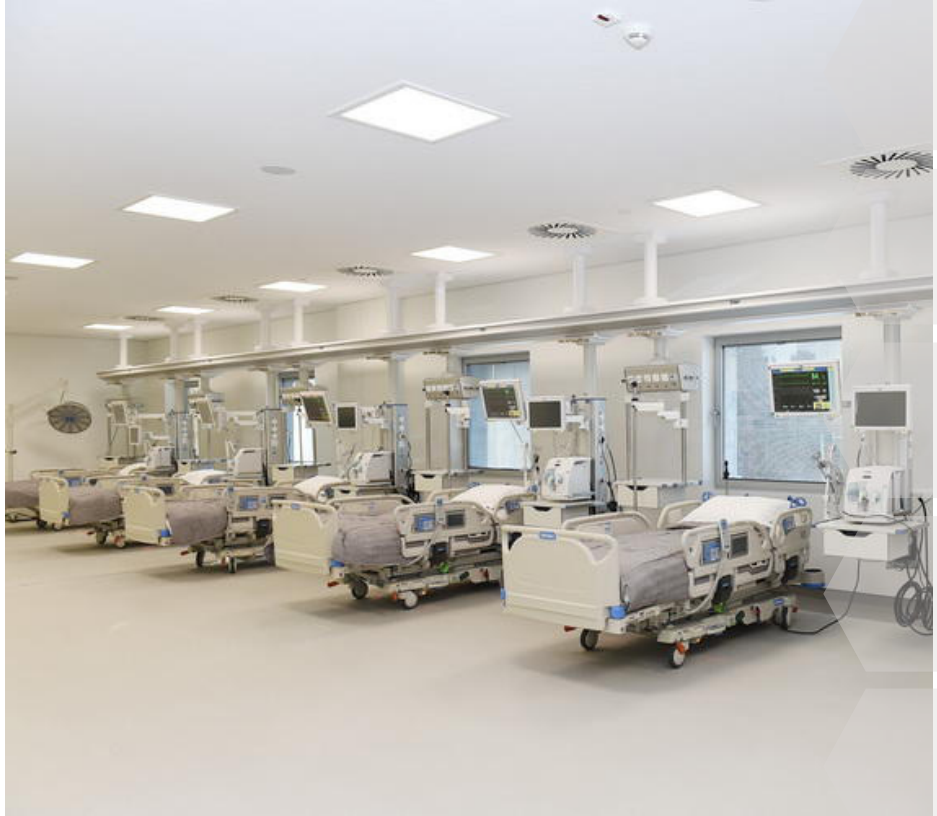
Ramiz Shirinov, ICT Architect at Bona Dea International Hospital, begins: “Building a brand-new hospital gave us the unique opportunity to design the IT infrastructure from the ground up.

“We decided to integrate more than 70 medical applications into one Hospital Information System [HIS], which we will use to manage all aspects of hospital operations. This includes everything from intensive care units to ambulances.”

Next, Bona Dea International Hospital needed to choose the right hardware to support its HIS. Not an easy task – as a hospital, it has very demanding uptime requirements. After evaluating several traditional data center solutions, Bona Dea International Hospital decided to go with something new: a hyperconverged infrastructure from Lenovo and Nutanix.

Ramiz Shirinov recalls: “We selected a hyperconverged solution because we wanted an infrastructure that would scale easily to meet demand, without sacrificing on reliability. We expect the number of patients to increase steadily in the first few months after opening, as Bona Dea International Hospital’s standing and reputation grows. With a hyperconverged infrastructure, we can simply add new nodes when more capacity is required. What’s more, a hyperconverged infrastructure offered the best value for money compared to traditional systems.”

Working closely with Lenovo Professional Services, the hospital implemented a total of 18 Lenovo Converged HX5510 and HX5510-C Appliances, all featuring Intel® Xeon® E5 processors and powered by Nutanix Enterprise Cloud OS software. In addition to the core HIS, Bona Dea International Hospital runs its back-office SAP and Microsoft business applications, and file and print services on the hyperconverged infrastructure, with over 90% of its workloads running on the Nutanix AHV hypervisor. The hospital takes advantage of Nutanix Prism for hassle-free management of its virtualized compute and storage resources, and Lenovo XClarity Pro to control the physical nodes.

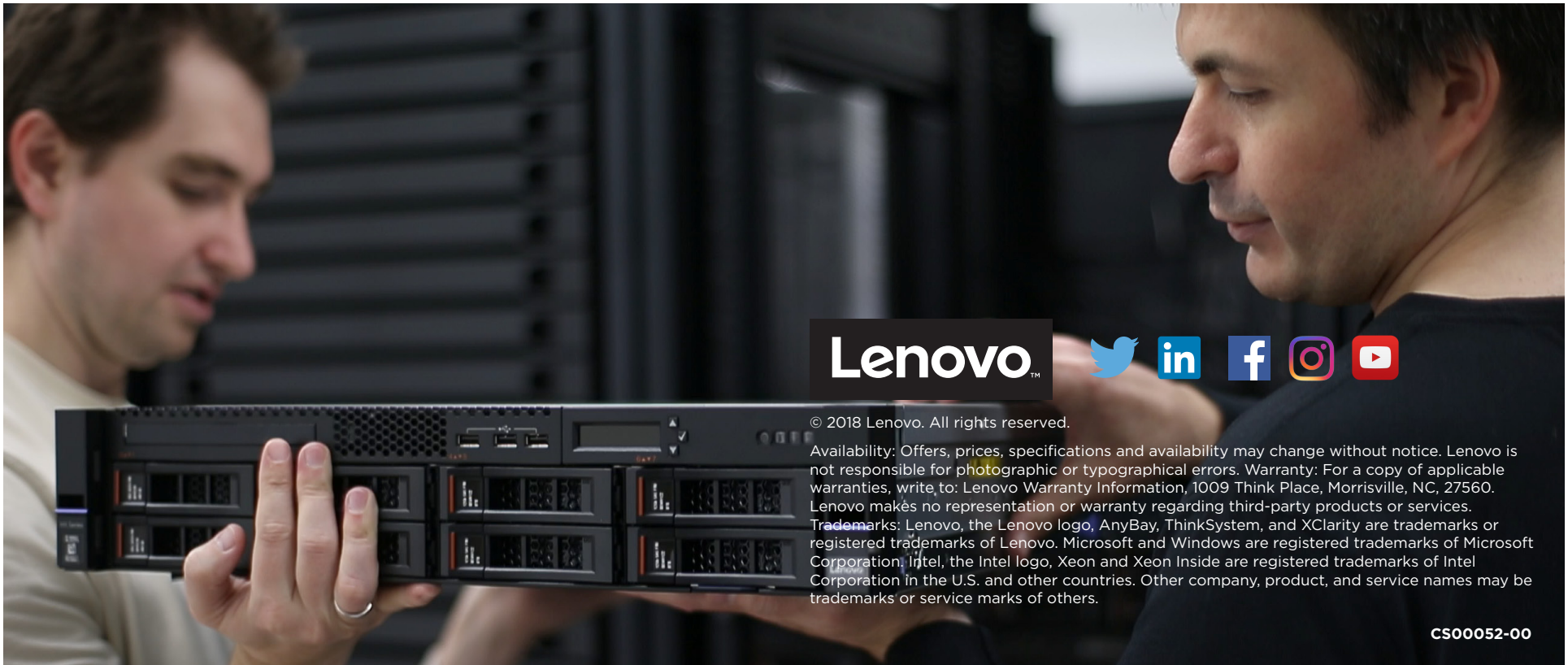


“Because the Lenovo servers came pre-integrated with the Nutanix software, the implementation was really quick and easy,” says Ramiz Shirinov. “We had some Lenovo engineers on-site to help us with the configuration, and we were up and running in just a week. Having the Lenovo team on hand for support was invaluable, and we learned a lot from them. We appreciate the fact we can always turn to the Lenovo team for support when issues arise, or if we ever have any questions.

“Our experience with the Lenovo-Nutanix solution so far has been excellent. The build-quality and durability of the Lenovo hardware is second to none, so we know we can rely on the infrastructure to run the HIS around the clock, and have no concerns about unplanned downtime disrupting patient care.”

With the Lenovo-Nutanix solution, Bona Dea International Hospital gained a reliable, high-performance, scalable, easy-to-manage infrastructure to run its most critical medical applications and systems.

Ramiz Shirinov concludes: “We’ve been very impressed with the Lenovo-Nutanix solution so far, and we are confident it will help us to deliver the very best level of care to patients.”



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HEALTHCARE

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Solution components

Hardware

Lenovo Converged HX5510 Appliance with Intel® Xeon® E5 processor family, part of the Lenovo ThinkAgile HX Series of systems
Lenovo Converged HX5510-C Appliance with Intel Xeon E5 processor family

Clients

ThinkCentre M900Z, M700 Tiny
ThinkPad T460p, T460s, P50, X1 YOGA, 10
ThinkStation P510

Software

Nutanix Enterprise Cloud OS, including:
•Nutanix Acropolis Pro
•Nutanix Prism Pro
Lenovo XClarity Pro

Services

Lenovo Professional Services

"We've been very impressed with the Lenovo-Nutanix solution so far, and are confident it will help us to deliver the very best level of care to patients."

—Ramiz Shirinov, ICT Architect, Bona Dea International Hospital

To deliver the highest level of patient care, Bona Dea International Hospital chose a hyperconverged solution from Lenovo and Nutanix to underpin its critical health information system (HIS). Powered by Intel® Xeon® E5 processor, the Lenovo-Nutanix solution delivers the performance and reliability the hospital needs to keep the HIS running 24/7.