**Electronics**

# Fueling IoT innovation

## Grand-Tek Technology Co., Ltd. (GTT)

Network specialist GTT enhances the performance of its core applications with a hyperconverged IT infrastructure powered by Lenovo and Nutanix—lifting operational efficiency, boosting employee productivity, and driving business growth.

Lenovo

Powered by

NUTANIX™

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## Who is Grand-Tek Technology Co., Ltd. (GTT)?

Headquartered in New Taipei City, Taiwan, Grand-Tek Technology Co., Ltd. (GTT) is a leading provider of professional outdoor antenna, subsystems, and communication networks—including GNS, GPS, Wi-Fi, 5G, and dedicated short-range communications (DSRC) for industrial uses. As well as building best-in-class networks, GTT offers a range of custom product design, electromagnetic interference testing and manufacturing services.

With companies across many sectors harnessing Internet of Things (IoT) technologies to improve efficiency, reduce maintenance and deliver innovative services, demand for the networks that underpin IoT devices has skyrocketed. These trends are creating fresh opportunities for GTT to grow its operations across Asia, North America, and Europe.
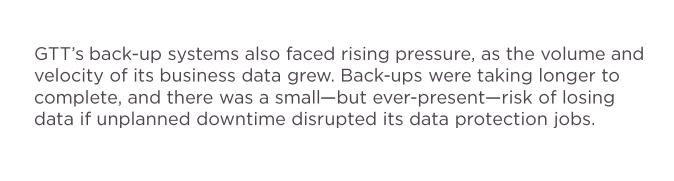
For more information, visit grand-tek.com.

**GT GrandTek**

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# The
# Challenge

Designing world-class industrial networks is an extremely sophisticated discipline. As well as processing vast amounts of data to create precision-engineered solutions, GTT must also adapt to changing conditions—from unexpected weather events on-site to global supply chain disruption.

Over time, GTT found that the IT infrastructure supporting its mission-critical applications no longer delivered the flexibility and performance to support its growth goals. For example, the company's existing systems were based on a single shared storage device, which created performance bottlenecks for its enterprise resource planning (ERP) solution, manufacturing execution system (MES), and product data management (PDM) system—reducing employee productivity and efficiency.

GTT's back-up systems also faced rising pressure, as the volume and velocity of its business data grew. Back-ups were taking longer to complete, and there was a small—but ever-present—risk of losing data if unplanned downtime disrupted its data protection jobs.

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"Some design files would take up to a minute to load with our previous systems. Ultimately, this reduced our productivity and was frustrating for users. Continuing to work in this way was incompatible with our ambitious growth plans, so we looked for a smarter approach."

**VP of R&D**
Grand-Tek Technology Co., Ltd. (GTT)

# **Supercharging** application performance

To establish a solid foundation for future growth, GTT decided to replace its existing IT platform with a hyperconverged infrastructure based on three Lenovo ThinkAgile HX3320 servers and Nutanix AHV.

The Nutanix AHV hypervisor is built into Lenovo servers, allowing GTT to create separate virtualized environments for its mission-critical ERP, MES, and PDM systems that share the same compute, storage, and network resources.

For added system stability and resiliency, GTT also deployed physical back-up nodes on each server, with core data shared between all back-up environments.

The Manufacturing Information Systems (MIS) Manager at GTT comments: "We were impressed with the proposal from Lenovo and Nutanix. It was clear that a hyperconverged environment would deliver greater application performance, while also strengthening our back-up processes."

## **Hardware**
Lenovo ThinkAgile HX 3000 Series

## **Software**
Nutanix AHV
Nutanix Cloud Platform

> "We considered a range of hardware and virtualization technologies, but only Lenovo and Nutanix solutions delivered the flexibility, reliability and performance we targeted to drive growth."
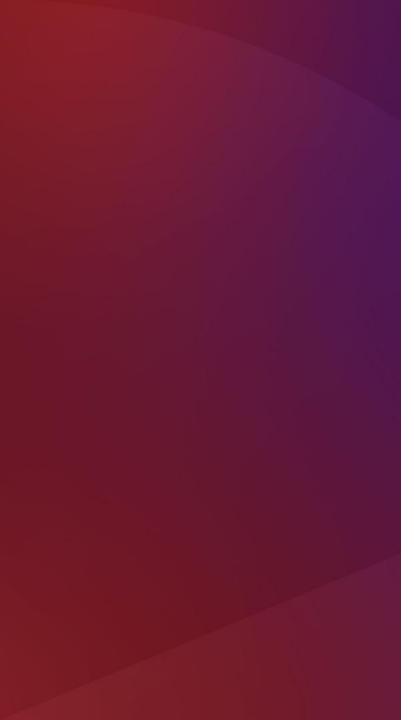
**MIS Manager**
Grand-Tek Technology Co., Ltd. (GTT)

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# Results

Since deploying a hyperconverged infrastructure from Lenovo and Nutanix, GTT has significantly improved application performance, contributing to higher employee productivity.

"Our ERP, MES and PDM applications run much faster than ever on Lenovo and Nutanix infrastructure," explains the MIS Manager. "Now it takes under 30 seconds to load a design drawing for one of our projects—over 50% faster—and up to 10 people can view and edit designs at the same time without impacting performance. As well as allowing our people to work faster, the solution takes away the frustration of having to wait for files to load, which enhances the employee experience."

By delivering much higher compression rates compared with its previous infrastructure, the Lenovo and Nutanix solution allows the company to speed up its back-up jobs. At the same time, GTT's IT department enjoys the benefit of simplified infrastructure management.

"Our IT teams are pleased with the user-friendliness of Nutanix and Lenovo solutions and find that they are much quicker and easier to manage than our previous infrastructure," says the MIS Manager.

"With powerful, performant hardware from Lenovo driving our core applications, we are much better placed to expand our operations in new geographies and deliver excellent client service."

✓ 50% faster access to complex design files

✓ Improves employee productivity and efficiency

✓ Accelerates back-up jobs and IT system management activities

"Moving to a hyperconverged IT environment powered by Lenovo and Nutanix solutions means that our employees can work more efficiently to design, build, and maintain world-class networks for our clients."

**Executive VP**
Grand-Tek Technology Co., Ltd. (GTT)

# Why **Lenovo**?

To ensure best-practice during the implementation, GTT worked closely with Lenovo to set up its new hyperconverged infrastructure.

"Because Lenovo has decades of experience helping international companies enhance their IT systems, we knew we could rely on them to maximize the business value of our technology investments," continues the MIS Manager. "With support from Lenovo, we completed the migration on time, and the Lenovo team was always-on hand to resolve any issues we encountered."

# How can electronics companies enhance collaboration?

Boosting productivity with
Lenovo and Nutanix technology.

Explore Lenovo ThinkAgile

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