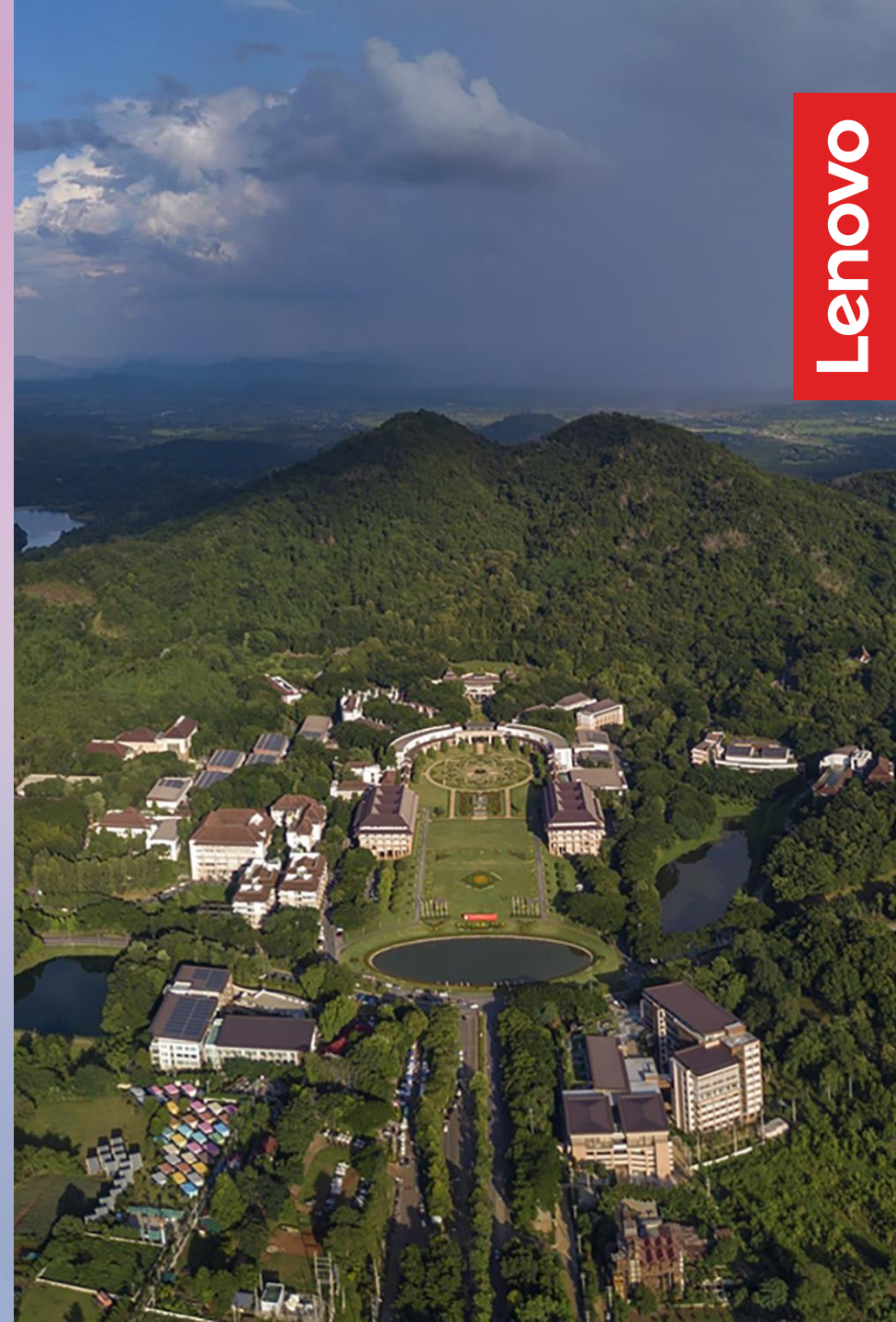


Education | Thailand

# Enhancing student and staff services

## Mae Fah Luang University

By migrating its core student registration system to a Lenovo ThinkSystem SR650 V3 server, powered by 4th Gen Intel® Xeon® Scalable processors, and all-flash ThinkSystem DE6600F storage, Mae Fah Luang University delivers up to 85% faster response times. That's the power of Lenovo with Intel Inside®.



Lenovo

# 1

## Customer background

# Who is Mae Fah Luang University?

Founded under Royal Charter in 1988, Mae Fah Luang University (MFU) is Thailand's fastest growing post-secondary institution with an enrollment of more than 15,000 students. Known as 'the University in the Park,' MFU's 2,000-acre campus is located in the northern district of Chiang Rai, surrounded by woods and mountains. All programs are taught in English, and MFU has consistently scored highly in the international outlook category in the Times Higher Education World University Rankings.

## 2 The challenge

As a modern, international university, MFU prides itself on the high quality of its digital services, which play an integral role in all aspects of life on campus, from student registration and teaching to communications, administration, and finance.

One of the most critical digital services is the university's registration system, as Dr. Mahamah Sebakor, Director, Information Technology Services Center at MFU, explains: "The registration system is a core service and a central platform for all other university systems. It must support around 20,000 users."

## 2 The challenge

MFU found that the registration system's response times were creeping up, particularly during peak periods. For example, at the start of each academic term thousands of students simultaneously log in to enroll on courses, pushing the platform to its limits.

Dr. Mahamah Sebakor comments: "As time went by, we began to experience more and more performance issues with the student registration system. Some SQL queries took more than 20 minutes to complete, leaving users frustrated and slowing down timetabling administration."

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“The student registration system was running on an older version of Oracle Database, and **the time had come for an upgrade.** We decided to take the opportunity to refresh the underlying infrastructure too, so we can be **ready for future growth.**”

Dr. Mahamah Sebakor

**Director, Information Technology Services Center, Mae Fah Luang University**

## All-new architecture

Following a lengthy proof of concept (POC), MFU selected a Lenovo reference architecture based on a Lenovo ThinkSystem SR650 V3 server and Lenovo ThinkSystem DE6600F all-flash storage array, optimized and certified for the latest Oracle Database software.

The Lenovo ThinkSystem SR650 V3 server is powered by 4th Gen Intel® Xeon® Scalable processors with built-in accelerators that increase query throughput and decrease memory footprint, helping to improve performance efficiency for database workloads.

### Hardware

Lenovo ThinkSystem SR650 V3 server powered by 4th Gen Intel® Xeon® Scalable processors  
Lenovo ThinkSystem DE6600F all-flash storage array

### Software

Oracle Database

### Services

Lenovo Deployment Services



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“It took the Lenovo team just two weeks to install and configure the hardware, and two days to upgrade and migrate the student registration system to the latest version of Oracle Database. It was such a **smooth, easy process.**”

Dr. Mahamah Sebakor

**Director, Information Technology Services Center, Mae Fah Luang University**

## 4 The results

Since upgrading its Oracle Database environment, MFU has seen the performance of its core student registration system increase dramatically.

“Response times are so much faster,” confirms Dr. Mahamah Sebakor. “During the final user acceptance testing, we found that the SQL query that previously took 20 minutes now took less than three minutes to run—85% faster than before.<sup>1</sup> We were seriously impressed. The Lenovo ThinkSystem servers and storage deliver exceptional performance. The user experience is vastly improved for both students and staff, and employees across all university departments can work more efficiently.”



Up to 85% faster  
response times



Improves the user  
experience



Helps staff work  
more efficiently

<sup>1</sup> Data provided by Mae Fah Luang University



**“With our student registration system running on powerful Lenovo and Intel technology, we can ensure consistently high performance now and as we continue to grow.”**

**Dr. Mahamah Sebakor**

Director, Information Technology Services Center,  
Mae Fah Luang University



# Why Lenovo?

MFU evaluated several solutions during the POC stage before choosing to work with Lenovo, including Oracle Database Application (ODA).

Dr. Mahamah Sebakor recalls: “We tested the proposed solutions with real data from the student registration system, and the results spoke for themselves. Lenovo’s offering completed the SQL query ten minutes faster than the next-best solution. Lenovo’s superior processing speed was the key deciding factor.”

# How do universities keep core systems running smoothly?

Mae Fah Luang University upgraded its core student registration system with high-performance Lenovo and Intel® technology.

**Explore Lenovo ThinkSystem Solutions**



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