



Universiti Malaysia Perlis  
Arau Perlis, Malaysia  
www.unimap.edu.my

#### Industry:

Education & Research

#### Employees:

1,400

#### Oracle Products & Services:

Oracle Database  
Oracle Real Application Clusters  
Oracle Application Server  
Oracle Portal  
Oracle Data Guard  
Oracle Forms  
Oracle Reports

#### Oracle Partner:

**CELESTRA**  
Network Communications

Celestra Network Communications  
Sdn Bhd  
www.cnc.net.my

**“Oracle’s database technology delivers outstanding performance, availability, and scalability. By moving to a more powerful and reliable platform, we will be able to support an expected increase in student numbers over the next three years.”** – Nasrudin Abd Shukor, ICT Director, Universiti Malaysia Perlis

## Universiti Malaysia Perlis Processes 10,000 Student and Staff Transactions in 30 Minutes

Universiti Malaysia Perlis is located at the northernmost part of the Malaysian peninsula. The 20-campus institution offers diploma, undergraduate, and postgraduate programs in a wide range of engineering disciplines. Up to 6,000 students attend campuses in northern Malaysia and in Kuala Lumpur.

### Challenges

- Optimize network, server, and storage infrastructure and implement sound backup and disaster recovery policies
- Improve ability to compete with more established institutions for student enrollments
- Support projected growth in student numbers from 6,000 to 10,000 over the next three years

### Solution

- Engaged Oracle Partner Celestra Network Communications to manage the upgrade to Oracle Database 10g with Real Application Clusters, and Oracle Application Server 10g
- Processed 10,000 transactions in 30 minutes, compared to 2,000 transactions per 300 minutes in the past
- Gained ability to support a rapid increase in demand for resources, as the Oracle platform can handle 6,000 concurrent users during peak hours, compared to 2,000 previously
- Ensured quick and reliable performance, with systems working at 1% to 2% capacity during normal periods and 5% at peak times, compared to 60% to 70% capacity in the past
- Cut application development time from five weeks to two weeks and reduced costs by 30%, as the Oracle solutions offer built-in tools that make it easy to fine-tune applications
- Reduced travel costs by 40% and improved productivity by 50%, as academic staff can access resources online and no longer need to visit individual campuses to gather information
- Ensured high availability by implementing Oracle Data Guard at the disaster recovery site to enable seamless switchover in the event of any problems
- Secured infrastructure for the long-term by updating network, server, and storage products and establishing proper backup and disaster recovery policies