



University of Porto Engineering School
Porto, Portugal
www.fe.up.pt

Industry:

Higher Education

Employees:

7,000 students
1,300 faculty staff
1 campuses

Oracle Products:

Oracle Database 10g Release 2
Oracle Real Application Clusters
(3 nodes)
Oracle Application Server 10g
(2 nodes)

Novell Products:

SUSE Linux Enterprise Server 9

“Oracle is the most innovative solution in the market. Together with Novell, Oracle provides us with a reliable, highly available, high performance cluster while using low cost hardware, a key to achieve success within highly constrained budgets.” – Manuel Machado, Information Systems Manager, FEUP

University of Porto Engineering School Serves 7,000 Students and 1,300 Faculty Staff with Oracle Database 10g on Novell SUSE Linux

With origins that date to the 18th century, Portugal’s world-renowned University of Porto Engineering School (Faculdade de Engenharia da Universidade do Porto, or FEUP) is part of University of Porto that accommodates 30,000 students and 3,000 faculty staff across the city of Porto.

Since 1996, FEUP has trusted Oracle to serve its information system needs. As these needs have evolved and expanded, Oracle has grown along with FEUP, and today a team of 30 people on the university’s R&D team work on SIGARRA, the university’s information system.

Today, with Oracle Database 10g and Real Application Clusters on Novell SUSE Linux Enterprise Server 9, FEUP supports an information system that manages student records, HR applications, faculty directories, curriculum information, and much more—with higher performance at a lower cost.

Challenges

- Securely deliver student and faculty information among 7,000 students and 1,300 faculty staff
- Develop an information system that is highly scalable, highly available, and highly secure
- Improve performance while lowering costs
- The system has to handle 250,000 clicks per day and support a peak of at least 500,000 clicks per day.

Solution

- FEUP selected the non-stop availability, scalability, and low-cost clustering of Oracle Database 10g Release 2 with Real Application Clusters and Oracle Application Server 10g
- FEUP deployed the Oracle solution on Novell SUSE Linux Enterprise Server 9, a scalable, high-performance foundation for secure enterprise computing
- Today, FEUP’s database is 65GB and growing faster every semester, with more than 1,000 tables and more than a million lines of PL/SQL.