



Ingegneria Sistemi Elaborazione Dati, S.p.A.

"The Clerity solution has improved our ability to deliver systems and applications that optimize our customers' IT infrastructure in critical areas such as health care, telecommunications, defense, and automation and control – areas that require reliable, efficient, and accurate information. Their precise requirements had outgrown the mainframe's ability to deliver information."

- Raffaele Giannetti, CEO, ISED

Highlights:

- Improved application response times by 66% over previous mainframe environment
- Reduced batch run times to one hour, compared with 10 hours on previous mainframe environment
- Enabled Web interface to provide essential high-speed connections for application services

Turnkey solution provides full migration and application development support, Web services, and training

Italian businesses and government agencies have long sought creative and efficient IT solutions to improve operations and reduce costs. Since 1974, ISED has offered specialized technical services to help companies find these new IT solutions.

Faced with new technology options, ISED needed to move to open systems platforms in order to continue to deliver high performance systems and improved information resources to its customers. By migrating existing legacy applications off the mainframe, ISED has gained higher IT performance, reduced operations costs, and established a Web-based information network that allows it to delivery improved services.

ISED systems power government and business operations

ISED's primary business involves integrating IT systems with new applications and solutions in networking, automation and control, administration and Web-based services developed for Italian government agencies, universities, health care, pharmaceutical, and emergency services clients and for geographic and environmental markets.

ISED has a long list of impressive customers: government agencies such as the Municipal Company for Energy and Environment of Rome, regional governments in the Lazio, Abruzzo, Puglia, Veneto, and Marche regions, universities in Rome, Florence, Verona, and Pisa, and the Consiglio Nazionale delle Ricerche (National Research Council).

Mainframe limits performance

Because ISED has been developing applications for nearly 30 years, many of its original applications ran on mainframe computers. With the advent of open systems servers that offer better performance and lower cost to businesses and government agencies, both ISED and their customers wanted to integrate new

applications with the existing mainframe applications and move them to newer, more efficient hardware systems. If ISED continued to rely on its mainframe, it would limit its ability to provide customers with the application performance they required, especially in the Internet age, where information and control systems needed split-second response.

ISED needed to offer its customers applications that could run on an open systems platform, yet remain compatible with the IT investments they had made over the years. To meet this goal, ISED teamed with I-Ter S.p.A., an IT service provider in Milan that offers specialized IT solutions, especially for mainframe application rehosting, and UniKix™ mainframe rehosting software from Clerity. UniKix rehosting software has been used to successfully migrate mission-critical enterprise applications from mainframe systems to open, affordable UNIX® systems at more than 1200 production sites worldwide.

I-Ter was the critical link that provided the turnkey solution for ISED. I-Ter, a certified Clerity mainframe rehosting partner, offered a turnkey solution for ISED providing full migration and application development support, Web services and training.

Rehosting ISED's applications

ISED and I-Ter began the process of migrating the applications from the mainframe with IBM® DB2® data, VSAM files, COBOL and IBM® CICS® applications. They moved 3000 online programs and 750 batch programs. The migration project also involved 250 VSAM files, 2400 screens, 650 batch jobs, and 2400 transactions to support over 1000 users.

ISED replaced the mainframe with new Oracle® Solaris™ based hardware. In addition to ISED's specialized applications, the new system hosts an Oracle suite for financials and a Java J2EE library for the production and development environment. The mainframe was retired after the rehosting process was completed.

With the experienced assistance of I-Ter, ISED was also able to create the Web solution. ISED used special libraries in the

UniKix rehosting software to develop a product that automatically converts the 3270 maps in pages for Web server presentation (HTTP, JSP, or XML format).

This enables the secure protocol to be used to access application transactions and all services can be distributed on an Internet/intranet network without any 3270 terminal emulator. This was a critical requirement of the project because ISED customers require high-speed connections for the services they buy from ISED. Also, high speed Internet connections are less expensive than the dial-up connections used previously, especially in the health care and pharmaceuticals area, where the connections must be open continuously.

Clerity environment offers ISED and its customers a future IT path

With the mainframe migration project completed, ISED and its customers are now able to develop new applications on the more efficient, less costly open systems platforms.

In addition, performance gains from the Clerity system are huge — response times are just one third what they were on the mainframe and have been reduced to milliseconds. Batch run times have been reduced from 10 hours to 1 hour.

ISED customers can now plan for their own future hardware and software purchases to take advantage of the newest technology that comes on the market and save millions of Euro in annual operating costs that legacy mainframes require. And, Clerity's legacy migration program will allow dozens of Italian government agencies, educational and health care institutions, and businesses to operate more efficiently.

"In this era of instantaneous information access, organizations are challenged to integrate legacy applications with open platform solutions and Web-based systems. Sun Enterprise servers and UniKix Rehosting Software allowed us to move all of our legacy code to a high performance environment and provide our customers with a path to the future."

Raffaele Giannetti, CEO, ISED



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