



CONSULTING &gt; SOLUTIONS &gt; OUTSOURCING

**Highlights:**

- Reduced annual operating costs by 50%; reduced cost-per-MIPS by 55%
- Provided significant processing capacity for future growth
- Implemented complete project in 10 months with no disruption to end-users or ongoing operations

## Atos Origin Migrates Adabas Natural Mainframe Applications with UniKix

### Rehosting enhances economies of scale and time-to-market for outsourced financial applications

With a global staff of over 55,000 employees in 40 countries, Atos Origin provides leading managed services and operations in areas such as midrange servers (UNIX®, NT, IBM® OS/400®), ERP applications, desktops, mainframes, security, messaging, and network services. Atos Origin Spain, a major division of Atos Origin, provides a mix of Consulting, Business Process Outsourcing, IT Outsourcing, and System Integration services -- Application Outsourcing being one of its largest managed services components.

As with its other offering areas, Atos Origin Spain (Atos) continually strives to reduce costs, improve return on investment (ROI), and evolve technology offerings for its Application Outsourcing and Managed Services customers. In line with these objectives, Atos rehosted several outsourced financial services payment processing and customer loyalty applications from the mainframe to open systems. These application packages serve several major financial services companies in Spain.

By moving key applications to UniKix™ mainframe rehosting software technology from Clerity and open systems, Atos was able to reduce costs by over 50%, free up significant processing capacity for anticipated future growth, improve time-to-market, and better equip its customer base to address market change and ongoing development.

### Enhancing return on investment and interoperability

After evaluating several alternatives, Atos decided that rehosting workloads to open systems using Oracle® Solaris™-based servers and UniKix rehosting technology from Clerity would best fit its objectives. In addition to being the least disruptive and lowest risk alternative, rehosting best met Atos' other success criteria standards, including:

- Rapid return on investment
- Equal or better performance
- Tight interoperability with existing systems and customer data sources
- Minimal-to-no end user impact

Once the rehost approach was selected, Atos worked with key personnel from Sun Microsystems and Clerity to develop and execute a detailed migration plan.

“Rehosting our Adabas/Natural offerings to open systems enables us to deliver efficient economies of scale without disrupting ongoing operations. Atos aims to constantly improve the business and technology benefits that our outsourcing offerings deliver to customers.”

Jose Antonio Tome, Project Leader, Atos

### Application workload details

Prior to the rehost project, Atos applications resided on a mainframe server running an IBM® OS/390® operating system. The mainframe workload consisted of 14 online and batch applications with over 12,000 objects and the following components:

- 2,064 JCL programs
- 65 IBM® CICS® applications with COBOL programs
- 5,830 Natural programs
- 330 COBOL-Natural programs
- 3,591 MAPS
- Various mainframe utilities such as ICEGENER, IDCAMS, SORT, IEBCOPY, and IEBGENER

In addition to these items, various Software AG products such as Adabas, Predict, Adabas Online Services (AOS), and Natural Advanced Facilities delivered key functionality on the mainframe environment that would also be needed on open systems. BMC's CONTROL-M and SyncSort provided important automation and sort functions in the Software AG environment and over 2 terabytes (TB) of historical data residing in Adabas would need to be accessed by these applications as well.

### Coordinated migration effort

With thorough planning and constant project management coordination between Atos, Sun, and Clarity personnel, Atos' mainframe rehost project was completed in just 10 months.

The previous mainframe workload was moved to a Sun Fire Server running UltraSPARC IV processors. These Sun servers were front-ended by Dell PE750 and PE850 servers to address reporting and Web Server functionality.

Atos' online and batch processing requirements were addressed with UniKix™ Transaction Processing Environment (TPE) and UniKix™ Batch Processing Environment (BPE) software from Clarity. UniKix TPE offers a fully functional, robust alternative implementation of IBM CICS transactions for online workloads on open systems. UniKix BPE provides a highly available batch execution environment for the batch Natural applications and the COBOL-based applications accessing the Adabas database, while also providing support for Jobs, Procs, JCL steps, batch management, and monitoring.

As detailed in Table 1, *Key Rehost Technologies*, other areas of Atos' outsourced application environment were replicated on the open systems servers:

- CONTROL-M and SyncSort continue to provide automation capabilities on the target Sun servers.
- SNAP-IX enables Atos to maintain SNA communications.
- Adabas, Natural, Predict, and Natural Security from Software AG all continue to be leveraged on the open system environment as well.

**Table 1.** Key Rehost Technologies

	Mainframe	Target Environment
Operating Environment	IBM OS/390	Solaris
Programs	Natural COBOL	Natural COBOL
Data	Adabas VSAM	Adabas VSAM
Sort Utility	SyncSort	SyncSort
OLTP Environment	IBM CICS application servers	UniKix TPE software
Batch Processing	JCL	UniKix BPE software
Local Printing	AFP	VIP
File Transfers	FTP, Editran, Xcom	FTP, Editran, Xcom
Management of Listings	Control-D	Webaccess (BMC)
Scheduling	Control-M	Control-M
Client Access	TN3270	TN3270 and VT220

### A successful endeavor

By rehosting its mainframe workload to open systems, Atos met or exceeded all project goals:

- Annual operating costs were reduced by 50%.
- Processing capacity increased by 35%.
- Cost-per-MIPS was reduced by more than 55%.

Atos's rehosted environment continues to run reliably today. The open systems environment was new to some on the Atos team, but by applying mainframe best practices to open systems procedures the operation of the Adabas, Natural, COBOL, IBM CICS, and JCL environments continues to go smoothly.

"Rehosting our Adabas Natural offerings to open systems enables us to deliver efficient economies of scale without disrupting ongoing operations," said Jose Antonio Tome, project leader, Atos. "Atos aims to constantly improve the business and technology benefits that our outsourcing offerings deliver to customers."

## About Clerity

Clerity is a leading full-service provider of mainframe migration, modernization, and optimization solutions. Drawing from over 16 years of experience, Clerity recognizes that companies have significant investments in core applications and procedures and provides a wealth of low risk, high value tools, technology, and services to reduce IT costs without sacrificing current functionality and service level agreements. Headquartered in Chicago, Illinois with offices worldwide, Clerity has customers in all in major countries, including some of the largest financial services ISVs and Fortune-class end users.

Learn how Clerity can provide an evolutionary path forward for your application and data environments at [www.clerity.com](http://www.clerity.com).



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