

## Banco Central de Reserva del Perú



*“As a result of the Institutional Strategic Plan, it was decided to rehost our mainframe workload. The Banco Central de Reserva del Perú is now in a better position to address today’s market requirements. Migrating to open systems reduced our annual operational costs by over 50%; allowing the financing to implement a high availability plan that included an external disaster recovery center.”*

*Felipe Roel Montellanos, CIO, Banco Central De Reserva Del Perú*

### Highlights:

- Reduced annual IT expenditures by 50%
- Savings financed the implementation of an external disaster recovery center
- IT flexibility was enhanced; application development now occurs more rapidly on open systems
- Application processing times improved 3x; region startup time windows were reduced by a factor of 5x
- Backup and restore times improved by a factor of 10x on average.

### Preserving monetary stability and improving global competitiveness

With over 55,760,652 thousand Peruvian Nuevo Sol (or approximately \$17 Billion United States Dollars) in total assets at the end of 2005, Banco Central de Reserva del Perú (the Central Reserve Bank of Peru) is responsible for regulating the money supply, managing the international reserves, issuing the currency, and reporting on the national finances for Peru.

By the year 2004, Banco Central de Reserva del Perú (BCRP) found that a proprietary mainframe environment and disparate data sources were hindering its flexibility and market responsiveness. High annual mainframe operational and maintenance costs, as well as technological complexity, slowed the implementation of new applications.

With these factors in mind, BCRP embarked on an initiative to improve the Bank’s agility and competitiveness in today’s growing global economy. Key to BCRP was speeding up time to release IT solutions under a vision of integrated systems, as well as improving disaster recovery capabilities.

### Rehosting provides the greatest competitive advantage

After reviewing several alternatives, BCRP decided to rehost its mainframe environment to an open, cost effective platform with UniKix™ technology from Clarity. Given BCRP’s complex environment and close levels of integration with banks, financial institutions, the central government, and external services such as DATATEC, Bloomberg, and SWIFT, preserving existing applications and investments in its professional expertise was viewed as critical to the project’s success.

A pilot project was performed before commencing the complete project and through this effort, BCRP determined that rehosting would deliver flexibility and significant cost savings without impacting the Bank’s existing functionality, providing a better environment to satisfy automation needs, connectivity, and service level agreements.

### Implementing a complete solution

During their implementation, BCRP migrated a number of IBM® CICS® transactions and batch applications in areas such as Financial Evaluation, International Operations, Economic Studies, Accounting and Supervision. In addition to migrating these key applications, a complete open systems platform environment was established to address functionality previously delivered on the mainframe.

Included below is a list of the primary areas moved from the mainframe to open systems:

- IBM® CICS® Transaction Server 1.3 was replaced with UniKix™ Transaction Processing Environment (TPE) software.
- UniKix™ Batch Processing Environment (BPE) software replaced functionality previously delivered in IBM JES2.
- IBM RACF® 2.7 security was addressed with UniKix™ Secure and Sun Java Directory Server.
- VSAM files were rehosted to UniKix™ VSAM.
- The IBM communication software IBM® VTAM® that supports the SNA network with external banks was replaced by SNAP-IX.
- IBM mainframe servers were replaced with Oracle® Solaris™ based servers.
- HA requirements previously addressed through IBM Parallel Sysplex® technology were addressed with Sun Cluster Geographical edition.

BCRP implemented a multi-platform storage solution to address storage and data replication needs, as well as a highly available (HA) offsite backup solution to improve disaster recovery capabilities.

### With careful planning and organization, the project is completed in 6 months

To ensure uninterrupted service throughout the process, there was high level of participation and coordination at every level of BCRP, including General Management and the Bank's Director. Test procedures were followed throughout

the implementation; change management processes were adhered to; and regular communications were made to keep everyone informed of progress. Prior to production cutover, connectivity with a subset of banks served by the Real Time Gross Settlement (RTGS) system was tested.

"We were pleased to discover that all key functionality previously delivered on the mainframe could be replicated on open systems. We were able to seamlessly move our core IBM CICS applications and Batch workloads over with UniKix and established a highly-available, robust systems management environment to address our related infrastructure and third-party software needs."

Rubén Gil, IT Manager, Banco Central De Reserva Del Perú

### BCRP gains flexibility and a cost-effective platform for future growth

BCRP views the migration project as a complete success and believes it is now better prepared to address dynamic market conditions on an open, flexible infrastructure.

In addition to being transparent to its end-users, consisting of internal and external banks served by the BCRP, the migration delivered significant annual cost savings. BCRP also gained several performance enhancements through this move. Backup and restore times improved by a factor of 10 times on average. On average, application processing times improved by a factor of 3 times and batch applications improved by 10 times, likewise the startup time for the application regions improved 5 times.

### 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.

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



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