RE-HOSTING BASED MODERNIZATION

HELPING YOU ACHIEVE YOUR MODERNIZATION GOALS

ORACLE RE-HOSTING BASED MODERNIZATION BENEFITS

Low Risk and Fast ROI

- Leaves application logic as-is whenever possible
- Highly automated process
- Shorter time frame than other approaches
- Predictable project
- Re-uses skill sets

Powerful Target Architecture

- Oracle Database and RAC
- Oracle Tuxedo for COBOL and C/C++ transaction processing
- Existing application components accessible as web services
- Integration with Oracle Application Server for transparent Java extensibility
- Integration with Oracle SOA Suite
- Supports re-hosting of CICS/IMS TM applications
- Supports migration of DB2, VSAM, IMS DB data stores
- Proven, mainframe-class reliability, availability, scalability, and performance

Oracle provides the target architecture for Re-Hosting Based Modernization – migrating legacy mainframe applications and data to a lower-cost platform without losing business value or sacrificing Quality of Service. The result: reduced operational costs and accelerated SOA enablement.

The Need for Modernization

As companies face increasing pressure to deliver more business value from their IT spending and free up funding for new business initiatives, reducing legacy mainframe costs and modernizing legacy applications have become top-of-mind concerns for CIOs and CFOs alike. Business-critical legacy mainframe applications constitute invaluable assets, their embedded business logic representing years of development and evolution. Among large enterprises, these assets represent 60% – 70% of all business-critical applications consuming two-thirds of IT's operations budget, while moving to open systems can reduce this annual cost significantly.

Moving these applications from mainframe systems presents several key challenges:

- How to preserve the valuable business logic and data of these applications
- How to maintain reliability, availability, scalability, performance and other Quality of Service attributes in an open systems environment
- How to ensure that migrated applications continue to meet performance SLAs
- How to achieve predictable, cost-effective results and ensure a low risk project

Re-Hosting Based Modernization

Re-Hosting based modernization recognizes that significant cost savings from a modernization effort are due to the lower cost structure of the open systems. To capitalize on this, this solution focuses on migrating to the target architecture as quickly as possible with the least risk, while enabling SOA integration and selective re-architecture of COBOL components to Java as subsequent steps.

In order to accomplish this, re-hosting based modernization combines re-hosting (migrating applications as-is to a compatible environment on another platform) with automated migration. Some examples of Re-Hosting Based Modernization are:

1) Migrating COBOL, C, or PL/I applications from mainframe transaction processing (TP) platforms, such as IBM CICS and IMS TM to Oracle Tuxedo, leveraging its robust COBOL and C/C++ container support, mainframe-class RASP, and compatible OLTP feature-set.

2) Migrating data and applications based on mainframe file systems and databases, such as VSAM, IMS DB or DB2 to use Oracle Database, while minimizing any changes to the application's data access code

THE ORACLE MODERNIZATION SOLUTIOON

KEY BENEFITS

- Substantial cost savings
- Faster ROI
- Preserves existing application and data
- Supports rapid SOA integration and re-use
- Enables modernization in stages
- Supported by key Oracle SI partners

KEY DELIVERABLES

- Robust database and transaction platform architecture
- Totally integrated, hot-pluggable, and extensible architecture
- Robust, transparent integration with remaining mainframe applications and data
- Partner Service Solutions

3) Migrating Batch applications to an open system by converting job control languages such as JCL to a script-based framework supplemented with JCL-related utilities and integrated with popular job schedulers.

4) Migrating 4GL applications to COBOL, C/C++, or Java, or re-targeting model-based applications to supported Oracle environment

Since the key goal of Re-Hosting Based Modernization is to migrate with the least effort, highest degree of automation, and least disturbance to the existing applications, Re-Hosting Based Modernization is of particular use when an organization is looking to migrate applications with substantial resource utilization to free capacity or migrate a large amount of code within a defined timeframe from a legacy platform such as an IBM, Unisys or Bull mainframe as part of an IT consolidation strategy to eliminate the legacy platform entirely.

Protect Investment in Legacy Applications

Unlike migration approaches based on rewrite of mainframe applications, Oracle's Re-Hosting Based Modernization solution preserves applications and data intact, providing continuity in business logic evolved over years of development and maintenance. The development team can also maintain and extend the applications in a familiar language, TP, and data environment avoiding re-training.

In addition to the obvious goal of cost saving, Re-Hosting Based Modernization achieves a number of other goals as well. Once in the open systems environment, re-hosted applications gain much simpler and robust integration with J2EE components, preserving end-to-end transaction and security contexts. In addition, re-hosted applications can expose business services through Web services and ESB interfaces, for direct integration into the enterprise SOA. Finally, any further desired modernization efforts such as selectively re-architecting legacy COBOL components to pure Java could be done incrementally in the new environment.

The Oracle Difference

More and more organizations are recognizing that in order to improve their agility in reacting to business change while at the same time reducing cost, they must eliminate legacy technology while at the same time retaining the highly valuable content of their current legacy applications. Re-Hosting Based Modernization is a proven solution that helped numerous customers to accomplish these goals quickly, easily and with low risk.

For more information on Re-Hosting Based Modernization, contact your Oracle representative or e-mail the Oracle Modernization Team at modernization_ww@oracle.com.