MODERNIZATION USING ORACLE DATA INTEGRATION

ODI SUITE AND SOA, NEXT GENERATION MODERNIZATION

MODERNIZATION WHILE REDUCING MAINFRAME COSTS

- Mainframe based reporting systems are costly and inflexible.
- Keep the application on the mainframe. Move the data first. Move the application and business processes in a phased approach.
- Oracle Data Integration Suite is a service orientated data migration, MDM and information integration 'backbone'.

The 'death of the mainframe' has been predicted for decades. So why has it not happened? Mainframes deliver a certain amount of well-established value for supporting legacy operations and pre-packaged business applications. While IT Managers recognize that there is a more cost-effective approach using standards-based open software, they have a hard time justifying the need to move away from their dependency. It's often seen as difficult or cost-prohibitive to extract the applications, data, and business rules for use with more open software-based frameworks. Today's mainframes typically hold the data 'hostage' because their business logic is so tightly coupled to the application and data model. What if there was a way to extract that information to be better leveraged as part of your enterprise architecture? The answer is in combining Data Integration and Service Oriented Architecture.

Combining SOA and Data Integration for Improved Modernization

Service Oriented Architecture (SOA) is all about creating a loosely coupled, component based infrastructure, and agile, 'business ready' information architecture. Data Integration is also a richly flexible platform that provides a layer for optimizing data movement, improving data quality, managing data relationships, and accessing data services. Combining SOA and Data Integration is often the first step in your modernization journey. It gives you the ability to deliver immediate business value and tangible results quickly. This improves productivity for IT staff members, will provide a fast ROI for management and executives, and more importantly rapidly satisfy IT business users and customers requirements.

Modernization Business Drivers

All IT initiatives are driven by business requirements. Service Orientated Data modernization business drivers include:

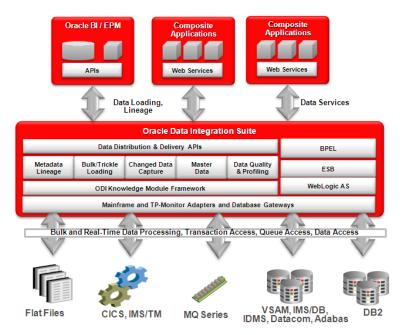
- Cost Reduction The mainframe clearly has a higher overhead in operational costs
 as compared to open systems. In addition, fragmented third party software solution
 costs often drive up expenses across the legacy application base. Moving the data
 to open systems can significantly reduce direct and indirect application costs.
- Real time information Business decision makers have to wait days and sometimes
 weeks to get the information they need to make decisions today.
- Limited vendor options The legacy system reporting tools, business intelligence
 products and packaged applications specific to an industry are inflexible,
 proprietary and costly. These proprietary legacy reporting tools inhibit the ability
 to leverage collaborative technologies such as Web 2.0.
- Web-enabled applications for flexible customer service—In today's 'flat world', customer service agents often work from remote locations at home, or in a remote call center in India or Philippines. Data modernization enables legacy applications



- to be reused in these flexible deployment situations to reduce costs, increase customer loyalty and deliver flexible staffing opportunities to the business.
- Limiting information chaos Because business users are not getting the
 information they need they create spreadsheets, use their own reporting tools, and
 develop departmental databases.
- Alignment with the corporate SOA strategy— The mainframe is now a 'first class' citizen in your SOA strategy. Most corporations deploying an SOA infrastructure will need to integrate with a mainframe.

Oracle's Solution for Modernization using Data Integration and SOA

Oracle Data Integration Suite (ODI Suite) is a comprehensive set of data management components for building, deploying, and managing enterprise data integration solutions. ODI Suite enables enterprise data architects to unify, manage, and distribute data into enterprise applications and orchestrated business processes. With ODI Suite's open and hot-pluggable components, organizations can easily extend and evolve their architectures instead of replacing existing investments.



Move the data and leave the application

The application is the most difficult part to move - so leave it on the mainframe. Instead, migrate the data using ODI-EE and leave the application on the mainframe. You can then use ODI-EE change data capture features to synchronize the Oracle open system database with mainframe databases, or start writing new applications on open systems and use ODI-EE to write the Oracle updates back to the mainframe. All ODI-EE functionality can be exposed as web services.

Data Movement and Data Synchronization Adapters

For data movement and keeping data in sync, Oracle currently has support for VSAM, Adabas and IMS-DB Change Data Capture (CDC) with write back to write the mainframe. Oracle partners with Atttunity, DataDirect, and Treehouse Software to provide support for IDMS, Datacom, and sequential files. Support for DB2 is provided through the Oracle DRDA Gateway.



Data Access Adapters

For accessing data to legacy applications, Oracle provides the Oracle Application Server Adapters. These adapters are fully standards-based and utilize a web service and compliant J2EE Connector Architecture (JCA). The Oracle Adapter SDK is lightweight and enables any JCA-compliant adapter to be rapidly integrated with the Oracle Application Server products. The Oracle AS Adapters can be deployed using Oracle WebLogic Server or Oracle Coherence for enterprise-class scalability and high availability.

Decouple the data and the consuming applications

But accessing data isn't the only answer. An additional layer of abstraction is required to enrich, monitor, manage, and route the information. A data services intermediary properly insulates legacy applications and their consuming business processes from any changes in the system. ODI Suite provides both include components for Oracle Service Bus and Oracle BPEL Process Manager, which when integrated provide a rich data integration layer of abstraction for data services access. For federation techniques, Oracle Data Service Integrator can be implemented to access data from multiple sources.

Master the Data on the Mainframe

Once the data is extracted from the mainframe, there are additional challenges associated with managing large complex data warehouses and data-centric applications. These include profiling (or understanding) data, improving data quality and building the relationships of the metadata. Each of these functionalities is pre-integrated to Oracle Data Integration Suite which includes Oracle Hyperion Data Relationship Management, Oracle Data Profiling and Oracle Data Quality.

Business Intelligence

Getting information to make real-time informed decisions is highly problematic with existing mainframe technologies. The mainframe is one of the most expensive reporting engines out there today. Many mainframe data sources are not relational so performing what-if analysis, let alone basic reporting, is costly to implement. Clients can reduce these costs by improving their productivity by using ODI Suite as a foundational layer for their Business Intelligence initiatives. ODI Suite provides pre-built integrations to Oracle BI EE Suite to build foundational BI solutions that are extensible and perform at near real-time. In addition, ODI Suite integrates easily with Oracle EPM solutions like Oracle Hyperion Essbase, Oracle Hyperion Financial Management, and Oracle Hyperion Planning.

Achieving a Successful Data Modernization Implementation

Data Modernization projects typically last one to four months and delivers high customer value. This is far from the legacy project of yesterday that involved three to five year efforts. We live in a world of short attention spans, and instant gratification; we don't read the morning newspaper but get it on the net. So our modernization journey needs to reflect these changing times. The Oracle Modernization team has expertise in Service Orientated Enablement best practices, Data Integration, and expertise in Oracle's Data Integration Suite, along with experienced tools and services partners. With these expert resources, you can join the other companies that used the Oracle Data Integration Suite to innovate above and beyond their legacy applications.



THE ORACLE MODERNIZATION SOLUTION USING ODI

KEY BENEFITS

Oracle Data Integration Suite can be used to lower modernization risks and enable a modernization that can be done in months instead of years.

ORACLE PRODUCTS

The following are available from Oracle Modernization:

- Oracle Data Integration Suite
- Oracle Data Integrator EE
- · Oracle 11g Database
- · Oracle Fusion Middleware
- · Oracle SOA Suite
- Oracle Business Intelligence Enterprise Edition

ORACLE AND PARTNER
MAINFRAME ADATPERS
AND GATEWAYS

- Oracle Adapter for CICS
- Oracle Adapter for IMS/TM
- Oracle Adapter for VSAM
- Oracle Adapter for IMS/DB
- Optional: Oracle partner tools and technologies

FOR MORE INFORMATION

General:

oracle.com/goto/modernization

Oracle Data Integration Suite http://www.oracle.com/products/ middleware/odi/odi-suite.html

Email

modernization ww@oracle.com

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