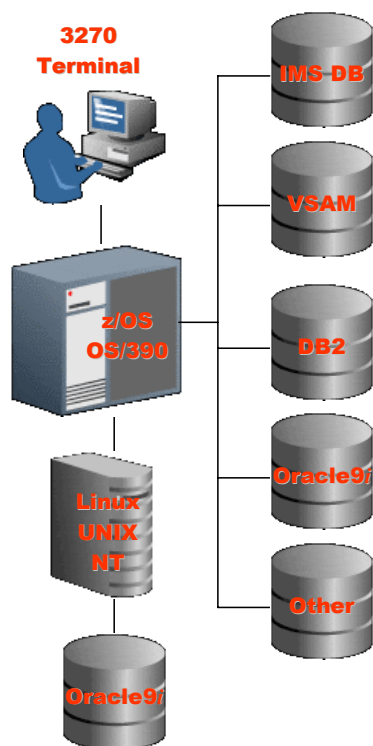# Oracle Access Manager for IMS

Oracle Access Manager for IMS enables any of your IMS TM transactions to access any Oracle server anywhere in your network. Integrating your mainframe becomes simple when updates to VSAM, IMS DB, DB2, and Oracle data are kept consistent—even in the event of hardware or software failure. Oracle Access Manager for IMS lets you leverage you investment in mainframe skills, tools, and techniques, so you can focus on your mainframe integration project—whether big or small. And Oracle Access Manager for IMS provides unique value to your organization because it's included, at no extra charge, with Oracle Programmer for z/OS.

With the Oracle Access Manager for IMS, a single z/OS transaction can update IMS DB, VSAM, DB2 as well as Oracle data located on a mainframe, Linux, UNIX, or Windows server.

The Challenge: Integrating the Mainframe

As technology has evolved from proprietary systems, to open systems and client/server, and more recently to Internet computing, the typical computing environment has evolved to contain a variety of applications with data in different formats, hosted on a mix of platforms. In a single company, data is likely to be dispersed across several mainframes, multiple Linux, UNIX or Windows servers, and perhaps hundreds of desktop systems. Integrating this diverse environment has become a major challenge.

The Solution: Oracle Access Manager for IMS

Oracle Access Manager for IMS helps you meet this challenge by giving your IMS TM transactions unmatched capability to integrate data from multiple platforms. As a component of Oracle Programmer on z/OS, Oracle Access Manager for IMS is part of a powerful solution for integrating batch, TSO, CICS, IMS TM, and USS transactions with data that resides in traditional mainframe sources as well as any Oracle Database server in your network.

Data integrity and security are fully protected. Updates to an Oracle Database server are part of the same transaction as updates to IMS TM-managed resources such as VSAM, DB2, and IMS DB, and the Oracle Access Manager for IMS automatically integrates with IMS TM recovery. Since Oracle Access Manager for IMS lets you use any SAF-compliant security managers, you stay in complete control of all access to your sensitive data.

Oracle Access Manager for IMS is based on ESAF, the IMS External Subsystem Attachment Facility. Using the published ESAF interface, it is considered a standard IMS TM recoverable resource, allowing IMS TM to serve as the coordinator for two-phase commit processing. You build your IMS TM applications with the Oracle Pro*COBOL, Pro*C, or Pro*PL/I precompilers, and run them in conjunction with the Access Manager for IMS. If your Oracle Database is not hosted on a mainframe your Oracle requests are routed directly through Oracle Net Services to TCP/IP.

Combining proven technologies that Oracle has provided since 1988, Oracle Access Manager for IMS allows you to leverage your investment in existing mainframe applications and integrate all the data in your enterprise.

Oracle Access Manager for IMS

Hardware and Software Requirements

The Oracle Access Manager for IMS requires an IBM or plug-compatible mainframe running IMS TM for z/OS or OS/390.

Key Features

Oracle Access Manager for IMS

- Allows applications running under IMS TM to issue industry-standard SQL statements against an Oracle server
- Supports IMS TM SYNCPOINT
- Requires an IBM-supported version of IMS TM

Oracle Precompilers for COBOL, C, and PL/I

- Allow you to embed Oracle SQL statements in high-level source programs
- Applications executed under IMS TM
- Pro*COBOL supports the latest IBM COBOL compilers
- Pro*C™ supports the latest IBM C/C++ compilers
- Pro*PL/I® supports the latest IBM PL/I compilers

Oracle Net Services

- Provides network communications between mainframe applications and remote Oracle servers
- Oracle Net supports TCP/IP

Seamless Distributed Access

- Leverage your investment in mainframe applications by accessing both mainframe data and open systems data
- Distributed updates between z/OS recoverable resources and Oracle data
- Two-phase commit coordinated by IMS TM
- Multisite JOINs of data from multiple Oracle servers
- Used in conjunction with any of the Oracle Transparent Gateway products, the Oracle Access Manager for IMS allows your mainframe transactions to access non-Oracle data such as Sybase, Informix, and DB2/400

SQL Implementation

- Interface to Oracle servers using standard ANSI/ISO SQL
- Powerful PL/SQL™ procedural extension to ANSI/ISO SQL

Complete Security

- Integrates with RACF or SAF compatible security managers
- Secure internet computing and client/server connections

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