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# PROGRESS® OPENEDGE® DATASERVERS

## PROVIDING SOLUTIONS FOR REAL-WORLD ENVIRONMENTS

In today's computing environment, organizations must provide efficient access to diverse data sources throughout the enterprise. To meet this challenge, Progress® OpenEdge® DataServers provide Advanced Business Language (ABL) applications with a flexible, transparent interface that enables simultaneous access to multiple data sources.

To achieve the tightest possible integration between the ABL and the underlying database managers, OpenEdge DataServers support both native database features, such as stored procedures and ABL syntax. The result is the ability to develop Progress-based applications with database independence.

OpenEdge DataServers provide a powerful environment for developing and deploying ABL and web-based applications geared to today's heterogeneous, distributed computing environment. Providing full read, write, update and delete capabilities to diverse data management systems, OpenEdge DataServers enable software developers to write applications once and deploy them across a range of data sources. DataServers also enable existing ABL and web-based applications to access non-Progress data sources, allowing the integration of new and legacy applications with diverse databases.

## COMBINING RAPID DEVELOPMENT AND HIGH PERFORMANCE

OpenEdge DataServers combine the rapid application development benefits of the Progress component-based development environment with the high performance of today's powerful database engines. By providing consistent application behavior, such as locking, scrolling, sort order, and case sensitivity, OpenEdge DataServers simplify application development and deployment. Together with the Progress data dictionary, the OpenEdge and Progress® WebSpeed® integrated development environments (IDEs) hide much of the complexity normally associated with the development and maintenance of database definitions, application defaults, and business rules. The data dictionary normalizes data requests for a given data manager, making it possible to put data wherever it is needed.

OpenEdge DataServers provide proven scalability and portability across multiple hardware platforms. They support application clients including Citrix, UNIX and the various implementations of Microsoft Windows.

### HIGHLIGHTS:

▸ Promotes efficient application development and maintenance

▸ Allows the development of applications independent of the deployment database

▸ Provides reliable on-line transaction processing and performance

▸ Supports host-based, web-based, client/server and multi-tier environments

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## OPENEDGE DATASERVER FOR ORACLE

The OpenEdge DataServer for Oracle enables developers to build and deploy ABL and WebSpeed applications that send information to, or retrieve information from, an Oracle database.

Designed for enterprise computing environments, the Oracle DataServer supports complex architectures including client/server, host-based, web-based, and multi-tier configurations. Whether data is stored in a single Oracle database or distributed across multiple data sources, the flexibility and high performance of the OpenEdge DataServer for Oracle protect investments in existing technologies and complements organizations' information systems strategies.

Utilizing the Oracle Call Interface (OCI), the Oracle DataServer has performance optimization capabilities that help deliver fast, on-line transaction processing via the industry-standard network transport protocol, TCP/IP. Network performance is improved by optimizing message buffering, array fetch processing, and run-time SQL variable binding. Progress components that access Oracle data can be distributed for maximum performance.

Support for Oracle native features ensures that developers can continue to leverage their expertise in Oracle technology to guarantee on-time delivery of their Progress applications. For tight integration with existing Oracle databases, developers can take advantage of Oracle stored procedures, stored functions, packages, and triggers, as well as Oracle views, synonyms, constraints, security controls and hints from within the ABL or WebSpeed procedures.

| DATASERVER FOR ORACLE SPECIFICATIONS | |
|---|---|
| **Database Supported:** | Oracle 9i and higher |
| **Networking Interfaces:** | Oracle SQL *Net/Net8 OpenEdge/Progress networking |
| **Network Transport Protocol:** | TCP/IP |
| **Clients Supported:** | Windows NT/2000/2003/XP, Citrix, and any OpenEdge-supported UNIX client platform |
| **Servers Supported:** | HP-UX 64, IBM AIX 32/64, Sun Solaris 32/64, HP-UX (Itanium) 64, Windows NT, Windows 2000/2003/XP, Linux PPC, Linux x86 32-bit, Linux x86 64-bit, and HP-UX PA-RISC 64-bit |
| **Application Programming Interface:** | Oracle Call Interface (OCI) |

## OPENEDGE FOR ORACLE DATASERVER HIGHLIGHTS:

- Reads and writes to and from Oracle 9i and higher data sources
- Provides high-speed Internet transaction processing performance through Progress® WebSpeed®
- Includes advanced query-tuning capabilities with excellent client/server and multi-tier processing and reporting performance
- Delivers high performance through support for Oracle-specific data manager features
- Allows optimistic updates to reduce locking contention and increase total throughput
- Allows tunable schema checking to decrease network traffic in a client/server or multi-tier environment
- Offers an incremental schema change utility to simplify application upgrades
- Dynamically loads Oracle Dynamic Libraries to ease customer installation
- Includes the ProToOra Conversion Utility to simplify conversion of a Progress database schema into an Oracle schema

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## OPENEDGE DATASERVER FOR MS SQL SERVER

The OpenEdge DataServer for Microsoft SQL Server provides connectivity to Microsoft SQL Server 2000/2005 data sources from ABL and WebSpeed clients. Using ODBC Level 3.5 compliance, the OpenEdge DataServer allows application developers to access the Microsoft SQL Server database management systems transparently and integrate these data sources across a variety of configurations.

The DataServer for SQL Server provides high performance and flexible connectivity with features that include stored procedures support, multi-user connectivity, and increased deployment flexibility. Support for diverse client and server platforms enables the DataServer for SQL Server to provide more efficient enterprise-wide network computing.

| DATASERVER FOR MS-SQL SERVER SPECIFICATIONS | |
|---|---|
| **Database Supported:** | Microsoft SQL Server 2000 and 2005 |
| **Networking Interfaces:** | OpenEdge/Progress networking or vendor-specific networking for supported data sources |
| **Network Transport Protocol:** | TCP/IP |
| **Clients Supported:** | Windows NT/2000/2003/XP, Citrix, and any OpenEdge-supported UNIX client platform |
| **Servers Supported:** | Windows NT/2000/2003/XP |
| **Application Programming Interface:** | ODBC: (Level 3.5 compliant) |

## OPENEDGE FOR MS SQL DATASERVER HIGHLIGHTS:

▶ Simplifies application development and maintenance since you can develop applications independent of the deployment database

▶ Provides heterogeneous access support that lets a Microsoft SQL Server data source participate as a full member in a multi-database transaction

▶ Includes the ProToMSSQL Conversion Utility to simplify conversion of a Progress database schema into an SQL Server schema

▶ Provides ODBC block fetch capability and fast, firehose cursor results for NO-LOCK queries

▶ Offers ANSI compliance of all internal SQL code

▶ Provides additional connectivity and database processing throughput with both ODBC and server-managed connection pooling

▶ Emulates OpenEdge sequences using sequence generators that map OpenEdge sequence capabilities to native constructs in MS SQL Server

▶ Supports Dynamic SQL and parameter substitution for prepared cursor reuse

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## OPENEDGE DATASERVER FOR ODBC

The OpenEdge DataServer for ODBC allows you to develop and deploy OpenEdge ABL or WebSpeed applications that access DB2 and Sybase data sources. The OpenEdge DataServer for ODBC supports advanced features, such as stored procedures, and is fully compliant with ODBC-3.5, even though not all 3.5-compliant features are needed or utilized by the OpenEdge DataServer for ODBC.

The OpenEdge DataServer for ODBC allows you to access ODBC data sources with the OpenEdge ABL and develop applications within the Progress® OpenEdge® Studio. This is a set of tools that helps you to maintain data sources and develop applications with graphical user interfaces.

When you develop applications with the OpenEdge Studio, you can separate your user interface, business logic, and data sources. OpenEdge Studio provides user interface independence, whether you need a character UI, a graphical Windows UI, or a web interface. When you incorporate a dataserver with OpenEdge Studio, you enable your OpenEdge ABL business logic to access a foreign data source.

| DATASERVER FOR ODBC SPECIFICATIONS | |
|---|---|
| **Database Supported:** | DB2, Sybase and ODBC-compliant data sources |
| **Networking Interfaces:** | OpenEdge/Progress networking or vendor-specific networking for supported data sources |
| **Network Transport Protocol:** | TCP/IP |
| **Clients Supported:** | Windows NT/2000/2003/XP, Citrix, and any OpenEdge-supported UNIX client platform |
| **Servers Supported:** | Windows NT/2000/2003/XP |
| **Application Programming Interface:** | ODBC: [Level 3.5 compliant] |

## OPENEDGE FOR ODBC DATASERVER HIGHLIGHTS:

▸ Provides multi-user access and allows configuration on remote servers

▸ Bundles ODBC drivers for the supported data sources with the product

▸ Provides a separate ODBC driver for each supported data source

▸ Provides case-sensitive indexes and supports large key entry

▸ Supports remote clients, OpenEdge AppServer and WebSpeed Transaction Servers

▸ Provides block fetching, SQL parameterization, and prepared cursor reuse with adjustable query-tuning capabilities

## TAKING THE NEXT STEP

Find out how Progress OpenEdge can simplify the process of developing the world's best business applications. For more information, contact your local Progress sales representative or visit: www.progress.com.

www.progress.com

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