



# PROGRESS® OPENEDGE® APPLICATION SERVER

## ADDRESSING A VARIETY OF BUSINESS NEEDS

The Progress® OpenEdge® Application Server provides you with a foundation for building a flexible, scalable application infrastructure. It supports an open, component-based model for partitioning applications and enables the easy distribution and reuse of business logic, thus saving you time and resources.

By partitioning applications and separating the business-processing logic from the user-interface logic, you can access applications through virtually any interface. Centralized business logic then improves productivity by providing you with a single point to manage access to data and processes.

Two editions of OpenEdge Application Server are available to address the varied processing and deployment needs of your business:

- ▶ Progress OpenEdge Application Server Basic Edition provides a cost-effective solution for deploying simple yet dynamic business applications to meet the requirements of small and mid-sized businesses.
- ▶ Progress OpenEdge Application Server Enterprise Edition provides a complete application server solution for mid-size to large deployments. In addition to the capabilities provided in the Basic Edition, the Enterprise Edition provides support for web services and the Aurea Sonic Enterprise Service Bus [ESB].

Both the Basic and Enterprise Edition include the OpenEdge Application Server and the Progress® WebSpeed® Transaction Server, each of which is described in the sections that follow. For configurations that require load balancing and failover, the NameServer Load Balancer (an add-on to the Application Server Enterprise Edition) further ensures resource management and application reliability.

## PROVIDING AN APPLICATION INFRASTRUCTURE FOUNDATION

The open, standards-based interoperability and integration in the OpenEdge Application Server ensure that applications can support virtually any client or user interface [.NET, Java, XML, web services, GUI, and character]. At the same time, the OpenEdge Application Server supports a unique client solution for deploying rich user interfaces over the Internet: Progress OpenEdge WebClient with IntelliStream. This client technology dramatically simplifies and speeds application deployment and access over the web, saving IT resources and enhancing the end-user's experience. To meet the specific demands of browser-based Internet applications, OpenEdge Application Server includes the WebSpeed Transaction Server.

## HIGHLIGHTS:

- ▶ Ensures reliability by offering load balancing and failover
- ▶ Reduces hardware requirements by providing state management
- ▶ Provides asynchronous processing for faster application response time
- ▶ Allows OpenEdge ABL, web, .NET, Java, and web services clients direct access to the same business logic

## OpenEdge Application Server

Open clients, such as Java, .NET, and web service applications, can access ABL procedures on an Application Server. State-free and stateless server technology, message queues, and distributed load balancing provide application scalability. The previous figure shows how you can deploy the OpenEdge Application Server in distributed applications and illustrates how it supports any client, any application, any business, and any data source.

## OFFERING OPEN, STANDARDS-BASED INTEROPERABILITY

Business applications that use the OpenEdge Application Server can support virtually any user or client interface. You can use OpenEdge development tools such as Progress OpenEdge Architect to create ABL and HTML applications and components for character, Windows and web interfaces. Using the open client, you can generate “proxy” code that enables Java, .NET[C#], C, C++, and web services interfaces to transparently access the application components on the Application Server.

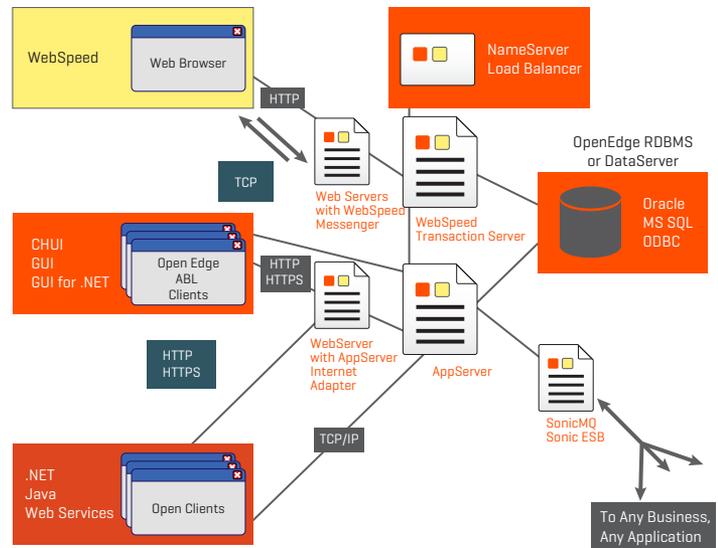
An application that uses the OpenEdge Application Server can access virtually any database. The Progress OpenEdge RDBMS provides industry-standard interfaces: SQL-92, ODBC and JDBC, while the Progress OpenEdge DataServer products provide support for other third-party databases, including Oracle, Microsoft SQL Server, and any ODBC data source (such as IBM DB2, etc). This broad support for user interfaces and data access provides information accessibility today, tomorrow and into the future.

To connect to any business, the Application Server fully integrates the Aurea Sonic ESB and SonicMQ E-Business Messaging Server with your ABL application. SonicMQ simplifies the integration of distributed applications, providing guaranteed delivery of messages over the Internet or LAN with support for point-to-point and publish-and-subscribe messaging models. There is no need for you to write code to speak to a third-party messaging product or write Java to handle messages between applications. Sonic ESB is the world’s first enterprise service bus [ESB]. It complements and extends point-to-point integration with a robust, event-driven architecture that can evolve, scale, and extend throughout the enterprise.

## OPENEDGE NAMESERVER AND LOAD BALANCER

The OpenEdge Application Server integrated NameServer load balancer streamlines client application requests and shields the application servers from specific deployment hardware assignments. The NameServer acts as a conduit for assigning client application requests. Because it stores information for all OpenEdge Application Servers, you can change, move, update, or delete an application server without affecting the client application. Users remain unaware of any changes to the server and can continue running their applications without disruption.

The NameServer also provides load-balancing capabilities for distributing application processing throughout the network. Furthermore, the NameServer provides failover capabilities so that application requests to an Application Server are automatically redirected to specified backup servers should the original server fail for any reason.



## WEB-ENABLING APPLICATIONS WITH THE APPLICATION SERVER INTERNET ADAPTER

Using the Application Server Internet Adapter, you can web-enable any OpenEdge client, including the OpenEdge WebClient. The adapter is a Java Servlet that runs on a web server to establish connections through Internet firewalls using HTTP tunneling. When you use it in conjunction with the WebClient, you can deploy a rich GUI client over the Internet that uses minimal bandwidth and results in a small footprint on the client PC. Refer to the WebClient data sheet for more details.

If a secured, encrypted connection is required by an application, you can use the Secure Application Server Internet Adapter, which supports Secure Sockets Layer [SSL] to offer HTTPS tunneling through your Internet firewall.

## WEBSPEED TRANSACTION SERVER

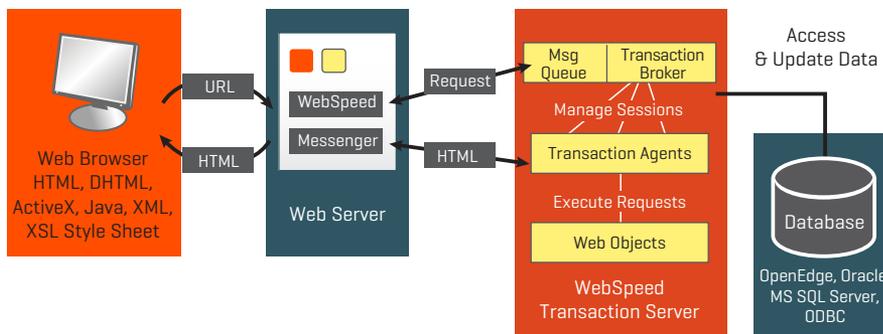
The WebSpeed Transaction Server provides an optimized transaction-processing environment to help you achieve high transaction volumes and rapid responses for web browser-based applications. With high throughput, sub-second transaction times, and dynamic load balancing, you get the unsurpassed ability to handle thousands of simultaneous users.

Dynamic load balancing ensures high availability of transaction processing resources in a distributed, multi-tier environment. WebSpeed Transaction Server also allows developers to leverage common business logic for client/server, n-tier and web applications. Flexible state management offers full support for extended database queries and updates using state-free, stateless, state-aware, or state-persistent web objects.

### **The WebSpeed Transaction Server also features:**

- ▶ Ability to service both HTML and XML-based web applications
- ▶ Message queuing to dramatically improve scalability
- ▶ Efficient handling of peak and off-peak loads by dynamically starting WebSpeed Agents
- ▶ NameServer for location transparency, load balancing and redundancy

The open WebSpeed architecture also gives you the freedom to integrate your choice of security solutions, including firewall, authentication, authorization, and encryption technologies.



*This figure shows the WebSpeed Transaction Server and how it relates to Web browser clients and backend data.*

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## SPECIFICATIONS, REQUIREMENTS AND PLATFORM SUPPORT

The OpenEdge Application Server is available on Windows, UNIX, and Linux platforms. For the latest information on supported platforms, see the OpenEdge Platform and Product Availability Guide on the Progress Software Developers Network [PSDN].

For more information about the OpenEdge Application Server, please contact your local Progress Software sales representative.

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### PROGRESS SOFTWARE

Progress Software Corporation [NASDAQ: PRGS] is a global software company that simplifies the development, deployment and management of business applications on-premise or in the cloud, on any platform or device, to any data source, with enhanced performance, minimal IT complexity and low total cost of ownership.

### WORLDWIDE HEADQUARTERS

Progress Software Corporation, 14 Oak Park, Bedford, MA 01730 USA Tel: +1 781 280-4000 Fax: +1 781 280-4095 On the Web at: [www.progress.com](http://www.progress.com)

Find us on  [facebook.com/progresssw](https://facebook.com/progresssw)  [twitter.com/progresssw](https://twitter.com/progresssw)  [youtube.com/progresssw](https://youtube.com/progresssw)

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