



4GL Development System

The 4GL Development System provides all the tools required for writing applications using the full power of the Progress 4GL, a business-purposed programming language.

HIGHLIGHTS

Includes a full-featured tool set, including an editor, compiler, debugger, data dictionary, and data administration utilities.

Ideal solution for software providers who want to allow their end users to customize or maintain an application on site.

Supported on UNIX and Linux platforms

At the core of OpenEdge™ application development is the Progress® 4GL, a language specifically purposed to express business processes as efficiently as possible. Understanding that today's application developer has to deal with a complex set of technologies, the Progress 4GL has evolved to include interfaces to key industry standards, such as XML and Web services. For jobs that require manipulating specialized code, the 4GL includes powerful and adaptive syntax. Developers have the option of creating one set of code but deploying it on Microsoft Windows, UNIX, and Linux platforms.

An OpenEdge developer can create APIs for .NET clients, Java™ clients, Java messaging, even map database schema to XML formats, without ever leaving the efficiency of the Progress 4GL and OpenEdge tools behind.

- Eases development and change with a Procedure Editor for easy cut, paste, search and replace operations
- Reduces development time and increases consistency with a central Data Dictionary
- Includes a Debugger to locate and fix errors in logic and data in order to deliver quality applications
- Allows maintenance of critical business data and permits data interchange with non-OpenEdge data sources using the Database Administration Tools

Essential Tools for Developing Applications

The Progress 4GL derives its power from the ability to concisely express business processes. These business operations or entities typically have a significant data-processing component. The Progress 4GL and the OpenEdge development tools reflect this interdependency. The 4GL Development System includes programming tools, database tools, and server resources in one environment allowing you to have easy access to all the resources that make up your application.

Procedure Editor

- Build, modify, and test all OpenEdge application components .
- Use a full range of editing features, including file drag-and-drop, cut-and-paste, and a search-and-replace feature, that allow you to make large-scale changes to several different programs quickly .
- Create hooks to interface with third-party tools .
- Look up syntax details with F1 Help functionality (in graphical environments only).

Application Compiler

- Compile source procedures individually or in groups .
- Specify file-overwriting rules.
- View and modify the list of directories on your PROPATH.
- Create one set of executable code that runs on all supported platforms .

Debugger

- Validate applications quickly and thoroughly . This tool is supported in graphical environments only (including those on UNIX and Linux), that is environments that support the Java swing class .
- Locate and correct errors in application logic or data handling in any OpenEdge application component.
- Track the flow of control in an application, even a highly-distributed one.
- Examine the contents of buffers and variables .
- Access state information .
- Trace processing events .

Open Client Toolkit

- Generate Java, .NET, and Web services proxies for accessing Progress 4GL business logic on the AppServer™ from J2EE, .NET and other platforms .
- Create components for deployment in a client/server, n-tier, or Web environment .

Data Dictionary

- Create and maintain database definitions, application defaults, and business rules .
- A central storage mechanism for all database information insulates you from the specific details of each database type and location.
- The Progress 4GL uses Data Dictionary defaults automatically when you build new application components .
- Make a single change to a definition stored in the Data Dictionary and have that change automatically inherited by every application component that refers to the original definition.

Data Administration

- Build an application database.
- Dump and load data and definitions, in binary or text format.
- Exchanging definition information from non-OpenEdge data sources for use with OpenEdge DataServers for Microsoft SQL Server, ODBC, and Oracle.
- Define application security and permissions.
- Import and exporting data to and from a variety of sources.
- Maintain and tailor deployed databases.

OpenEdge Development Server

- Run and validate code for a distributed applications on development-scaled AppServer (2 Agents), WebSpeed® Transaction Server (2 Agents), OpenEdge RDBMS (Personal, 1 Registered Client) and Client-Networking (1 Registered Client).

Specifications and Requirements

Platform Support:

- Windows® XP and 2000/2003
- Sun® Solaris™ SPARC
- Citrix MetaFrame
- SCO UnixWare 7.1.4
- Compaq® Tru64
- Red Hat Linux
- IBM AIX® 5L 5.2 64- and 32-bit
- SUSE LINUX
- HP-UX® 64- and 32-bit
- Turbolinux
- HP-UX Itanium 2

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