Progress®



Install OpenEdge

OpenEdge®

Table of Contents

Preface....7

Before You Install....9

System requirements and supported platforms....9
Plan your installation....10
Install a supported JDK....13
Windows installation considerations....14
Download the License Addendum file....15
Installation method choices....15
Installation types....15
Share an OpenEdge installation on a Windows network....16
Custom installation bundles....17
Technical product content and sample applications....17

Licensing....19

Obtain a License Addendum file....19
Add licenses to an existing installation....20
Update existing product licenses....22
Display license information....24
Use the SHOWCFG utility on Windows....26
Use the SHOWCFG utility on UNIX or Linux....27
Manage user licenses on all supported platforms....28
Use the OpenEdge database license file....30
Remove a license for an installed product....31

Install OpenEdge on Windows....33

Launch the Windows interactive installer....34
Select your OpenEdge installation choices....35
Complete the installation....46
Share an OpenEdge installation on a network....49
Set up the shared network on the network server....52
Run NetSetup to set up a client connection....52
Create a custom installation bundle for Windows machines....54
Install additional products later....54
Add components to an existing OpenEdge installation....59

Install OpenEdge on UNIX or Linux....63

Launch the UNIX interactive installer....64

Select your installation choices....65
Complete the installation....72
Create a custom installation bundle for UNIX or Linux machines....73
Install additional products later....74
Add components to an existing OpenEdge installation....75

Create a Silent Installation....81
Contents of the response file....82
Modify the data input option....83
Run the silent installation on Windows platforms....83
Check the status of the silent installation log file....84
Optional data input activities....87
Run the silent installation on UNIX or Linux Machines....89
Check the status of the silent installation log file....90
Optional data input activities....92

Uninstall OpenEdge....95
Uninstall OpenEdge on Windows....95
Uninstall OpenEdge on UNIX and Linux....96

After You Install....99

Run the Microsoft Windows Installer Package for Client Networking...101

Manage Installation Configurations....109
Configutil operations....110
Configutil properties file....113
OVERRIDE_PATHS and OVERRIDE_HOSTNAME properties....113
FORCE_OVERRIDE....114
DONT_OVERRIDE....114
Export and import registry entries based settings....116
Exporting and Importing XML files-based settings....117
Logging of import and export operations....118

Upgrade the JDK After Installation....119

Copyright

© 2021 Progress Software Corporation and/or its subsidiaries or affiliates. All rights reserved.

These materials and all Progress® software products are copyrighted and all rights are reserved by Progress Software Corporation. The information in these materials is subject to change without notice, and Progress Software Corporation assumes no responsibility for any errors that may appear therein. The references in these materials to specific platforms supported are subject to change.

DataDirect Cloud, DataDirect Connect, DataDirect Connect64, DataDirect XML Converters, DataDirect XQuery, DataRPM, Defrag This, Deliver More Than Expected, DevReach (and design), Icenium, Inspec, Ipswitch, iMacros, Kendo UI, Kinvey, MessageWay, MOVEit, NativeChat, NativeScript, OpenEdge, Powered by Chef, Powered by Progress, Progress, Progress Software Developers Network, SequeLink, Sitefinity (and Design), Sitefinity, Sitefinity (and design), SpeedScript, Stylus Studio, Stylized Design (Arrow/3D Box logo), Styleized Design (C Chef logo), Stylized Design of Samurai, TeamPulse, Telerik, Telerik (and design), Test Studio, WebSpeed, WhatsConfigured, WhatsConnected, WhatsUp, and WS_FTP are registered trademarks of Progress Software Corporation or one of its affiliates or subsidiaries in the U.S. and/or other countries.

Analytics360, AppServer, BusinessEdge, Chef Automate, Chef Compliance, Chef Desktop, Chef Habitat, Chef WorkStation, Corticon.js, Corticon Rules, Data Access, DataDirect Autonomous REST Connector, DataDirect Spy, DevCraft, Fiddler, Fiddler Everywhere, FiddlerCap, FiddlerCore, FiddlerScript, Hybrid Data Pipeline, iMail, JustAssembly, JustDecompile, JustMock, KendoReact, NativeScript Sidekick, OpenAccess, PASOE, Pro2, ProDataSet, Progress Results, Progress Software, ProVision, PSE Pro, Push Jobs, SafeSpaceVR, Sitefinity Cloud, Sitefinity CMS, Sitefinity Digital Experience Cloud, Sitefinity Feather, Sitefinity Insight, Sitefinity Thunder, SmartBrowser, SmartComponent, SmartDataBrowser, SmartDataObjects, SmartDataView, SmartDialog, SmartFolder, SmartFrame, SmartObjects, SmartPanel, SmartQuery, SmartViewer, SmartWindow, Supermarket, SupportLink, Unite UX, and WebClient are trademarks or service marks of Progress Software Corporation and/or its subsidiaries or affiliates in the U.S. and other countries. Java is a registered trademark of Oracle and/or its affiliates. Any other marks contained herein may be trademarks of their respective owners.

July 2021

Product version: Progress OpenEdge 12.4

Preface

Purpose

This book describes installation and configuration topics related to the Release 12.1 for the following operating systems:

- Windows 2019, Windows Server 2016 (Build Platform), Windows Server 2012 R2, Windows 10, and Windows 8.1

  Unless otherwise noted, platform references throughout this guide have been simplified for readability. In general Windows refers to all supported Windows 64-bit operating systems.

- UNIX and Linux

Unless otherwise noted, platform references throughout this guide have been simplified for readability. UNIX refers to UNIX and Linux.

Audience

Administrative and technical personnel responsible for installing and configuring OpenEdge.

Organization

Before You Install on page 9

Describes pre-installation planning tasks, explains where you can obtain details about sustem requirements and supported platforms, and provides platform-specific installation considerations.

Licensing on page 19

Explains how to obtain the OpenEdge product licenses you have purchased and enter them into the installation program.

Install OpenEdge on Windows on page 33

Explains how to install OpenEdge on Windows platforms.

Install OpenEdge on UNIX or Linux on page 63

Explains how to install OpenEdge on UNIX and Linux platforms.

Create a Silent Installation on page 81

Explains how to perform a silent installation of OpenEdge using a batch mechanism.

Uninstall OpenEdge on page 95

Explains how to uninstall and remove OpenEdge from an installation directory.

After You Install on page 99

Provides links to OpenEdge library content that explains how to get started using OpenEdge.

Run the Microsoft Windows Installer Package for Client Networking on page 101

Explains how to use the Windows Installer package to install OpenEdge Client Networking throughout your environment.

Manage Installation Configurations on page 109

Explains how to use the `configutil` utility to export the configuration of a source installation and import it to a different OpenEdge installation on the same or different machine.

Upgrade the JDK After Installation on page 119

Explains how to configure OpenEdge to use a more recent, or different, version of the Java SE Development Kit.

Documentation conventions

See Documentation Conventions for an explanation of the terminology, format, and typographical conventions used throughout the OpenEdge content library.

1

Before You Install

Before you install OpenEdge, Progress recommends a set of planning tasks. These tasks include understanding the system requirements for the environment in which you plan to install OpenEdge, identifying the set of OpenEdge products to install, determining the installation method and type to use, and obtaining an electronic License Addendum file. Depending on your specific requirements, there may be other tasks as well.

For details, see the following topics:

- System requirements and supported platforms
- Plan your installation

System requirements and supported platforms

Before you install OpenEdge on a single machine or network, make sure that your environment meets the hardware and software requirements described in the OpenEdge Platform and Product Availability Guide on the Progress Information Hub. Refer to that document for supported platform, certification, and compatibility information, including the following:

- System requirements
- Java certification and considerations
- Disk space requirements
- Server compatibility
- Supported OpenEdge clients

- General connectivity and compatibility rules
- Required third-party applications
- Deprecated and de-supported features and functionality

Note: A supported Java SE Development Kit (JDK) must be installed on your machine prior to running the OpenEdge installation program. The JDK is not included with the OpenEdge software. See Plan your installation on page 10 for more information.

Note: A supported `libnsl.so.1` library must be installed on your machine prior to running the OpenEdge installation program on the RHEL and CentOS systems. This library is required by some of the OpenEdge processes and libraries to run properly and is not included with the OpenEdge software. Hence, we recommend you to install the missing `libnsl` package as root with the following command:

Example - `yum install libnsl`

Plan your installation

Before you run the installation program, review the following topics to plan your OpenEdge installation:

Read the Release Notes

The OpenEdge Release Notes describes known issues and other late-breaking product details that might not be in the OpenEdge product documentation.

Install a supported JDK

A supported Java SE Development Kit (JDK) must be installed on your machine prior to running the OpenEdge installation program. The JDK is not included with the OpenEdge software. For details about JDK requirements on each supported platform, see the OpenEdge Platform and Product Availability Guide.

During the installation procedure, you are prompted for the location of the directory in which the JDK is installed.

Note: After you have installed OpenEdge, then any change you make to the location or version of the JDK on your machine requires you to reconfigure OpenEdge. For more information, see 'Upgrade the JDK After Installation' in *Install OpenEdge*.

Windows installation considerations

Before you launch the OpenEdge installation program on Windows, there are a number of factors regarding your target installation environment that affect the installation choices you need to make. These factors include:

- The specific location in which to install the OpenEdge software
- The location of the the working directories that contain your applications, databases, and log files, which must be separate from the OpenEdge installation directory
- The proper settings for the read-only `.dll` and `.ocx` files
- Required software that must be installed beforehand

OpenEdge installation and working directories

Throughout this document, *OpenEdge-install-dir* represents the directory into which the OpenEdge software is installed. The default OpenEdge installation directory is `C:\Progress\OpenEdge`. However, during installation, you can choose a different location.

A **working directory** is a directory that contains your OpenEdge database and application files. The installation program prompts you to create a working directory from which to run OpenEdge. The working directory must always be separate from the OpenEdge installation directory.

Caution: Never run OpenEdge products from the directory in which you installed them. If you do, you could damage the OpenEdge software files.

Read-only .dll and .ocx files

Before you install any OpenEdge products in Windows, check the directory `C:\Winnt\system32` or `C:\Windows\system32` to see whether any of the `.dll` or `.ocx` files have the read-only bit set. If any `.dll` or `.ocx` files in this directory are read-only, you must reset them before installing OpenEdge. If you try to install OpenEdge with one or more related `.dll` or `.ocx` files set to read-only, OpenEdge generates a dialog box informing you that you must reset the `.dll` bit or `.ocx` bit and reinstall OpenEdge.

Required software to run OpenEdge products or components

Some OpenEdge products and components depend on the presence of other software or software elements to run as designed. These elements might be required either before you perform an OpenEdge installation or concurrent with the OpenEdge install you perform.

The required software may include one or more of the following:

- Open Client Toolkit component—If you plan to install a product that contains ProxyGen, you might need to install and configure additional tools to allow the Open Client Proxy Generator (ProxyGen) to build proxies.

  For more information, see 'Open client toolkit' in *Use Open Client Toolkit*.

- OpenEdge SQL ODBC and JDBC Clients—The OpenEdge SQL ODBC and JDBC Clients are components of the OpenEdge Personal RDBMS, Workgroup RDBMS, and Enterprise RDBMS products. You can download them from Progress at http://www.progress.com/esd, using the OpenEdge SQL Client Access product.

Download the License Addendum file

When you launch the installation program, you are prompted enter product information about the OpenEdge license you have purchased from Progress. This information is captured in the **License Addendum file**, which contains the serial numbers and control codes for each of the OpenEdge products and components included in your license.

Your License Addendum file is accessible from the Progress Software Download Center. Before you run the installer, you must download this file, as explained in Obtain a License Addendum file on page 19.

When you run the installation program, you have two options for entering the license details contained in this file:

- Load the License Addendum file. **Recommended**.
- For each OpenEdge product that you want to install, enter the corresponding serial number and control code that is listed in the License Addendum file.

For more information, see Licensing on page 19.

Installation method choices

You can install OpenEdge release products using either of the following methods:

- **Online, interactive installation**—This method prompts you to make installation choices online and record your input in dialog boxes. The dialog boxes appear programmatically as determined by the products you identify to install and the type of install you choose to perform. After you complete the installation, the Setup Utility initializes your choices, enabling you to use the products after the installation.

  Note: Online help is provided with the installation program, and is accessible from **Help** or a specific Help control. The online help provides information and details the procedures required to complete each installation dialog box.

- **Silent installation**—A silent, or batch mode, installation does not prompt you to interactively enter your installation choices. A silent installation reads your installation values and settings as recorded in a response file. Using specific commands, you initiate your response file to run without user interaction. A silent installation supports either a complete or a custom installation.

Installation types

Your OpenEdge installation process depends on what products, components, and subcomponents you choose to install and the type of installation you plan to perform. The following table summarizes the installation options.

Table 1: Installation options

Installation option	Purpose
Complete	Automatically installs all mandatory, recommended, and optional components and subcomponents of the OpenEdge products you are installing.
Custom	Installs all mandatory product components and subcomponents, but allows you to selectively install the recommended and optional components and subcomponents on a product-by-product basis. This installation is recommended for more advanced users and provides the flexibility to distribute OpenEdge components on different machines, select product components to suit their business needs, and work around issues such as disk space limitations. **Note:** When customizing an installation, Progress recommends that you consider removing only optional components and subcomponents. Removing recommended products might negatively affect a product's functionality.

Note that some OpenEdge products that you install have additional installation dependencies, prompting you to perform additional set up or installation tasks as part of the OpenEdge installation process. The OpenEdge installation program automatically determines certain product dependencies and guides you through the completion of these tasks.

If you are performing a Windows installation, ensure that you install an appropriate version of Microsoft .NET Framework on the machine on which you are installing OpenEdge. Microsoft .NET Framework is required for smooth functioning of OpenEdge development products.

Note: Microsoft .NET Framework is not included with the OpenEdge software. For details about Microsoft .NET Framework versions and requirements, see the OpenEdge 12.3 Platform and Product Availablity Guide.

Share an OpenEdge installation on a Windows network

A network typically consists of the following hardware elements:

- **Application workstation**—A computer on your network that executes the OpenEdge client or single-user software. This allows one or more users to access the database server machine.
- **Database server machine**—The OpenEdge database server machine is a computer on your network that executes the OpenEdge server software. This software allows the database server machine to manage one or more OpenEdge databases.
- **Network file server machine**—The network file server is a computer that manages file sharing and system security, coordinates station-to-station communications, and controls any attached peripherals, such as printers, disk drives, and modems.

On Windows, you can provide multi-client access to a single copy of OpenEdge that is installed on a network-accessible drive (server). To initiate this shared installation type, you must choose to install the Shared Network Installation component, also known as NetSetup, during the installation process. Then, using the appropriate NetSetup deployment option, you can install NetSetup regardless of whether you are performing a complete or a custom installation.

Note:

Progress does not support installing one copy of the OpenEdge Application server products for multiple machines. Because there is only one set of configuration files, conflicts are likely to occur.

Custom installation bundles

You can install all the OpenEdge products using the OpenEdge cd image or specific products by creating a smaller OpenEdge cd image, or **installation bundle**, that you can use to install on the target system. The advantages of this installation bundle are that you can copy it to different locations to install the same set of products on multiple computers.

You can create the installation bundle that contains only the files required for the selected products using the OpenEdge custom installation bundle utility. When you run the installation program from the installation bundle that you created, only your selected OpenEdge products are installed.

Technical product content and sample applications

OpenEdge technical product content and sample applications are available for online access and downloading from the Progress Information Hub at https://docs.progress.com.

Note: To view the OpenEdge content library, simply navigate to https://docs.progress.com and choose the **Bookshelf** link.

Install a supported JDK

A supported Java SE Development Kit (JDK) must be installed on your machine prior to running the OpenEdge installation program. The JDK is not included with the OpenEdge software. For details about JDK requirements on each supported platform, see the OpenEdge Platform and Product Availability Guide.

During the installation procedure, you are prompted for the location of the directory in which the JDK is installed.

Note: After you have installed OpenEdge, then any change you make to the location or version of the JDK on your machine requires you to reconfigure OpenEdge. See Upgrade the JDK After Installation on page 119 for more information.

Windows installation considerations

Before you launch the OpenEdge installation program on Windows, there are a number of factors regarding your target installation environment that affect the installation choices you need to make. These factors include:

- The specific location in which to install the OpenEdge software
- The location of the the working directories that contain your applications, databases, and log files, which must be separate from the OpenEdge installation directory
- The proper settings for the read-only `.dll` and `.ocx` files
- Required software that must be installed beforehand

OpenEdge installation and working directories

Throughout this document, *`OpenEdge-install-dir`* represents the directory into which the OpenEdge software is installed. The default OpenEdge installation directory is `C:\Progress\OpenEdge`. However, during installation, you can choose a different location.

A **working directory** is a directory that contains your OpenEdge database and application files. The installation program prompts you to create a working directory from which to run OpenEdge. The working directory must always be separate from the OpenEdge installation directory.

Caution: Never run OpenEdge products from the directory in which you installed them. If you do, you could damage the OpenEdge software files.

Read-only .dll and .ocx files

Before you install any OpenEdge products in Windows, check the directory `C:\Winnt\system32` or `C:\Windows\system32` to see whether any of the `.dll` or `.ocx` files have the read-only bit set. If any `.dll` or `.ocx` files in this directory are read-only, you must reset them before installing OpenEdge. If you try to install OpenEdge with one or more related `.dll` or `.ocx` files set to read-only, OpenEdge generates a dialog box informing you that you must reset the `.dll` bit or `.ocx` bit and reinstall OpenEdge.

Required software to run OpenEdge products or components

Some OpenEdge products and components depend on the presence of other software or software elements to run as designed. These elements might be required either before you perform an OpenEdge installation or concurrent with the OpenEdge install you perform.

The required software may include one or more of the following:

- Open Client Toolkit
- OpenEdge SQL ODBC and JDBC clients

Open Client Toolkit component

If you plan to install a product that contains ProxyGen, you might need to install and configure additional tools to allow the Open Client Proxy Generator (ProxyGen) to build proxies.

For more information, see 'Open client toolkit' in *Use Open Client Toolkit*.

OpenEdge SQL ODBC and JDBC Clients

The OpenEdge SQL ODBC and JDBC Clients are components of the OpenEdge Personal RDBMS, Workgroup RDBMS, and Enterprise RDBMS products. You can download them from Progress at http://www.progress.com/esd, using the OpenEdge SQL Client Access product.

Download the License Addendum file

When you launch the installation program, you are prompted enter product information about the OpenEdge license you have purchased from Progress. This information is captured in the **License Addendum file**, which contains the serial numbers and control codes for each of the OpenEdge products and components included in your license.

Your License Addendum file is accessible from the Progress Software Download Center. Before you run the installer, you must download this file, as explained in Obtain a License Addendum file on page 19.

When you run the installation program, you have two options for entering the license details contained in this file:

- Load the License Addendum file. **Recommended**.
- For each OpenEdge product that you want to install, enter the corresponding serial number and control code that is listed in the License Addendum file.

For more information, see Licensing on page 19.

Installation method choices

You can install OpenEdge release products using either of the following methods:

- **Online, interactive installation**—This method prompts you to make installation choices online and record your input in dialog boxes. The dialog boxes appear programmatically as determined by the products you identify to install and the type of install you choose to perform. After you complete the installation, the Setup Utility initializes your choices, enabling you to use the products after the installation.

  Note: Online help is provided with the installation program, and is accessible from **Help** or a specific Help control. The online help provides information and details the procedures required to complete each installation dialog box.

- **Silent installation**—A silent, or batch mode, installation does not prompt you to interactively enter your installation choices. A silent installation reads your installation values and settings as recorded in a response file. Using specific commands, you initiate your response file to run without user interaction. A silent installation supports either a complete or a custom installation.

Installation types

Your OpenEdge installation process depends on what products, components, and subcomponents you choose to install and the type of installation you plan to perform. The following table summarizes the installation options.

Table 2: Installation options

Installation option	Purpose
Complete	Automatically installs all mandatory, recommended, and optional components and subcomponents of the OpenEdge products you are installing.
Custom	Installs all mandatory product components and subcomponents, but allows you to selectively install the recommended and optional components and subcomponents on a product-by-product basis. This installation is recommended for more advanced users and provides the flexibility to distribute OpenEdge components on different machines, select product components to suit their business needs, and work around issues such as disk space limitations. **Note:** When customizing an installation, Progress recommends that you consider removing only optional components and subcomponents. Removing recommended products might negatively affect a product's functionality.

Note that some OpenEdge products that you install have additional installation dependencies, prompting you to perform additional set up or installation tasks as part of the OpenEdge installation process. The OpenEdge installation program automatically determines certain product dependencies and guides you through the completion of these tasks.

If you are performing a Windows installation, ensure that you install an appropriate version of Microsoft .NET Framework on the machine on which you are installing OpenEdge. Microsoft .NET Framework is required for smooth functioning of OpenEdge development products.

Note: Microsoft .NET Framework is not included with the OpenEdge software. For details about Microsoft .NET Framework versions and requirements, see the OpenEdge 12 Platform and Product Availablity Guide.

Share an OpenEdge installation on a Windows network

A network typically consists of the following hardware elements:

- **Application workstation**—A computer on your network that executes the OpenEdge client or single-user software. This allows one or more users to access the database server machine.
- **Database server machine**—The OpenEdge database server machine is a computer on your network that executes the OpenEdge server software. This software allows the database server machine to manage one or more OpenEdge databases.
- **Network file server machine**—The network file server is a computer that manages file sharing and system security, coordinates station-to-station communications, and controls any attached peripherals, such as printers, disk drives, and modems.

On Windows, you can provide multi-client access to a single copy of OpenEdge that is installed on a network-accessible drive (server). To initiate this shared installation type, you must choose to install the Shared Network Installation component, also known as NetSetup, during the installation process. Then, using the appropriate NetSetup deployment option, you can install NetSetup regardless of whether you are performing a complete or a custom installation.

Note:

Progress does not support installing one copy of the OpenEdge Application server products for multiple machines. Because there is only one set of configuration files, conflicts are likely to occur.

Custom installation bundles

You can install all the OpenEdge products using the OpenEdge cd image or specific products by creating a smaller OpenEdge cd image, or **installation bundle**, that you can use to install on the target system. The advantages of this installation bundle are that you can copy it to different locations to install the same set of products on multiple computers.

You can create the installation bundle that contains only the files required for the selected products using the OpenEdge custom installation bundle utility. When you run the installation program from the installation bundle that you created, only your selected OpenEdge products are installed.

Technical product content and sample applications

OpenEdge technical product content and sample applications are available for online access and downloading from the Progress Information Hub at https://docs.progress.com.

Note: To view the OpenEdge content library, simply navigate to https://docs.progress.com and choose the **Bookshelf** link.

2

Licensing

When you install OpenEdge, you are prompted to load the **License Addendum file** file for the OpenEdge license you purchased from Progress. This file contains the serial numbers and control codes for each of the OpenEdge products and components included in your license. Your License Addendum file is accessible from the Progress Software Download Center.

Alternatively during installation, you can manually enter the serial number and control code for each product listed in your License Addendum file. However, loading the file itself is the recommended method.

When you run the installation program, the installer records your license information in the OpenEdge configuration file, `progress.cfg`, which is located in the OpenEdge installation directory.

For details, see the following topics:

- Obtain a License Addendum file
- Add licenses to an existing installation
- Update existing product licenses
- Display license information
- Manage user licenses on all supported platforms
- Remove a license for an installed product

Obtain a License Addendum file

To download your License Addendum file:

1. Access the Progress Software Download Center at http://www.progress.com/esd and log in.

   Note: You must be a registered user to download the License Addendum file. Follow the links to create a user account, or retrieve a forgotten password if necessary. Contact `CustomerService@progress.com` for additional assistance.

2. Navigate to the License Addendum page for your OpenEdge release and platform:
   a) On the **SOFTWARE : PRODUCT LIST** page, select the product for which you are obtaining a License Addendum file, for example Progress® OpenEdge®. This brings you to the **SOFTWARE : PRODUCT INFORMATION** page.
   b) On the **SOFTWARE : PRODUCT INFORMATION** page listing a suite of products, choose the release name. This brings you to the page where you select the specific release version to download.
   c) Choose the product release you want to download. This brings you to the **SOFTWARE TERMS AND CONDITIONS** page.
   d) Click **Accept** to accept the PSC End User License Agreement. This brings you to the **SOFTWARE PRODUCT DOWNLOAD** page.
3. On the **SOFTWARE PRODUCT DOWNLOAD** page, click the **License** tab.
4. Position your cursor over the License Addendum area. Save the License Addendum by right-clicking the mouse and choosing **Save as...** (or **Save Page As**) from the pop-up menu and changing the **Save as type** to **Webpage, Complete HTML**.
5. If you are saving multiple License Addendum files for future electronic installations, be sure to give each an unique name.

   Note: If you require assistance using the Download Center, you can use the Download Center help.

   Caution: Do not edit the License Addendum file. Opening the License Addendum file with software such as Microsoft Word can change the format of the file, making it unreadable by the installation process.

   After you save the License Addendum file locally, you can access it from the **Serial Numbers and Control Codes** dialog box during installation.

Add licenses to an existing installation

If you purchase additional licenses for products for an existing installation, you can re-run the installation program to install those additional products. When you re-run the installation program, you do the following:

1. In the **Serial Number and Control Codes** dialog box, enter the License Addendum file for the additional licenses you purchased.
2. Select the products corresponding to the additional licenses you purchased, and proceed with the installation.

Note the following:

- When you download the installation media for the additional products you have purchased, make sure you download and extract the contents of the installation media to a temporary directory that is outside of your existing OpenEdge installation directory, *`OpenEdge-install-dir`*.
- Prior to running the installation program:

1. Stop any running OpenEdge processes, and close all other applications.
2. As a precaution, make a backup copy of your existing *OpenEdge-install-dir*`/properties` directory.

- Run the installation program (`setup.exe` for Windows, and `proinst` for UNIX and Linux) from the temporary directory in which you downloaded the installation media. Never run the installation program from the OpenEdge installation directory.

Add OpenEdge products to a Windows installation

To add OpenEdge products to an existing OpenEdge installation on Windows machines, complete the following steps:

1. Download the License Addendum file for the additional products you have purchased, as described in Obtain a License Addendum file on page 19.
2. Launch the installation program as described in Launch the Windows interactive installer on page 34.

   If there is an existing installation of the same OpenEdge version, the installer automatically detects the installation and displays a warning dialog box with the following message:

```
The installation has detected that there exists a previous installation of
OpenEdge
in the following directory:

C:\Program Files\installation-path

The installation can only install additional products(s) to the above
directory.

Would you like to continue?
```

3. Choose **Yes** to continue with the installation. The **Welcome** dialog box appears.
4. Choose **Next** to continue. The **Serial and Control Codes** dialog box is displayed.
5. Load the License Addendum file for the additional licenses you have purchased and choose **Accept** for each product that you want to add.

The installation program adds the new product licenses to the OpenEdge installation directories automatically. After the installation completes, the `progress.cfg` configuration file is updated with the new licenses.

Add OpenEdge products to a UNIX or Linux installation

To add OpenEdge products to an existing OpenEdge installation on a UNIX or Linux machine, complete the following steps:

1. Download the License Addendum file for the additional products you have purchased, as described in Obtain a License Addendum file on page 19.
2. Launch the installation program as described in Launch the UNIX interactive installer on page 64.
3. When the **Product Configuration Data** dialog box is displayed, enter the License Addendum file, then enter `Done`. The **Install Type and Destination** dialog box is displayed.
4. Choose **Select Destination Pathname** and enter the full path of the existing OpenEdge installation directory. The **Destination Pathname Exists** dialog box is displayed.
5. Choose **Install the Progress products in the pre-existing destination path**, press ENTER, and continue with the installation.

The installation program adds the new OpenEdge product licenses to the installation directories automatically. After the installation completes, the `progress.cfg` configuration file is automatically updated with the new products.

Update existing product licenses

You can use the License Update utility to review your product licenses and, as needed, make the following changes:

- Change the number of licensed users
- Update the licenses that you obtained through either the product evaluation process or PSDN subscription renewal process
- Update the expired OpenEdge licenses
- Update the license keys for the R2R bit products

Note: The R2R bit products include:

- OpenEdge CDC for Enterprise
- OpenEdge CDC for Workgroup
- OpenEdge Pro2 CDC Workgroup
- OpenEdge Pro2 CDC Enterprise
- OpenEdge Multi-Tenant Tables
- OpenEdge TDE
- OpenEdge Table Partitioning

You need to restart the database services once you update the OpenEdge licenses.

Note: The License Update utility is sometimes also called the Product Update utility.

Contact your Progress sales representative for a new License Addendum if you need to use this utility.

Note: For information about installing OpenEdge components using the License Addendum file, refer to Select your OpenEdge installation choices on page 35 for installing in Windows, and Select your installation choices on page 65 for installing on UNIX or Linux.

To use the License Update utility to update your license in Windows, complete the following steps:

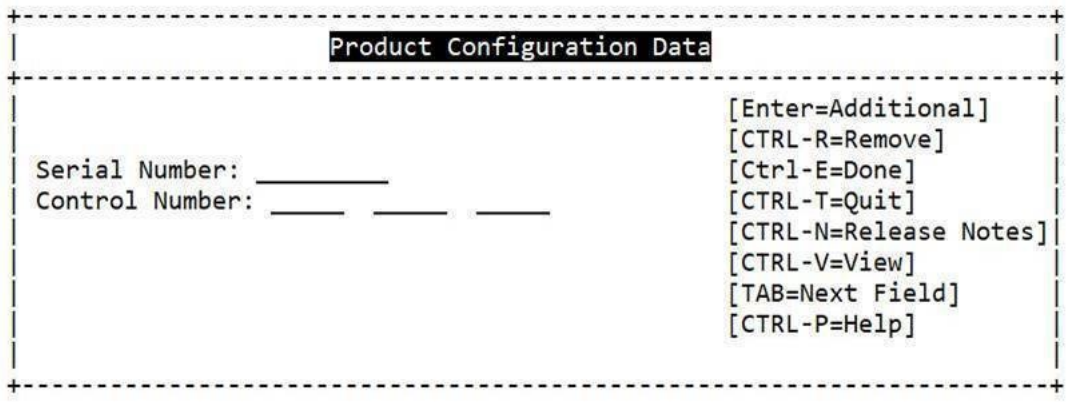
1. Use the Show Configuration utility (`SHOWCFG`) to display the product license information for each OpenEdge product currently installed on your system, as described in Display license information on page 24.
2. Choose **License Update** from your OpenEdge group. The **Welcome** screen appears. Click **Next**.
3. In the **Serial & Control Numbers** dialog box, enter the serial number and the new control numbers that Progress supplies when you upgrade your license. Click **Accept**.
4. The **Product(s) Updated** dialog box displays the product(s) you want to update. When you are finished updating the products, click **Done**.

To update your license on UNIX or Linux. complete the following steps:

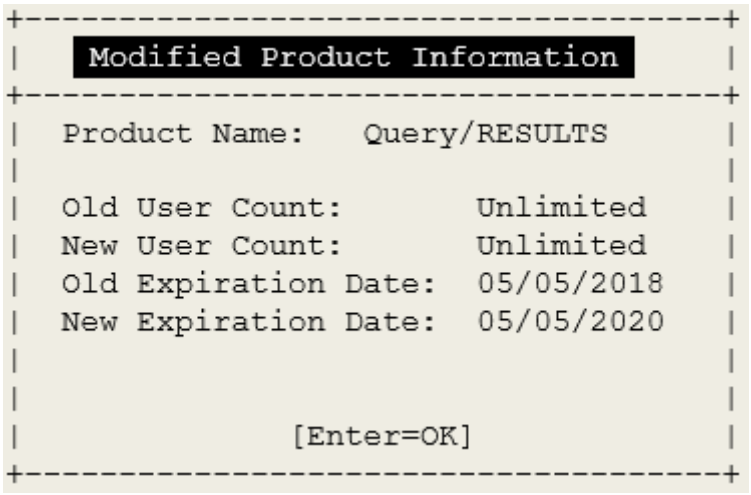
1. Use the SHOWCFG utility to display the product configuration information stored in the OpenEdge Release configuration file `progress.cfg`, as described in Display license information on page 24.
2. Change your current working directory to the directory where you installed OpenEdge.

   ```
   cd <OpenEdge-install-dir>
   ```

3. At the system prompt, enter the `proupdt` command and press RETURN.
4. When the **Welcome** dialog box appears, press RETURN. The **Product Configuration Data** dialog box appears:



5. Enter the serial number, and the new control numbers Progress supplies when you upgrade your license.
6. Press ENTER. The **Modified Product Information** dialog box appears:



7. Press ENTER again to return to the **Product Configuration Data** dialog box.
8. Press CTRL+E to finish.

Note: You cannot press CTRL+E from the **Serial Number** field.

Display license information

The OpenEdge installation program prompts you to enter product information contained in your License Addendum file. During the installation process, the installation program records the license information in the OpenEdge configuration file, `progress.cfg`, which is located in the OpenEdge installation directory. You can use the SHOWCFG utility to display licensing information, product installation, and configuration details about each OpenEdge product that is installed.

Use the SHOWCFG utility on Windows

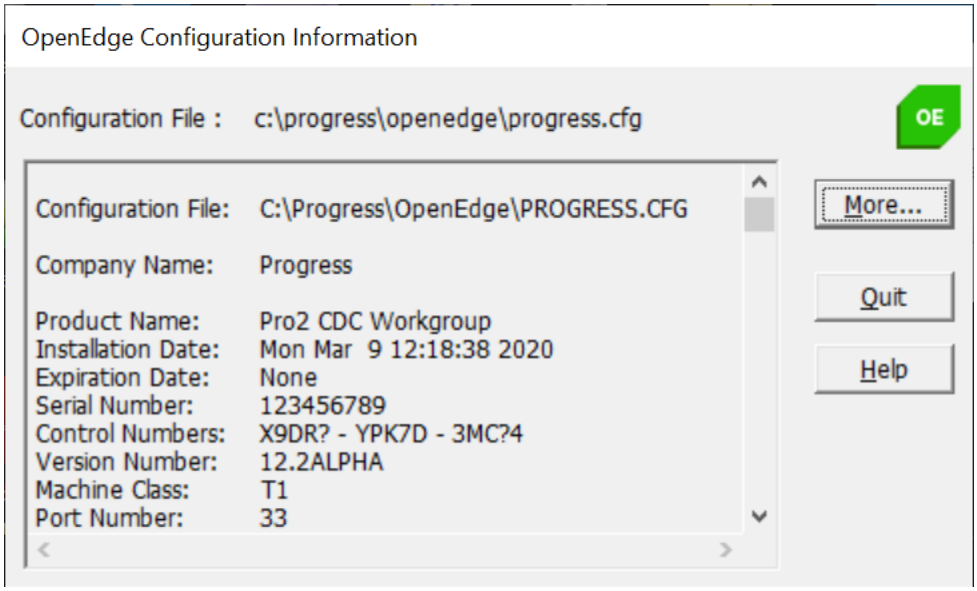
The SHOWCFG utility displays product installation and configuration information for each OpenEdge product installed on your system. The following table describes the different ways to run the SHOWCFG utility.

Table 3: Running the SHOWCFG utility

To run the SHOWCFG utility from the ...	Then ...
Start menu	Choose **Progress** > **License Info**
Command line of the **Proenv** window	Enter the `showcfg` command

The SHOWCFG utility opens the **OpenEdge Configuration Information** dialog box to display the product configuration information stored in the OpenEdge configuration file `progress.cfg`. This file is created and modified during product installation.

The following figure shows an example of the **OpenEdge Configuration Information** dialog box.



The following table summarizes the information that SHOWCFG displays.

Table 4: Display fields associated with the SHOWCFG utility

This display field ...	Identifies the ...
Product Name	Name of the installed product
Installation Date	Date the product was installed
Expiration Date	Date the license expires
Serial Number	Number associated with the license agreement
Control Numbers	Numbers used by the OpenEdge installation software
Version Number	Software product version
Machine Class	Tier code associated with the license agreement
Port Number	Platform on which the software product is installed

Use the SHOWCFG utility on UNIX or Linux

The SHOWCFG utility has the following syntax:

```
<OpenEdge-install-dir>/bin/showcfg <OpenEdge-install-dir>/progress.cfg
```

For example:

```
/userdir/smith/101b/bin/showcfg /userdir/smith/101b/progress.cfg
```

The SHOWCFG utility displays the product configuration information stored in the OpenEdge configuration file `progress.cfg`, which is created and modified during product installation.

The following figure shows an example:

Figure 1: Product configuration details display using SHOWCFG utility

```
 Configuration File:  progress.cfg

       Company Name:  PSC

       Product Name:  OE Auth Gateway
  Installation Date:  Tue Aug  6 12:57:23 2019
    Expiration Date:  None
      Serial Number:  123456789
    Control Numbers:  Z?DS9 - 7PS7D - 34C?8
     Version Number:  12.2ALPHA
      Machine Class:  T1
        Port Number:  43


       Product Name:  OE Adap Sonic ESB
  Installation Date:  Tue Aug  6 12:57:23 2019
    Expiration Date:  None
      Serial Number:  123456789
    Control Numbers:  Z8FS9 - 7PS7N - JMC?8
     Version Number:  12.2ALPHA
      Machine Class:  T1
        Port Number:  43
```

Use the SHOWCFG utility on Windows

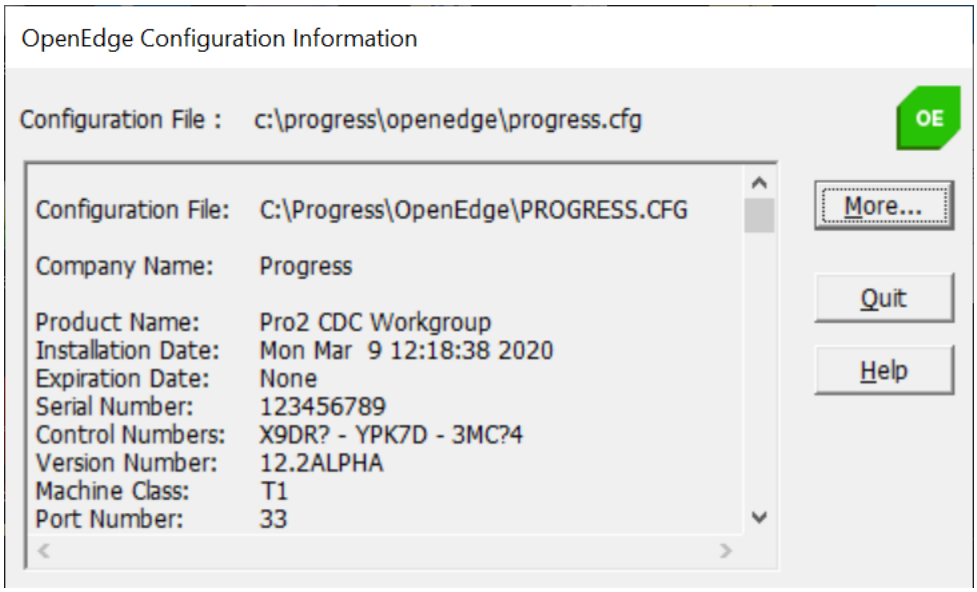
The SHOWCFG utility displays product installation and configuration information for each OpenEdge product installed on your system. The following table describes the different ways to run the SHOWCFG utility.

Table 5: Running the SHOWCFG utility

To run the SHOWCFG utility from the ...	Then ...
Start menu	Choose **Progress** > **License Info**
Command line of the **Proenv** window	Enter the `showcfg` command

The SHOWCFG utility opens the **OpenEdge Configuration Information** dialog box to display the product configuration information stored in the OpenEdge configuration file `progress.cfg`. This file is created and modified during product installation.

The following figure shows an example of the **OpenEdge Configuration Information** dialog box.



The following table summarizes the information that SHOWCFG displays.

Table 6: Display fields associated with the SHOWCFG utility

This display field ...	Identifies the ...
Product Name	Name of the installed product
Installation Date	Date the product was installed
Expiration Date	Date the license expires
Serial Number	Number associated with the license agreement
Control Numbers	Numbers used by the OpenEdge installation software
Version Number	Software product version
Machine Class	Tier code associated with the license agreement
Port Number	Platform on which the software product is installed

Use the SHOWCFG utility on UNIX or Linux

The SHOWCFG utility has the following syntax:

```
<OpenEdge-install-dir>/bin/showcfg <OpenEdge-install-dir>/progress.cfg
```

For example:

```
/userdir/smith/101b/bin/showcfg /userdir/smith/101b/progress.cfg
```

The SHOWCFG utility displays the product configuration information stored in the OpenEdge configuration file `progress.cfg`, which is created and modified during product installation.

The following figure shows an example:

Figure 2: Product configuration details display using SHOWCFG utility

```
Configuration File:  progress.cfg

      Company Name:  PSC

      Product Name:  OE Auth Gateway
 Installation Date:  Tue Aug  6 12:57:23 2019
   Expiration Date:  None
     Serial Number:  123456789
   Control Numbers:  Z?DS9 - 7PS7D - 34C?8
    Version Number:  12.2ALPHA
     Machine Class:  T1
       Port Number:  43


      Product Name:  OE Adap Sonic ESB
 Installation Date:  Tue Aug  6 12:57:23 2019
   Expiration Date:  None
     Serial Number:  123456789
   Control Numbers:  Z8FS9 - 7PS7N - JMC?8
    Version Number:  12.2ALPHA
     Machine Class:  T1
       Port Number:  43
```

Manage user licenses on all supported platforms

The OpenEdge license you purchase determines how many units are allowed to run your OpenEdge products. You are responsible for making sure users comply with your license agreement. OpenEdge provides reporting capabilities to help you ensure compliance with your license agreement.

About the OpenEdge database license file

OpenEdge also creates a separate license file that records license-related information about OpenEdge database users. If the log file does not already exist, the broker creates it and places it in the same directory as the database (`.db`) file. The broker creates the file in the format *`databasename`*`.lic`, where *`databasename`* is the name of the database to which the user connects.

Note: If OpenEdge encounters an error while trying to open or write to the database license file, the error is recorded in the database `.lg` file and no more entries are written to the license (`.lic`) file.

Read the database license file

Use a text editor to display the license file contents. The contents appear in the following order:

1. Current date
2. Current time
3. Number of licensed users specified by the configuration file (if -1, unlimited number of users are licensed)
4. Current number of total connections
5. Maximum number of total connections
6. Minimum number of total connections
7. Current number of interactive connections
8. Maximum number of interactive connections for the past hour
9. Minimum number of interactive connections for the past hour
10. Current number of batch connections
11. Maximum number of batch connections for the past hour
12. Minimum number of batch connections for the past hour

For example, the following sample file entry illustrates the log format:

```
4/26/08 9:00 25 18 23 11 17 20 11 1 5 0
```

When OpenEdge writes to the license file, the maximum and minimum values are reset for the next hour.

Maintain the database license file

The database or system administrator should consider archiving database license files periodically. In one year, a license file accumulates 8,760 entries. These entries occupy about 440,000 bytes of disk space.

Since the license file must be closed before the administrator archives it, the administrator must first shut down the database. At that point, the license file can be either archived immediately or renamed and archived later.

Create a usage report

To produce a report of database license-related information about current OpenEdge database users, run the `licrpt.p` procedure file. The report generator input data appears:

```
Enter Date Range:      To:        Enter Start Time (hours 0 to 23):
Enter Stop Time (hours 0 to 24):
Enter time division (in hours, or 0 for complete range):
Database Name:
```

This is a sample output from the `licrpt.p` procedure file:

```
                        Database Connection Counts
-------------------------------------------------------------------------
| Date   Period  LcnUsers MaxTot Excptns MinTot AveTot MaxBat MinBat AvBat
|
|------- ------- -------- ------ ------- ------ ------ ------ ------ -----
|
| 4/11/06 8-17      100     20       0      0    10.      0      0     0.
|
| 4/13/06 8-17      100     20       0     18    19.      0      0     0.
|
| 4/16/06 8-17      100     23       0     17    20.      0      0     0.
|
| 4/20/06 8-17      100     33       0     17    25.      0      0     0.
|
| 4/24/06 8-17      100     32       0     26    29.      0      0     0.
|
| 4/26/06 8-17      100     26       0     17    22.      0      0     0.
```

Use the OpenEdge database license file

OpenEdge also creates a separate license file that records license-related information about OpenEdge database users. If the log file does not already exist, the broker creates it and places it in the same directory as the database (`.db`) file. The broker creates the file in the format *`databasename`*`.lic`, where *`databasename`* is the name of the database to which the user connects.

Note: If OpenEdge encounters an error while trying to open or write to the database license file, the error is recorded in the database `.lg` file and no more entries are written to the license (`.lic`) file.

Read the database license file

Use a text editor to display the license file contents. The contents appear in the following order:

1. Current date
2. Current time
3. Number of licensed users specified by the configuration file (if -1, unlimited number of users are licensed)
4. Current number of total connections
5. Maximum number of total connections
6. Minimum number of total connections
7. Current number of interactive connections
8. Maximum number of interactive connections for the past hour
9. Minimum number of interactive connections for the past hour
10. Current number of batch connections
11. Maximum number of batch connections for the past hour
12. Minimum number of batch connections for the past hour

For example, the following sample file entry illustrates the log format:

```
4/26/08 9:00 25 18 23 11 17 20 11 1 5 0
```

When OpenEdge writes to the license file, the maximum and minimum values are reset for the next hour.

Maintain the database license file

The database or system administrator should consider archiving database license files periodically. In one year, a license file accumulates 8,760 entries. These entries occupy about 440,000 bytes of disk space.

Since the license file must be closed before the administrator archives it, the administrator must first shut down the database. At that point, the license file can be either archived immediately or renamed and archived later.

Create a usage report

To produce a report of database license-related information about current OpenEdge database users, run the `licrpt.p` procedure file. The report generator input data appears:

```
Enter Date Range:      To:        Enter Start Time (hours 0 to 23):
Enter Stop Time (hours 0 to 24):
Enter time division (in hours, or 0 for complete range):
Database Name:
```

This is a sample output from the `licrpt.p` procedure file:

```
                         Database Connection Counts
-------------------------------------------------------------------------
| Date   Period  LcnUsers MaxTot Excptns MinTot AveTot MaxBat MinBat AvBat
|
|------- ------- -------- ------ ------- ------ ------ ------ ------ -----
|
| 4/11/06 8-17      100     20       0      0    10.      0      0     0.
|
| 4/13/06 8-17      100     20       0     18    19.      0      0     0.
|
| 4/16/06 8-17      100     23       0     17    20.      0      0     0.
|
| 4/20/06 8-17      100     33       0     17    25.      0      0     0.
|
| 4/24/06 8-17      100     32       0     26    29.      0      0     0.
|
| 4/26/06 8-17      100     26       0     17    22.      0      0     0.
```

Remove a license for an installed product

You can remove licenses for installed products. Removing individual licenses allows you to distribute parts of your product installation to another system without uninstalling the entire product.

Removing a license on Windows

To remove a license:

1. Choose **Start** > **Progress** > **License Update**. The installation program starts and the **Welcome** dialog box is displayed.
2. Click **Next**. The **Serial Number and Control Codes** dialog box appears.
3. Select the license to remove from **Product(s) List**, and click **Remove** to remove the license.

Removing a license on UNIX or Linux

To remove a license:

1. Enter the following command in a command window:

```
./path/proupdt
```

Note: *path* refers to the directory (`dlc`) in which you have installed OpenEdge. You cannot run `proupdt` if the current directory is either the one in which you have downloaded the software image or the one in which OpenEdge is installed.

2. Press `Enter`.The **Welcome** dialog box appears.
3. Press `Enter`.The **Product configuration data** dialog box appears.
4. In the **Product configuration data** dialog box, press `CTRL+R` to display the **Installed Product List** dialog box. In the **Installed Product List**, Press the `UP` and `DOWN` arrows to traverse through the installed products.
5. In the **Installed Product List** dialog box, press `ENTER` to select the products for which you want to remove the licenses. An asterisk is displayed next to the selected products.
6. Traverse to the end of the **Installed Product List** and select **Remove Selected License (s)**. The **License Removal Confirmation** dialog box appears.
7. In the **License Removal Confirmation** dialog box, type `Y` to confirm the removal of the selected licenses, or `N` to terminate the process.

3

Install OpenEdge on Windows

To install OpenEdge on Windows platforms, download the OpenEdge software image from the Progress Software Download Center and launch the interactive installation program. The software download is provided in a zip archive from which you need to extract its contents into an appropriate location on your machine.

Share an OpenEdge installation on a network on page 49 explains how you can use NetSetup to create a network-shared installation. Create a custom installation bundle for Windows machines on page 54 explains how to install a specific set of OpenEdge products uniformly throughout multiple machines on your network.

Note that during installation, you can optionally capture a response file. You can can use the response file to create a silent installation script, which automates the installation of OpenEdge products across a network.

For details, see the following topics:

- Launch the Windows interactive installer
- Select your OpenEdge installation choices
- Complete the installation
- Share an OpenEdge installation on a network
- Create a custom installation bundle for Windows machines
- Install additional products later
- Add components to an existing OpenEdge installation

Launch the Windows interactive installer

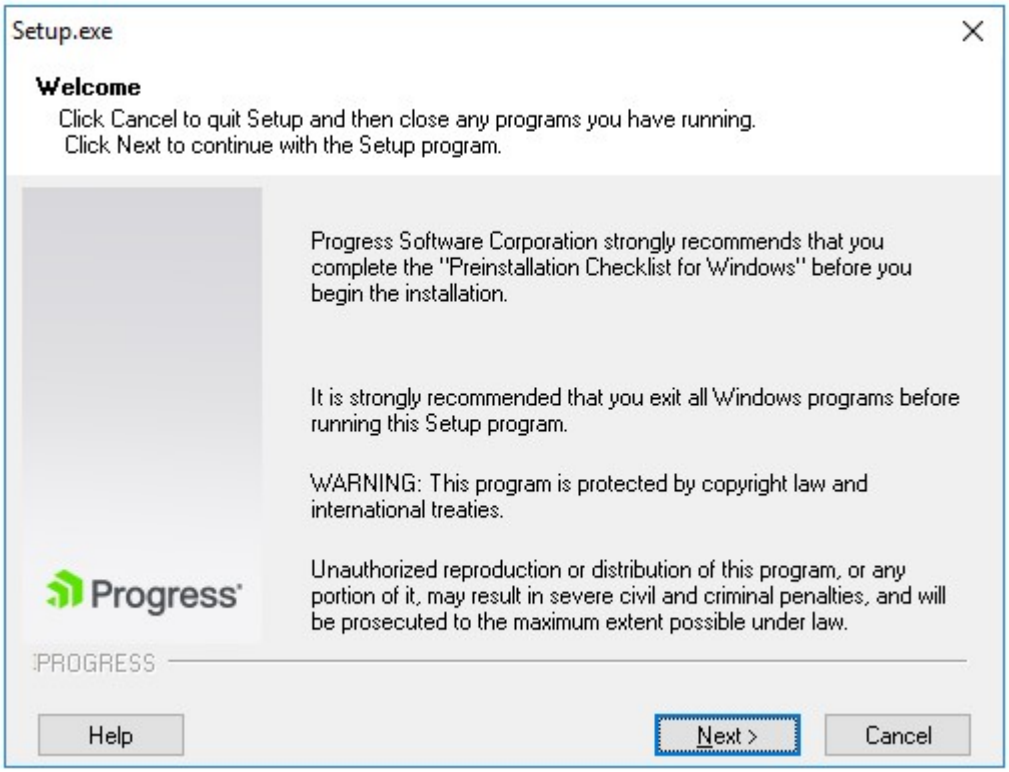
To launch the installer, you must have administrator privileges on the machine where you are installing OpenEdge. For more information, see your Windows documentation.

To initiate the Installation Program to install OpenEdge products, complete the following steps:

1. Close all other applications before beginning the installation process.

   Other applications or tasks might interfere with the installation or use files that OpenEdge needs to complete the installation. Shut down any processes where the executable itself is located in, or a file used by the executable is located in, the directory where you intend to install OpenEdge.

2. Double-click the `setup.exe` file.
3. Read the information in the **Welcome** dialog box, verify that all the other applications are closed, and click **Next**.



After you launch the Installation Program, you are ready to perform the online tasks required to install OpenEdge.

Refer to the online installation help system that contains a help topic for each installation dialog box. To access the online help while you are running the Installation Program:

- Choose **Help** in any installation dialog box. The help topic associated with the dialog box appears and describes the step-by-step procedure required to complete the dialog box.
- Choose help topics that display in the help system's Table of Contents. Note that the help viewer in which you can read an individual help topic also displays the help system's Table of Contents in the left pane. Use the Table of Contents to navigate through all the online installation-related help topics. To display the Table of Contents, click **Show** on the Navigator bar.

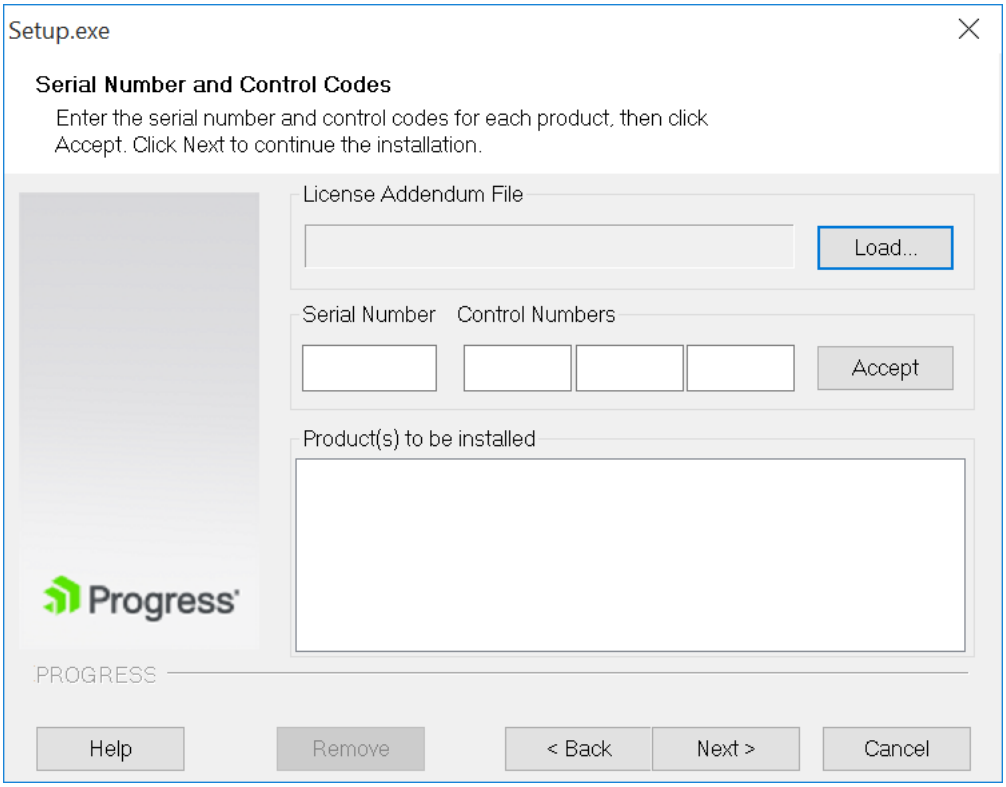
Select your OpenEdge installation choices

After you have launched the OpenEdge installer on a Windows machine, the installation program displays a series of dialog boxes for selecting the products and options you want for the OpenEdge products you have licensed.

To specify your installation choices, complete the following steps:

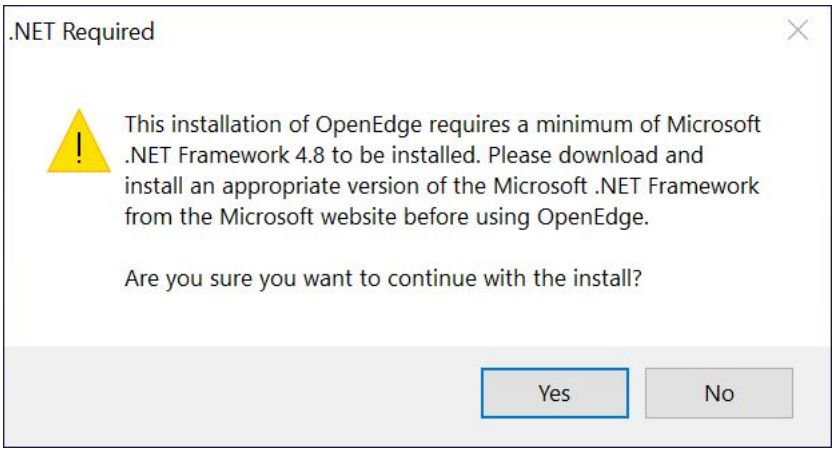
1. In the **Serial Number and Control Codes** dialog box, load your License Addendum file, which contains the serial numbers and control codes for the OpenEdge license you purchased. A License Addendum file eases the installation process by reading your serial number and control code information from the file, rather than being manually entered.

   Alternatively, you can enter the serial number and control number for each OpenEdge products that you are licensed to install. These numbers are listed in the License Addendum file. If you use this method, choose **Accept** after each serial number and control number pair you enter. Once you have made your choice, click **Next**.

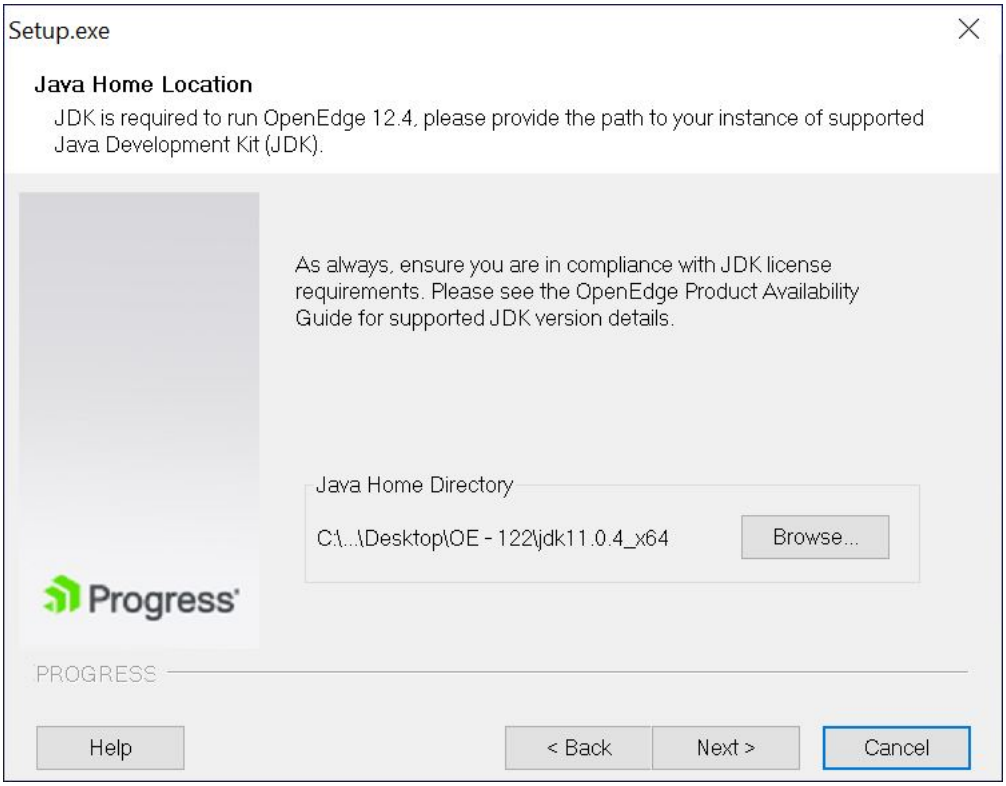


2. In the **.NET required** warning box, choose if you want to continue the OpenEdge installation or install Microsoft .NET Framework from the Microsoft website. Please note that OpenEdge will be installed even if you dont have a Microsoft .NET Framework on your machine. However, OpenEdge development components will not function till you download an appropriate version of Microsoft .NET Framework.

   For details about Microsoft .NET Framework versions and requirements, see the OpenEdge 12 Platform and Product Availablity Guide.



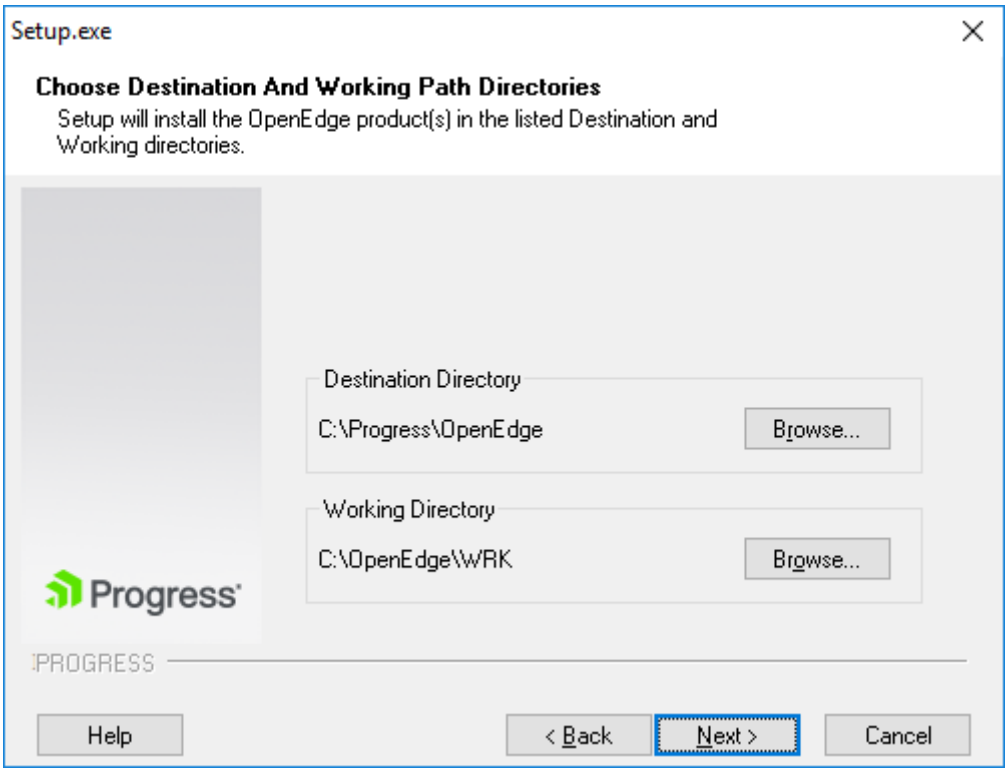
3. In the **Java Home Location** dialog box, browse to the location on the computer where JDK is installed to specify the Java Home Directory. If your computer already has JAVA_HOME set as a system or user variable, then the Java Home Directory is auto-populated. Ensure that you have the correct JDK version installed. Otherwise, an error message is displayed, and you cannot proceed with the installation. For details about JDK requirements on each supported platform, see the OpenEdge Platform and Product Availability Guide.Click **Next** to continue.



4. In the **Choose Destination and Working Path Directories** dialog box, specify the paths for the OpenEdge installation and working directories. Click **Next**.

   The **working directory** contains your OpenEdge database and application files, and is the directory from which to run OpenEdge. The working directory must always be separate from the OpenEdge installation directory.

Caution: Never run OpenEdge products from the directory in which you installed them. If you do, you could damage the OpenEdge software files.

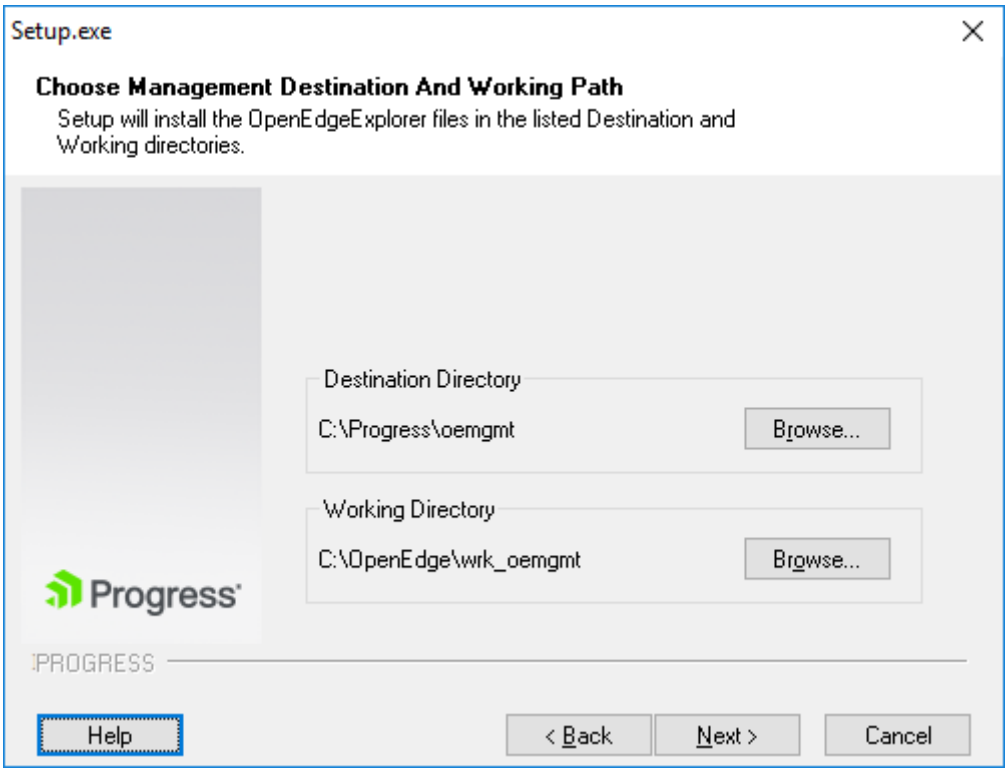


5. If you have a license for OpenEdge Management, the **Choose Management Destination And Working Path** dialog box is displayed. Identify the destination and working directories for OpenEdge Management as follows:

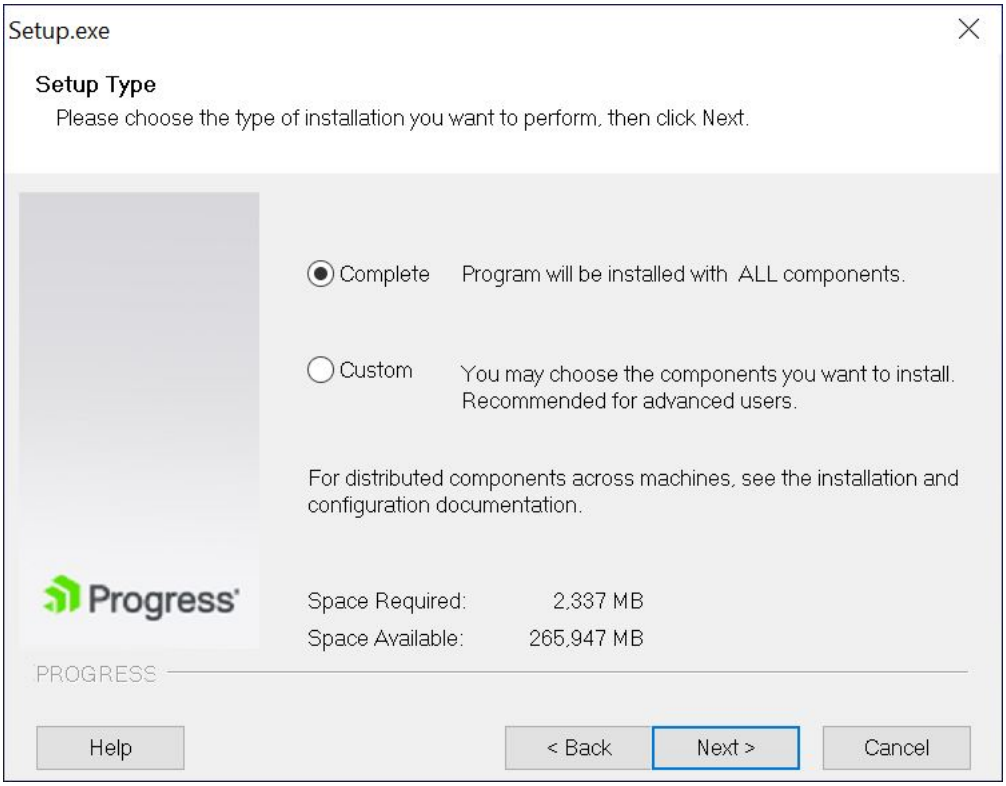
   a) Accept the **Destination Directory** path default, `C:\Progress\oemgmt`, or choose **Browse** to select an alternate directory. If you have other versions of Progress or OpenEdge products, do not enter the path name where these products are installed. Choose a different directory. This ensures that you do not overwrite any of your existing product directories and files.

   b) Accept the **Working Directory** path default, `C:\OpenEdge\wrk_oemgmt`, or choose **Browse** to select an alternate directory. Do not make your OpenEdge working directory a subdirectory under the OpenEdge installation path. If you uninstall OpenEdge, the working directory is deleted along with the destination directory. Additionally, you cannot start a server for a database that has been installed in a subdirectory of OpenEdge.

   Once you have made your choice, click **Next**.



6. In the **Setup Type** dialog box, choose the type of installation you want to perform, then click **Next**.



The following table summarizes the installation setup options:

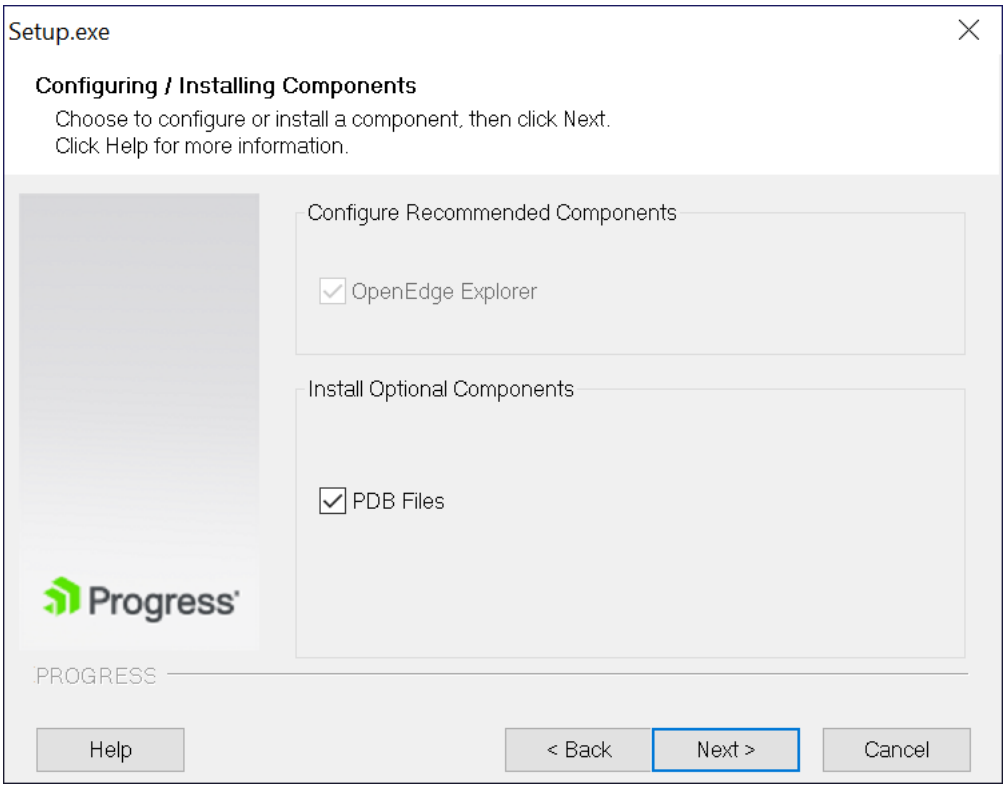
Setup type	Description
Complete	Automatically installs all mandatory, recommended, and optional components and subcomponents of the OpenEdge products you are installing.
Custom	Installs all mandatory product components and subcomponents, but allows you to selectively install the recommended and optional components and subcomponents on a product-by-product basis. This installation is recommended for more advanced users and provides the flexibility to distribute OpenEdge components on different machines, select product components to suit their business needs, and work around issues such as disk space limitations. **Note:** When customizing an installation, Progress recommends that you consider removing only optional components and subcomponents. Removing recommended products might negatively affect a product's functionality.

Note that some OpenEdge products that you install have additional installation dependencies, prompting you to perform additional set up or installation tasks as part of the OpenEdge installation process. The OpenEdge installation program automatically determines certain product dependencies and guides you through the completion of these tasks.

If you are performing a Windows installation, ensure that you install an appropriate version of Microsoft .NET Framework on the machine on which you are installing OpenEdge. Microsoft .NET Framework is required for smooth functioning of OpenEdge development products.

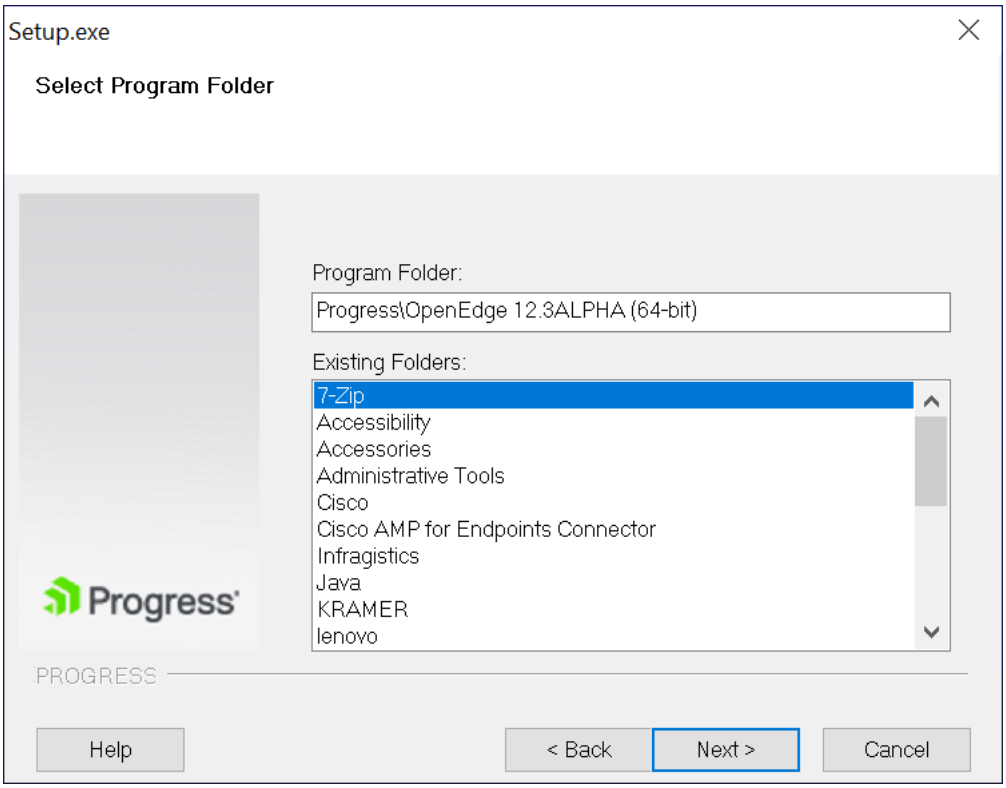
Note: Microsoft .NET Framework is not included with the OpenEdge software. For details about Microsoft .NET Framework versions and requirements, see the OpenEdge 12 Platform and Product Availablity Guide.

7. After you complete either a complete or custom installation setup, the **Configuring / Installing Components** dialog box is displayed if the Installation Program determines that you are installing a product that includes additional components that you might want to configure or install. Select any additional components you want to configure or install, then click **Next**.



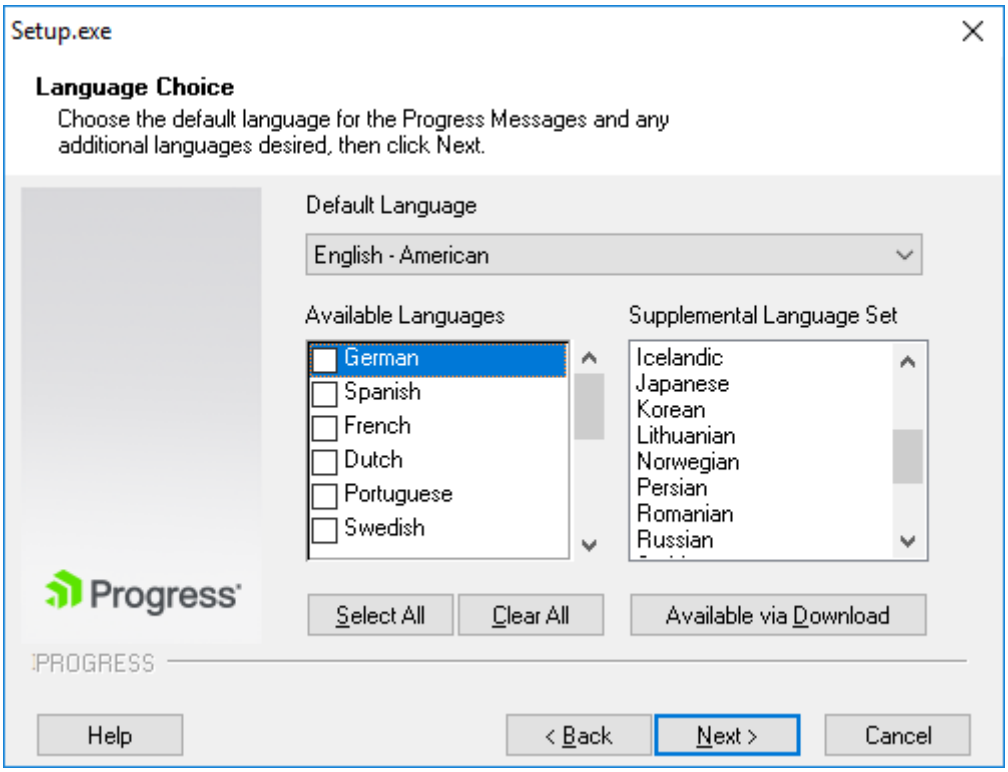
Details about the information required for this dialog box are available from online help.

8. In the **Select Program Folder** dialog box, specify the Windows program folder in which your OpenEdge program icons will appear, then click **Next**.



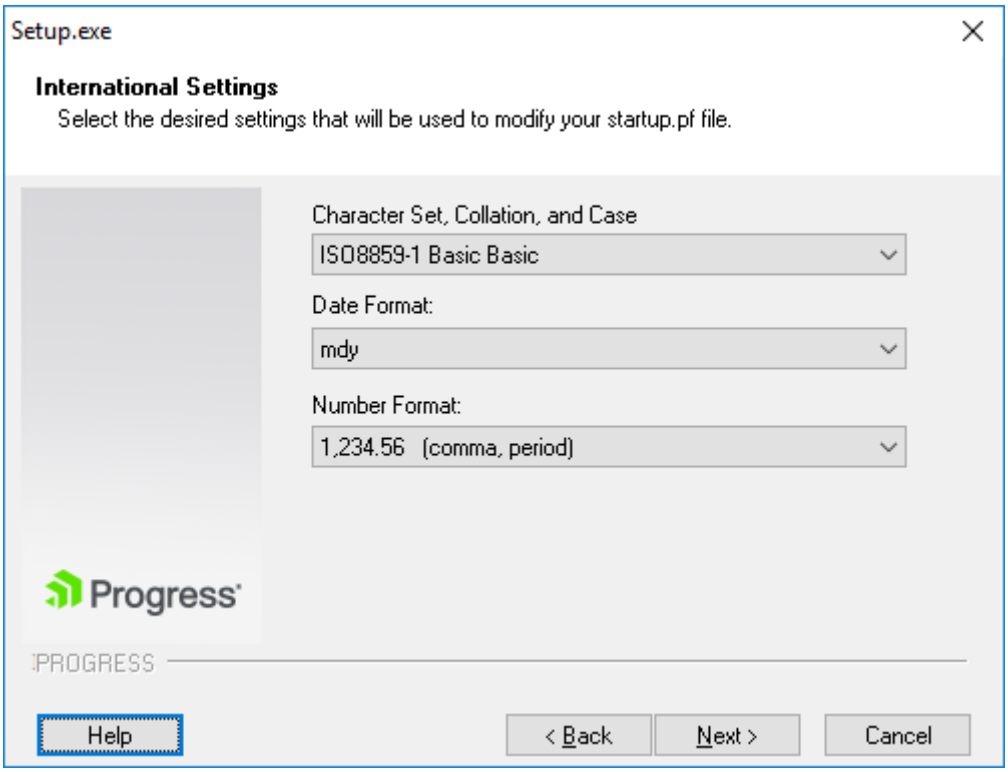
Note: If you have an existing OpenEdge installation, make sure that the program folder name you select does not contain that currently installed OpenEdge product.

9. In the **Language Choice** dialog box, select the languages to be used for OpenEdge error and informational messages. Click **Next**.



The **Supplemental Language Set**, a nonselectable list box, provides an additional list of languages in which messages can be displayed. If you select a supplemental language and choose **Available via Download**, an informational message appears and indicates that you can obtain these supplemental languages from the Progress Download Center to install after you complete the OpenEdge installation. Note that the supplemental languages are supported by OpenEdge, but new messages are not translated and appear in English only.

10. In the **International Settings** dialog box, choose the settings for your character set, date, and number format in OpenEdge software. Once you have made your choice, click **Next**.

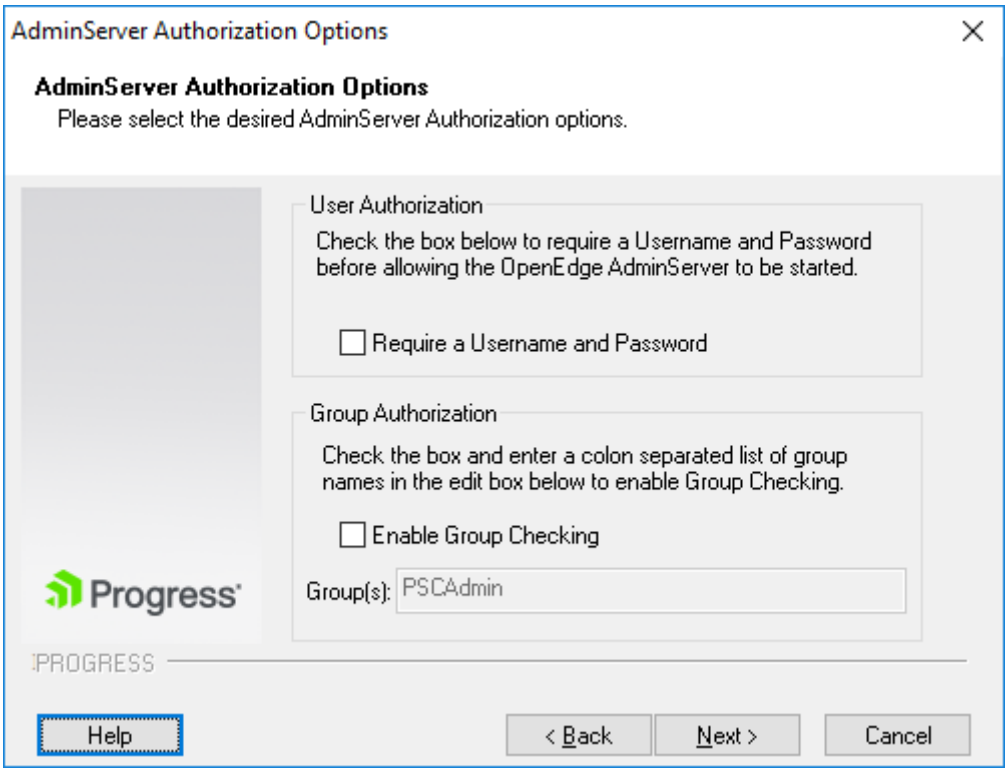


Details about the information required for this dialog box are available from online help.

11. In the **AdminServer Authorization Options** dialog box, set up the user and group authorization of the AdminServer for OpenEdge products, then click **Next**.

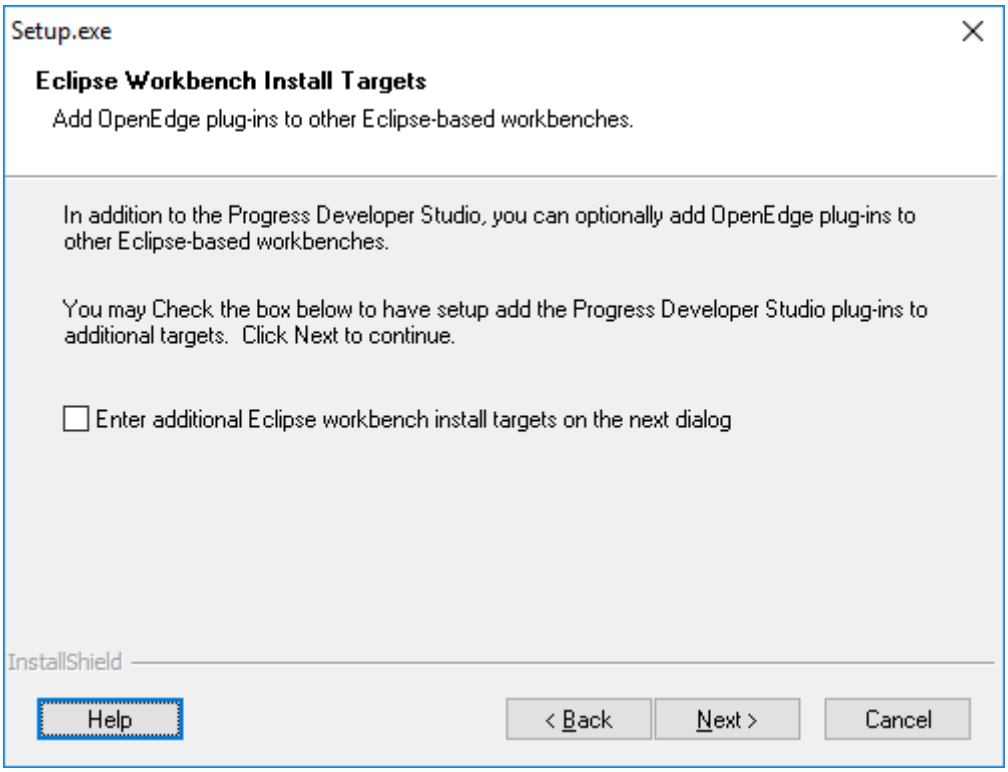
    The **User Authorization** and **Group Authorization** options are established independently of each other. You can elect to use one option, both options, or none:

    - To set the **User Authorization** option, select **Require a Username and Password**. This option requires each individual user to provide a valid user name and password before the AdminServer can be started. (Specific user name and password information values are established by an administrator at the operating system level. See your operating system documentation for information on how to set up users.)
    - To secure AdminServer access so that valid operational privileges, at a group level, are required, select **Enable Group Checking**. This action enables the **Group(s)** field with the **PSCAdmin** default group value displayed and identifies that you intend to set up the **Group Authorization** option.



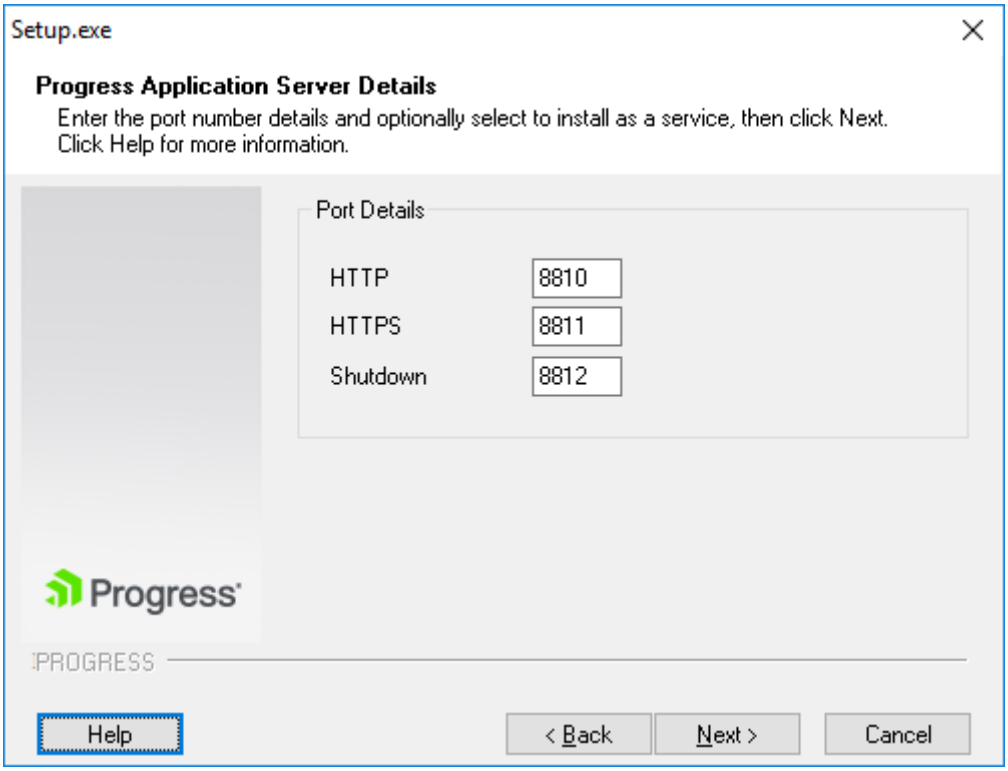
Details about the information required for this dialog box are available from online help.

12. In the **Eclipse Workbench Install Targets** dialog box, select the check-box, if required, then click **Next**.

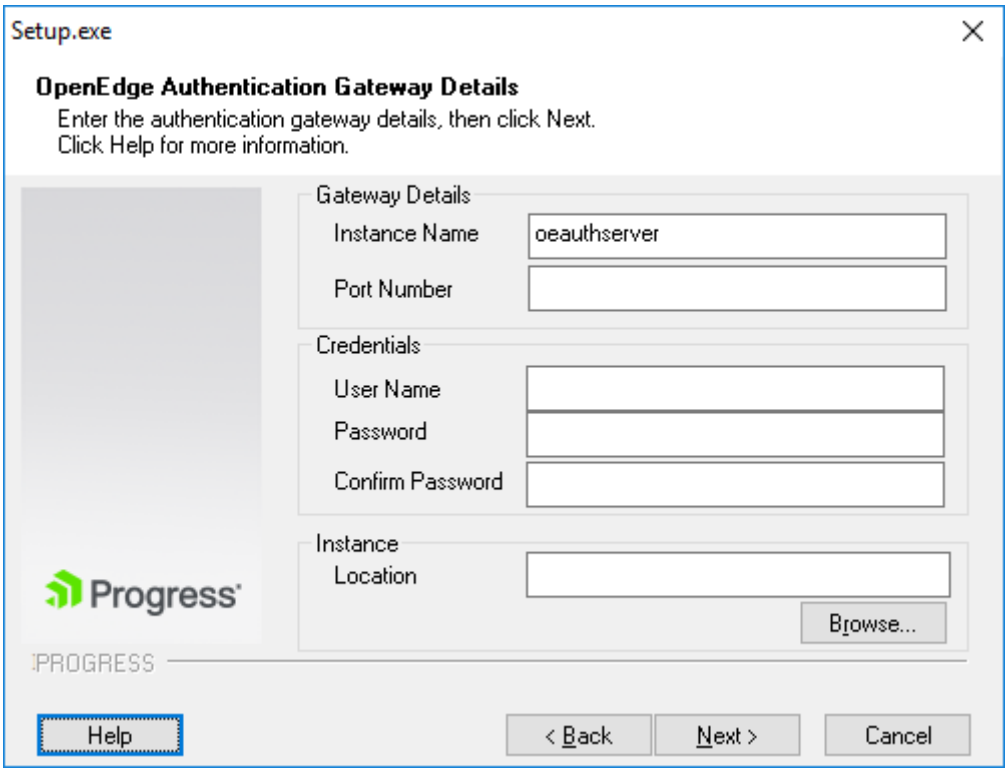


In addition to installing Progress Developer Studio for OpenEdge in the main OpenEdge installation directory, you can also integrate the Progress Developer Studio for OpenEdge plug-ins into other previously installed Eclipse environments. When you integrate the plug-ins to an additional Eclipse environment, you are able to use Progress Developer Studio for OpenEdge from that environment. Details about the information required for this dialog box is available from online help.

13. In the **Progress Application Server Details** dialog box is displayed, set the port details to be used by the Progress Application Server for OpenEdge.



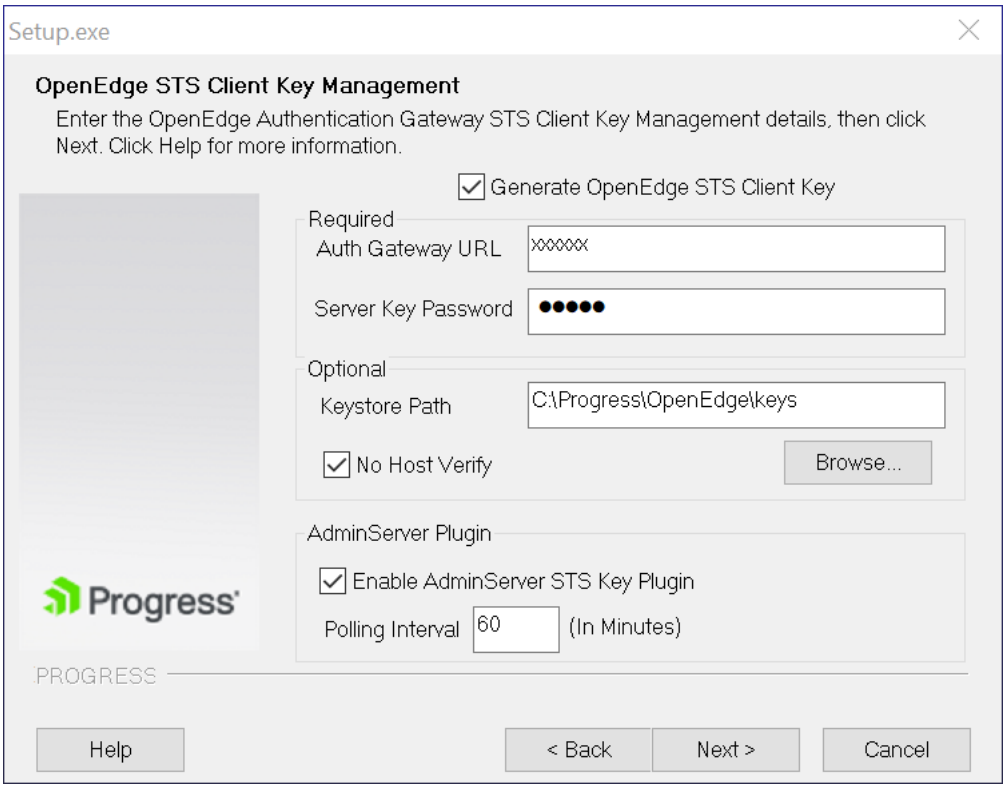
14. In the **OpenEdge Authentication Gateway Details** dialog box, set the configuration details for the OpenEdge Authentication Gateway to be used with PAS for OpenEdge, then click **Next**.



Details about the information required for this dialog box are available from online help.

15. In the **OpenEdge STS Client Key Management** dialog box, set the configuration details for the STS application to be used with PAS for OpenEdge, then click **Next**.

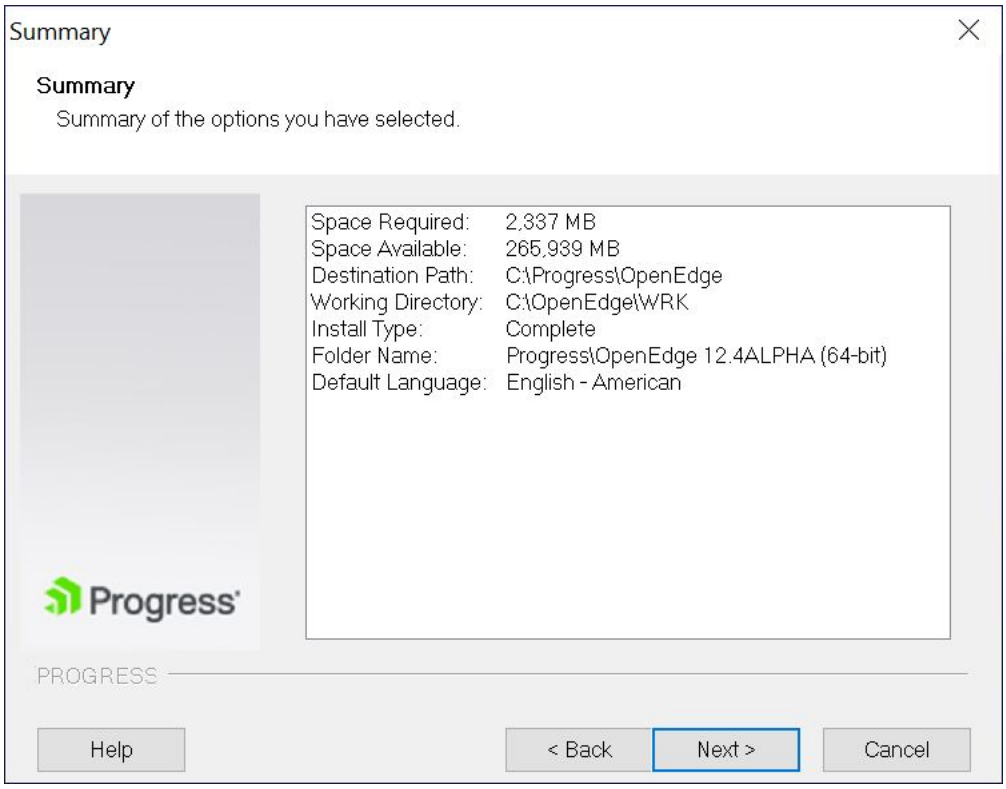
Note: This step is optional. If you want to generate the STS key, select the **Generate STS Client Key** checkbox.



Details about the information required for this dialog box are available from online help.

Complete the installation

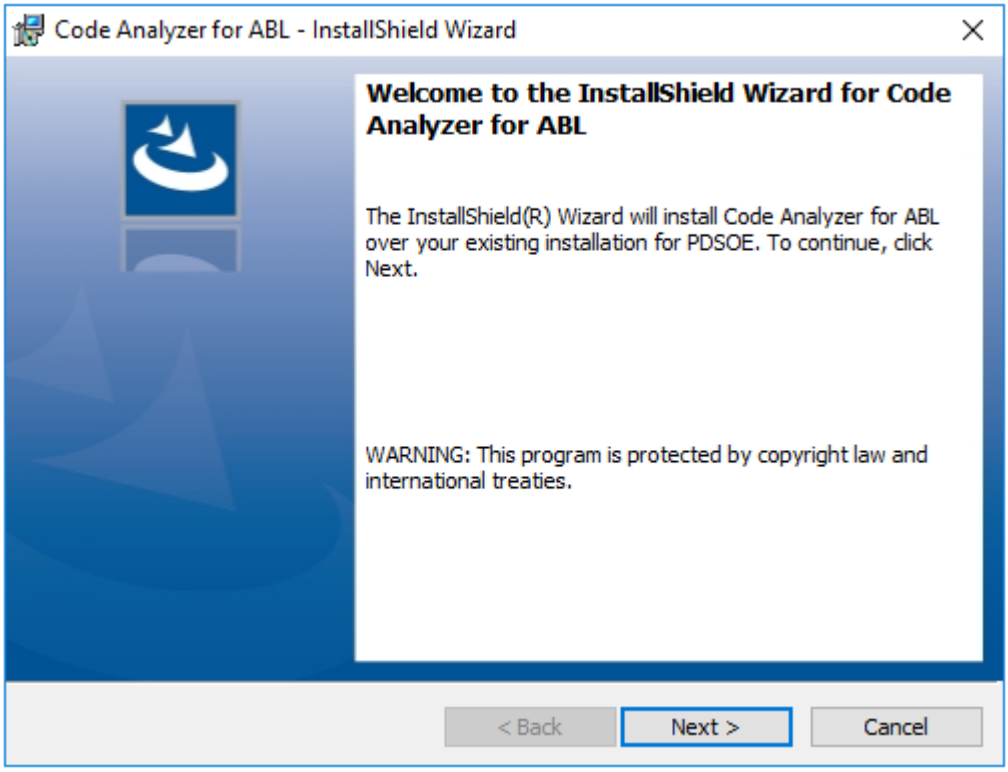
After you have selected all your OpenEdge product installation choices on a Windows system, a summary of the chosen installation options is displayed, as in the following example:



Review the installation options you have chosen, and click **Back** to return to a previous dialog box to make any changes. If you are satisfied with your choices, click **Next** to start the installation process.

Code Analyzer for ABL

If you install Progress Developer Studio for OpenEdge (Progress Dev Studio OE), the installer for the Code Analyzer for ABL is launched, as in the following example:

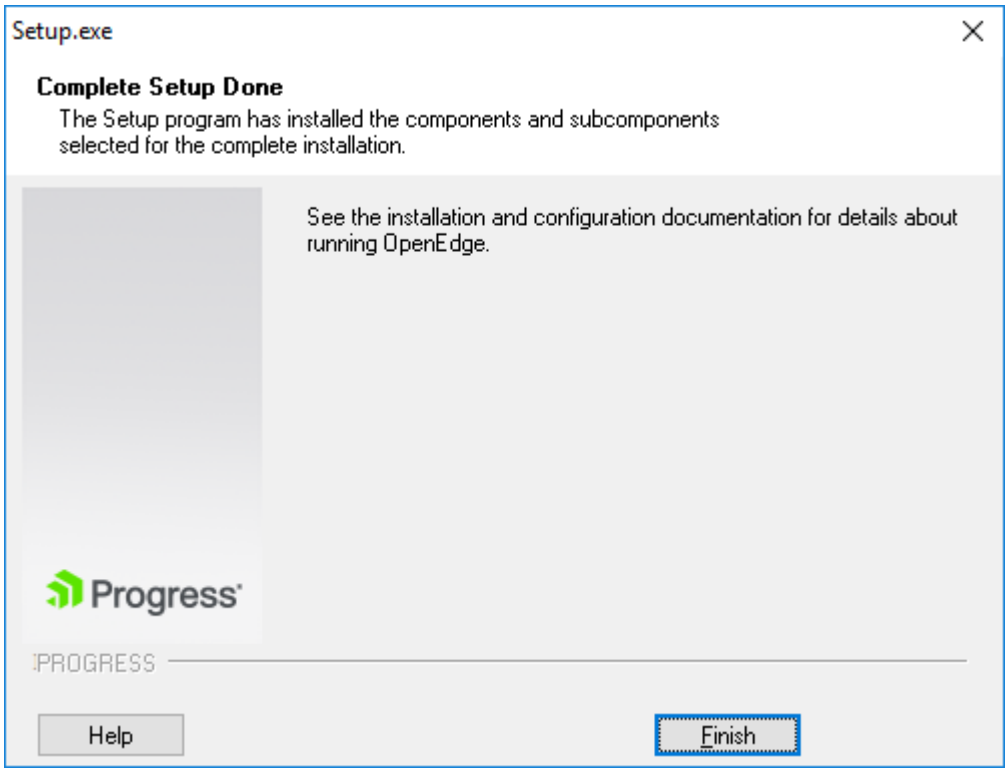


To install the Code Analyzer for ABL, complete the following steps:

1. Click **Next**. The **License Agreement** dialog box is displayed.
2. Select the option to accept the terms of the license agreement, and click **Install**.
3. Click **Finish** to complete the installation.

Complete the installation

When the installation is complete, the **Complete Setup Done** dialog box is displayed, as in the following example:



Click **Finish** to exit the installation process.

Share an OpenEdge installation on a network

The primary tasks to share an OpenEdge installation on a network are:

1. Create an OpenEdge installation on a network server machine, using the OpenEdge Installation Program.

   During the installation process, the Shared Network Installation (NetSetup) Utility—the component that allows each client machine to install the required software to access the network server machine—is installed on the server. In a Complete installation, NetSetup is automatically installed with all OpenEdge products. In a Custom installation, you must select NetSetup as an optional component. NetSetup also supports a silent installation option.

2. Use NetSetup to update each client machine, enabling it to access the network server's installation copy.

   NetSetup ensures that all the system files, icons, and registry entries needed to launch the OpenEdge products locally are set up on each client machine. NetSetup installation consists of one dialog box, the **Destination and Work Paths** dialog box, which you run on the client.

Set up the shared network on the network server

To set up a shared network installation on your network server, complete the following tasks:

1. Uninstall any existing OpenEdge or Progress products that are installed on client machines to which you will be installing OpenEdge.
2. Review the Windows-specific OpenEdge installation topics described in Before You Install on page 9.

3. Determine the destination location of your OpenEdge installation on the network. You will be prompted to enter this information during the network installation, and when you use NetSetup to install the connecting clients.
4. On your network server:
   a. Run the OpenEdge installation.
   b. When the **Choose Destination And Working Path Directories** dialog box appears, make a note of the location you type in the **Destination Directory** field. You will need this directory path information when you install on each client machine.
   c. Complete the OpenEdge installation on the server.

Run NetSetup to set up a client connection

NetSetup updates each client machine with all system files, icons, and registry entries needed to launch OpenEdge locally. Each client can then share the networked copy of OpenEdge.

The client machine in a NetSetup installation uses the OpenEdge installer located on the network server. The installer software enables you to locally launch NetSetup.

Note: Uninstall any existing OpenEdge product that is currently installed on a client machine to which you are installing. For information on uninstalling, see Uninstall OpenEdge on Windows on page 95.

To run NetSetup on your client machine, complete the following steps:

1. Choose**Start** > **Run**. The **Run** dialog box appears.
2. In the **Open** field, type one of the following supported connection options to connect the client machine to the shared network server:
   a. To identify a mapped drive connection, enter:

      `drive:\`*`destination path`*`\netsetup\setup.exe`

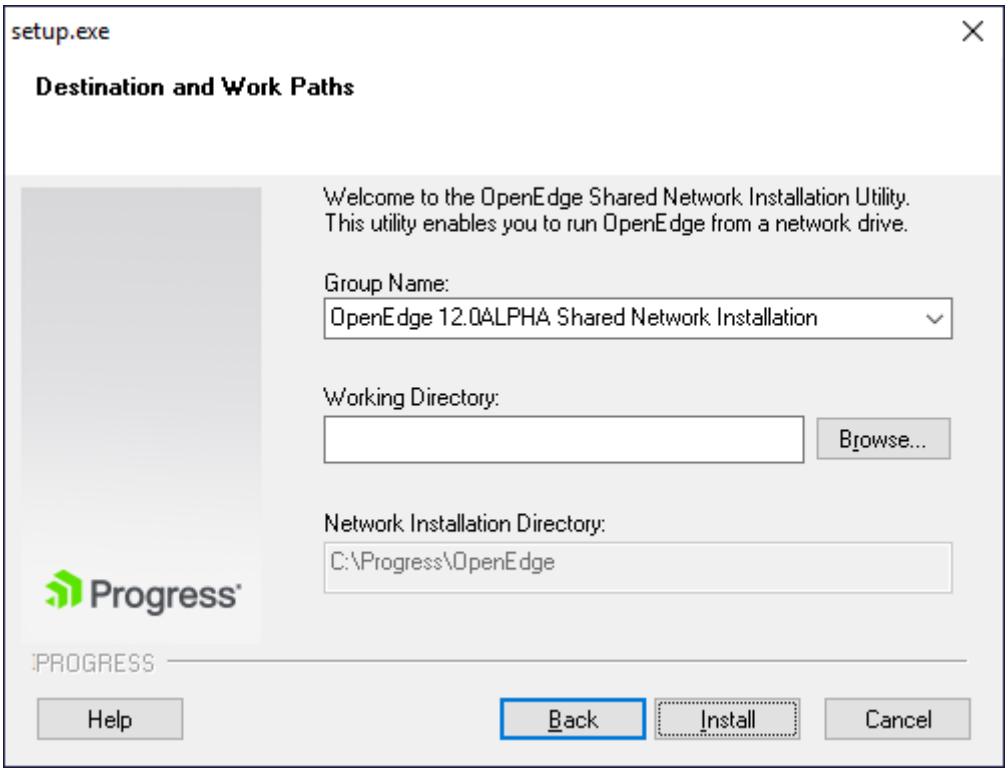
      Note: The argument *`destination path`* represents the location where OpenEdge is installed on the server machine.

   b. To identify the UNC pathname connection, enter:

      `\\`*`servername`*`\`*`sharename`*`\`*`destination path`*`\`*`netsetup`*`\setup.exe`

      Note: The argument *`destination path`* represents the location where OpenEdge is installed on the server machine.

3. Choose **OK**. The **Destination and Work Paths** dialog box appears:



4. Accept or change the **program group** name that appears in the **Group Name** field. The **Group Name** value identifies the menu option label that appears on the client machine. When you select this name from **All Programs**, you can access the OpenEdge installation that resides on the network server.

   Note: If the group name does not already exist, the NetSetup utility adds the group name to **All Programs**.

5. Browse to, or enter, the absolute path of the file to identify as the client-based working directory in the **Working Directory** field. The **Working Directory** is a local folder in which OpenEdge places the files you create on the client.

6. Review the pathname information that appears in the **Network Installation Directory** field. This path name identifies where OpenEdge is installed on the network server.

   Note: The **Network Installation Directory** field always appears grayed out, confirming that the information that appears in this field cannot be changed. The path name that appears in this field identifies two pieces of information: where OpenEdge is installed on the network server, and the type of connection that you are using to share the network installation (that is, mapped drive or UNC pathname).

7. Choose **Install**. Select the Group Name you defined from **All Programs** to access the OpenEdge installation from the network serve.

   Note: If you change the original installation location on the network, and the installation includes additional shortcuts supported by the NetSetup Utility, you must uninstall and reinstall the NetSetup Utility on the client to ensure that the shortcuts are available on the client machine.

Set up the shared network on the network server

To set up a shared network installation on your network server, complete the following tasks:

1. Uninstall any existing OpenEdge or Progress products that are installed on client machines to which you will be installing OpenEdge.
2. Review the Windows-specific OpenEdge installation topics described in Before You Install on page 9.
3. Determine the destination location of your OpenEdge installation on the network. You will be prompted to enter this information during the network installation, and when you use NetSetup to install the connecting clients.
4. On your network server:
   a. Run the OpenEdge installation.
   b. When the **Choose Destination And Working Path Directories** dialog box appears, make a note of the location you type in the **Destination Directory** field. You will need this directory path information when you install on each client machine.
   c. Complete the OpenEdge installation on the server.

Run NetSetup to set up a client connection

NetSetup updates each client machine with all system files, icons, and registry entries needed to launch OpenEdge locally. Each client can then share the networked copy of OpenEdge.

The client machine in a NetSetup installation uses the OpenEdge installer located on the network server. The installer software enables you to locally launch NetSetup.

Note: Uninstall any existing OpenEdge product that is currently installed on a client machine to which you are installing. For information on uninstalling, see Uninstall OpenEdge on Windows on page 95.

To run NetSetup on your client machine, complete the following steps:

1. Choose**Start** > **Run**. The **Run** dialog box appears.
2. In the **Open** field, type one of the following supported connection options to connect the client machine to the shared network server:
   a) To identify a mapped drive connection, enter:

   ```
   drive:\destination path\netsetup\setup.exe
   ```

   Note: The argument *`destination path`* represents the location where OpenEdge is installed on the server machine.

   ---

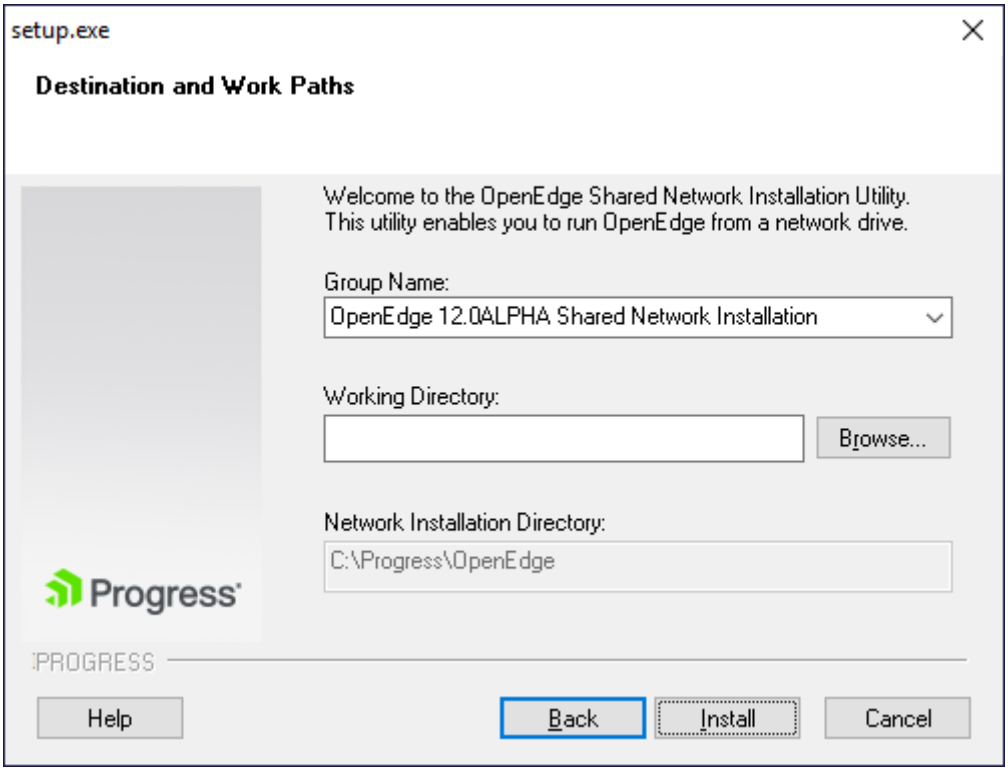
   b) To identify the UNC pathname connection, enter:

   ```
   \\servername\sharename\destination path\netsetup\setup.exe
   ```

   Note: The argument *`destination path`* represents the location where OpenEdge is installed on the server machine.

   ---

3. Choose **OK**. The **Destination and Work Paths** dialog box appears:



4. Accept or change the **program group** name that appears in the **Group Name** field. The **Group Name** value identifies the menu option label that appears on the client machine. When you select this name from **All Programs**, you can access the OpenEdge installation that resides on the network server.

Note: If the group name does not already exist, the NetSetup utility adds the group name to **All Programs**.

5. Browse to, or enter, the absolute path of the file to identify as the client-based working directory in the **Working Directory** field. The **Working Directory** is a local folder in which OpenEdge places the files you create on the client.
6. Review the pathname information that appears in the **Network Installation Directory** field. This path name identifies where OpenEdge is installed on the network server.

Note: The **Network Installation Directory** field always appears grayed out, confirming that the information that appears in this field cannot be changed. The path name that appears in this field identifies two pieces of information: where OpenEdge is installed on the network server, and the type of connection that you are using to share the network installation (that is, mapped drive or UNC pathname).

7. Choose **Install**. Select the Group Name you defined from **All Programs** to access the OpenEdge installation from the network serve.

Note: If you change the original installation location on the network, and the installation includes additional shortcuts supported by the NetSetup Utility, you must uninstall and reinstall the NetSetup Utility on the client to ensure that the shortcuts are available on the client machine.

Create a custom installation bundle for Windows machines

To install a specific set of OpenEdge products uniformly throughout multiple Windows machines on your network, you can create an **installation bundle**. An installation bundle is a subset of the OpenEdge download image that contains the products for which you are licensed, and provides a convenient means to replicate an installation throughout your environment.

To create a custom installation bundle for Windows machines, complete the following steps:

1. Open a command window.
2. Enter the location of your downloaded OpenEdge media, and specify the `setup.exe -generate_product_bundle` command, as in the following example:

```
c:\users\abc\openedge\12\cdimage\setup.exe -generate_product_bundle
```

Note: Make sure that this path contains your downloaded OpenEdge cdimage.

The **Welcome** dialog box appears. Click **OK**.

3. In the **Serial Number and Control Code** dialog box, enter the serial number and control codes for each product that you want to include in the new installation bundle manually or click **Load** to read a license addendum file. The serial number and control codes indicate the OpenEdge products that you want to include in the installation bundle. Click **Next**.
4. In the **Progress Media Bundle Location** dialog box, click **Browse** and navigate to the directory where you want the installation bundle to be created. Click **Next**.
5. In the **Summary** dialog box, Click **OK**.
6. A status message is displayed indicating that the installation bundle is being created. The **Finish** screen appears after the installation bundle is created. Click **OK** to complete the procedure.

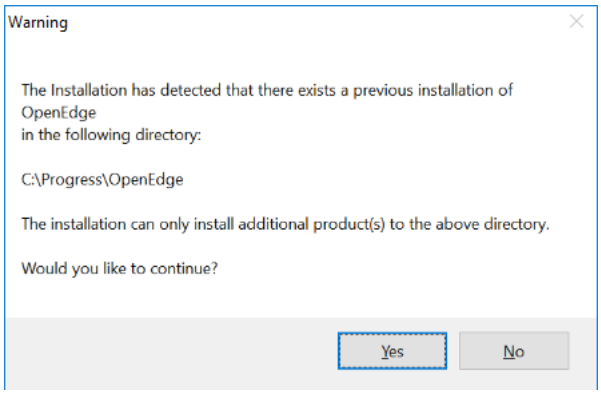
You can now run the OpenEdge installation from the new installation bundle location to install the selected products.

Install additional products later

You can add other OpenEdge products to your current installation by re-launching the installation program either interactively or silently.

Note: You must shut down the AdminServer before you can successfully add additional products to a current installation.

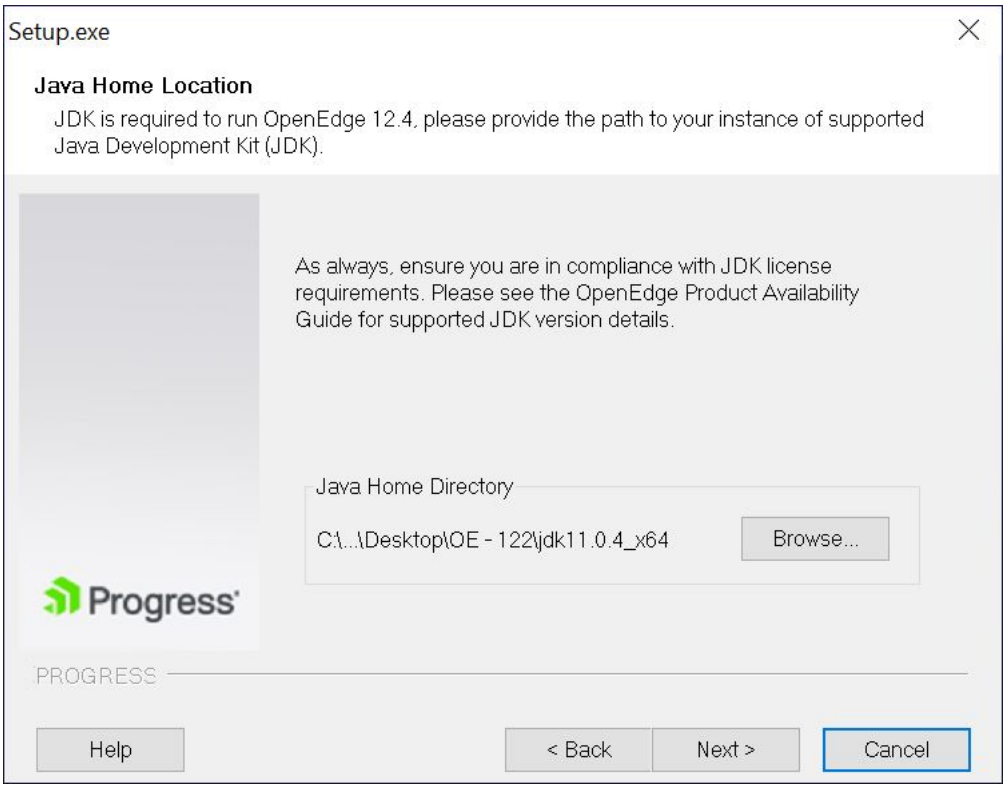
When the installation process detects the existing version of OpenEdge, a **Warning** dialog box appears, notifying you of the existing version's location, as in the following example:



Note: When you add products to an existing installation, you can use the installation program in batch mode regardless of the type of installation (complete or custom) that you are performing.

To continue with the installation, complete the following steps:

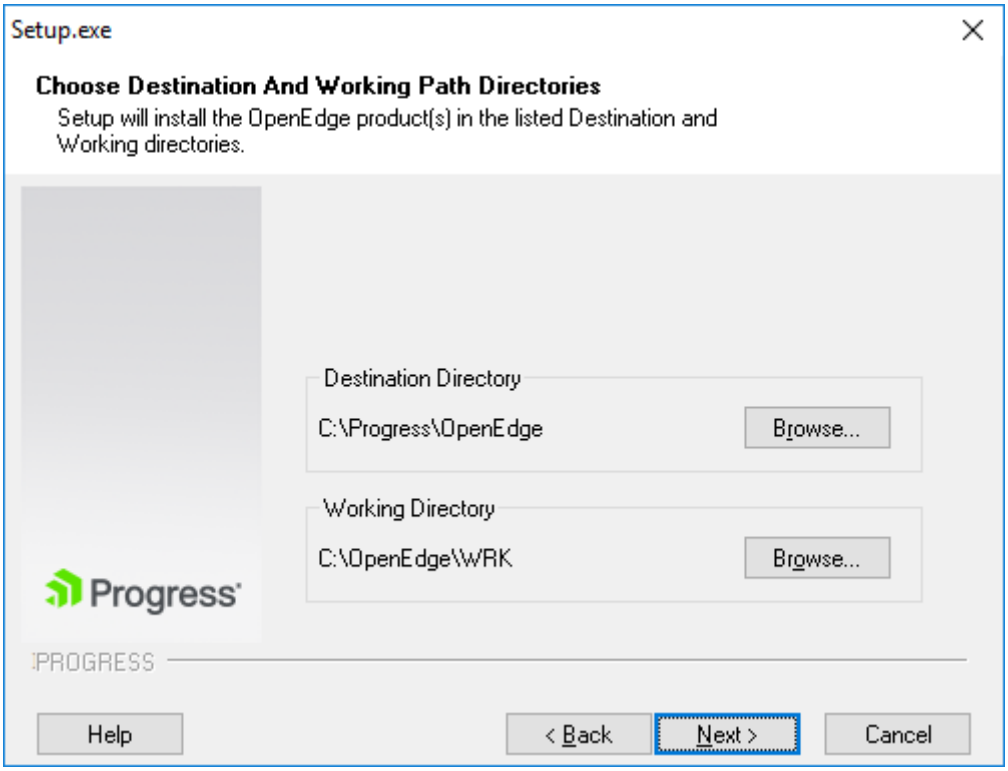
1. Choose **Yes** to continue with the installation. The **Welcome** dialog box appears. Click **Next**
2. In the **Serial Number and Control Codes** dialog box, enter the serial number and control numbers and choose **Accept** for each additional product you want to add to your current installation. Click **Next**.
3. The **Java Home Location** dialog box is displayed. Browse to the location on the computer where JDK is installed to specify the Java Home Directory. If your computer already has `JAVA_HOME` set as a system or user variable, then the Java Home Directory is auto-populated. Ensure that you have the correct JDK version installed. Otherwise, an error message is displayed, and you cannot proceed with the installation. Click **Next**.



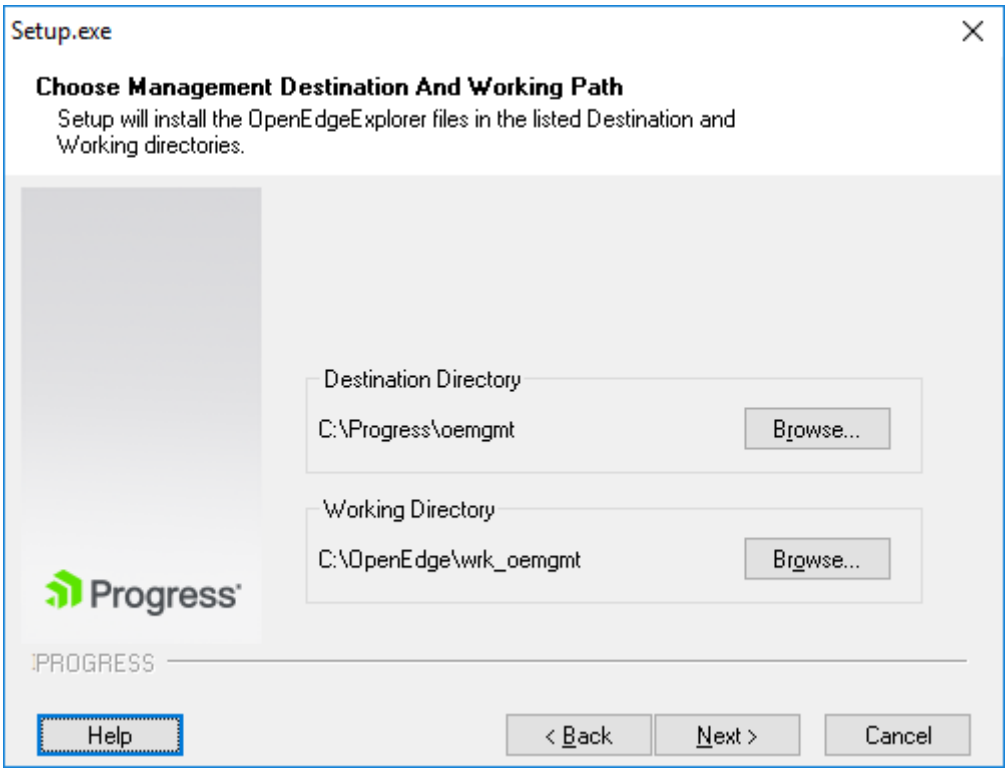
4. In the **Choose Destination and Working Path Directories** dialog box, specify the paths for the OpenEdge installation and working directories. Click **Next**.

The **working directory** contains your OpenEdge database and application files, and is the directory from which to run OpenEdge. The working directory must always be separate from the OpenEdge installation directory.

Caution: Never run OpenEdge products from the directory in which you installed them. If you do, you could damage the OpenEdge software files.



5. If you have a license for OpenEdge Management, the **Choose Management Destination And Working Path** dialog box is displayed. Make the choices and click **Next**.

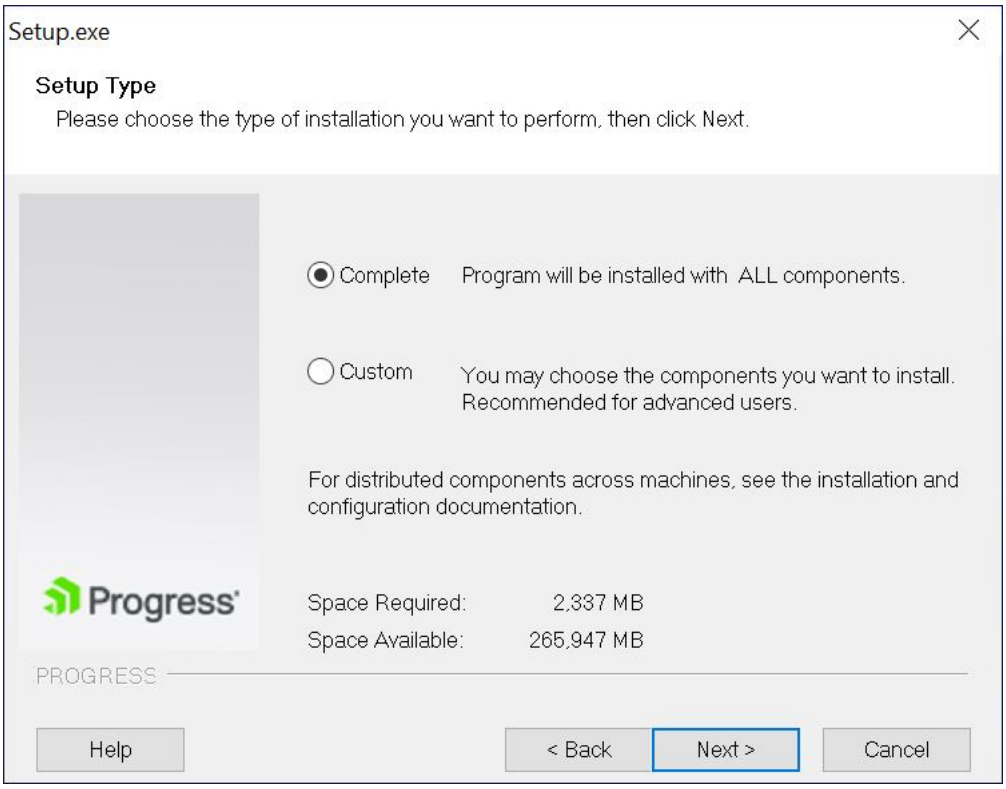


In the **Choose Management Destination And Working Path** dialog box, identify the destination and working directories for OpenEdge Management as follows:

a) Accept the **Destination Directory** path default, `C:\Progress\oemgmt`, or choose **Browse** to select an alternate directory. If you have other versions of Progress or OpenEdge products, do not enter the path name where these products are installed. Choose a different directory. This ensures that you do not overwrite any of your existing product directories and files.

b) Accept the **Working Directory** path default, `C:\OpenEdge\wrk_oemgmt`, or choose **Browse** to select an alternate directory. Do not make your OpenEdge working directory a subdirectory under the OpenEdge installation path. If you uninstall OpenEdge, the working directory is deleted along with the destination directory. Additionally, you cannot start a server for a database that has been installed in a subdirectory of OpenEdge.

6. In the **Setup Type** dialog box, select **Custom** and click **Next**.



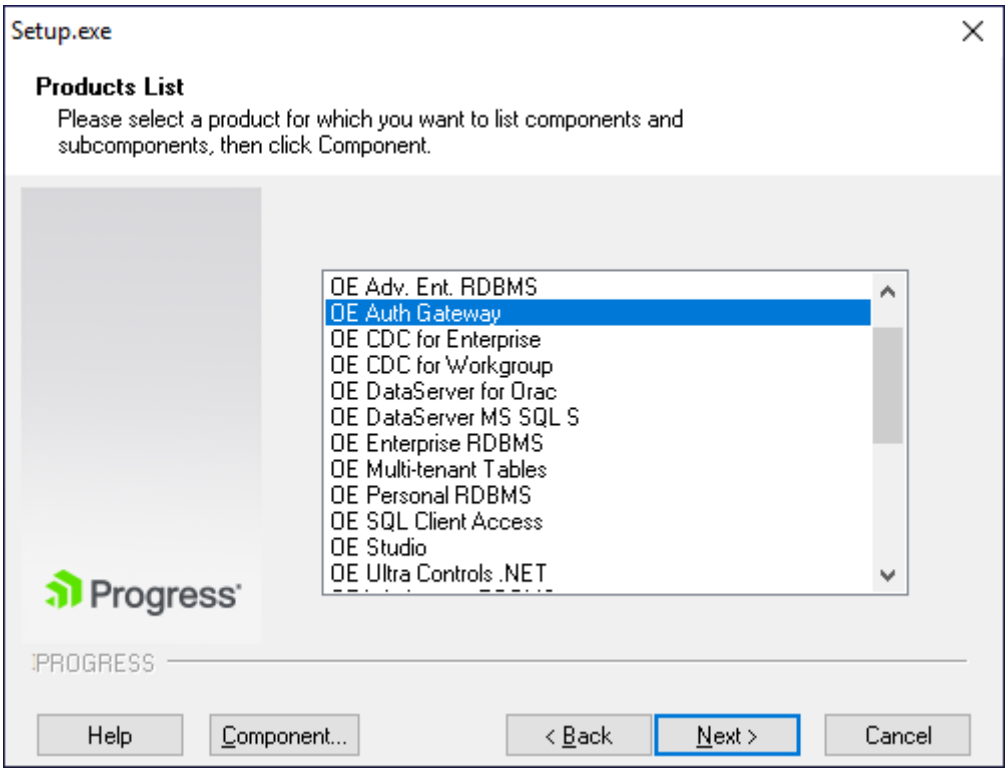
Note that some OpenEdge products that you install have additional installation dependencies, prompting you to perform additional set up or installation tasks as part of the OpenEdge installation process. The OpenEdge installation program automatically determines certain product dependencies and guides you through the completion of these tasks.

If you are performing a Windows installation, ensure that you install an appropriate version of Microsoft .NET Framework on the machine on which you are installing OpenEdge. Microsoft .NET Framework is required for smooth functioning of OpenEdge development products.

Note: Microsoft .NET Framework is not included with the OpenEdge software. For details about Microsoft .NET Framework versions and requirements, see the OpenEdge 12 Platform and Product Availablity Guide.

---

7. In the **Products List** dialog box, choose the componenets and click **Next**.



To add components and subcomponents to a product, select the product and click **Component**. You can perform this task after installation using the **Add Components** utility. For more information, see Add components to an existing OpenEdge installation on page 59.

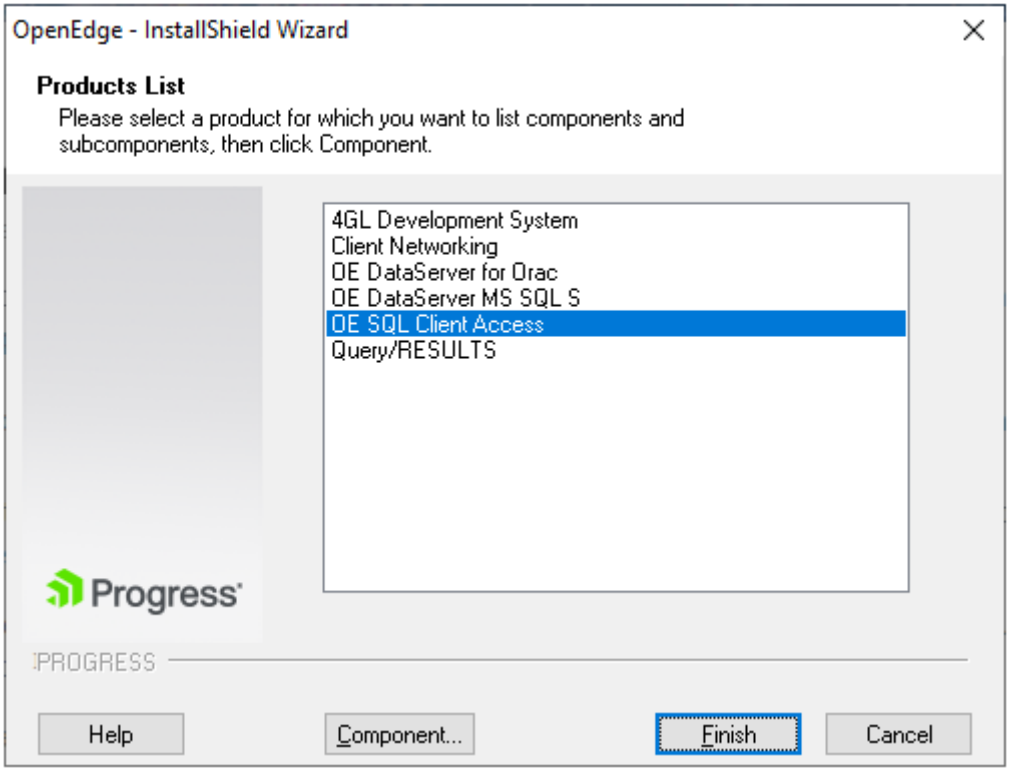
8. Follow the instructions on the following dialog boxes to complete the installation.

Add components to an existing OpenEdge installation

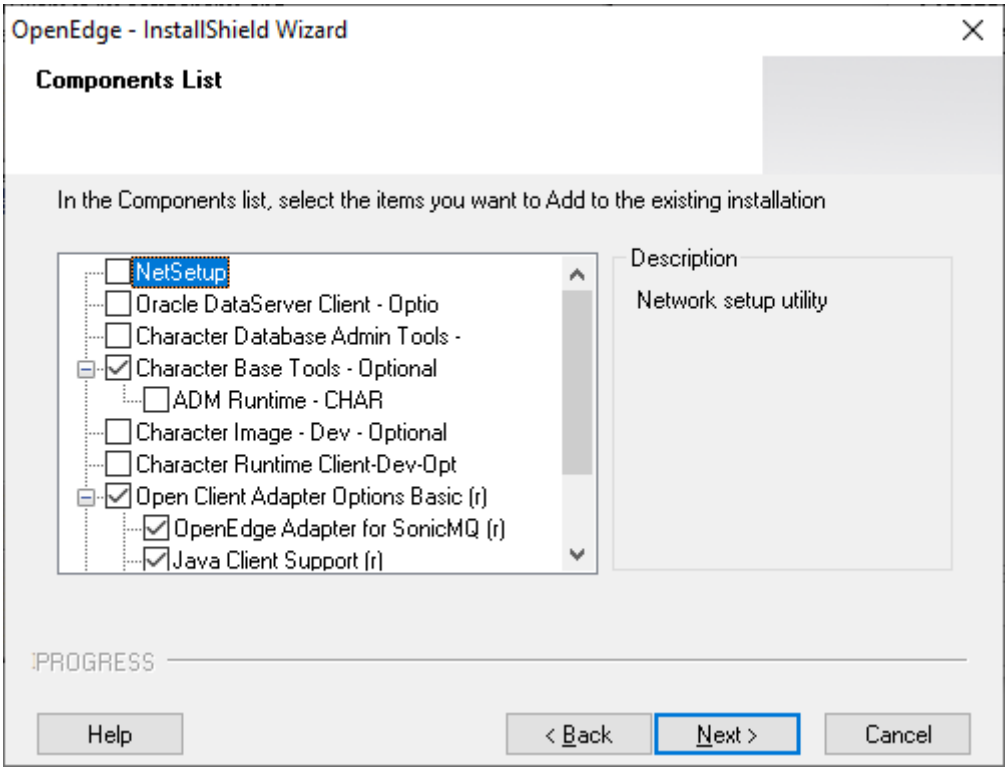
You can add components and subcomponents to an existing OpenEdge installation without entering any data other than the required components or subcomponents.

To add components or subcomponents to a currently installed OpenEdge product, complete the following steps:

1. Make sure that OpenEdge is not running in an open DOS window, and that the current directory is not any OpenEdge-related directory.
2. Stop all OpenEdge processes, including your web server, and close all OpenEdge help files. Use the Task Manager to ensure that you stop all processes and close all help files.
3. Choose **Start** > **Progress** > **OpenEdge** > **Add Components**.
4. In the **Products List** dialog box, select the product to which you want to add components or subcomponents. Click **Component...**



5. In the **Components List** dialog box, select the items you want to add to the existing installation. Once you have made a choice, click **Next**.



Note: Only components and subcomponents that have not been previously installed appear in the **Components List** dialog box.

Note: Repeat step 4 and 5 as needed.

6. Click **Finish** to update the existing install.

Note: If a system file in a newly added component or subcomponent is locked or busy during installation, a **Reboot** dialog box is displayed, which prompts you to reboot your system.

4

Install OpenEdge on UNIX or Linux

To install OpenEdge on UNIX or Linux platforms, download the OpenEdge software image from the Progress Software Download Center and launch the interactive installation program. You can optionally use the installation program to do the following:

- Capture a response file during the installation procedure that you can use to create a silent installation script, which automates the installation of OpenEdge products across a network.
- Create a custom installation bundle for UNIX or Linux machines on page 73 to install a specific set of OpenEdge products uniformly throughout multiple machines on your network.
- Install additional products, or product components, to an existing installation at a later time.

For details, see the following topics:

- Launch the UNIX interactive installer
- Select your installation choices
- Complete the installation
- Create a custom installation bundle for UNIX or Linux machines
- Install additional products later
- Add components to an existing OpenEdge installation

Launch the UNIX interactive installer

To initiate the Installation Program to install OpenEdge products on UNIX or Linux machines:

1. Close all other applications before beginning the installation process.

   Other applications or tasks might interfere with the installation or they might use files that OpenEdge needs to complete the installation. Shut down any processes where the executable itself, or a file used by the executable, is located in the directory where you intend to install OpenEdge.

2. Log in as `root`. If you do not know the root password for your machine, check with your system administrator.

   Note: The UNIX install program requires `root` privileges to set the required file permissions on Progress executables. Using the `root` ownership bypasses many limitations and restrictions imposed by the UNIX security system on a normal account. for more information, see `root` privilages.

3. From a browser, access the Progress Software Download Center and navigate to the Electronic Software Distribution (ESD) software image you intend to download.

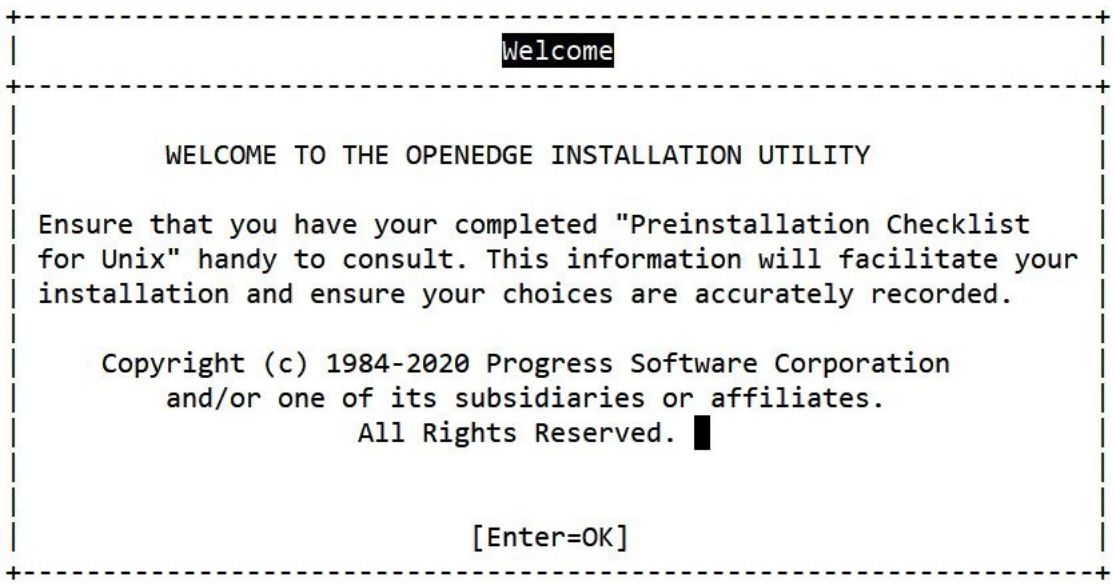
   An Electronic Software Distribution (ESD) download supports downloading software images from the Progress Download Center available at http://www.progress.com/esd. This web site requires a valid account with Progress for accessing OpenEdge products and updates.

4. Download the software image and save it to your machine.
5. To start the installation, enter the following command:

   ./path`/proinst`

   Note: In the preceding command, `path` represents the directory that contains the downloaded software image. You cannot run `proinst` from either the directory where you have downloaded the software image, or from the target directory in which you are installing OpenEdge.

6. Read the information in the **Welcome** dialog box, verify that all the other applications are closed, and press ENTER.

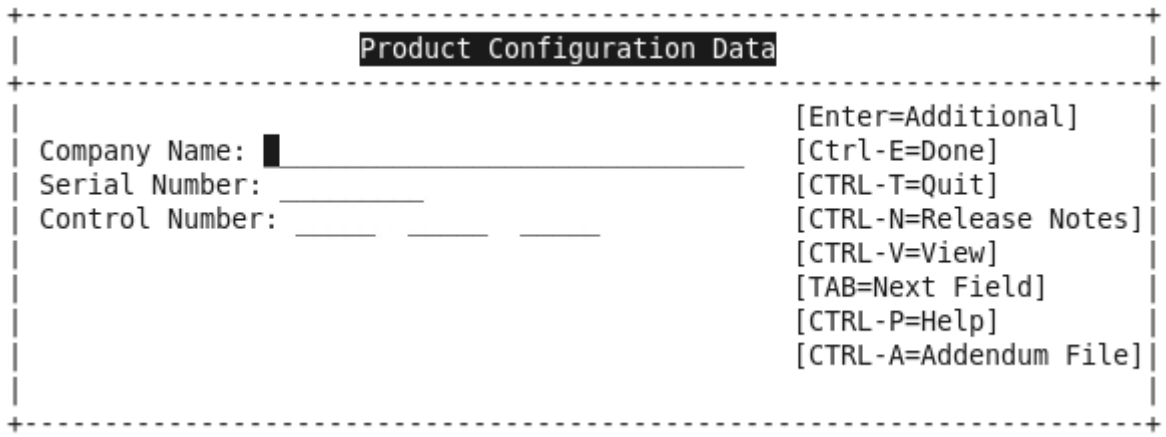


The installation program presents a series of dialog boxes in which you enter data appropriate for the products you are installing and the type of installation (complete or custom) that you choose. Enter your choices in each dialog box and advance to the next dialog box at your own pace. The specific controls you use to advance to the next dialog box or return to a previous dialog box are identified on each dialog box. Select a menu option using the SPACEBAR key, the TAB key, or the keys that are mentioned in each selection on the dialog box. Use the online help to get details about any dialog box. Access the online help according to the method identified on each dialog box. Scroll in the help window to view all of the dialog box details.

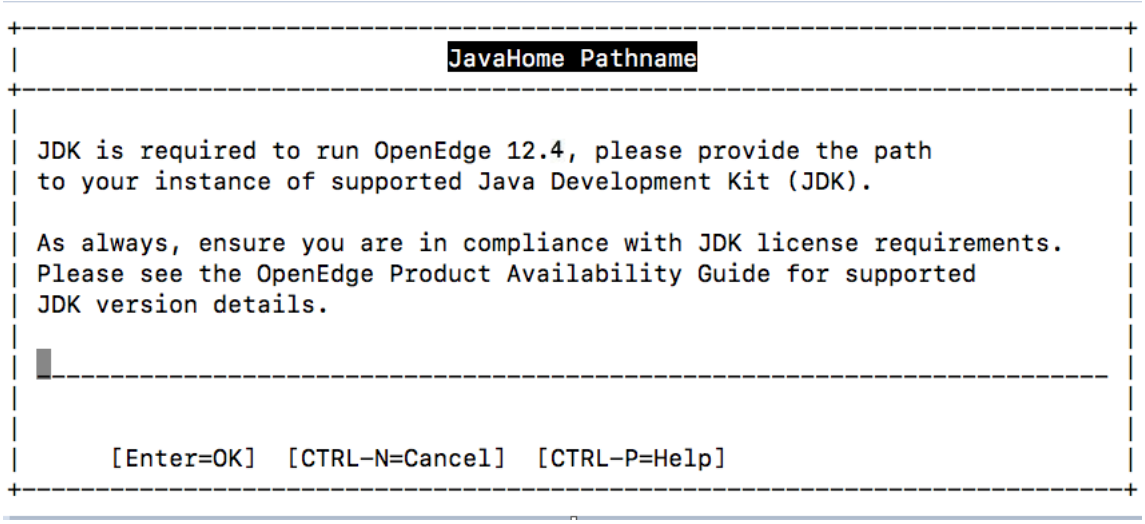
Select your installation choices

To specify your installation choices, complete the following steps:

1. In the **Product Configuration Data** dialog box, press CTRL + A to load your License Addendum file, which contains the serial numbers and control codes for the OpenEdge license you purchased. An electronic license addendum file eases the installation process by reading your serial number and control code information from the file, rather than being manually entered. Alternatively, enter the company name, serial number, and control number for each OpenEdge product listed in your License Addendum file. When you are finished entering license information, press CTRL + E to continue.

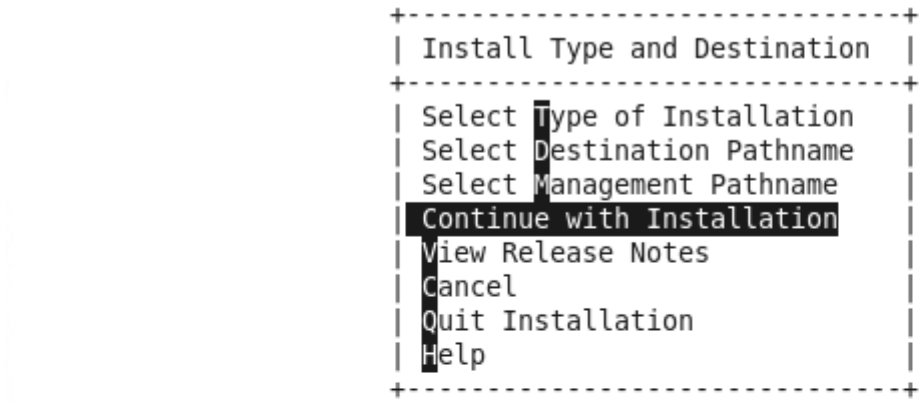


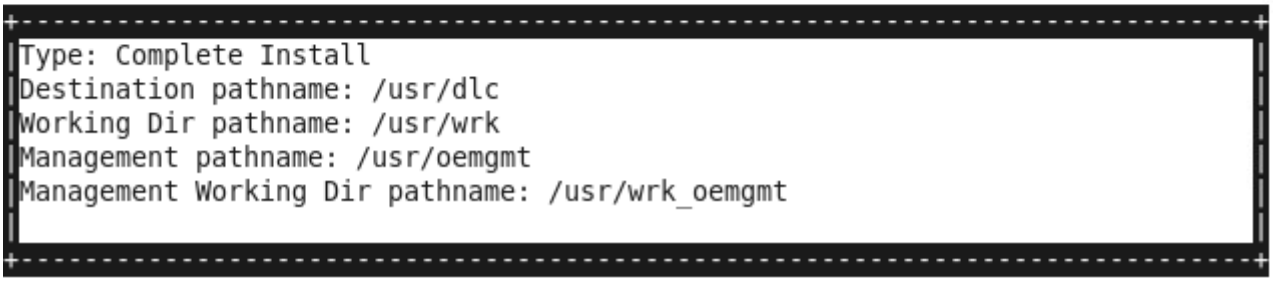
2. In the **JavaHome Pathname** dialog box, enter the path where the JDK is installed to specify the JavaHome and press ENTER to continue.



Note: Ensure that you have the correct JDK version installed. Otherwise, an error message is displayed, and you cannot proceed with the installation. For information about the JDK requirements on each supported platform, see the OpenEdge Platform and Product Availability Guide.

3. In the **Install Type and Destination** dialog box, select one of the options, press the TAB key to highlight `Continue with Installation`, and then press ENTER.



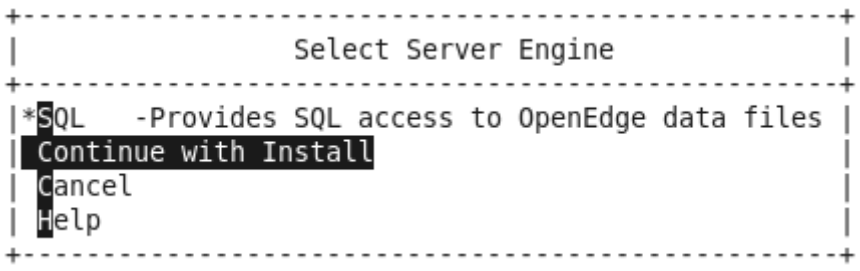


The options are described in the following table:

For the following option…	Enter the following…
Type of Installation	One the following: • **Complete Install** to automatically install all mandatory, recommended, and optional components and subcomponents of the OpenEdge products you are installing. • **Custom Install** to selectively install the recommended and optional components and subcomponents on a product-by-product basis. Note that this installation is recommended for more advanced users and provides the flexibility to distribute OpenEdge components on different machines, select product components to suit specific business needs, and work around issues such as disk space limitations. **Note:** When customizing an installation, Progress recommends that you consider removing only optional components and subcomponents. Removing recommended products might negatively affect a product's functionality.

For the following option…	Enter the following…
Destination pathname	The directory in which the OpenEdge software is installed.
Working Dir pathname	The directory that contains your OpenEdge database and application files. This directory must always be separate from the OpenEdge installation directory.
Management pathname:	The directory in which OpenEdge Management is installed. If you have other versions of Progress or OpenEdge products installed, do not enter the path name where these products reside.
Management Working dir pathname:	The directory in which your applications, databases, and log files will reside. Do not make your OpenEdge Management working directory a subdirectory under the OpenEdge Management installation path.

If you install a database product, the installation program by default installs the ABL database server connection needed to support queries written in ABL. However, the installation program prompts you to specify whether you want to select the SQL Server database engine to support queries written in SQL. Press the TAB key to highlight `Continue with Install`, then press ENTER.



4. In the **Language Selection** dialog box, select the language to be used for OpenEdge error and informational messages, press the TAB key to highlight `Continue with Installation` and then press ENTER.

```
+----------------------------+
|Language Selection          |
+----------------------------+
| Chinese (Simplified)       |
| Czech                      |
| Dutch                      |
| English - American         |
| English - International    |
| French                     |
| German                     |
| Italian                    |
| Polish                     |
| Portuguese - Brazilian     |
| Spanish                    |
| Portuguese                 |
| Swedish                    |
| Spanish - Latin            |
| Make Default               |
| Continue with Installation |
| Cancel                     |
| Help                       |
+----------------------------+
```

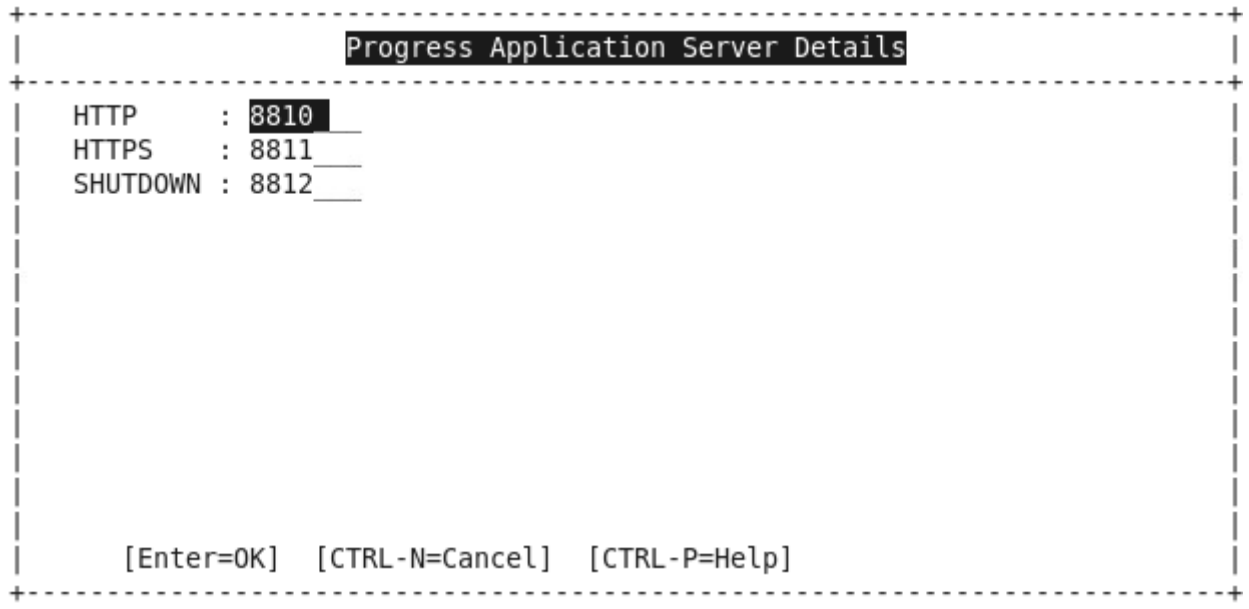
You can also select `Make Default`. Notice that your language selection is highlighted with an asterisk (*). Once you have made your choice, press TAB to highlight `Continue with Installation` and then press ENTER.

```
+----------------------------+
|Language Selection          |
+----------------------------+
| Chinese (Simplified)       |
| Czech                      |
| Dutch                      |
|*English - American         |
| English - International    |
| French                     |
| German                     |
| Italian                    |
| Polish                     |
| Portuguese - Brazilian     |
| Spanish                    |
| Portuguese                 |
| Swedish                    |
| Spanish - Latin            |
| Make Default               |
| Continue with Installation |
| Cancel                     |
| Help                       |
+----------------------------+
```

5. In the **International Settings** dialog box, choose the settings for your character set, date, and number format in OpenEdge software. Details about the information required for this dialog box are available from online help. Press the TAB key to highlight `Continue with Installation`, and then press ENTER.



6. In the **Progress Application Server Details** dialog box, specify the port details to be used by Progress Application Server (PAS) for OpenEdge, then press ENTER.



7. In the **OpenEdge Authentication Gateway Configuration** dialog box, set the configuration details for the OpenEdge Authentication Gateway to be used with PAS for OpenEdge. Press TAB to navigate among the fields in this dialog box. Details about the information required are available from online help. Once you have added the details, press ENTER.

```
+------------------------------------------------------------------------------+
|              OpenEdge Authentication Gateway Configuration                   |
+------------------------------------------------------------------------------+
|   Enter your OpenEdge Authentication Gateway configuration details           |
|   Press the tab key to navigate to desired entry.                            |
|                                                                              |
| Instance Name     : oeauthserver_____________________________________        |
| Port Number       : ___________________________________________________      |
| User Name         : ___________________________________________________      |
| Password          : ___________________________________________________      |
| Confirm Password  : ___________________________________________________      |
| Instance Location : ___________________________________________________      |
|                                                                              |
|                                                                              |
|                                                                              |
|      [Enter=OK]  [CTRL-N=Cancel]  [CTRL-P=Help]                              |
+------------------------------------------------------------------------------+
```

8. In the **OpenEdge Gateway Client** dialog box, select YES if you want to generate the OpenEdge STS client key. If you select NO, The OpenEdge installation continues without the OpenEdge STS client key.

```
+---------------------------------+
|  Authentication Gateway Client  |
+---------------------------------+
|                                 |
|Generate OpenEdge STS Client Key?|
|                                 |
|         [Y=YES] [N=NO]          |
+---------------------------------+
```

9. In the **OpenEdge STS Client Key Management**dialog box, set the configuration details for the STS application to be used with PAS for OpenEdge. Press TAB to navigate among the fields in this dialog box. Details about the information required are available from online help. Once you have added the details, press ENTER.

```
+------------------------------------------------------------------------------+
|                  OpenEdge STS Client Key Management                          |
+------------------------------------------------------------------------------+
|   Enter your OE Authentication Gateway STS Client Key Management details.    |
|   Press the tab key to navigate to the desired entry.                        |
|                                                                              |
| Authentication Gateway URL : _____________________________________           |
| Server Key Password        : _____________________________________           |
| Keystore Path              : /usr1/dlc1/keys______________________           |
| No Host Verify (Y/N)       : N____________________________________           |
| Enable STS Key Plugin (Y/N): N____________________________________           |
| Polling interval (mins)    : 60___________________________________           |
|                                                                              |
|                                                                              |
|                                                                              |
|      [Enter=OK]  [CTRL-N=Cancel]  [CTRL-P=Help]                              |
+------------------------------------------------------------------------------+
```

Note: The **OpenEdge STS Client Key Management** dialog box appears only if you have selected YES in the **OpenEdge Gateway Client** dialog box.

Complete the installation

After you are satisfied with all your selections, you can review a comprehensive list of your installation choices and commit them to be installed from the **Complete Installation** dialog box.

```
+------------------------------------------------------------------------------+
|                          Complete Installation                               |
+------------------------------------------------------------------------------+
|                                                                              |
|The following products will be installed:                                     |
|'OE Auth Gateway', 'OE Adap Sonic ESB', 'OE Workgroup RDBMS', 'OE Personal    |
|RDBMS', 'Table Partitioning', 'Pro2 CDC Enterprise', 'OpenEdge JMS            |
|Adapter', 'SNMP Adapter', 'OpenEdge Repl Plus', 'OE CDC for Enterprise',      |
|'OE SQL Client Access', 'OE Multi-tenant Tables', 'Query/RESULTS',            |
|'OpenEdge Mgt. SE', 'Progress ProdAS for OE', 'Client Networking', 'OE Adv.   |
|Ent. RDBMS', 'OpenEdge Replication', 'OE CDC for Workgroup', 'Progress Dev    |
|AS for OE', 'OpenEdge TDE', '4GL Development System', 'Pro2 CDC Workgroup',   |
|'OE Enterprise RDBMS', 'OE DataServer for Orac'                               |
|                                                                              |
|Disk Space Required for Products: 1,661,730,816 bytes                         |
|Disk Space Required for Installation: 1,664,417,792 bytes                     |
|Disk Space Remaining After Installation: 1,571,173,433,344 bytes              |
|                                                                              |
|Selected Destination Path:  /usr/dlc                                          |
|                                                                              |
|Do you want to install the above listed product(s)?                           |
|                          [Y=YES] [N=NO] [H=Help]                             |
+------------------------------------------------------------------------------+
```

If you want to change your installation choices, press N.

To complete the installation procedure, perform the following steps:

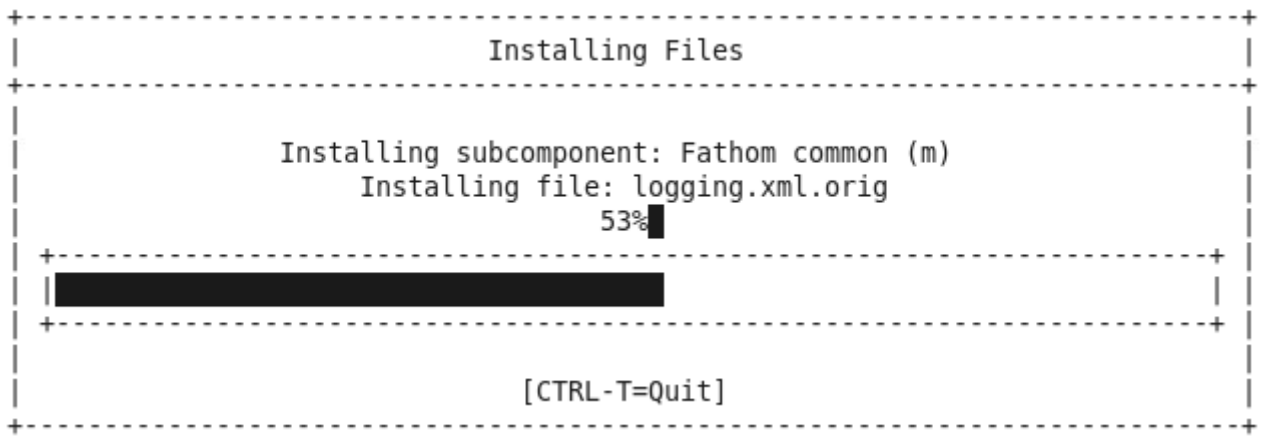
1. Press Y to confirm that you are satisfied with your choices.

   The Copy Scripts dialog box is displayed, prompting you to confirm that you want to copy OpenEdge product scripts and program modules to the default location `/usr/bin`. Copying scripts into this default location allows you to provide your company site's users access to these scripts.

```
+-----------------------------+
|        Copy Scripts?        |
+-----------------------------+
|                             |
|Copy the scripts to /usr/bin?|
|                             |
|   [Y=YES] [N=NO] [H=Help]   |
+-----------------------------+
```

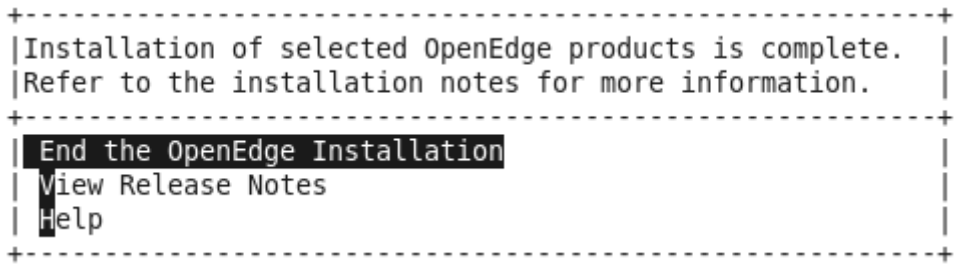
   Note: If you are maintaining two versions of OpenEdge on the same machine, press N to avoid overwriting files.

2. A series of message boxes are displayed showing installation progress.



You can press CTRL + T any time to terminate the installation.

3. When the installation is complete, the following message is displayed, giving you the option to view the Release Notes.



Note the following when installing OpenEdge in UNIX or Linux environments:

- If you have installed a SQL product, you must set your environment variables.

  For more information about setting environment variables to support a SQL product or to customize the variables to suit your own preferences, see “Database configuration and administration” in *Configure OpenEdge Components with OpenEdge Management*.

- To create customized product executibles, see “Building OpenEdge Executables” in *Manage ABL Applications*.

  Note that creating executables might be required for certain product configurations.

Create a custom installation bundle for UNIX or Linux machines

To install a specific set of OpenEdge products uniformly throughout multiple machines on your network, you can create an **installation bundle**. An installation bundle is a subset of the OpenEdge download image that contains the products for which you are licensed, and provides a convenient means to replicate an installation throughout your environment.

To create a custom installation bundle for UNIX or Linux machines, complete the following steps:

1. Open a command shell. Enter the `proinst -g` command and specify the OpenEdge media location. The **Welcome** dialog box appears. Press **Enter**.

```
/users/abc/openedge/120/cdimage/proinst -g
```

Note: Make sure that this path specifies the `cdimage` directory.

2. In the **Product Configuration Data** dialog box, enter the serial number and control codes for each product you want to include in the new installation bundle. The serial number and control codes indicate the products that are to be selected for the installation bundle. Enter **Ctrl+E** when done.
3. In the **Done Configuration Data Confirmation** dialog box, Enter **Y** to confirm.
4. In the **Bundle Location** dialog box, specify the directory where you want to create the new installation bundle. The new installation bundle is saved to this location. Press **Enter**.
5. In the **Summary** dialog box, Press **Enter**. A status message is displayed indicating that the bundle is being created. The **Finish** screen is displayed after the bundle is created. Press **Enter** to complete the process.

   The screen appears.

You can now run the OpenEdge installation from the new installation bundle location to install the selected products.

Install additional products later

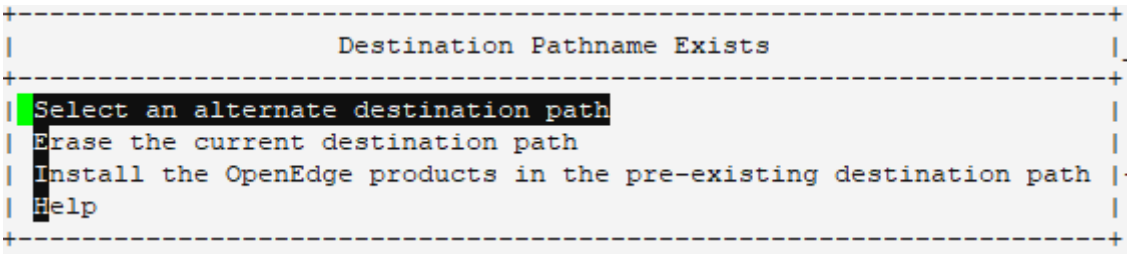
After OpenEdge is successfully installed, you can later choose to add additional products to your current installation.

To initiate this process, you must re-load your installation media. First complete the steps described in Launch the UNIX interactive installer on page 64, and then complete the steps described in the procedure that follows.

Note: When you add products to an existing installation, you can use the installation program in batch mode as long as you are performing a complete installation of the products you are adding. For more information about a batch installation, see Uninstall OpenEdge on UNIX and Linux on page 96 .

To install additional products when the Welcome dialog box appears, complete the following steps

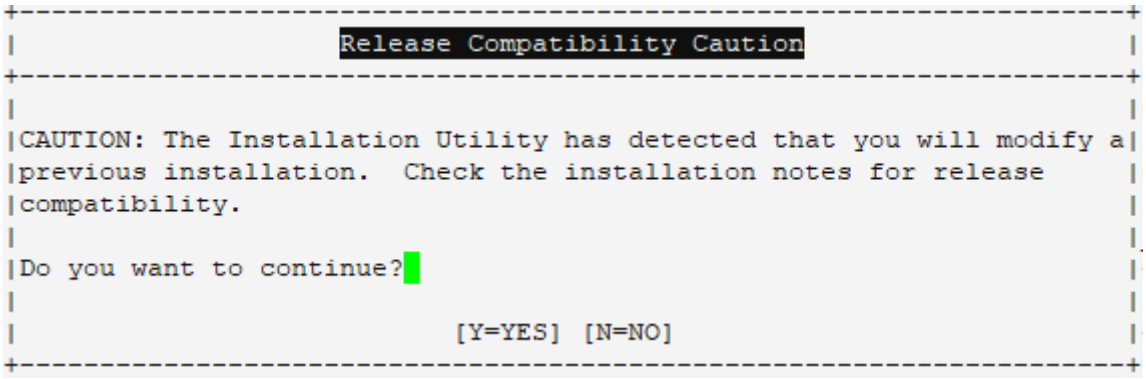
1. Press `RETURN` to continue. The **Serial & Control Numbers** dialog box appears.
2. Enter only the control numbers for the products you are adding to the list of previously installed products. When you are done, press `CTRL+E`.
3. In the **Done Configuration Data Confirmation** dialog box, Press `Y` to continue (or press `N` to add more products).
4. In the **Type Device and Destination** dialog box, choose **Select the Destination Path**, and specify the path of the initial installation. Press `RETURN`.



5. In the **Destination Pathname Exists** dialog box, choose **Install the OpenEdge products in the pre-existing destination path** and press RETURN to continue with the installation.

Note:

If you install products that affect previously installed products, you might see the following caution message:



6. Choose **Yes** to continue with the installation.

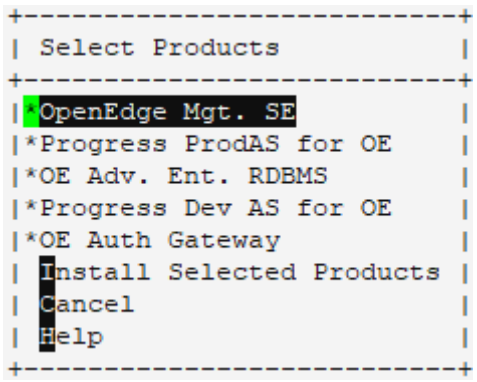
The installation program adds your OpenEdge products to your directories automatically.

Add components to an existing OpenEdge installation

You can add components and subcomponents to an existing OpenEdge installation without the need to enter any data other than the required components or subcomponents.

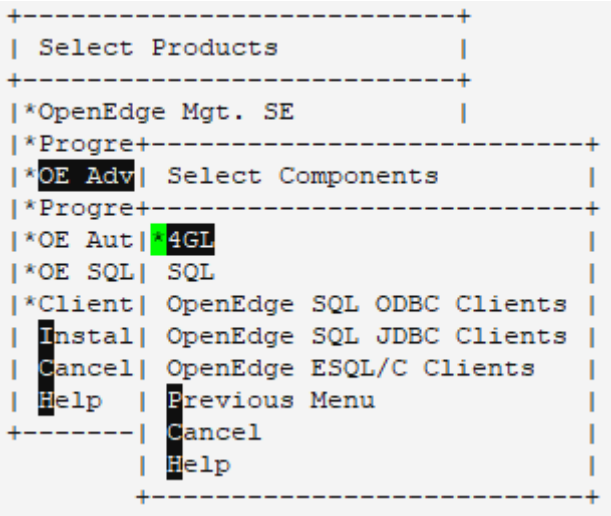
To add components or subcomponents, complete the following steps:

1. From a command shell, run the `proaddcomp` script that is located in *`destination-path`* directory. The **Select Products** dialog box is displayed.



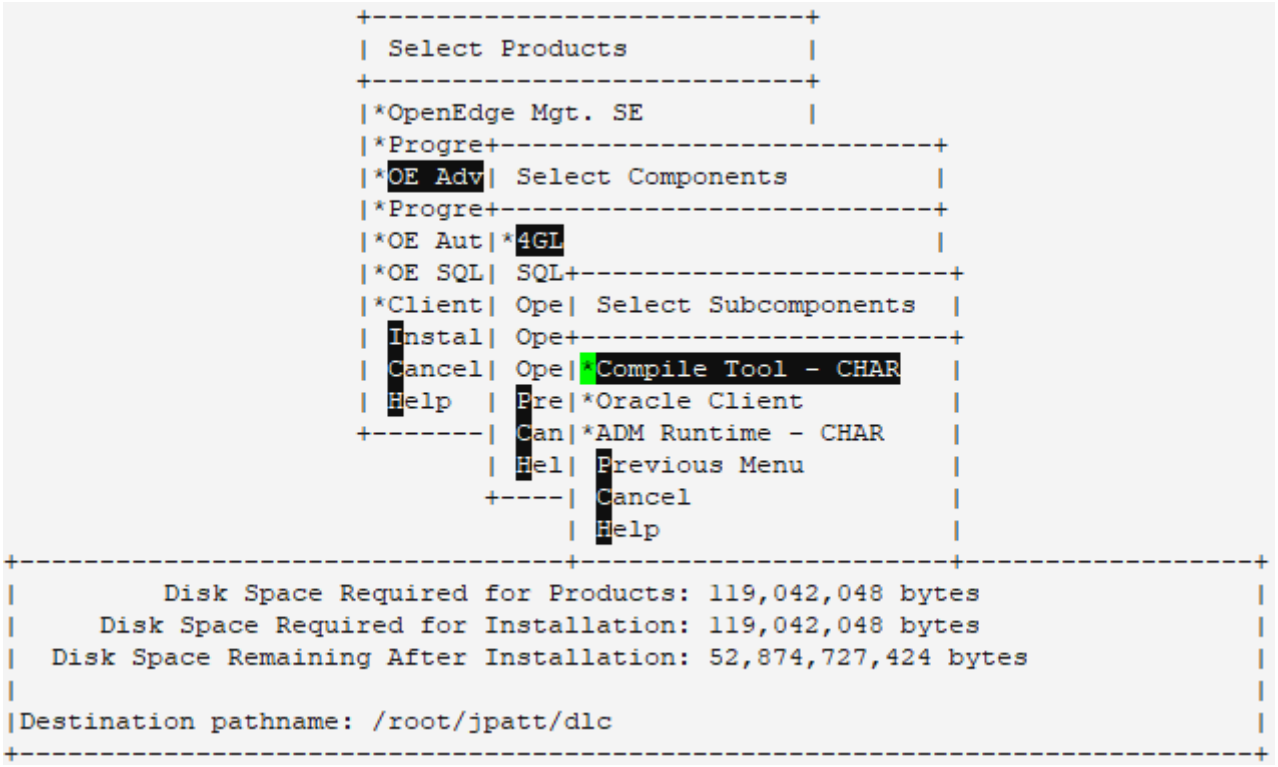
Note: All previously installed products appear on this list. The **Select Products** dialog box allows you to select and deselect OpenEdge products for which you want to add components or subcomponents.

2. Select or deselect a product by highlighting the product and pressing RETURN. An asterisk (*) indicates that a product is selected. To select the first product on the list, you must first press RETURN to deselect the product and then press RETURN again to select it.



Note: When you select a product, the **Select Components** dialog box is displayed. The **Select Subcomponents** dialog box lists the subcomponents for the component you selected. The symbol (r) indicates that a subcomponent is recommended and will be installed automatically unless you deselect it. Mandatory components are not displayed.

3. If the selected component has subcomponents, the **Select Subcomponents** dialog box appears.

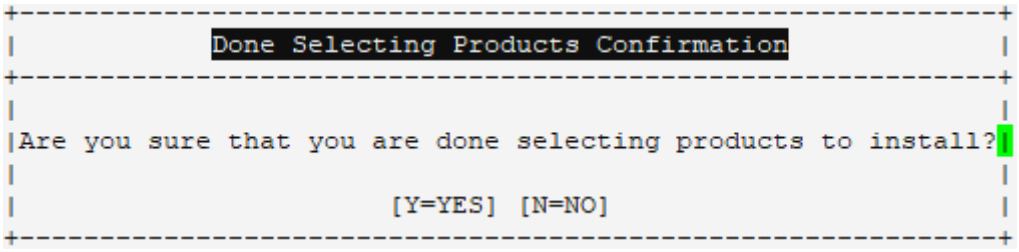


Note: The **Select Components** dialog box lists only those components that have not been previously installed. Select or deselect a component to install by highlighting the component and pressing RETURN. An asterisk (*****) indicates that a component is selected.

a) Select or deselect a subcomponent by highlighting the component and pressing RETURN. An asterisk (*****) indicates that a subcomponent is selected.

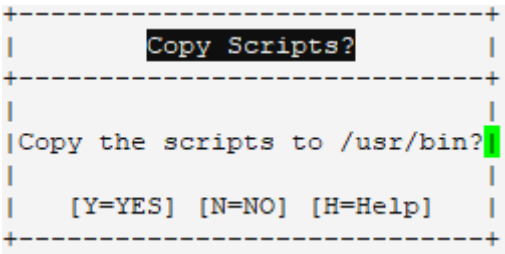
b) Choose **Previous Menu** and press RETURN when you have selected all the subcomponents you want to add.

4. Choose **Install Selected Products** from the **Select Products** dialog box and press RETURN.



5. In the **Done Selecting Products Confirmation** dialog box, type Y to continue with the installation, or N to select additional components or subcomponents.

   If you type Y, the **Copy Scripts?** dialog box is displayed:



Note: OpenEdge products consist of several scripts and program modules. When you install a product, the scripts are placed in the installation directory you specify.

6. Choose one of the following:

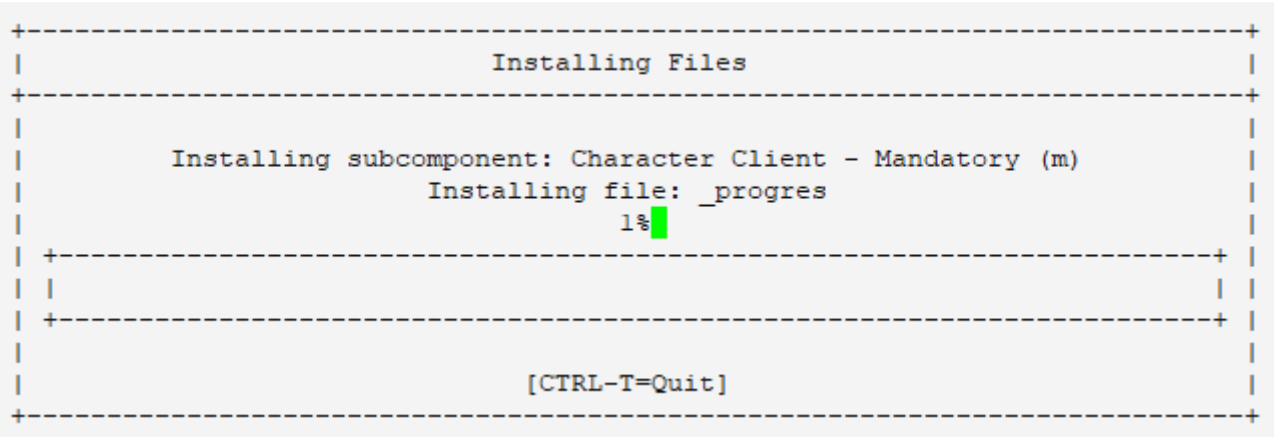
- To allow all users on your machine to run the product, respond **Yes** when prompted to copy the scripts to the `/usr/bin` directory. Type `Y` to have the installation program place OpenEdge scripts in the `/usr/bin` directory and in the destination directory you specified earlier.

  Caution: Answering `Y` might cause the OpenEdge installation program to overwrite existing executables in this directory.

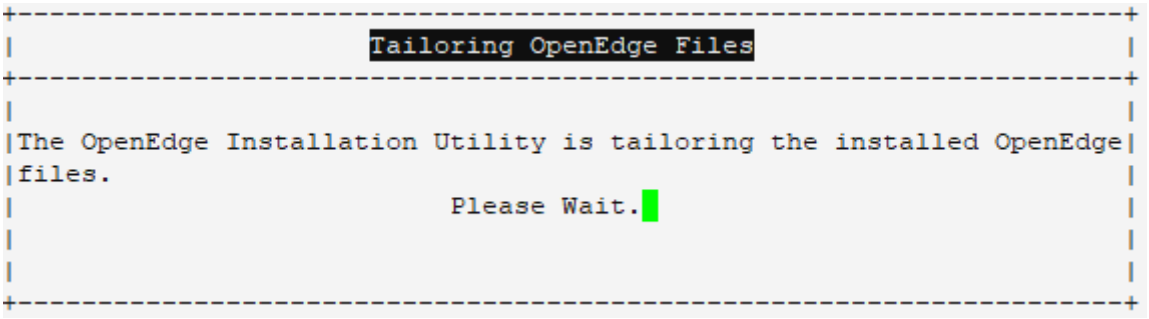
- Type `N` to place OpenEdge scripts in the destination directory that you specified earlier.

  Note: If you are maintaining two versions of OpenEdge on the same machine, answer `N` to this prompt.

While OpenEdge decompresses the files, the **Installing Files** dialog box is displayed:



While OpenEdge tailors the files, the **Tailoring OpenEdge Files** dialog box is displayed:



7. Press RETURN. When the installation is complete, OpenEdge displays the UNIX or Linux system prompt.

5

Create a Silent Installation

An interactive installation prompts you for input and records your values in a series of dialog boxes. The installation program immediately uses this data to install your OpenEdge products.

By contrast, a silent installation performs an installation entirely by script, and is a two-step process:

1. When you start an interactive installation, the data that you enter is recorded in a response file. On UNIX and Linux systems, the default name for the response file is `linuxx86_64.ini`. On Windows systems, by default, the file name is `response.ini`, which is created in the `install` subdirectory of your OpenEdge installation directory.

   Note: You can modify the contents of the response file that is generated by the installation program, and create your own response file from scratch. However, for silent installations, Progress recommends using only the automatically-generated and unmodified response file.

2. The installation data that is captured in a response file becomes available for play back to perform a silent installation through a batch mechanism.

You can create a silent installation as either a complete or a custom installation type. For more details see, Contents of the response file on page 82

Note: A supported Java SE Development Kit (JDK) must be installed on your machine prior to running the silent OpenEdge installation program. The JDK is not included with the OpenEdge software. Ensure that you edit the location of the directory in which the JDK is installed in the response file prior to the installation procedure. See Plan your installation on page 10 for more information.

Microsoft .NET Framework is not included with the OpenEdge software. Ensure that you install an appropriate version of Microsoft .NET Framework on the machine on which you are installing OpenEdge. Microsoft .NET Framework is required for smooth functioning of OpenEdge development products. For details about Microsoft .NET Framework versions and requirements, see the OpenEdge 12 Platform and Product Availablity Guide.

For details, see the following topics:

- Contents of the response file
- Run the silent installation on Windows platforms
- Run the silent installation on UNIX or Linux Machines

Contents of the response file

The data captured in the response file provides a detailed, reliable record of the installation choices made during an interactive installation.

The response file includes:

- A header identifying the OpenEdge version number and application details.
- Section labels defined by brackets for easy referencing.
- Each dialog box comment section that is identified with the label `DESCRIPTION` and the specific dialog box title.
- Legible descriptions of the fields of each dialog box.
- Only the values captured during the interactive install are stored in the response file. There is no extraneous content.
- Dialog boxes are sequenced in the same order as presented in the online installation.
- A complete list of products installed.

The response file that you create is never overwritten by subsequent silent installations. If you re-run the silent installation to add products to an existing installation, a new file is created with an integer suffix; for example, `response.ini.1`. Additional subsequent silent installations result in the response files named `response.ini.2`, `response.ini.3`, and so forth. All response files are created in your OpenEdge installation directory.

Ensure that you add the `IgnoreDOTNETWarning` property below the the **Serial Number And Control Codes** section of the response file. This property allows you to choose if you want to continue the OpenEdge silent installation with or without installing the Microsoft .NET Framework from the Microsoft website. The value of this property is set to `YES` by default which allows you to continue with the silent installation. You can set the value of this property to `NO` if you want the silent installation process to terminate automatically in absence of the Microsoft .NET Framework.

Note: Please note that OpenEdge can be installed even if you dont have a Microsoft .NET Framework on your machine. However, OpenEdge development components will not function till you download an appropriate version of Microsoft .NET Framework. For details about Microsoft .NET Framework versions and requirements, see the OpenEdge 12 Platform and Product Availablity Guide.

Note:

You can manually add the license addendum file path to the `response.ini` file by adding the `LicenseAddendumFile=` parameter after the `Serial Number And Control Codes Dialog` section. When the silent installation is run, the license gets added automatically.

Modify the data input option

You can edit any response file, whether it is automatically generated or one that you create. Although all sections of the response file are required, you do not need to add each of these required sections in the order presented. The installer retrieves only the specific data it needs, regardless of where the information is located in the response file.

Modify the data input option

You can edit any response file, whether it is automatically generated or one that you create. Although all sections of the response file are required, you do not need to add each of these required sections in the order presented. The installer retrieves only the specific data it needs, regardless of where the information is located in the response file.

Run the silent installation on Windows platforms

The command you use to initiate, or play back, the response file is the same regardless of which data input option you choose. The OpenEdge silent installer runs without intervention after you enter the command to start the process.

Syntax

```
path-to-install-media\setup.exe -psc_s [-notify]
-psc_f1=path\response-file [-psc_f2=path\logfile]
```

path-to-install-media`\setup.exe`

Runs an OpenEdge installation. You can run the installation from the directory that contains the installation executable that you downloaded from the Progress Download Center.

`-psc_s`

Specifies a silent installation.

`-notify`

Specifies that the installation dialog boxes that are displayed are to contain details about the current installation phase and percent complete. (This argument is supported for backward compatibility only.)

Progress recommends that you set up your installation to poll the log file for status of the installation. You can programmatically set up a query, checking the Runtime Status and Result Code values in the log file. See Check the status of the silent installation log file on page 84 to review the contents of a sample `oesetup.log` file that contains Runtime Status and Result Code details.

`-psc_f1=`*`path\response-file`*

Specifies the full path of the response file. By default, the silent installation searches for the response file `oesetup.ini` in the same directory in which `setup.exe` is located.

`-psc_f2=`*`path\logfile`*

Creates an installation log file. If no path or name is specified, the file `oesetup.log` is created in the `Windows` directory by default.

Note: Make sure that no space characters are inserted between a command line argument and its options. Command line entries and options are case sensitive.

Example

The following is an example command that executes a silent installation:

```
\\cd-server\OpenEdge\setup.exe
-psc_s -psc_f1=C:\SilentInstalls\response.ini
    -psc_f2=C:\SilentInstalls\oesetup.log
```

Check the status of the silent installation log file

The silent installation process automatically generates a log file, in which all messages—error and successful installation—are reported.

A log file, `oesetup.log`, is automatically generated for the OpenEdge installation. The data captured in this log contains status information that you can query at run time. The `oesetup.log` file can also be used to debug a silent installation.

Note: In case of a failed silent installation, an error message is recorded in the `oesetup.log` file along with a return code. The value of result code varies on the type of error encountered. An example of the error log in the `oesetup.log` file is as follows:

```
InstallShield failed (resultcode = xx)"
```

See Return Values and Run-Time Errors for common result code values.

An initial `oesetup.log` file is created when you perform a silent installation. If you re-run the silent installation, subsequent `oesetup.log` files are automatically created and saved as `oesetup.log.1`, `oesetup.log.2`, `oesetup.log.3`, and so forth. In all cases, by default the file is created in the `C:\Windows` directory.

An excerpt from an example `oesetup.log` file follows:

oesetup.log

```
[Installshield]
Version=22.0.0.330
[Application]
Name=OpenEdge
Version=12.4ALPHA
Company=Progress Software
[CompletedEvents]
Event11=[8-6-2019 11:25:07] The Setup Utility has checked the system requirements.
Event12=[8-6-2019 11:25:33] C:\Program Files\Java\jdk11.0.6\bin\java.exe /c "C:\Program
Files\Java\jdk11.0.6\bin\java.exe" -version 2>
C:\Users\rhys\AppData\Local\Temp\{DA740AC5-2B5F-40B3-81AC-117105D7747A}\{D8DF1BF8-9954-4270-8431-8EDFC1B8496
Event13=[8-6-2019 11:25:33] Command Executed successfully: cmd /c "C:\Program Files\Java\jdk11.0.6\bin\ja
-version 2>
C:\Users\rhys\AppData\Local\Temp\{DA740AC5-2B5F-40B3-81AC-117105D7747A}\{D8DF1BF8-9954-4270-8431-8EDFC1B8496
Event14=[8-6-2019 11:25:33] Read - java version "jdk11.0.6"
Event15=[8-6-2019 11:25:33] Found 11


[RuntimeStatus]
Progress=99

[PasExtraction]
Started=[08-06-2019 11:29:11]
Completed=[08-06-2019 11:29:15]
[SystemFiles]
File1=[8-6-2019 11:29:16] C:\WINDOWS\system32\pstimer.ocx was successfully installed.
File2=[8-6-2019 11:29:17] C:\WINDOWS\system32\pstimer.chm was successfully installed.
File3=[8-6-2019 11:29:17] C:\WINDOWS\system32\evntlog.dll was successfully installed.
File4=[8-6-2019 11:29:17] C:\Program Files\Common Files\Progress Software\12\prox.dll was successfully in
File5=[8-6-2019 11:29:17] C:\Program Files\Common Files\Progress Software\PSCCab.dll was successfully ins
File6=[8-6-2019 11:29:17] C:\WINDOWS\system32\evntlog.dll was successfully installed.

[FilesTailored]
File1=[08-06-2019 11:30:09] C:\Progress\OpenEdge\prolang/ame/progress.ini has been tailored successfully.
File2=[08-06-2019 11:30:09] C:\Progress\OpenEdge\bin/OE_TC.bat has been tailored successfully.
File3=[08-06-2019 11:30:09] C:\Progress\OpenEdge\bin/proant.bat has been tailored successfully.
File4=[08-06-2019 11:30:10] C:\Progress\OpenEdge\bin/proenv.bat has been tailored successfully.
File5=[08-06-2019 11:30:10] C:\Progress\OpenEdge\bin/progress.ini has been tailored successfully.


[DeltaFilesMerged]
File1=[08-06-2019 11:30:39] C:\Progress\OpenEdge\PROPER~1\delta\replication.delta has been merged success

[TailoringExtensions]
command1=[08-06-2019 11:30:39] C:\Progress\OpenEdge\servers\pasoe\bin\openedge_tailor.bat -v -Z dev -M -O
C:\PROGRA~1\Java\JDK11~0.6 -D C:\Progress\OpenEdge -W C:\OpenEdge\WRK > C:\Progress\OpenEdge\install\sp_pasoe_
 2>C:\Progress\OpenEdge\install\sp_pasoe_tailor_stderr.log

Extension2=[08-06-2019 11:31:01] C:\Progress\OpenEdge\bin\ntsrvtlr.dll has been executed successfully.
Extension3=[08-06-2019 11:31:01] C:\Progress\OpenEdge\bin\prodbgtlr.dll has been executed successfully.
Extension4=[08-06-2019 11:31:01] C:\Progress\OpenEdge\bin\psi_tlr.dll has been executed successfully.

[PreCleanupTailoring]
Start=[08-06-2019 11:30:57]

[TailoringClasses]
Start=[08-06-2019 11:31:01]
Finish=[08-06-2019 11:31:13]

[PostCleanupTailoring]
Start=[08-06-2019 11:31:13]
[InstalledShortcuts]
Shortcut1=[8-6-2019 11:31:52] Proenv
Shortcut2=[8-6-2019 11:31:53] Information Hub
Shortcut3=[8-6-2019 11:31:54] Add Components
Shortcut23=[8-6-2019 11:32:12] Uninstall OpenEdge
[Reboot]
Required=no
```

```
[ResponseResult]
ResultCode=0
ResultDescription=Installation completed successfully.
```

Optional data input activities

The following optional activities are also supported when you are performing a silent installation. Create the response file using the automatic method described in Contents of the response file on page 82. Keep in mind that creating the response file manually or editing the response file is the more time-consuming and potentially error-prone approach.

Create a data input option

You can choose to record a separate response file any time you perform an interactive installation. If you do not specify a file name for the response file that you create, the install provides the filename `oe-response.ini` and stores it in `C:\Windows\oe-response.ini`. The format and structure of any data input option is identical to that which is presented in the automatically-generated `response.ini` file.

The syntax for initiating the user-defined response file is:

Syntax

```
path-to-install-media\setup.exe
-psc_r [-psc_f1=\path\response-file]
```

Note: Do not leave a space between command line entries and options. Command line entries nor options are case sensitive.

`path-to-install-media` `\setup.exe`

Runs an OpenEdge installation. The *`path-to-install-media`* argument indicates that you can run the installation from the installation executable downloaded with your product from the Progress Download Center. The `setup.exe` argument identifies the specific OpenEdge installation executable.

`-psc_r`

Specifies record mode.

`-psc_f1=`*`path\response-file`*

Creates a response file in the directory represented by *`path`*. By default, the installation searches for the response file named `oe_setup.ini` in the same directory in which the `setup.exe` file is located.

Install the Code Analyzer for ABL

The installation of Code Analyzer for ABL, which is an optional component of Progress Developer Studio for OpenEdge, cannot be included in a silent installation script. If you want to install Code Analyzer for ABL, then you must do it in a separate step after the silent installation is complete.

To install Code Analyzer for ABL, complete the following steps:

1. Open a command window, and change to `install\CABL` subdirectory of the OpenEdge installation directory.
2. Enter the following command, specifying the full path of your OpenEdge installation directory:

```
CABL.exe -v" INSTALLDIR=\"OpenEdge-install-dir\""
```

   For example:

```
C:\Progress\OpenEdge\install\CABL> CABL.exe -v" INSTALLDIR=\"C:\Progress\OpenEdge\""
```

Create a data input option

You can choose to record a separate response file any time you perform an interactive installation. If you do not specify a file name for the response file that you create, the install provides the filename `oe-response.ini` and stores it in `C:\Windows\oe-response.ini`. The format and structure of any data input option is identical to that which is presented in the automatically-generated `response.ini` file.

The syntax for initiating the user-defined response file is:

Syntax

```
path-to-install-media\setup.exe
-psc_r [-psc_f1=\path\response-file]
```

Note: Do not leave a space between command line entries and options. Command line entries nor options are case sensitive.

path-to-install-media `\setup.exe`

Runs an OpenEdge installation. The *path-to-install-media* argument indicates that you can run the installation from the installation executable downloaded with your product from the Progress Download Center. The `setup.exe` argument identifies the specific OpenEdge installation executable.

`-psc_r`

Specifies record mode.

`-psc_f1=`*path\response-file*

Creates a response file in the directory represented by *path*. By default, the installation searches for the response file named `oe_setup.ini` in the same directory in which the `setup.exe` file is located.

Install the Code Analyzer for ABL

The installation of Code Analyzer for ABL, which is an optional component of Progress Developer Studio for OpenEdge, cannot be included in a silent installation script. If you want to install Code Analyzer for ABL, then you must do it in a separate step after the silent installation is complete.

To install Code Analyzer for ABL, complete the following steps:

1. Open a command window, and change to `install\CABL` subdirectory of the OpenEdge installation directory.
2. Enter the following command, specifying the full path of your OpenEdge installation directory:

```
CABL.exe -v" INSTALLDIR=\"OpenEdge-install-dir\""
```

For example:

```
C:\Progress\OpenEdge\install\CABL> CABL.exe -v" INSTALLDIR=\"C:\Progress\OpenEdge\""
```

Run the silent installation on UNIX or Linux Machines

The command you use to initiate, or play back, the response file is the same regardless of the data input you use. After you enter the command to start a silent installation, the OpenEdge Silent installation program runs without your intervention.

The syntax for running the OpenEdge Silent installation program in batch mode follows:

Syntax

```
proinst -b path/install-ini-name -l path/logfile [-n]
```

`proinst`

Command that initiated an OpenEdge installation.

`-b` *`path/install-ini-name`*

Performs a batch installation, specifying the full path of the `.ini` file to be used for the silent installation. You can use the `response.ini` file, the `install.ini` file or another `.ini` file that you create.

`-l` *`path/logfile`*

Creates a log file, optionally specifying the full path of the log file in which the installation events are logged. By default, the log file `install.log` is created in the directory identified by the first environment variable that the installer finds among the following: `$TMP`, `$TEMP`, or `$TMPDIR`.

`-n`

Specifies that the batch installation includes a progress indicator, displaying details about the current installation phase and completion status.

Example

The following command executes silent installation on UNIX platform:

```
proinst -b /test/install.ini -l /log/test.log
```

Check the status of the silent installation log file

The silent Installation process automatically generates a log file, in which all messages—error and successful installation—are reported.

The following is an example excerpt from the OpenEdge installation log file:

Sample OpenEdge installation log file

```
[Application]
Name=OpenEdge
Version=12.4
Company=PSC

[ResponseResult]
ResultCode=0
ResultDescription=The install completed successfully.

OPENEDGE INSTALL UTILITY LOG <VERSION 12.4ALPHA> (Wed Aug 14 13:13:07 2019)
The JavaHome path provided: /usr/bin/jdk11.0.4_X64


[CompletedEvents]
Event1=[08-14-2019 13:13:07] The Setup Utility is extracting archives

Event2=[08-14-2019 13:14:00] The Setup Utility has extracted archives
Event3=[08-14-2019 13:14:02] The Setup Utility has tailored files.
Event4=[08-14-2019 13:14:03] The Setup Utility has merged delta files.
[RuntimeStatus]
Progress=98

[PasExtraction]
Started=[08-14-2019 13:13:55]
Completed=[08-14-2019 13:14:00]

[UpdateUnixRegistry]
File=[08-14-2019 13:14:00] /etc/progress has been updated successfully.

[FilesTailored]
File1=[08-14-2019 13:14:00] /usr/dlc/bin/configutil has been tailored successfully.
File2=[08-14-2019 13:14:00] /usr/dlc/properties/java.properties has been tailored
successfully.
File3=[08-14-2019 13:14:00] /usr/dlc/version has been tailored successfully.
.
.
.
[DeltaFilesMerged]
File1=[08-14-2019 13:14:03] /usr/dlc/properties/delta/replication.delta has been merged
 successfully.

[TailoringExtensions]
command1=[08-14-2019 13:14:08] JAVA_HOME=/usr/bin/java/jdk11.0.4_X64;export
JAVA_HOME;/usr/dlc/servers/pasoe/bin/openedge_tailor.sh -v -Z dev -M -O -X
/usr/bin/java/jdk11.0.4_X64 -D /usr/dlc -W /scratch/jpatt/wrk >
/usr/dlc/install/sp_pasoe_tailor.log 2>&1

Extension2=[08-14-2019 13:14:16] /usr/dlc/bin/prodbgtlr.dll has been executed
successfully.
Extension3=[08-14-2019 13:14:16] /usr/dlc/bin/rptlr.dll has been executed successfully.
command4=[08-14-2019 13:14:33] JAVA_HOME=/usr/bin/java/jdk11.0.4_X64;export
JAVA_HOME;/usr/dlc/servers/pasoe/bin/tcman.sh create -R -v -p 8810 -P 8811 -s 8812 -f
/usr/wrk/oepas1 > /usr/dlc/install/tcman_create.log 2>&1
szRegCommand5=
[TailoringClasses]
Start=[08-14-2019 13:14:16]
Finish=[08-14-2019 13:14:28]

[Post Cleanup Tailoring]
Start=[08-14-2019 13:14:28]
```

Optional data input activities

The following optional activities are also supported when you are performing a silent installation on UNIX or Linux platforms. However, keep in mind that creating the response file manually or editing the response file is a more time-consuming and potentially error-prone approach than creating it using the automatically-generated response file method described in Contents of the response file on page 82.

Create a data input option

You can choose to record a separate response file any time you perform an interactive installation. All your installation choices are automatically recorded in a user-defined response file. If you do not specify a filename, the install creates the file `$TEMP/install.ini`.

The format and structure of any data input option is identical to that which is presented in the automatically-generated `response.ini` file.

Use the following syntax to initiate a response file:

```
proinst -r [<path>\response-file]
```

`proinst`

Initiates an OpenEdge installation.

`-r path/response-file`

Specifies that the installation is in record mode, and specifies the path and file name for the data input file to be created. If you do not specify a file name, the installation creates the file `install.ini` it in the directory represented by the `$TEMP` environment variable.

Address a detected JVM version

If you receive a warning message at the beginning of your installation stating that the detected JVM version does not match the version supported by OpenEdge, you can add an entry in the `.ini` file to allow batch installs to override this warning. Add the following entry to the `[java]` section of the `.ini` file if you want the installation to continue after detecting a mismatched JVM version:

```
jvmAllowUnSupported=yes
```

Create a data input option

You can choose to record a separate response file any time you perform an interactive installation. All your installation choices are automatically recorded in a user-defined response file. If you do not specify a filename, the install creates the file `$TEMP/install.ini`.

The format and structure of any data input option is identical to that which is presented in the automatically-generated `response.ini` file.

Use the following syntax to initiate a response file:

```
proinst -r [<path>\response-file]
```

`proinst`

Initiates an OpenEdge installation.

`-r path/response-file`

Specifies that the installation is in record mode, and specifies the path and file name for the data input file to be created. If you do not specify a file name, the installation creates the file `install.ini` it in the directory represented by the `$TEMP` environment variable.

Address a detected JVM version

If you receive a warning message at the beginning of your installation stating that the detected JVM version does not match the version supported by OpenEdge, you can add an entry in the `.ini` file to allow batch installs to override this warning. Add the following entry to the `[java]` section of the `.ini` file if you want the installation to continue after detecting a mismatched JVM version:

```
jvmAllowUnSupported=yes
```

6

Uninstall OpenEdge

When you uninstall OpenEdge on Windows, UNIX, or Linux platforms, you delete all the files in the OpenEdge installation directory. On Windows platforms, the uninstall program also removes the configuration information from the registry so that no conflicts occur with subsequent OpenEdge installations.

On UNIX and Linux platforms, if you installed OpenEdge Management, then you must stop the OpenEdge Management Trend Database before uninstalling.

For details, see the following topics:

- Uninstall OpenEdge on Windows
- Uninstall OpenEdge on UNIX and Linux

Uninstall OpenEdge on Windows

When you delete files from the OpenEdge directory tree, you only partially remove an OpenEdge installation. By contrast, the Uninstall utility removes all OpenEdge files as well as the configuration information from the registry. This prevents conflict with subsequent OpenEdge installations.

Running the Uninstall utility removes configuration information from the registry and prevents conflict with subsequent OpenEdge installations.

Caution: When uninstalling, do not delete any of the following Microsoft system files: `asycfilt.dll`, `comctl32.ocx`, `ctl3d32.dll`, `mfc70.dll`, `mfc71.dll`, `mfcans32.dll`, `mscomctl.ocx`, `msvci70.dll`, `msvcp71.dll`, `msvcr.70.dll`, `msvcr71.dll`, `oc30.dll`, `oleaut32.dll`,`olepro32.dll`, `pdh.dll`, `psapi.dll`, `stdole2.tlb`. These system files are common to other applications, and deleting them might adversely affect the operation of the other applications that use them. To avoid deleting these system files while running the Uninstall utility, choose **No** in response to the prompts at the end of the uninstall process. If you have installed the OpenEdge Ultra Controls for .NET, do not uninstall the Infragistics NetAdvantage with Add/Remove Programs.

To uninstall OpenEdge on Windows machines, complete the following steps

1. Log in under the same domain and user name you used when you installed OpenEdge.
2. Make sure that OpenEdge is not running in an open DOS window, and that the current directory is not any OpenEdge-related directory.
3. Stop all OpenEdge processes, including your web server, and close all OpenEdge help files. Use the Task Manager to ensure that you stop all processes and close all help files.
4. Using the OpenEdge Management, shut down all OpenEdge services, including database servers.
5. If you have installed OpenEdge Management, stop the OpenEdge Management Trend Database.

   You can use OpenEdge Management or the following command:

   ```
   dbman -stop FathomTrendDatabase
   ```

   The AdminServer must be running to stop the OpenEdge Management Trend Database.

   If you receive a warning during the uninstall that `fathom.db` is in use, the OpenEdge Management Trend Database has not been stopped.
6. From the Windows desktop, select **Start** > **Settings** > **Control Panel** > **Administrative** > **Services** > **Tools**.
7. Highlight the **Progress OpenEdge AdminServer Service** , and choose **Stop**. Change the startup from **Automatic** to **Manual**, and choose **OK**.

   Note: If these same services will be required for a new installation, be sure to note any configuration settings, agent parameters, and so on.
8. Choose the **Uninstall** icon in the OpenEdge Program Group. Choose **Yes**.
9. Choose **OK** when the deletion process is complete. If the uninstall is successful, you are done.

Note: The OpenEdge uninstall does not remove the Microsoft .NET framework. If OpenEdge installed the Infragistics NetAdvantage product, OpenEdge uninstalls it during the execution of the OpenEdge uninstall. If the Infragistics product was installed independent of OpenEdge, OpenEdge does not uninstall it.

For additional details about uninstalling OpenEdge, see the Progress Information Hub.

Uninstall OpenEdge on UNIX and Linux

The `uninstall` script consolidates and formalizes the actions required to remove an OpenEdge installation from all supported UNIX or Linux operating systems. The `uninstall` script is located in the `install` subdirectory of *`OpenEdge-install-dir`*.

If you installed OpenEdge Management, stop the OpenEdge Management Trend Database before uninstalling. You can use OpenEdge Management, or the following command:

```
dbman -stop FathomTrendDatabase
```

The AdminServer must be running to stop the OpenEdge Management Trend Database. If you receive a warning during the uninstall that `fathom.db` is in use, the OpenEdge Management Trend Database has not been stopped.

Caution:

If you want to save trending data, be sure to copy the *`OpenEdgeManagement-install-dir/`*`db` before removing OpenEdge Management.

If you want to save all the customized monitoring plan and resource definition information, be sure to copy *`OpenEdgeManagement-install-dir/`*`config/fathom.odb` before removing OpenEdge Management.

The command to uninstall OpenEdge on UNIX and Linux systems has the following syntax:

```
OpenEdge-install-dir/install/uninstall
```

Progress recommends using the `uninstall` script to ensure that the following uninstall processes occur properly:

- Uninstall third-party, embedded products.
- Remove release-specific entries from the `/etc/progress` file and `/etc/ProDbgCK` (Progress Debugger Check) files, and remove the OpenEdge installation directory. In addition, the `uninstall` script creates an `OE`*`version`*`uninst.log` file in the home directory.

7

After You Install

After the installation program is finished, complete the following tasks to begin using OpenEdge:

1. Create a database.

   See 'Create and Delete Databases' in *Manage the OpenEdge Database*.

2. Start the database.

   See 'Start Up and Shut Down' in *Manage the OpenEdge Database*.

3. Create a Progress Application Server (PAS) for OpenEdge instance.

   - If you installed Progress **Development** Application Server for OpenEdge, a PAS for OpenEdge instance is already created.
   - If you installed Progress **Production** Application Server for OpenEdge, you must create a PAS for OpenEdge instance.

     See 'Create a PAS for OpenEdge instance' in *Manage Progress Application Server (PAS) for OpenEdge with OpenEdge Management*.

4. Start PAS for OpenEdge.

   See 'Start or stop a PAS for OpenEdge instance' in *Manage Progress Application Server (PAS) for OpenEdge with OpenEdge Management*.

8

Run the Microsoft Windows Installer Package for Client Networking

OpenEdge includes the Microsoft Windows Installer package for OpenEdge client networking. You can run the installer interactively or in silent mode. By creating a script to run the installer in silent mode, you can distribute and maintain client networking throughout your environment quickly and easily.

The Windows Installer package for client networking is available in both 32-bit and 64-bit versions from the Progress Software Download Center. For complete information, see the OpenEdge 12 Platform and Product Availability Guide on Progress Information Hub

Install client networking interactively

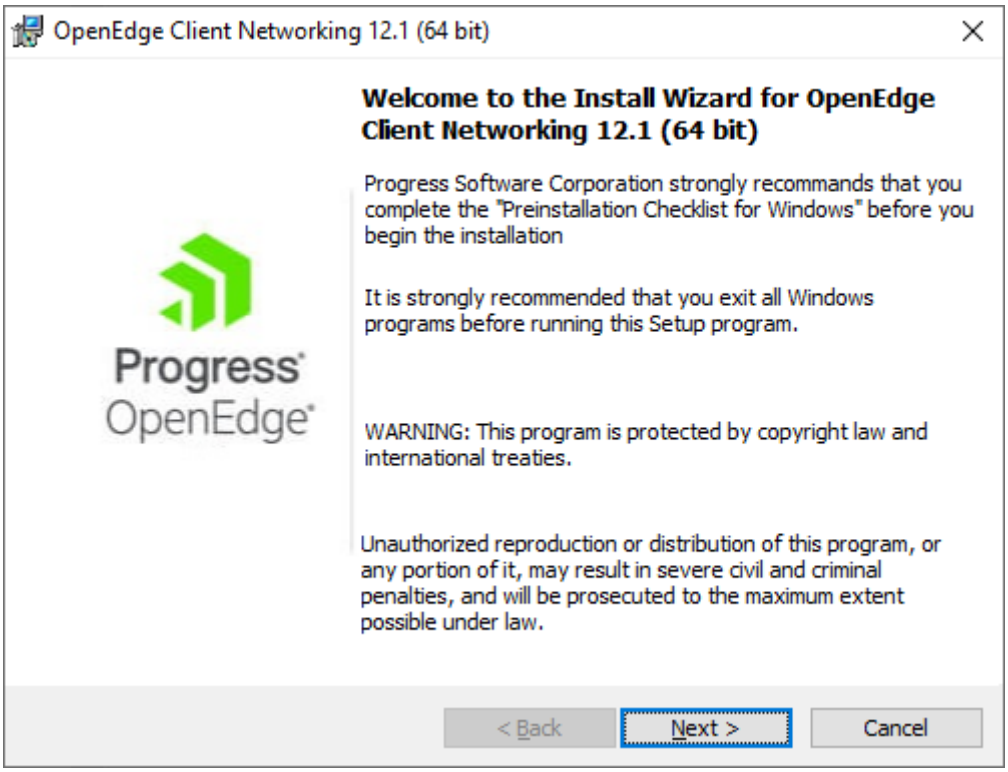
To launch the Windows Installer package, you must have administrator privileges on the machine where you are installing the client networking software. For information about planning your installation, see Before You Install on page 9.

Use the Windows Installer package to:

1. Close all applications before launching the installer.

   Running applications or tasks may interfere with the installation because they could use files that OpenEdge needs to complete the installation. Stop any processes that are running and close any files that are located in the same directory where you want to install client networking.

2. Find the `PROGRESS_OE_12.1_WIN_`*`nn`*`_CLIENTNETWORKING.exe` file and launch it. The **Welcome** dialog box is displayed. Click **Next**.



3. In the **Choose Java Home** dialog box, click **Browse**, and find the location of the JDK installation for the **Java Home Directory**. Click **Next**.
4. In the **License Agreement** dialog box, select the option to accept the license agreement, and click **Next**.

   If the client networking software is not already installed, the **Choose Destination and Working Path Directories** dialog box is displayed.

   If the client networking software is already installed, then the **Program Maintenance** dialog box is displayed, enabling you to change, repair, or uninstall client networking.
5. After you choose the destination and working directories for the client networking software, click **Next**.
6. In the **Language Choice** dialog box, select the language you want your messages to appear in, and click **Next**.
7. In the **International Settings** dialog box, select the options you want for the following, and click **Next**:
   - Character set, collation, and case
   - Date format
   - Number format
8. When you are satisfied with your choices, click **Install**.

   The installation may take several minutes.
9. When the the installation is complete, click **Finish**.
10. To license the software, generate the OpenEdge configuration file, `progress.cfg`, and move it the same directory where you installed the client networking software. For more information, see Obtain the progress.cfg file.

Note: If you put the configuration file in a directory other than the one where the client networking software is installed, then add the PROCFG environment variable and set the complete path of the configuration file (`progress.cfg`) as the value of PROCFG.

Install client networking in silent mode

You can run the Windows Installer package for client networking in silent mode by executing the following command and setting these properties:

```
PROGRESS_OE_12.1_WIN_nn_CLIENTNETWORKING.exe /v "/l*v [logfile.log]
INSTALLDIR=ClientNetworking-install-path
WRK=ClientNetworking-work-path
JAVAHOME=JDK-install-path
PSCLANGUAGE=psc-language
DEFAULTLANGUAGE=default-language
DEFAULTCOUNTRY=country-name
CHARACTERSET=charset
COLLATION=value
CASE=caseset
NUMBERFORMAT=number-format
NUMBERSEPARATOR=separator
NUMBERDECIMALPOINT=decimal
DATEFORMAT=date-format /qb"
```

In the previous command:

- The *logfile*.log parameter is the full path for an optional log file.
- The properties you specify are described in the following table:

Property name	Description
INSTALLDIR	Fully qualified path to the directory in which the OpenEdge client networking software is installed.
WRK	Fully qualified path to your working directory.
JAVAHOME	Fully qualified path to your Java install directory.

Property name	Description
PSCLANGUAGE	Additional languages that can be used in messages generated by the client networking software. Valid values are: • cze • dut • ame • eng • fre • ger • ita • pol • por • brz • spa • sla • swe • sch
DEFAULTLANGUAGE	Default language to be used in messages generated by the client networking software.

Property name	Description
DEFAULTCOUNTRY	Nation where the client networking software is installed. Valid values are: • Australia • Austria • Belgium • Brazil • Canada • Czech_Republic • Finland • France • Germany • Italy • Netherlands • Poland • Portugal • Spain • Sweden • Switzerland • United_Kingdom • United_States
CHARACTERSET	Character set used by the default language. Aligns with the -cpinternal and -cpstream values included in the $DLC/startup.pf file.
COLLATION	Sorting rules and accent sensitivity properties that correspond to the default language. Aligns with the -cpcoll value included in the $DLC/startup.pf file.
CASE	Distinction between uppercase and lowercase letters that correspond to the default language. Aligns with the -cpcase value included in the $DLC/startup.pf file.

Property name	Description
NUMBERFORMAT	Character format used to store, manage and display numeric data as per the international convention. Valid values are: • 1'234,56 (apostrophe, comma) • 1'234.56 (apostrophe, period) • 1,234$56 (comma, dollar) • 1,234.56 (comma, period) • 1.234,56 (period, comma) • 1.234$56 (period, dollar) • 1 234,56 (space, comma) • 1 234.56 (space, period) • 1 234,56 (non-breaking space, comma) • 1 234.56 (non-breaking space, period)
NUMBERSEPARATOR	Character used to separate the different groupings of digits (hundreds, thousands). Valid values are: • 32—Space • 36—Dollar • 39—Apostrophe • 44—Comma • 46—Period • 160—Non-breaking space
NUMBERDECIMALPOINT	Character used to separate the integer segment from the fractional segment of a number. Valid values are: • 32—Space • 36—Dollar • 39—Apostrophe • 44—Comma • 46—Period • 160—Non-breaking space
DATEFORMAT	Date format value that aligns with the -d value included in the $DLC/startup.pf file

Change, repair, or remove the client networking software

If the client networking software is already installed on your machine, you can run the Windows Installer package to change, repair, or remove client networking. Launch the installer as described in Run the Microsoft Windows Installer Package for Client Networking, and make your changes.

When you uninstall the client networking software on Windows platforms, you delete all the client networking files in the OpenEdge installation directory. Uninstalling client networking also removes the configuration information from the registry so that no conflicts occur with subsequent OpenEdge installations.

9

Manage Installation Configurations

You can use the configutil utility to export the configuration of a source installation and import it to a different OpenEdge installation on the same or different machine.

When you install OpenEdge, the configuration information is stored in separate configuration files. This utility helps you to capture all installation configuration information and uses it to automatically configure another OpenEdge installation on the same or a different machine.

This command-line utility is available as configutil.bat file for Windows and as a shell script for UNIX in the *install-dir*/bin location. You can run the utility from the proenv shell.

Operating system	Syntax
UNIX Windows	configutil *operation* [*option*] *operation*: export [*option*] import -backupfile *backup zip path* undoimport -importbackupfile *import backup zip path* help [export | import | undoimport] Use help for detailed usage

The configutil utility does not support the following:

- Exporting from OpenEdge 64-bit and importing into OpenEdge 32-bit, and vice-versa
- Exporting from a Windows machine and importing into a UNIX machine, and vice-versa
- Exporting property settings containing non-ascii characters

For details, see the following topics:

- Configutil operations
- Configutil properties file
- OVERRIDE_PATHS and OVERRIDE_HOSTNAME properties
- FORCE_OVERRIDE
- DONT_OVERRIDE
- Export and import registry entries based settings
- Exporting and Importing XML files-based settings
- Logging of import and export operations

Configutil operations

After installing OpenEdge, you may have customized the configuration files, such as adding new servers, changing ports, and changing logging levels. All these customizations are typically stored in some configuration files such as .properties, .xml, and .pf files, or in the Windows registry. The configutil utility allows you to capture these configuration changes and preserve them so that they can be applied to a different OpenEdge installation. This process of capturing the existing configuration setting is referred to as the export operation. This process creates a zip file named export*timestamp*.zip.

The configutil utility allows you to apply the exported zip file on another OpenEdge installation such that all your configuration settings from the installation of an earlier version of OpenEdge are applied to the new installation. This process is the import operation.

After an import, if you want to revert to your original configuration, the configutil utility allows you to do so using the undoimport option.

Configutil export operation

This operation exports all the settings stored in configuration files and registry keys that are specified in the configutil.properties file in the *install-dir*/install/configbackup directory. You can create a custom.properties file to contain only the list of files and registry entries that you want to export and use the -propFile option to specify the custom file. The syntax for the export operation follows:

```
Export Usage: configutil export [option]
The options are as follows:
  -backupdir  The directory where the exported zip file will be stored
                        Defaults to $WRKDIR/backup
  -propFile   The user defined configutil.properties file
                           Defaults to $DLC/install/configbackup/configutil.properties
```

The configutil export creates the export*time_stamp*.zip file that contains the following files:

- configuration.xml—Contains all the file contents
- OEImport.properties—Contains a list of files and environment variables
- export_info—Contains information on the version, operating system, and details about the OpenEdge installation

Example

```
Proenv> configutil export

Configurations successfully exported at location:
C:\DLCWOR~1\WRK\backup\export161117072437.zip
```

In the preceding example, because -backupdir is not provided, the utility exports the settings to $WRKDIR/backup/export*timestamp*.zip.

By default, the utility exports all settings to the $DLC/install/configbackup/configutil.properties file. You may specify a different location using the -propFile option.

The following is another example:

```
Proenv> configutil export -backupdir /custom/directory -propFile
/custom/myconfigutil.properties

Configurations successfully exported at location:
/custom/directory/export161117072437.zip
```

Because the -backupdir option is specified, configutil exports the settings to the /custom/directory/export*time_stamp*.zip file.

Because the -propFile option is specified, the utility exports all the settings stored in files and registries that are specified in the myconfigutil.properties file.

Configutil import operation

This operation imports the settings in the exported zip file and applies it to the new installation. If there is a setting with a different value on the target machine, the import operation overwrites the value contained in the exported setting. If a setting is not present on the source machine but does exist on the target machine, then the import operation leaves the target setting as is. It does not delete the setting from the target machine. The following is the syntax for the import operation:

```
Import Usage: configutil import -backupfile backup zip path

The options are as follows:
  - backupfile The directory path where the exported file (export Timestamp.zip) is
saved on the
machine where you want to import the settings of another OpenEdge installation. The
default path
is WRKDIR/backup.
```

If you comment out a setting in the `configuration.properties` file, the setting is not overwritten during import.

```
proenv>configutil import -backupfile C:\DLCWOR~1\WRK\backup\export161117072437.zip
```

In the example, the utility will import the settings from the export161117072437.zip file.

Configutil undoimport operation

This operation reverts the import operation. The import option also creates a backup of existing settings of the target machine before the exported settings are applied. The backup is stored as the `$WRKDIR/backup/import_archive/`*`Time_Stamp`*`/import_backup.zip` file. To undo the import operation, you can use this archive to restore the original configuration. The following is the syntax for the undoimport operation:

```
Undo Import Usage: configutil undoimport -importbackupfile import backup zip path

The options are as follows:
  -importbackupfile The directory path
$WRKDIR/backup/import_archive/<Time_Stamp>/import_backup.zip where the backup file is
saved during the import operation.
```

Configutil properties file

The configutil.properties file is located in the *install-dir*/install/configbackup directory. This file contains a master list of files or registry entries that contain configuration settings that can be exported. The following is a sample configutil.properties file:

```
[Environment]
OVERRIDE_PATHS=false
OVERRIDE_HOSTNAME=false

# Files marked as IMPORTBEHAVIOR=COPYREPLACE, will be exported as-is. At import time
they will be copied and replace existing file.

#Configuration files for ABL Client.
[$DLC/startup.pf]
[$DLC/bin/progress.ini]
[$DLC/protermcap]

#Configuration files for OEE/OEM.
[$DLC/properties/JavaTools.properties]
[$DLC/properties/activemqsCache.xml]
[$DLC/properties/activemqs.ini]
…
#[HKLM:\Software\PSC\PROGRESS\{version}]
```

OVERRIDE_PATHS and OVERRIDE_HOSTNAME properties

The configutil.properties file contains an environment section that has OVERRIDE_PATHS and OVERRIDE_HOSTNAME entries. By default, these are set to false.

While exporting a setting, the utility tries to ascertain if the value is a valid path on the source machine or a value containing the hostname that matches that of the source machine. If you set OVERRIDE_PATHS to false, then any value that contains valid path on the source machine is not overwritten during import. Similarly, if you set OVERRIDE_HOSTNAME to false, then any value that contains hostname matching that of source machine is not overwritten during import. (Note that all values containing hostname do not qualify for OVERRIDE_HOSTNAME).

This behavior exists because path and host name of the source machine may not have any meaning on target machine. If you set these values to true, then the utility overwrites all the setting values during import irrespective of whether it is a path or a hostname.

Note: Progress recommends that you store your path settings relative to $DLC or $WRKDIR to avoid merge conflicts during import resulting in path settings not being imported.

If you do not want to export any specific files, then you can comment the entries for them in the configutil.properties file.

FORCE_OVERRIDE

If you want to always overwrite some specific setting during import operations, you can use the FORCE_OVERRIDE option. For example, there can be a path value that you may want to overwrite during import even if the OVERRIDE_PATHS entry is set to false. This option can be specified in the configutil.properties file as shown in the following syntax:

```
[Setting Name]
FORCE_OVERRIDE:(PropertyHierarchy).propertyName
```

The format of PropertyHierarchy is:

```
ParentSection/ChildSection[/ChildSection/...])
```

How to override a setting in the startup.pf file

If you have set OVERRIDE_PATHNAME=false, but want to overwrite a single setting in the startup.pf file, such as "-k c:\test\foo.txt" in the startup.pf file, you must add the following in the configutil.properties file:

```
[$DLC/startup.pf]
FORCE_OVERRIDE:.-k
```

DONT_OVERRIDE

If you want to never overwrite some specific settings during an import operation, such as the port value for the broker of a PAS for OpenEdge instance, you can use the DONT_OVERRIDE option.

This option can be specified in the configutil.properties file as shown in the following:

```
[Setting Name]
DONT_OVERRIDE:(PropertyHierarchy).propertyName
```

The format of PropertyHierarchy follows:

```
ParentSection/ChildSection[/ChildSection/...])
```

How to override a setting in the ubroker.properties file

If you do not want to override the `srvrLogFile` and the `brkrLogFile` properties in the `[UBroker.AS.asbroker1]` section, add the following in the `configutil.properties` file:

```
[$DLC/properties/ubroker.properties]
  DONT_OVERRIDE:(UBroker/AS/asbroker1).srvrLogFile
  DONT_OVERRIDE:(UBroker/AS/asbroker1).brokerLogFile
```

If you do not want to override the `srvrLogFile` and the `brkrLogFile` properties in the `[UBroker.AS]` section, add the following in the `configutil.properties` file:

```
[$DLC/properties/ubroker.properties]
  DONT_OVERRIDE:(UBroker/AS).srvrLogFile
  DONT_OVERRIDE:(UBroker/AS).brokerLogFile
```

If you do not want to override the `srvrLogFile` property in all subsections of `[UBroker.AS]` such as `[UBroker.AS.asbroker1]`, `[UBroker.AS.asbroker2]`, add the following in the `configutil.properties` file:

```
[$DLC/properties/ubroker.properties]
  DONT_OVERRIDE:(UBroker/AS/*).srvrLogFile
  DONT_OVERRIDE:(UBroker/AS/*).brokerLogFile
```

If you have set `OVERRIDE_HOSTNAME=false` and you want to forcibly override the `restURL` property in the `[REST.restmgr1]` section, add the following in the `configutil.properties` file:

```
[$DLC/properties/ubroker.properties]
  FORCE_OVERRIDE: (REST/restmgr1).restUrl
```

For properties that do not belongs to any section, override as follows:

```
DONT_OVERRIDE:.propertyName
FORCE_OVERRIDE:.propertyName
```

Note: For more examples on registry entries and XML files, see the `Importing Windows registry` and `Importing XML files` sections.

Export and import registry entries based settings

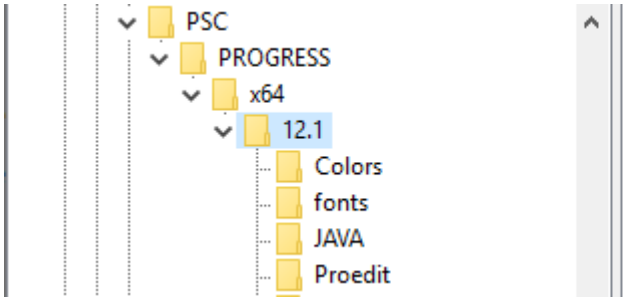
By default, the configutil.properties file does not contain registry entries for export. You must manually add the registry path and the entries to the *OpenEdge-install-dir*`/install/configbackup/configutil.properties` file as follows:

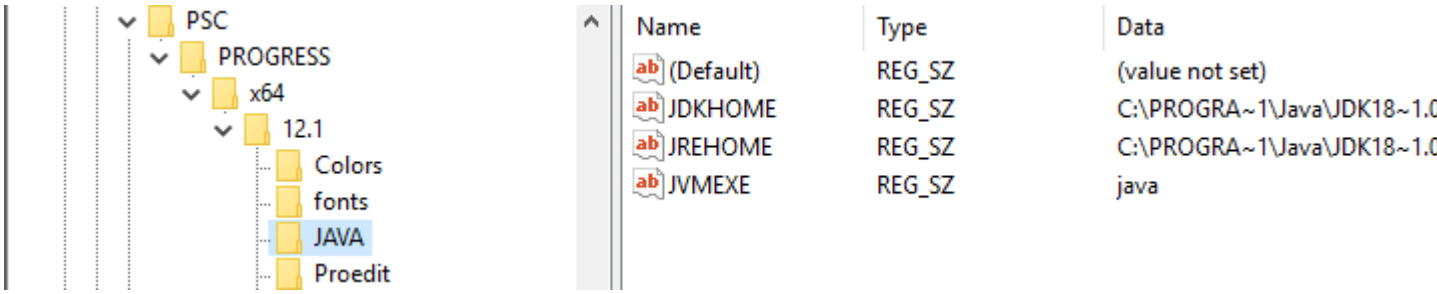
```
[HKLM:\Software\PSC\PROGRESS\{version}]
```

Here are the short forms of the registry hives:

```
• HKCR -  HKEY_CLASSES_ROOT.
• HKCU -  HKEY_CURRENT_USER.
• HKLM -  HKEY_LOCAL_MACHINE.
• HKU  -  HKEY_USERS.
• HKCC -  HKEY_CURRENT_CONFIG.
• HKPD -  HKEY_PERFORMANCE_DATA.
```

How to override a setting the Window's registry:





As in the above image of the registry entries, if you want to forcibly overwrite WorkPath, which is contained at the level of 12.1 node (node 0) and do not want to overwrite JDKHOME under JAVA node (which is a child node), add the following in the `configutil.properties` file to set DONT_OVERRIDE or FORCE_OVERRIDE entries:

```
[HKCU:\SOFTWARE\PSC\PROGRESS\{version}]
FORCE_OVERRIDE:.WorkPath
DONT_OVERRIDE:(/JAVA) JDKHOME
```

Exporting and Importing XML files-based settings

XML files always have their own hierarchy. If you want to forcibly over-write or do not want to over-write a setting stored in an XML file, you must create its hierarchy to refer to the element's attributes and value.

If you want to create a hierarchy rule for an element's text, then use the following format:

```
(<ElementHierachy>).#text
```

If you want to create a hierarchy rule for an element's attribute, then use the following format:

```
(<ElementHierachy>).<attributeName>
```

<ElementHierarcy> has the following format:

```
(<RootElement[ID]>/<childElement[ID]/[<childElement[ID]/...>)
```

ID is optional for each root or child element and, if not provided, it applies to all the elements. Here is a sample XML file:

```
<web-app>
    <servlet>
        <servlet-name>Aia</servlet-name>
        <servlet-class>com.progress.aia.Aia</servlet-class>
        <init-param>
           <param-name>InstallDir</param-name>
           <param-value>C:\Progress\OpenEdge</param-value>
        </init-param>
        <init-param>
           <param-name>instanceName</param-name>
           <param-value>Aia1</param-value>
        </init-param>
        <init-param>
           <param-name>propertyFileName</param-name>
          <param-value>C:\Progress\OpenEdge/properties/ubroker.properties</param-value>

        </init-param>
   </servlet>
</web-app>
```

If you do not want to OVERRIDE or FORCE-OVERRIDE the highlighted init-param, you can construct the hierarchy rule as follows:

```
(web-app/servlet/init-param[InstallDir]/param-value).#text
```

Here, web-app is the RootElement. Its child is servlet, and the servlet contains init-param. The init-param is the text value of installDir. So, installDir is the ID that you provide within square brackets.

Note that an ID for servlet is not added, so the above hierarchy applies to all servlets that have init-param as InstallDir. If you want the rule to be applied to a single servlet, say AIA, your hierarchy rule must look like this:

```
(web-app/servlet[Aia]/init-param[InstallDir]/param-value).#text
```

Here is a sample configutil.properties with XML hierarchy rule:

```
[$TCIB_HOME/webapps/aia/WEB-INF/web.xml]
  FORCE_OVERRIDE:(web-app/servlet/init-param[InstallDir]/param-value).#text
  FORCE_OVERRIDE:(web-app/servlet/init-param[propertyFileName]/param-value).#text
```

Here is another sample XML file:

```
<portlist udp="" udpmin="1" udpmax="300" tcp="" tcpmin="1" tcpmax="200">
   <port number="21" type="TCP" name="FTP"/>
   <port number="80" type="TCP" name="HTTP"/>
   <port number="110" type="TCP" name="POP3"/>
   <port number="25" type="TCP" name="SMTP"/>
   <port number="119" type="TCP" name="NNTP"/>
   <port number="143" type="TCP" name="IMAP"/>
   <port number="23" type="TCP" name="Telnet"/>
   <port number="389" type="TCP" name="LDAP"/>
   <port number="547" type="TCP" name="DHCPv6"/>
   <port number="53" type="UDP" name="DNS"/>
   <port number="161" type="UDP" name="SNMP"/>
 </portlist>
```

If you want to retain or override the number for HTTP port, add the following in the configutil.properties file:

```
[$oemgmt/conf/Ports.xml]
DONT_OVERRIDE:(portlist/port[HTTP]).number
```

Logging of import and export operations

The details of export and import operations are logged in the `$WRKDIR/oeie.log` file.

The logging settings are configured in the `log4j.properties` file in the `$DLC/install/configbackup` location.

10

Upgrade the JDK After Installation

After you have installed OpenEdge, you might want to:

- Upgrade the JDK to a different distribution
- Change the location of the JDK on your computer

After you move or install a new JDK, you must upgrade your OpenEdge configuration by completing the following step:

1. Shut down all running OpenEdge components, and stop any instances of PAS for OpenEdge.

   If you use OpenEdge Database, then enter the following command to stop it:

   ```
   $DLC/bin/dbman all -stop
   ```

   If you use the AdminServer, then shut it down as follows:

   Windows:

   a. Launch the Services application.

   b. Locate **Progress OpenEdge AdminServer Service**.

   c. Right-click the service and select **Stop** from the context menu that appears. The AdminServer stops.

   UNIX:

a. Open a command window.

b. Enter the following command:

```
proadsv -stop
```

If you use OpenEdge Management, then shut down **Progress OpenEdge Management Service for OpenEdge** by performing the following steps:

Windows:

a. Locate **Progress OpenEdge Management Service for OpenEdge** in the Services application.

b. Right-click the service and select **Stop** from the context menu that appears. The OpenEdge Management Service for OpenEdge stops.

UNIX:

a. Open a command window.

b. Enter the following command to stop the PAS for OpenEdge instance:

```
fathom -stop
```

2. Change the value of the `JAVA_HOME` environment variable in the *`OpenEdge_installation_dir`*`/properties/java.properties` file to the new JDK location.
3. **(Windows only)** Modify the values of the `JDKHOME` and `JREHOME` keys by performing the following steps:
   a. Launch the Registry Editor.
   b. Locate the `Computer\HKEY_CURRENT_USER\Software\PSC\PROGRESS\x64\12.X\JAVA` root key in the left panel. Its keys and corresponding values are displayed in the right panel.
   c. Change the value of the `JDKHOME` key to the new JDK location.
   d. Change the value of the `JREHOME` key to the new JDK location.
4. If you use Developer Studio, open the `$DLC/oeide/eclipse.ini` file in a text editor, and change the value of the `-vm` argument to the location of the `javaw.exe` file that is in the `bin` directory of your new JDK. For example:

```
-vm C:\Program Files\Java\jdk11.0.4_x64\bin\javaw.exe
```

   This change allows you to automatically open a `.p`, `.w`, or `.cls` file in Developer Studio by simply double-clicking the file on your computer.
5. Restart all OpenEdge components that you use. For example:
   - Launch Developer Studio.
   - Start a PAS for OpenEdge instance.
   - Start the generic JMS adapter using the `oemessaging` script.
   - Start the AdminServer:

On Windows, In the Services application, right-click **Progress OpenEdge AdminServer Service** and select **Start** from the context menu.

On UNIX, run `proadsv -start`.

- Start your OpenEdge database instances by running `$DLC/bin/dbman -start`.
- Start the Progress OpenEdge Management Service for OpenEdge. Launch Proenv in the administrator mode and run the following command:

```
proant -f <OpenEdge_installation_dir>/install/tlr/cleanup/60_fathom_tlr.xml
```

When the file `60_fathom_tlr.xml` is run, it re-tailors the PAS for OpenEdge instance that hosts OpenEdge Management with the value of the new JDK location and then starts the Progress OpenEdge Management Service for OpenEdge.