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1 Overview

This chapter provides an overview of this manual and how to contact Optum. It contains the following sections:

- Introduction to This Guide
- Intended Audience
- Organization of This Guide
- Document Conventions
- About Optum
- Contact Us
  - Corporate Address
  - Need Assistance? Contact Optum Client Services
  - Optum Portals
  - Found an Error in This User’s Guide?
1.1 Introduction to This Guide

The EASYGroup™ Installation Guide contains all the essential information the user will need to be able to install and configure all EASYGroup™ components. Consider this guide your textbook, a ready reference source should you forget a procedure or encounter a problem.

1.1.1 Intended Audience

This guide is directed to:

- Information Technology Personnel
- System Administrators

This guide assumes that the reader has a working knowledge of C and/or COBOL language syntax and file structures. All EASYGroup™ COBOL components utilize standard COBOL, using a compiler that conforms to INCITS/ISO/IEC 1989-2002 standard, “High” level specifications. The COBOL file types used are SEQUENTIAL and INDEXED.

1.2 Organization of This Guide

Table 1-1: Guide Contents

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<th>Section</th>
<th>Description</th>
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</thead>
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<tr>
<td>Chapter 1, Overview</td>
<td>Gives an overview on this user’s guide and what it contains, as well as an introduction to Optum.</td>
</tr>
<tr>
<td>Chapter 2, Hardware/Software Requirements</td>
<td>Defines the hardware and software requirements needed to run the EASYGroup™ product suite successfully.</td>
</tr>
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<td>Describes the installation procedures for the EASYGroup™ Server.</td>
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<td>General installation procedures for most EASYGroup™ components.</td>
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<td>Chapter 7, Analyzer Installation Procedures</td>
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<td>Chapter 8, Installation Procedures to Use the 3M™ GPS/3M™ GPCS</td>
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<td>Chapter 9, NMPRF Installation Procedures</td>
<td>Describes the installation procedures for the National Medicare Provider Rate Files (NMPRFs).</td>
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<tr>
<td>Chapter 10, State Rate Files Installation Procedures</td>
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<td>Chapter B, Mainframe Installation Summary (COBOL Platform Only)</td>
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</tr>
<tr>
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<td>Index of figures used throughout this user’s guide.</td>
</tr>
<tr>
<td>List of Tables</td>
<td>Index of tables used throughout this user’s guide.</td>
</tr>
<tr>
<td>Index</td>
<td>General index, for quick reference.</td>
</tr>
</tbody>
</table>

1.3 Document Conventions

This guide uses the following conventions:

- Any screen fields, buttons, tabs, or other controls that you can manipulate are printed in **bold** type. Keys that you press on the keyboard are also printed in **bold** type. For example:
  - Press the **Exit** button.
  - Press the **Enter** key.

- Keyboard keys that you must press simultaneously are printed in **bold** type and separated by a plus (+) sign. For example:
  - Press **Ctrl + C**.

- Links embedded in the text that you can select to jump to another section are in orange. For example:
  - Mappers

- Field names for the C Platform and filenames are italicized. For example:
  - *pricer_rtn_code*
  - *EASYGroup.exe*

- Field names for the COBOL Platform are in all caps. For example:
  - *PRCR-RTN-CODE*

- Field description titles are printed in **bold** type:
  - **NICU Accreditation Indicator**

- Legislation titles are italicized. For example:
  - *Balanced Budget Act of 1997*

- CMS Transmittals will be written in the following format:
1.4 About Optum

Optum is a health services business dedicated to making the health system work better for everyone. At Optum, we help modernize the health ecosystem, by bringing inter-operable and connected technology, real-time information, streamlined administration and managed compliance, risk, and costs.

1.5 Contact Us

1.5.1 Corporate Address

Optum
11000 Optum Circle
Eden Prairie, MN. 55344
T 1 + (888) 445-8745
www.optum.com

1.5.2 Need Assistance? Contact Optum Client Services

We welcome you as a valued client. Please contact Optum Client Services using one of the methods detailed below.

When opening a ticket with Optum Client Services you will be issued a ticket number. These ticket numbers correlate to individual issues. If you are experiencing multiple issues, it is recommended that you obtain individual ticket numbers.

When calling Optum Client Services regarding a previously opened ticket, have your ticket number available. If you misplaced or did not receive a ticket number, please ask the technician to provide it to you.

Optum Client Services Phone: 800-999-DRGS (3747)

1. Calls are answered in the order that they are received. If there is a high call volume, calls are held in a queue until a technician becomes available.

2. Calls classified as an industry expert category (i.e., case and reimbursement, logic encoder, etc.) will be escalated to Optum experts.

3. Technicians are available 24/7.
After selecting Option 6 for Technical Support you will hear the following choices:

Table 1-2: Technical Support Options

<table>
<thead>
<tr>
<th>Option #</th>
<th>Description</th>
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<tr>
<td>Option 1</td>
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</tr>
<tr>
<td>Option 2</td>
<td>For all other issues.</td>
</tr>
</tbody>
</table>

Email: Optum Client.Services

1. Include name and number and detailed description of product issue.
2. Response time to email is generally within a few business hours.
3. Service technician has ability to do prior research before calling back.

1.5.3 Optum Portals

For access to announcements, user documentation, notices, release schedules, and much more please visit the Regulatory Portal.

1.5.4 Found an Error in This User’s Guide?

Please feel free to contact our EASYGroup™ Documentation Team with any errors you may have found within this user’s guide:

EASYGroup_Documentation

We welcome feedback from our clients.
2 Hardware/Software Requirements

This chapter provides the hardware and software requirements for the EASYGroup™ product suite.

Note
For hardware/software specifications for the EASYGroup™ platforms (i.e., the EASYGroup™ Server, EASYGroup™ Web Service, OEPPS, etc.) please refer to the Interfacing With EASYGroup™ Guide.

For hardware/software specifications for the EDC Analyzer™ please also refer to the Implementation Plan Guide - EDC Analyzer™.

For hardware/software requirements for the EASYGroup Payment System Interface (PSI) please refer to the EASYGroup™ PSI Installation Guide.

This chapter contains the following sections:

• General Requirements
  - Hardware
  - Software
  - Not Supported

• EASYGroup™ Components Using the 3M™ GPS/3M™ GPCS
  - 3M™ GPS Requirements
  - 3M™ GPCS Requirements
2.1 General Requirements

To use the EASYGroup™ product suite, your operating environment must meet or exceed the following hardware and software requirements. All EASYGroup™ COBOL components utilize standard COBOL, using a compiler that conforms to INCITS/ISO/IEC 1989-2002 standard, “High” level specifications. The COBOL file types used are SEQUENTIAL and INDEXED.

2.1.1 Hardware

- Processor: 1 GHz Pentium or equivalent (Minimum); 2.4 GHz or faster (Recommended)
- RAM: 1 GB (Minimum); 2 GB or higher (Recommended)
- Hard Disk: 5 GB available space (Minimum); 10 GB available space (Recommended)
- Network Adapter: 100 BASE-T (Minimum); 1000 BASE-T (Recommended)

2.1.2 Software

- Microsoft® Windows® Server 2012 (including R2) (SP2) (64-bit)
- Microsoft® Windows® Server 2016 (64-bit)
- Microsoft® Windows® Server 2019 (64-bit)
- Microsoft® Windows® 7 Service Pack 1 (SP1) (32-bit and 64-bit)
- Microsoft® Windows® 10 (64-bit)
- If Running the Optum Update Wizard:
  - Microsoft®.NET Framework 4.7.2 or higher
- If Running the V01 EDC Analyzer™:
  - Microsoft® Visual C++ Redistributable V2015 or higher (refer to the 3M™ GPCS Requirements section below for this requirement for components using the 3M™ GPCS)
  - Microsoft®.NET Framework V4.6 or higher

2.1.3 Not Supported

- Clustered Environments
2.2 EASYGroup™ Components Using the 3M™ GPS/3M™ GPCS

To successfully install and integrate the 3M™ Grouper Plus System (GPS) and/or the 3M™ Grouper Plus Content Services (GPCS) your operating system must meet the following hardware and software requirements, in addition to the above General Requirements.

2.2.1 3M™ GPS Requirements

**Note**
The 3M™ GPS installs Java™ Runtime Environment (JRE) in the product directory. The JRE will not interfere with any other JRE version in effect on the user system.

### 2.2.1.1 Hardware

- Processor: 1GHz Pentium III with 512 KB cache
- RAM: 4 GB (Minimum)
- Disk Space for Full Install: 3.5 GB (all components selected, not including the OS or the 3M™ Pricer Tables)
- Disk Space for Each 3M™ Pricer Table: an additional 600 - 800 MB

**Important**
Please refer to the Optum 3M™ GPS Setup Launcher Requirements section below for the **total space needed** while installing the 3M™ GPS.

Please also note that the 3M™ TRICARE Outpatient Pricer Table is required for the EASYGroup™ TRICARE APC Payment System.

- Network Interface Cards: 100 Mbps or higher
- High speed internet connection required (broadband, T1, T3)

### 2.2.1.2 Software

**Note**
The below requirements may need to be adjusted based on client configuration and memory utilized by other non-related applications.

- Microsoft® Windows® Server 2012 Enterprise (64-bit)
- Microsoft® Windows® Server 2012 Enterprise R2 (64-bit)
- Microsoft® Windows® Server 2016 (64-bit)
- Microsoft® Windows® Server 2019 Standard (64-bit)*
- Microsoft® Windows® 8.1 Professional (32-bit and 64-bit)*
- Microsoft® Windows® 10 Professional (64-bit)
- AIX® v7.1* using IBM® Java™ Runtime Environment (JRE) v8

*Optum has not certified these platforms. 3M™ supports these operating systems.

**Optum 3M™ GPS Setup Launcher Requirements**

- Disk Space for Full Install - C: Drive Installations: 7 GB
- Disk Space for Full Install - Installation Drives Other Than the C: Drive: 7 GB on the C: Drive and 7 GB on the selected installation drive
- Microsoft®.NET Framework V2.0 or higher
  - Windows® Only: Any x64 or x86 with Microsoft®.NET Framework V2.0 or higher

The Optum 3M™ GPS Setup Launcher was developed to manage the following three operations:

1. To install the 3M™ GPS for use with Optum products.
2. To install Optum files into the 3M™ GPS folder.
3. To add and configure system environment variables based on the user-defined installation path.

**2.2.2 3M™ GPCS Requirements**

**2.2.2.1 Hardware**

- Processor: 1.5 GHz Pentium or higher
- RAM: 4 GB or higher
- Internet access is required; recommended speed 1.5 Mbps (T1 line) or higher

**2.2.2.2 Software**

- Microsoft® Visual C++ Redistributable V2013 and either the V2015 or V2017 Redistributable
- Shining Light Productions Win32 Open SSL v1.0.2j Light, Win64 Open SSL v1.0.2j Light
  
  **OR**


- Microsoft®.NET Framework V4.5 or higher
3 Server Installation Procedures

This chapter provides the EASYGroup™ Server installation procedures. This chapter contains the following sections:

• Installing the EASYGroup™ Server
• Installation Notes
• Testing the Connection to the Server
3.1 Installing the EASYGroup™ Server

**Important**

Please note, certain operating systems (Microsoft® Windows® Vista and higher) require users to right-click on the individual installer executable and/or the Update Wizard executable (*UpdateWizard.exe*) and select **Run As Administrator** before the install can commence. This step needs to be completed even if the user is logged into Windows® as an Administrator.

![Run As Administrator Selection](image)

Figure 3-1. Run As Administrator Selection

The first installation should be the primary installation. Typically, this installation is used for testing. Updates to the Server will automatically be applied to this primary installation. Subsequent installations or instances can be created for quality assurance, training, or production purposes via the Instance Wizard. All instances will be updated in relation to the primary installation. Please refer to the Interfacing With EASYGroup Guide for further details on the Instance Wizard.

**To Install the EASYGroup™ Server:**

Download the distribution from the Optum Update Wizard. The automatic installation program (*autorun*) will automatically launch an installation wizard. Follow the wizard prompts to complete the following:

1. **Designate the EASYGroup™ Server directories.** Enter the fully qualified name of the directory that will contain the Server and associated Server data files. The recommended default directories are as follows:

   • **C:\EASYGroup\Server** or **Server64**: Contains the Server and Optimizer, plus any Editor, Mapper, Grouper, Pricer, and/or related programs, the Instance Wizard, and the Sample Client program.

   • **C:\EASYGroup\Server\Data**: Contains the log file, Server data files, Rate Manager data files, and all other data files used by the Editor, Mapper, Grouper, and/or Pricer.
• C:\EASYGroup\Server\Docs: Contains the EASYGroup™ User’s Guides and any applicable Optum PPS Product Suite Release Notes.
• C:\EASYGroup\Server\Test: Contains sample test and data files that can be used for validation.

Note
If you are a ECM Pro™ Web Service client and have previously installed Web Services, the Server and associated EASYGroup™ components will be installed by default to the C:\Inetpub\wwwroot\HSS\Optimizer or C:\Inetpub\wwwroot\HSS\Optimizer64 directory. Data files will be installed to the C:\Inetpub\wwwroot\HSS\Data directory.

2. Designate the TCP/IP port number. Specify the port number on the TCP/IP network where the Server will monitor for client requests. The TCP/IP port number should be assigned by the Network Administrator. The default port number (4321) can be used if it conforms to the requirements of the network and is not already in use by another application.

Figure 3-2. Designate TCP/IP Port Number
3. **Run as an application or run as a service.** The first installation is normally configured to run as an application that must be explicitly started and stopped by the user. Configuration to run as a Windows® service is provided for backward compatibility and is generally not recommended. For information on creating multiple instances of the Server as a Windows® service, refer to the EASYGroup™ User’s Guide.

Figure 3-3. Run as an Application or Service

4. **Choose data folder location.** For 32-bit select the C:\EASYGroup\Server\Data option. For 64-bit select the C:\EASYGroup\Server64\Data option.
5. **Test the connection to the Server.** Once the installation procedures are completed, a prompt to test the Server will appear. To test the Server connection to the TCP/IP network (recommended), select the check box and then select **Finish**. This will launch the EASYGroup Client; refer to **Testing the Connection to the Server** below for further information.

For information on using the EASYGroup Client for testing the Server with other EASYGroup™ components (i.e., Editors, Mappers, Groupers, and Pricers), refer to the Interfacing With EASYGroup™ Guide.
3.1.1 Installation Notes

A log file is created in the C:\EASYGroup\Server\Data or C:\EASYGroup\Server64\Data directory if you accepted the default location (or in the custom folder you designated for data). The log file name (optsrv-[YYYYMMDD].log) reflects the date that the Server was started. A new log file is created daily, during which there is Server activity, and old log files are deleted automatically after 30 days.

The Server must be stopped before new EASYGroup™ components or data files are added. However, when the primary installation is a service, it is automatically stopped before, and started after the completion of other installations.

To create multiple instances of the Server, refer to the EASYGroup™ User’s Guide.

**Note**

The optcntl.h file is included in the Optimizer distribution so that users may identify the precise ordering of the EASYGroup™ structures.
3.2 Testing the Connection to the Server

The final step in the installation procedure is to validate the Server installation and establish the connection between the Server and the TCP/IP network. The Server distribution includes a EASYGroup Client application (TCPClient1.exe), which is used to test the Server installation. If you chose to bypass the automated test during installation, you can initiate testing any time by selecting: Start>All Programs>EASYGroup™ Server>EASYGroup Client.

Prior to running the test, the Server must be running on the specified port. If the Server is not running, it must be started.

**Note**

If the Server has been installed as a Windows® service, the default name for the service is **HSS Optimizer Server**. Refer to your Windows® Help for additional information on using services. If multiple instances have been created using the Instance Wizard, the name of the service was defined in the Instance Wizard set-up. To start a primary instance of the Server (Windows® service), select: Start >All Programs>EASYGroup™ Server>Start Service.

**To Test the Connection to the Server:**

Once you request the testing option (from the automated installation prompt or manually from the EASYGroup Client), you will be presented with the following prompt:

Figure 3-6: EASYGroup Client Window

```
TCP Client

Input File:  
Output File:  
Def File(ezg):  

Host Name: LOCALHOST  
Port Number: 4321
```

To test the Server, no entry is needed in the **Input File** or **Output File** fields. The **Host Name** field identifies the machine on which the Server is running and the **Port Number** field identifies the TCP/IP port that has been defined.
For testing, the host name will default to LOCALHOST and the port number will default to 4321. Initiate the testing by selecting the **Send** button.

**Note**
The **Input File** and **Output File** fields are used to test EASYGroup™ components (i.e., Editors, Mapper, Groupers, and Pricers).

A successful test will report an elapsed time for this query in the bottom right corner of the **EASYGroup Client Window**:

Figure 3-7. EASYGroup Client Window - Successful Test
Once the test is completed, you can stop the Server. If the Server was installed as an application, you can do so by selecting the **Stop** button on the **Optum Optimizer Server Window**.
When the Server is off (stopped), the Server will release any connections and will not accept any more requests; however, it will continue to run.
4 EASYGroup™ Web Service Installation Procedures

This chapter provides the installation procedures for the EASYGroup™ Web Service. It contains the following sections:

- General Description of Program Files
- Installing the EASYGroup™ Web Service
  - New Installations
    - Installing the EASYGroup™ Web Service Label Files
  - Updating/Removing an Existing Installation
  - Updating the SSL Certificate
  - Default Directory Structure
  - Rate Paths
- Testing the EASYGroup™ Web Service
  - Testing the Installation
  - Validating the Integration
4.1 General Description of Program Files

The EASYGroup™ Web Service is comprised of five methods written in ASP.Net Model View Controller (MVC) and distributed to run on the Microsoft® .NET platform and on Internet Information Services (IIS). These methods are distributed on a single distribution and loaded locally using an automated installation program. The Optimizer is included in the EASYGroup™ Web Service distribution.

The individually licensed EASYGroup™ components (Groupers, Pricers, Editors, etc.) are distributed on separate distributions. These components are also loaded (after installing the EASYGroup™ Web Service) using automated installation programs. Refer to the appropriate sections within this guide for further information.

4.2 Installing the EASYGroup™ Web Service

Installing the EASYGroup™ Web Service consists of the following tasks:

Note

Clients will need to obtain a new Secure Sockets Layer (SSL) certificate prior to deploying to their production environment. A temporary certificate is provided during install, but this certificate will expire and Optum will not provide new certificates.

1. Installing the EASYGroup™ Web Service.
2. Installing all licensed EASYGroup™ Grouping, Pricing, and Editing components.
3. If you are using any pricing methods, installing Rate Manager.
4. Installing and configuring a new SSL certificate.

Details on completing these tasks are provided below.

4.2.1 New Installations

The EASYGroup™ Web Service installer (EZGWebService_Vnnnn.nn.exe) will take users through the installation process and will prompt users to select a destination directory for the methods, the Optimizer, and associated components.

Note

For new installations, the EASYGroup™ Web Service may be installed on drives other than the C: drive. Updates to previous installations, will re-install the EASYGroup™ Web Service to the formerly identified location.
The steps below detail this installation process:

1. Download the EASYGroup™ Web Service from the Optum Update Wizard, the Optum Client Portal, or the Regulatory Portal. Double-click the EZGWebService.exe file to invoke the installation sequence.

2. The Install Shield will begin to prepare the wizard for the EASYGroup™ Web Service installation.

3. When the Install Shield is ready, the following Welcome screen will appear:

   ![Welcome Screen](image)

   Figure 4-1. Welcome Screen

4. Terminate the setup at anytime during the installation process by selecting the Cancel button. To continue, select the Next button to view the License Agreement.
5. To return to a previous step, simply select the Back button at any time. Read the License Agreement completely. To continue with the setup process, select the I accept the license agreement, required to continue this install radio button and then select Next to agree to the terms specified.

6. Next, the Choose Destination Location screen will appear. To select a location other than the default location, select the Browse button. Select Next when finished.

**Note**
The Choose Destination Location screen will be displayed during new installations only.
7. The **Select Features** screen will now appear. In this screen the user has the ability to choose an **Express** install (most users) or a **Custom** install. Choosing **Custom** will allow the user to adjust settings such as the port utilized, etc.

8. Chose the appropriate option and select **Next**. If you choose **Express** install, skip to **Figure 4-10**.
9. If you chose a **Custom** install you will see the **Website Name** screen.
10. The default web site name is **EZGWebSite**. If you wish to create a unique web site name enter the new name in the **Name** text box.

11. Select **Next** once complete.

12. Next, user's will see the **Application Pool Name** screen.
13. In this screen, users may use the default application pool name (EZGAppPool) or they may enter a unique application pool name in the Web API, Label API, and Tester API text box.

14. Users cannot select the same application pool name for different components. When this occurs an error message will appear as shown below in Figure 4-7.

15. Select Next once complete.

16. Users will then see the Website Port Number screen.
17. In the above screen, users have the opportunity to change the Port number, if desired. Port 443 is used by default.

18. Select Next once complete.

19. If users enter a port number that is already in use, they will receive the below error.

**Note**

Users may receive the below error during an Express install. If this occurs, select OK and manually change your port number in IIS.
20. Select **OK** and update the port number in the **Website Port Number** screen.

21. The EASYGroup™ Web Service installer will now begin to configure your installation.

22. During the configuration process, the installer will run through configuring the web site and the application pool.
23. The installation is now complete.
Figure 4-13. InstallShield Wizard Complete Screen

Note
Refer to the Default Directory Structure section below for details on the locations of all web service files.

24. Following the completion of the EASYGroup™ Web Service installation, review the directions in the appropriate sections of this guide to install all necessary EASYGroup™ components.

25. Once all of the necessary EASYGroup™ components are installed, review the steps on how to install the Rate Manager application in the Rate Manager Installation Guide.

4.2.1.1 Installing the EASYGroup™ Web Service Label Files
If you license the below-listed label files (which are licensed separately) you will need to run the EASYGroup™ Web Service Label Files installer (EZG_LabelFiles_Vnnnn.nn.exe).

- apgdsc.dat
- drgdsc.dat
- hacdsc.dat
- i9title.dat
- i10title.dat
- mdcdsc.dat
The steps below detail this installation process:

1. Follow the steps outlined above to install the EASYGroup™ Web Service.

2. Next, download the EASYGroup™ Web Service Label Files installer from the Optum Update Wizard, the Optum Client Portal or the Regulatory Portal. Double-click the \EZG\LabelFiles.exe file to invoke the installation sequence.

3. The Install Shield will run through the installation process similar to a new install. Once complete, you will see the Install Shield Wizard Complete screen.

4. Select, Finish to complete your installation.

These label files will install by default to the following location: C:\Optum\EZGWebService\EZGLabelAPI\LabelFiles

Note
To remove and/or update the EASYGroup™ Web Service Label Files follow the steps outlined below in the Updating/Removing an Existing Installation section.

4.2.2 Updating/Removing an Existing Installation
The steps below detail the removal/update process:

1. Double-click on the EZGWebService.exe file to invoke the installer.

2. The installer will begin to prepare the wizard for maintenance of the previously installed EASYGroup™ Web Service.

3. Users will see the Modify, Repair, or Remove the Program screen.
4. Selecting **Remove**, will completely remove the previous EASYGroup™ Web Service installation.

    Selecting **Modify**, will allow the user to select program components to add or remove.

    Selecting **Repair**, will re-install program components.

### 4.2.3 Updating the SSL Certificate

As stated above, clients are required to obtain and install a new SSL certificate from an outside source prior to deploying in their production environment. The temporary SSL certificate provided during installation will expire and Optum will not provide new certificates.

1. Once you have obtained and installed a new certificate, open the IIS Manager: **Start>Control Panel>Administrative Tools>Internet Information Services (IIS) Manager**.

2. Select **EZGWebSite** on the left-hand side of the screen or the web site name you chose during installation.

3. Next, select **Bindings** on the right-hand side of the screen.
4. You should see the **Site Bindings** dialog box appear.

5. Select the installed binding and then select **Edit**.

6. Next, the **Edit Site Binding** dialog box will appear. In this screen, select the drop-down under **SSL certificate**.
Figure 4-17. Edit Site Binding Dialog Box

7. Select the appropriate certificate from the SSL certificate drop-down.
8. Select **OK** to set the certificate.

### 4.2.4 Default Directory Structure

The EASYGroup™ Web Service will be installed in the following directories (by default):

- **C:\Optum\EZGWebService**

**Note**

Users can select another install location during the installation process. The below directory paths will not change.

- **Data**: This sub-directory contains all the data files required by the EASYGroup™ components, as well as the data files built and exported by Rate Manager.
- **Optimizer64**: This sub-directory contains the Optimizer and all the 64 bit EASYGroup™ components needed for claims processing.
- **EZGWebAPI**: This sub-directory contains the actual web service and all of the EASYGroup™ Web Service methods, except for the PostToLabels method.
- **EZGWebTester**: This sub-directory contains the EASYGroup™ Web Service Tester User Interface (UI) (a.k.a., “the Tester”).
- **EZGLabelAPI**: This sub-directory contains the PostToLabels method and all of the corresponding data files.
- **Utilities**: This sub-directory contains files needed by the installer.
4.2.5 Rate Paths

**Note**
Please note that the length of the “path” environment variable must be within the limits of the operating system being used. This can vary from 1024 to 2048 characters (depending on the version and service pack).

**4.2.5.1 DefaultDataPath**
The EASYGroup™ Web Service allows the user to reference a set of data, which can reside in a directory other than the default **Data** directory, which is typically `C:\Optum\EZGWebService\Data`.

**Note**
The default directory will be: `C:\inetpub\wwwroot\HSS\Data` if you are an existing client and you previously had an ECM Pro™ Web Service or other EASYGroup™ component installed.

The DefaultDataPath is set by default, but if clients wish to change this value, it needs to be updated in the `web.config` file which is located in the `C:\Optum\EZGWebService\EZGWebAPI` directory (by default). Each method requiring the use of data includes an optional rate path (for pricing data) or user path (for grouping/editing data) for defining the location of data content on a claim-by-claim basis.

Figure 4-18. DefaultDataPath in Web.Config File

```xml
<applicationSettings>
    <EasyGroupWebAPIServiceApp.Properties.Settings>
    <setting name="DefaultDataPath" serializeAs="string">
        <value>C:\inetpub\wwwroot\HSS\Data</value>
    </setting>
    </EasyGroupWebAPIServiceApp.Properties.Settings>
</applicationSettings>
```

**4.2.5.2 OptimizerPath**
The EASYGroup™ Web Service allows the user to reference a set of programs files (.dll), which can reside in a directory other than the default **Optimizer** directory, which is typically `C:\Optum\EZGWebService\Optimizer64`.

**Note**
The default directory will be: `C:\inetpub\wwwroot\HSS\Optimizer64` if you are an existing client and you previously had an ECM Pro™ Web Service or other EASYGroup™ component installed.

The OptimizerPath is set by default, but if clients wish to support multiple instances in the same environment they may change these values in the `web.config` file which is located in the `C:\Optum\EZGWebService\EZGWebAPI` directory (by default). Each method
requiring the use of the program files, includes an optional Optimizer path for the fully qualified directory path, where the program files (.dll) are stored.

Figure 4-19. OptimizerPath in Web.Config File

```xml
<easyGroupWebService.Properties.Settings>
  <setting name="DefaultDataPath" serializeAs="String">
    <value>c:\inetpub\wwwroot\HSS\Data</value>
  </setting>
  <setting name="OptimierPath" serializeAs="String">
    <value>c:\inetpub\wwwroot\HSS\optimizer44</value>
  </setting>
</easyGroupWebService.Properties.Settings>
```

4.3 Testing the EASYGroup™ Web Service

The EASYGroup™ Web Service distribution contains a Tester UI (a.k.a., “the Tester”) which accepts claim data as input and produces corresponding output. The Tester can be used to validate the installation. The installation process will install the Tester to the following directory (by default):

- `C:\Optum\EZGWebService\EZGWebTester\`

The EASYGroup™ Web Service Tester can test all of the EASYGroup™ Web Service methods. Refer to the Interfacing With EASYGroup Guide for further information on each method.

4.3.1 Testing the Installation

To test the EASYGroup™ Web Service methods mentioned above perform the following steps:

1. Install the EASYGroup™ Web Service.
2. Browse to: `https://localhost/EZGWebTester/`

**Note**

During installation, if a port number other than 443 (the default) was entered, the user will need to append the above path with a colon and the new port number (e.g., `https://localhost:411/EZGWebTester`).

3. On the Tester main screen select **Submit**.

Figure 4-20. Tester Main Screen - Left Side
<table>
<thead>
<tr>
<th>OpCode</th>
<th>PmtType</th>
<th>CodeClass</th>
</tr>
</thead>
<tbody>
<tr>
<td>GroupPrice</td>
<td>Inpatient</td>
<td>ICD10</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>RatePath</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>UserPath</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
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<th>NPI</th>
<th>Taxonomy</th>
<th>PaySrc</th>
</tr>
</thead>
<tbody>
<tr>
<td>DRG</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
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<th>DageDays</th>
<th>Alcdays</th>
</tr>
</thead>
<tbody>
<tr>
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<td>0</td>
<td>0</td>
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<tr>
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</table>

<table>
<thead>
<tr>
<th>SpanCode</th>
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<th>SpanDate2</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
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</tbody>
</table>

<table>
<thead>
<tr>
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<th>OccurDate</th>
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<tbody>
<tr>
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<td></td>
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</table>

<table>
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<tbody>
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<td></td>
<td>Y</td>
</tr>
</tbody>
</table>

<table>
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<tr>
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<th>Type</th>
<th>Date</th>
</tr>
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<tbody>
<tr>
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</tbody>
</table>

<table>
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<th>TotUnits</th>
<th>Charges</th>
<th>Date</th>
<th>Rev</th>
<th>LineOverride</th>
<th>NDC</th>
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<tbody>
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<td></td>
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<td></td>
</tr>
</tbody>
</table>

+
4. If the user receives Optimizer Return Code 18 (Non-Zero Return Code From Retrieve Payer Control Program (rtvpyr)) the communication between the EASYGroup™ Web Service and the Optimizer was successful. If the user does not receive Optimizer Return Code 18 or if they receive any other error, the communication was not successful.

### 4.3.2 Validating the Integration

If the calling program has been integrated with the EASYGroup™ Web Service, clients can use the EASYGroup™ Tester to assist them with validating their integration, by following the below steps:

1. Create test cases, enter the patient claim data into the calling program, and invoke the EASYGroup™ Web Service.

2. Open the EASYGroup™ Web Service Tester. Input the same claim data into the fields provided, and select **Submit**.
3. Compare the results from the Tester to the results from the calling program integration. Results should match exactly.
5 Optum Exchange PPS (OEPPS) Installation Procedures

This chapter provides the installation procedures for the OEPPS application. It contains the following sections:

Note
Please note that you may or may not license the OEPPS application. Please refer to the Regulatory Portal for access to user documentation for the components you currently license.

• Installation
  - Updating to a New Version
  - New Install
• Testing OEPPS
  - Testing the Service
  - Testing the OEPPS Application
• OEPPS C/Windows® Distribution
5.1 Installation

5.1.1 Updating to a New Version

To update the OEPPS application to a newer version, perform the following steps:

1. Download the new version of OEPPS from the Regulatory Portal, the Optum Client Portal or the Optum Update Wizard.
2. Locate the executable file named: OEPPS_Vvvvv.vv.exe.

Note

The vvvv.vv in the above filename equals the version number (e.g., V1510.02).

3. The user will see the Optum Exchange PPS Setup screen:

Figure 5-1. OEPPS Setup Screen - Updating

4. Select Next.
5. The installer will now take the user through the steps outlined in the New Install section below.
5.1.2 New Install

To install the OEPPS application for the first time, perform the following steps:

1. Download OEPPS from the Regulatory Portal, the Optum Client Portal or the Optum Update Wizard.
2. Locate the executable file named: OEPPS_Vvvv.vv.exe.

Note

The vvvv.vv in the above filename equals the version number (e.g., V1510.02).

3. Select the Next button on the Optum Exchange PPS Setup Wizard screen.

Figure 5-2. Optum Exchange PPS Setup Wizard Screen
4. Carefully read the license agreement. Click the I accept the license agreement, required to continue this install radio button to agree and continue. Select Next.

Figure 5-3. License Agreement

5. From the Choose Destination Location screen, Browse... to the correct installation path or keep the default installation location, C:\Optum\ExchangePPS\.
Figure 5-4. Choose Destination Location Screen

6. Next, the user will see the Select Features screen. In this screen there are options to install Optum Exchange Files and the Remote File Server Files. Select those that apply, and press Next.

Note
The Select Features screen will appear during first time installs only.

If the user selects Optum Exchange Files only the OEPPS application will install. This option is required. If the user selects Remote File Server Files the Remote File Mover utility will also install. This utility is optional.
7. Next, the OEPPS installer will issue the warning message shown below in Figure 5-6. This warning displays the versions of Microsoft® .NET Framework and Microsoft C++ Redistributable that were located during installation, as well as the recommended versions. This warning message will not halt the installation. Users can select OK to continue the installation.

This warning will appear during an update or a fresh install.
8. On the Working Directory Paths screen, set the desired paths for the File Watch Path, the EASYGroup™ Optimizer Path, and the Rate File Path. If the installer detects additional Optum software such as Web.Strat™ it will use the preexisting paths for the EASYGroup™ Optimizer and Rate Files for the additional Optum software (i.e., Web.Strat™).

**Note**

Please note that the all paths are user-defined and can be changed at any time. The paths mentioned on the Working Directory Paths screen are required. These locations can be changed at any time by using the OEPPS UI. The File Watcher path must be local to where OEPPS is installed.

The Optimizer Path will default to the current location of the EASYGroup™ Optimizer. This path is also required. Clients may change this path at any time. Select the root folder path of the Optimizer. In doing so, they will notice that “Optimizer” will append to the end of the path automatically.

If clients would like to set-up an additional Optimizer directory they may do so by creating a second Optimizer directory (right-click, New>Folder) in another directory. This might be helpful when utilizing production and testing environments. Clients may configure the Optimizer directory by copying over existing files (e.g., .dll, etc.), as well.

In the Rate Files Path, clients can map to an existing C:\EASYGroup\Data (i.e., the default location for EASYGroup™ rate files) directory or they can choose another location. After installation, clients also have the option on the Folder Structure screen of the UI (Admin>Folder Structure) to copy their
rates right to the **File Watch** directory. To produce correct results, the **File Watch** directory settings need to be configured to point to the correct **Data** directory (i.e., the default EASYGroup™ rate files installation location).

9. When finished, select **Next**.

Figure 5-7. Working Directory Paths Screen

![Working Directory Paths Screen](image)

**Note**
After installation, mapping layouts will be stored in the location defined in the **MappingXmlDir** field, located in the **Settings>Application** screen of the OEPPS UI. This path is user defined and can be changed at any time. Please refer to the Interfacing With EASYGroup™ Guide for further information.

10. Users will now see the **Setup Status** screen.
11. Users will see the **InstallShield Wizard Complete** screen once the process has completed. Select the appropriate check boxes to start the OEPPS Service. Users may also configure OEPPS to start automatically.

   If the user selects **Start Optum Exchange PPS service** the OEPPS service will begin after the install has finished. If the user selects **Set Optum Exchange PPS service to start automatically** a shortcut will be added to the **Windows® Start-up** folder so that the Service, which is set to run manually by default, will run every time the machine re-starts.

**Note**

The Service can run in the background when the interface is open. Clients can either turn on processing via the **Start Processing** button on the **Home** screen or have it continuously run and process in the background as a Service. In other words, there are two ways to start processing.
12. Select Finish.

Note
For configuration and set-up information please refer to the Interfacing With EASYGroup™ Guide.

5.2 Testing OEPPS

5.2.1 Testing the Service
To test the OEPPS Service complete the following tasks:

1. Create a sub-directory within the installation directory:
   
   C:\Optum\ExchangePPS\FileWatch
   (default location)

   Give the sub-directory a unique name, such as Test or TestInstall. For example:
   
   C:\Optum\ExchangePPS\FileWatch\TestInstall.


Note
If the Service is running, clients may not be able to create a .dat and a .trg file. If this happens, clients will need to stop the Service, create the two test files, and then re-start the Service.
5.2.2 Testing the OEPPS Application

To test the OEPPS application complete the following tasks:

3. From the installation directory, double-click the **Optum.Exchange PPS.Ul.exe**. This will open the OEPPS application.
4. By selecting the **Start Watching** button on the **OEPPS Main Screen**, users will see the file(s) in the **Files in Waiting List**. By selecting the **Start Processing** button users will see file(s) pass through the **Files in Processing List** and then the **Files in Completed List**.

Figure 5-12. File Watcher Status Box

5. There should now be an **out** folder located in your designated **FileWatch** directory:

   C:\Optum\FileWatch (default location)

   Navigate to this directory and verify that it contains a **test.out** file and a **test.ready** file.

   • The **.dat** consists of records that processed successfully.
   • The **.ready** indicates that the file is ready for retrieval.
5.3 OEPPS C/Windows® Distribution

All available distribution options for the OEPPS are placed on a single distribution. The default location for the installation files is: C:\Optum\ExchangePPS\.
6 General EASYGroup™ Installation Procedures

This chapter provides the general installation procedures for most EASYGroup™ components. It contains the following sections:

**Note**
Please note that you may or may not license all of the EASYGroup™ components. Please refer to the [Regulatory Portal](#) for access to user documentation for the components you currently license.

- **C Platform Installation Steps**
  - Software Distribution
  - Running the Automated Setup Program
  - Building and Testing EASYGroup™ Source Distribution
  - Building and Testing the EASYGroup™ Win32/Win64 Distributions
  - Test Driver Functions

- **COBOL Platform Installation Steps**
  - Software Distribution
  - Copying Files from the Distribution
  - Pricer Driver
  - Generating Indexed Tables
  - Building an EASYGroup™ Component Batch
  - Building EASYGroup™ CICS
  - Testing EASYGroup™
Important
Please note, certain operating systems (Microsoft® Windows® Vista and higher) require users to right-click on the individual installer executable and/or the Update Wizard executable (*UpdateWizard.exe*) and select **Run As Administrator** before the install can commence. This step needs to be completed even if the user is logged into Windows® as an Administrator.

Figure 6-1. Run as Administrator Selection

6.1 C Platform Installation Steps
To install EASYGroup™, you must perform the following tasks:

1. Copy distribution files to disk.
2. Build EASYGroup™ component (i.e., Pricer, Grouper, etc.).

**Note**
Step 2: Source distributions only.

3. Test the EASYGroup™ component.
4. Write your own Driver program.

6.1.1 Software Distribution
The EASYGroup™ distribution contains:

1. Component system programs.
2. Test files and database.
3. Label files (as appropriate).

For details on your distribution contents, refer to the applicable Microsoft® Excel® spreadsheet which is available on the **Optum Client Portal** and/or the **Regulatory Portal**.

The available distribution options for EASYGroup™ are available via the Optum Update Wizard. Each distribution option (Windows®, Server, or Source) can be installed separately using the automated setup feature. The Windows® and Server components are stored in compressed (.cab) files and can only be installed via the automated setup program. The Source components are stored uncompressed in a folder named **CSource**, and can
be installed automatically using the setup program, or manually using commands appropriate for your working environment.

6.1.1.1 Default Installation Locations

**Note**
Please note in the below locations xxxx represents the component name (i.e., Medicare);

The vv represents the two-digit component version number (i.e., 28), if applicable;

And the component type represents Pricer, Grouper, Editor, etc.

- **32-bit:**
  - Server
    \C\EASYGroup\Server
  - Source
    \C\EASYGroup\<component type>\xxxx\vvv\CSource
  - Windows®
    \C\EASYGroup\<component type>\xxxx\vvv\Win32

- **64-bit:**
  - Server
    \C\EASYGroup\Server64
  - Source
    \C\EASYGroup\<component type>\xxxx\vvv\CSource
  - Windows®
    \C\EASYGroup\<component type>\xxxx\vvv\Win64

6.1.2 Running the Automated Setup Program

If you are installing the software for the first time, the Windows®-based setup program will guide you through a complete installation sequence that permits you to:

- Choose the destination for the distribution.
- Select the distribution options to install.
- Install the program components.

If you have a previous version of the software installed, the set-up program will automatically detect that installation and offer the following options:

- **Modify:** Select program components to add or remove.
- **Repair:** Reinstalls all program components.
• **Remove:** Deletes all program components previously installed.

Figure 6-2. Previous Install: Modify, Repair, or Remove Options

![Image of Modify, Repair, or Remove options]

### 6.1.2.1 Initial Installations

It is recommended that you install your EASYGroup™ component(s) onto a separate Windows®-based test machine, rather than on your production environment. After running the automated installation program and compiling and/or testing the distribution, you can copy the necessary files to your production platform using commands appropriate for your working environment.

Follow these steps if you are installing the software for the first time.

1. Download the files from the Optum Update Wizard. The **autorun** function will launch the setup program. If it does not, browse the distribution and double-click on the *setup.exe* file to launch the set-up program manually.

2. If installing the V1712.00 or higher Optimizer, the installer will prompt the user with a warning dialog box (shown below in Figure 6-3) that notifies them that they have one of the below-listed products already installed (based on what the installer reads in the *hsssetup.ini* file) that may not be compatible with the version of the Optimizer they are attempting to install.
   - ECM Pro™ Inpatient Web Service
   - ECM Pro™ Outpatient Web Service
   - ECM Pro™ IRF Web Service
- ECM Pro™ SNF Web Service
- ECM Pro™ Physician Web Service
- ECM Pro™ Label Web Service
- EASYGroup™ Web Service
- EASYGroup™ Server
- Optum Exchange PPS (OEPPS)

Figure 6-3. Optimizer Warning - Possible Non-Compatible EASYGroup™ Products

3. Users can continue with the installation process by selecting Yes in this dialog box.

4. After briefly displaying the Preparation screen, the setup program will show the Welcome screen. Select the Next button to continue.
5. The setup program will advance to the License Agreement screen. Read the agreement, and then select Yes to accept the terms and continue with the installation.
6. The setup program will advance to the **Select Features** screen. This screen offers choices for the type of installation you want:

- **CSource Files**: Loads the source and data files required for UNIX® and other environments.

- **Server Files**: Loads the files used for the EASYGroup™ Server, ECM Pro™ Web Services, or other Server-related environments.

- **Windows® Files**: Loads the executable and data required for Win32 and Win64 environments.

- **EZGLogger Files**: Loads the claim results logging functionality for the EDC Analyzer™ or E&M Analyzer Pro.

**Note**
This option will only appear during the EDC Analyzer™ or E&M Analyzer Pro installation process.
Select all the components that you want to install and clear any components that you do not want to install. When ready, select the **Next** button.

If you are installing the EDC Analyzer™ or E&M Analyzer Pro, the following warning message will display the versions of Microsoft®.NET Framework and Microsoft C++ Redistributable that were located during installation, as well as the recommended versions. Users can select **OK** to continue the installation. Skip to **Step 8** if you are not installing the EDC Analyzer™ or E&M Analyzer Pro.
7. Next, the EDC Analyzer™ or E&M Analyzer Pro installer will require an eight character Customer ID to be entered on the **Edit Data** screen. Clients can obtain this unique eight character Customer ID by contacting Optum Client Services.
8. The setup program will advance to the **Setup Status** screen where you can observe the progress of the installation. Once the requested installation is complete, the setup program advances to the **InstallShield Wizard Complete** screen, which displays the path where the product was installed. Select the **Finish** button to end the setup sequence.

Figure 6-9. Set-Up Status Screen
9. The installation is now complete.

6.1.2.2 Upgrade Installations
Follow these steps if you have a previous installation and you are updating your EASYGroup™ software. This upgrade sequence will automatically launch only if a previous version of the EASYGroup™ component is detected on the Windows®-based PC. If there is no previous version installed, the automated setup program will launch the Initial Installation sequence as described above.

1. Download the files from the Optum Update Wizard, the Regulatory Portal, or the Optum Client Portal. The autorun function will launch the setup program. If it does not, browse the distribution and double-click on the setup.exe file to launch the setup program manually.

2. The setup program will open to the Select Features screen. This screen offers choices for the type of installation you want:
   - **CSource Files**: Loads the source and data files required for UNIX® and other environments. Optional for Windows® users.
   - **Server Files**: Loads the files used for EASYGroup™ Server, ECM Pro™ Web Services, or other server-related environments.
   - **Windows® Files**: Loads the executable and data required for Win32 and Win64 environments.
   - **EZGLogger Files**: Loads the claim results logging functionality for the EDC Analyzer™ or E&M Analyzer Pro.
Note
This option will only appear during the EDC Analyzer™ or E&M Analyzer Pro installation process.

3. Select all the components that you want to install and clear any components that you do not want to install.

4. Select the Next button, and then follow any on-screen prompts to complete the sequence.

6.1.2.3 Maintenance Installations
Follow these steps if you have a previous installation and you want to re-install, replace, or remove your EASYGroup™ software.

1. Download the files from the Optum Update Wizard, the Regulatory Portal, or the Optum Client Portal. The autorun function will launch the setup program. If it does not, browse the distribution and double-click on the setup.exe file to launch the setup program manually.

2. After briefly displaying the Preparation screen, the setup program will show the Welcome screen. Select the maintenance option you want to perform:

   - Modify: Choose this option to select program components you would like to add or remove to a previous installation.
   - Repair: Re-installs all program components from a previous installation.
   - Remove: Deletes all program components previously installed.

3. Select the Next button, and then follow any on-screen prompts to complete the sequence.

6.1.2.4 Manually Copying Source Files
If you are a Source user and do not wish to use the automated installation program, or if you are installing the software directly onto a non-Windows® platform, you can manually copy the contents from the distribution to your hard disk. Use commands appropriate for the target operating system to copy the files from the CSource folder to the target directory.

Be sure to copy the complete contents of the folder to your operating environment. All programs and files should be copied to the same directory.

6.1.3 Building and Testing EASYGroup™ Source Distribution
As distributed, the Optimizer Source code is structured to call Analyzers, Editors, Groupers, and Pricers as dynamically-linked modules (such as UNIX® shared libraries) where the Optimizer dynamically loads these Analyzers, Editors, Groupers, and Pricers. The EASYGroup™ component Source facilitates dynamic linking in the UB-04/ICD-10 structures.

The EASYGroup™ components consist of a collection of source files that must be compiled and linked together. It is suggested that you first build EASYGroup™ component using the Test Driver program included with your
distribution. This will allow you to run EASYGroup™ on the test database and verify that it is operating properly.

The Test Driver opens the specified test database for input. Each record read from the test database is assigned to one or more DRGs and other related output fields. A successful run of EASYGroup™ on the test database will have no mismatches. The results of the Test Driver program are written to the screen unless redirected elsewhere.

The Test Driver also opens the patient-specific test database for input. It opens test files provided with your distribution. Each record read from the test database is priced. The Test Driver compares the pricing information stored on the test record to the pricing fields just calculated. If results match, a line of output stating **Recalculating Reimbursement on record number ###** will be displayed. If results do not match, a line of output displaying the sequential number of the problem record will appear. The record will be labeled as a mismatch and the fields that have mismatched will be displayed.

Use the steps outlined below to compile and link EASYGroup™ using the Test Driver. A sample make file has been provided (**makefile**). It is expected that this file will need to be modified for your environment.

### 6.1.3.1 Source Users with Dynamic Linking

The Optimizer code contains IFDEF’s for both dynamic linking and the executable logic that creates temporary files and calls Analyzer, Editor, Grouper, and Pricer executables. Dynamic linking shared libraries are supported in most UNIX® environments. UB-04/ICD-10 formats are available for dynamic linking.

**Note**

When utilizing dynamic linking within EASYGroup™, all other modules must also be dynamically linked.

1. For each component you plan on using, create separate directories in your working environment, and then copy all of the Source files to the appropriate directories.
2. Create an environment variable (HSSDLLFLAGS) by entering the following in the working environment:

   ```
   HSSDLLFLAGS='-G'
   export HSSDLLFLAGS
   ```

Refer to Table 6-1 below for suggestions. The environment variable may be added to the user’s profile instead of executing these commands.

Table 6-1: Configuration Settings for Shared Libraries

<table>
<thead>
<tr>
<th>Computer</th>
<th>Operating System</th>
<th>Compiler</th>
<th>Command</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ultra Spark</td>
<td>Solaris V8</td>
<td>GCC 3.4.2</td>
<td>-G</td>
</tr>
<tr>
<td>Power PC</td>
<td>AIX V5.1</td>
<td>GCC 4.0.0</td>
<td>-shared</td>
</tr>
</tbody>
</table>
**Note**
The (HSSDLLFLAGS='G') command utilizes a specific configuration. Depending on the compiler and platform being used, this command may need to be modified for the user’s working environment.

3. Create the component .dlls by entering the following in the working environment:
   ```
   make dynamic
   ```
4. Test the component .dlls by entering the following in the working environment:
   ```
   make dtest
   ```
A successful run of EASYGroup™ on the test database will have no mismatches.

Refer to the section titled Test Driver for a description of the command options.

5. Copy the resulting .dlls to your Optimizer processing directory.

**Note**
Both the Optimizer distribution and the component programs will contain some of the same control programs. Always use the most current version. The version is contained in the vxxx.h file (where xxx equals the program’s name).

---

### 6.1.4 Building and Testing the EASYGroup™ Win32/Win64 Distributions

Windows® .dll users test EASYGroup™ by running the .dll version of the Test Driver on the test database provided with the distribution.

1. Open the EASYGroup™ component directory, for example:
   ```
   C:\EASYGroup\<Groupers>\<Medicare>\v27\Win32  or
   C:\EASYGroup\<Groupers>\<Medicare>\v27\Win64
   ```
2. Open the appropriate executable file (.exe) by double-clicking the file.
3. Close the Test Driver window when complete.
4. Copy the resulting .dlls to your Optimizer processing directory.

**Note**
Both the Optimizer distribution and the component programs will contain some of the same control programs. Always use the most current version. The version is contained in the vxxx.h file (where xxx equals the program’s name).
6.1.5 Test Driver Functions

The EASYGroup™ distribution contains several files of test data, including patient data and may include the following sample configuration, hospital, and rates: config.dat, medout.dat, and rateout.dat. These files are used to test exception logic. For actual pricing in your production environment, hospital rate data must be collected and current weights/rates should be extracted through Rate Manager.

The Test Driver program supplied with the EASYGroup™ distribution performs the functions itemized below:

1. Opens all files utilized by the EASYGroup™ component, including files with the following information: patient data, hospital rate data, and rates.
2. Reads the patient data file, and for each patient record sets up the input data structures defined in the Input and Output Parameter User’s Guide.
3. Reads data files with configuration settings, hospital rates, rates, and loads the appropriate values into the ECB [ezg_cntl_block] structure, Hospital Rate Calculator File(s), and the applicable Rate File(s).

Note

Other files may be included such as zip code and fee schedule files. For the layouts of any of these files please refer to the EASYGroup™ Technical Reference User’s Guide.

4. Calls the EASYGroup™ component (i.e., Pricer, if applicable) to price each patient record.
5. Writes the output fields returned by the EASYGroup™ component to the patient data file.
6. Closes all files.

6.1.5.1 Test Driver

A Test Driver has been supplied with your EASYGroup™ distribution. This Test Driver has been configured to run on the test databases supplied with your distributions. The specific commands required to run this driver to verify the installation of EASYGroup™ are described in the next section.

The Test Driver is invoked using the following command:

```
drivername [options] [input_file [output_file [error_file] ]] 
```

The available options are described below:

- `-c` Optional. Calls the EASYGroup™ component through the applicable control program.
- `-i` The input file will contain the input log.
- o  The output file will contain the input log, plus the grouping/pricing/editing, etc results.
- O  Optional. Calls the EASYGroup™ component through the Optimizer.
- 2  Optional: Runs the EASYGroup™ component with two (2) simultaneous threads. Available for Windows® 32/64 only.

6.2 COBOL Platform Installation Steps

6.2.1 Software Distribution
All EASYGroup™ distributions contain the files listed in the applicable Microsoft® Excel spreadsheet(s), that are available on the Optum Client Portal and/or the Regulatory Portal.

6.2.2 Copying Files from the Distribution
Distributions are downloaded from the Optum Update Wizard and copied to local workstation directories via the bundled installer program. From there, the distribution files need to be copied to the Host system. For the majority of systems, this means that the destination libraries and sequential files need to be preallocated on the Host system. The actual transfer can be accomplished using basic FTP protocols.

Note
Optum recognizes that every client has their own procedures in place for managing software distributions. Optum strongly recommends that each EASYGroup™ distribution be installed and compiled to its own set of data sets during the installation process. Attempting to install multiple distributions into a single set of data sets can result in current components being replaced by older, obsolete versions which can lead to product instability and/or failure.

6.2.3 Pricer Driver
After you have successfully built the EASYGroup™ Pricer, you must create a Driver program to invoke the Pricer for your own database or databases. You may want to modify the Test Driver included with your distribution (tdprcip) to read and write records from your database.

6.2.3.1 Function of the Driver
The purpose of the Driver program is to read records from a database, organize data from that record into a form usable by the Pricer, perform pricing, and then store (or make some other use of) the resulting information. The Driver program also has two housekeeping functions. It must initially tell the Pricer program to open files and must also direct the Pricer program to close all files before the Driver program terminates.
A sample Pricer Driver program (tdprcip) has been provided with the EASYGroup™ Pricer distribution. The functions of this program, as listed below, must be performed by the user's application, or by a modified version of tdprcip.

6.2.3.2 Functional Requirements
The Driver program for the Pricer (tdprcip) must perform the following functions. These are the functions performed by the sample Pricer Driver program supplied with the Pricer distribution.

1. Open the following files for input:
   a. The indexed Hospital Rate Calculator File. Refer to Step 1d below, for details on opening this file.
   b. The indexed Optum-built and/or user-maintained applicable rate file. Refer to Step 1d below, for details on opening the applicable rate file.
   c. The patient database to be priced.
   d. The Hospital Rate Calculator File and applicable rate files are opened by calling the Pricer strategy program (prccntl) with an O1 (letter “O” and one) in the ECB-OPCODE1 field. This will instruct prccntl to call prcrio, which will open the Hospital Rate Calculator File and applicable rate files. The value of POB1-PRCR-RTN-CODE should be checked to insure that the operating files have been successfully opened. An I/O Return Code other than zero (0) indicates that an error has occurred.

2. Open the following files for output:
   a. New patient database. This database will contain priced patient records.
   b. A print file for report output. This may be omitted, or output to a user screen in interactive applications.


4. Read the patient database and perform the functions itemized in steps 5-8 for each patient record.

5. Move values to the Pricer input parameters described in Step 1d. Pricer input parameter values may be assigned from the patient input record. Pricer input parameters must be in the format detailed in Step 1d, so patient input data must be manipulated or transformed to be in this format. Be sure to set the ECB-PATTYPE field to 01 (Inpatient) and ECB-OPCODE1 equal to 12 (PriceOnly). You can explicitly move the appropriate value to the ECB-OPCODE1 field or set the supplied 88-Level to True (example: SET ECB-PRICE TO TRUE).

6. Call the Pricer strategy program (prccntl).
7. Move values returned by prccntl to your output database. Output parameters are detailed in Step 1d.

8. Write each output record, regardless of whether it was appropriately priced or was in error.

9. The Driver program will accumulate and display the total number of records read, total number of records written, total records priced and total records not priced. A count of records not priced by error type will also be displayed.

10. Close input and output files by calling prccntl with an ECB-OPCODE1 of C1. The value of POB1-PRCR-RTN-CODE should be checked to insure that the operating files have been successfully closed. An I/O Return Code other than zero (0) indicates an error. The file status code is returned in POB1-PRCR-RTN-STATUS.

6.2.3.3 User-Required Modifications
Users will need to modify the Pricer Driver (tdprcip) program to setup the Pricer input structures with values unique to their patient database and installation (refer to step 5 in the preceding section, Functional Requirements on page 74). This may require any combination of the following:

1. Moving values from the patient database to the Pricer input parameter string.

2. Using information from the patient database to calculate Pricer input parameter values.

3. Setting Pricer input parameter values equal to some constant.

6.2.3.4 Writing Your Own Driver Batch
To add an EASYGroup™ component subroutine call to your own programs, you must proceed as follows:

1. The component control program has been designed to automatically open files. To initiate a manual open, call the applicable control program (e.g., prccntl.cob, grpcntl.cob, etc.) with an O1 (letter O and one) in the ECB-OPCODE1 field. If any problems occur during the open process (manual or automatic) then the EASYGroup™ component will return a non-zero value in the applicable Return Code field.

2. To close all opened files before shutting down your Driver program, you must call prccntl.cob with a C1 in the ECB-OPCODE1 field. This will instruct prccntl.cob to close the necessary files. For all Pricer processing (task flag values 12, O1, and C1), the value of POB1-PRCR-RTN-CODE should be checked to insure that the closes were successful.

3. To call the EASYGroup™ component (after a successful open), you must first initialize and move all required information into the appropriate data structures. For examples on how to populate the
required data structures, please refer to the appropriate sections of the Test Driver program (e.g., tdgrpxx.cob, tdprcip.cob, etc.) supplied with EASYGroup™. The sections which handle the population of the data structures for pricing, can be easily retrofitted to your needs. Be sure to set ECB-PATTYPE to 01 for Inpatient or 02 for Outpatient and ECB-OPCODE1 to 11 for GroupOnly or 12 for PriceOnly.

4. Using the header file *hezgptr*, you must set your pointers. This structure contains a block of pointers corresponding to all existing EASYGroup™ structures. Prior to calling the EASYGroup™ component for batch processing, add the following code:

   MOVE LOW-VALUES TO ESP-EZG-STRUCT-PTRS.
   SET ESP-ECB TO ADDRESS OF ECB-EZG-CNTL-BLOCK.
   SET ESP-PCB1 TO ADDRESS OF PCB1-PATIENT-CLAIM-BLOCK1.
   SET ESP-PCB2 TO ADDRESS OF PCB2-PATIENT-CLAIM-BLOCK2.
   SET ESP-DCB TO ADDRESS OF DCB-DX-CODE-BLOCK.
   SET ESP-OCB TO ADDRESS OF OCB-OP-CODE-BLOCK.
   SET ESP-LLB TO ADDRESS OF HCT-HCPCS-CODE-TBL.
   SET ESP-GOB1 TO ADDRESS OF GOB1-GRPR-OUTPUT-BLOCK1.
   SET ESP-GOB2 TO ADDRESS OF GOB2-GRPR-OUTPUT-BLOCK2.
   SET ESP-GOB3 TO ADDRESS OF GOB3-GRPR-OUTPUT-BLOCK3.
   SET ESP-GOB4 TO ADDRESS OF GOB4-GRPR-OUTPUT-BLOCK4.
   SET ESP-POB1 TO ADDRESS OF POB1-PRCR-OUTPUT-BLOCK1.
   SET ESP-POB2 TO ADDRESS OF POB2-PRCR-OUTPUT-BLOCK2.
   SET ESP-POB3 TO ADDRESS OF POB3-PRCR-OUTPUT-BLOCK3.

   **Note**
   If the client has issues compiling or setting pointers using the above instructions, please reference the *bezgptr* and *cezgptr* files for further instructions. Typically, this information is only needed for clients using a VSE compiler.

5. The specific functions that the EASYGroup™ control program will perform when processing individual patient records depends on the value of the ECB-OPCODE1 field passed as input to the EASYGroup™ component. You can explicitly move the appropriate value to the ECB-OPCODE1 field or set the supplied 88-Level to True (e.g., SET ECB-PRICE TO TRUE). The ECB-OPCODE1 field may have any one of the following values:

   **Table 6-2: ECB-OPCODE1 Values**

<table>
<thead>
<tr>
<th>88-Level</th>
<th>Task Flag Value</th>
<th>Task</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECB-&lt;PRICE/GROUP, ETC&gt;</td>
<td>12</td>
<td>Price only, Group only, etc</td>
</tr>
<tr>
<td>ECB-OPEN-FILES</td>
<td>01</td>
<td>Open</td>
</tr>
</tbody>
</table>
6. The EASYGroup™ control program will return the output data. No matter what task is requested the returned data reflects information based on the original, incoming data in the applicable EASYGroup™ control block. You may want to move some or all of this data into your record before you write the record back to your database.

6.2.3.5 Integrating EASYGroup™ CICS
An online CICS Test Driver program has not been provided with the distribution. Instead, your in-house system will need to be modified to access the EASYGroup™ control programs to verify proper execution.

6.2.3.6 Calling EASYGroup™
The basic COBOL calling syntax for a Batch implementation of EASYGroup™ is as follows:

```
CALL '<PRCCNTL/GRPCNTL, ETC>' USING ESP-EZG-STRUCT-PTRS.
```

The basic COBOL calling syntax for a CICS implementation is as follows:

```
CALL '<CPRCCNTL, CGRPCNTL>' USING DFHEIBLK DFHCOMMAREA ESP-EZG-STRUCT-PTRS.
```

The appropriate input fields of each parameter structure must be filled. Please refer to the Input & Output Parameter Blocks User’s Guide for further details.

6.2.3.7 Patient Records Test Database
A test database of patient records has been provided on the EASYGroup™ distribution. This test database can be run through the Optum-supplied Pricer Driver (tdprcip.cob) program, using indexed versions of the test Hospital Rate Calculator database and the applicable rate file (also provided on the distribution). When run on these test databases, an output report will be generated. Output specific to your EASYGroup™ distribution has been supplied as the file named tdprcip.out.

6.2.4 Generating Indexed Tables
The majority of the EASYGroup™ components utilize a number of keyed/indexed files for internal processing. The data for these files is supplied on the distribution as sequential files, which must be loaded into the appropriate indexed file(s) as part of the installation process.

With the exception of the Hospital Rate Calculator file which is used by the EASYGroup™ Pricers, most of these sequential files can be loaded/indexed directly without the need for any preprocessing.

---

**Table 6-2: ECB-OPCODE1 Values**

<table>
<thead>
<tr>
<th>88-Level</th>
<th>Task Flag Value</th>
<th>Task</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECB-CLOSE-FILES</td>
<td>C1</td>
<td>Close</td>
</tr>
</tbody>
</table>

---

**ECB-OPCODE1 Values**

<table>
<thead>
<tr>
<th>88-Level</th>
<th>Task Flag Value</th>
<th>Task</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECB-CLOSE-FILES</td>
<td>C1</td>
<td>Close</td>
</tr>
</tbody>
</table>
In the case of the Hospital Rate Calculator file, a subset of the EASYGroup™ Pricers require that the sequential file be processed through the Base Rate Calculator program (RATEDRV). Two options are provided as possible methods for generating indexed files from the sequential tables.

**6.2.4.1 JCL Method** (for IBM z/OS and z/VSE Environments)
Since the majority of EASYGroup™ clients are running on z/OS and z/VSE systems, the appropriate JCL is provided on the distribution and should be executed in the following sequence.

**Note**
Members prefixed with **MVS** are for z/OS and members prefixed with **VSE** are for z/VSE.

1. Modify the distribution files MVSCLDEF, and MVSCLLD (or VSECLDEF and VSECLLD) to run in the target environment system.
2. Run MVSCLDEF (or VSECLDEF) to define the VSAM clusters.
3. Run MVSCLLD (or VSECLLD) to sort the sequential files and load them into the VSAM clusters.

**6.2.4.2 Table Build Method**
1. You may need to modify the **ENVIRONMENT DIVISION** of the table-generation programs to insure that file access procedures are appropriate to your system.
2. Compile and link each program source to create executable modules.
3. Execute all table-generation programs appropriately in the target environment to create the COBOL tables (files) used by EASYGroup™.

**6.2.5 Building an EASYGroup™ Component Batch**
The EASYGroup™ program source is set up to initiate dynamic calls. These programs can be compiled and link-edited without reference to other objects.

**Note**
Please note the Base Rate Calculator Driver is not used with the ESRD, Physician, and SNF Pricers.

Before compiling and linking the Driver and I/O handling programs you may need to modify each **ENVIRONMENT DIVISION** to insure that file access procedures are appropriate for your system. That is, you must insure that the programs are able to access all input and output files accurately. The EASYGroup™ source must be compiled and linked together (using the Test Driver) to create a working component that can be run on the test database.

Details on the input and output files utilized by each program are presented in the Input and Output Parameter’s User’s Guide.
6.2.6 Building EASYGroup™ CICS

The CICS online EASYGroup™ components consist of a number of CICS command level programs which require a standard CICS compile procedure using the CICS precompiler. The order that they are compiled and linked is unimportant since the program source is set to use dynamic calls.

Details on the input and output files utilized by each program are presented in the Input and Output Parameter’s User’s Guide.

6.2.7 Testing EASYGroup™

You are now ready to test EASYGroup™. This is done by running the executable component module created in the previous step (including the Test Driver) on the test database.

The Test Driver will open the component tables, as well as the test database for input. The line printer will be opened for output. The results of the Test Driver program will be written to the printer. Each record read from the test database will be assigned to a DRG (if grouping). The information, as stored on the test record, will then be printed. The Test Driver will then compare the DRG (if grouping) information stored on the test record to the DRG fields just calculated by EASYGroup™. If results do not match, an additional line will be printed. This line will label the record as a mismatch and display all fields calculated by EASYGroup™. A successful run of EASYGroup™ on the test database will have no mismatches. When all test records have been read, the Test Driver will print summaries by Return Code, DRG (if applicable), and MDC (if applicable). The file FREQtvv (if applicable), in the source PDS contains this summary information.

Testing of the CICS online portion of EASYGroup™ first requires integration of the CICS programs with your system.

The EASYGroup™ distribution may contain several files of test data (if pricing), including patient data, sample hospital and applicable rates, configuration settings, and overrides (if applicable). For actual pricing, hospital rate data must be collected and current weights/rates should be extracted through Rate Manager. The EASYGroup™ distribution may also contain fee schedule test files and a zip code file. For accurate pricing in your production environment, official fee schedule and ZIP code files should be loaded from the latest EASYGroup™ Fee Schedule Data Files distribution.
7 Analyzer Installation Procedures

This chapter provides the installation procedures for the EASYGroup™ Analyzers. It contains the following sections:

- C Platform Installation Steps
  - Software Distribution
  - Running the Automated Setup Program
  - Building and Testing Source Distribution
  - Building and Testing the Analyzer Win32/Win64 Distributions
  - Dual Server Configuration

- COBOL Platform Installation Steps
  - Software Distribution
  - Running the Automated Setup Program
  - Copying Files From the Distribution
  - Building EASYGroup™ for Batch Processing
  - Building EASYGroup™ for CICS Processing
  - Testing EASYGroup™
  - Dual Server Configuration for IBM™ Mainframe Environments
Important
Please note that certain operating systems require you to right-click on the installer executable and select Run As Administrator before the install can commence. This step needs to be completed even if you are logged into Windows® as an Administrator.

Figure 7-1. Run as Administrator Selection

7.1 C Platform Installation Steps
To install the Analyzer, you must perform the following tasks:
1. Copy installer to disk.
2. Install the Analyzer.
3. Transfer the Analyzer source and data files to the target system (for UNIX® users only)
4. Build the Analyzer on the target system (for UNIX® users only).
5. Run the test driver program and verify the results.

7.1.1 Software Distribution
The distribution contains:
1. Component system programs.
2. Data files.

The Analyzer software is available to download via the Optum Update Wizard the Regulatory Portal, or the Optum Client Portal. The Analyzer component files are stored in compressed (.cab) files and can only be installed via the automated setup program.

7.1.1.1 Default Installation Locations
- Analyzer Program Files: C:\Optum\EZGWebService\Optimizer64
- Analyzer Data Files: C:\Optum\EZGWebService\Data
- Analyzer Logging Files: C:\EASYGroup\EZGLogger
7.1.2 Running the Automated Setup Program

If you are installing the software for the first time, the Windows®-based setup program will guide you through a complete installation sequence that permits you to:

• Choose the destination for the distribution.
• Select the distribution options to install.
• Install the program components.

If you have a previous version of the software installed, the set-up program will automatically detect that installation and offer the following options:

• **Modify**: Select program components to add or remove.
• **Repair**: Reinstalls all program components.
• **Remove**: Deletes all program components previously installed.

Figure 7-2. Previous Install: Modify, Repair, or Remove Options

7.1.2.1 Initial Installations

It is recommended that you install the Analyzer onto a separate Windows®-based test machine, rather than on your production environment. After running the automated installation program and testing the distribution, you can copy the necessary files to your production environment.

Follow these steps if you are installing the software for the first time.

1. Download the Analyzer installer
   
   `EZG_Vvv_XXX_Analyzer_Vvvvv.vv.exe`

   from the Optum Update
Wizard, the Regulatory Portal, or the Optum Client Portal. Install the Analyzer either by using the installation functions within the Optum Update Wizard or by double-clicking on the EZG_Vvv_XXX_Analyzer_Vvvv.vv.exe file to launch the set-up program manually. The XXX represents the associated Analyzer.

2. After briefly displaying the Preparation screen, the setup program will show the Welcome screen. Select the Next button to continue.

Figure 7-3. Welcome Screen

3. The setup program will advance to the License Agreement screen. Read the agreement, and then select Yes to accept the terms and continue with the installation.
4. The setup program will advance to the **Select Features** screen. This screen offers choices for the type of installation you want:

- **CSource Files**: Loads the source and data files required for UNIX® environments.

- **Server Files**: Loads the files used by the EASYGroup™ Server, ECM Pro™ Web Service, or EASYGroup™ Web Service.

- **Windows® Files**: Loads the executable and data required for non-Server Windows® environments.

- **EZGLogger Files**: Loads the Analyzer Logger and additional files required by the Logger.
Figure 7-5. Select Features Screen

Select all the components that you want to install and clear any components that you do not want to install. When ready, select the Next button.

The following warning message will display the versions of Microsoft®.NET Framework and Microsoft C++ Redistributable that were located during installation, as well as the recommended versions. You can select OK to continue the installation.
5. Next, the Analyzer installer will require an eight character Customer ID to be entered on the **Edit Data** screen. You can obtain this unique eight character Customer ID by contacting Optum Client Services. Enter your Customer ID and select the **Next** button.

Figure 7-7. Edit Data Screen - Customer ID
Note
If you already have a Customer ID which has been previously written to the hsssetup.ini file during a previous installation, the above screen will be bypassed, and as such, will not be displayed during installation.

6. Next, the Analyzer installer will ask you to enter the host name or IP address that you wish to utilize for savings logging. To enter a host name, select the **Host Name** radio button and enter the host name in the text box. To enter an IP address, select the **IP Address** radio button and enter the IP address in the text box. Once either is entered, enter the port number in the **Port** text box. If neither an host name or an IP address is entered, the default IP address and port number is utilized. You will likely leave the default values and simply continue by selecting **Next**. If you require a custom modification you may adjust the host name/IP address and port number.

Figure 7-8. Edit Data Screen - Host Name or IP Address/Port Number

Note
If you already have an host name/IP address and port number which were previously written to the hsssetup.ini file during a previous installation, the above screen will be bypassed, and as such, will not be displayed during installation.

If the default port number or custom port number entered is already in use you will see a dialog box with a warning that the states that the port number selected is already in use. You will not be allowed to proceed with the installation until an available port number is entered.
7. The setup program will advance to the **Setup Status** screen where you can observe the progress of the installation. Once the requested installation is complete, the setup program advances to the **InstallShield Wizard Complete** screen.

8. Select **Finish** to end the setup sequence.

Figure 7-9. Set-Up Status Screen
9. The installation is now complete.

7.1.2.2 Upgrade Installations
Follow these steps if you have a previous installation and you are updating the Analyzer software. This upgrade sequence will automatically launch only if a previous version of the Analyzer is detected. If there is no previous version installed, the automated setup program will launch the Initial Installation sequence as described above.

1. Download the Analyzer installer (EZG_Vvv_XXX_Analyzer_Vvvvv.vv.exe) from the Optum Update Wizard, the Regulatory Portal, or Optum Client Portal. Install the Analyzer either by using the installation functions within the Optum Update Wizard or by double-clicking on the EZG_Vvv_XXX_Analyzer_Vvvvv.vv.exe file to launch the set-up program manually. The XXX represents the associated Analyzer.

2. The setup program will advance to the Select Features screen. This screen offers choices for the type of installation you want:

- **CSource Files**: Loads the source and data files required for UNIX® environments.

- **Server Files**: Loads the files used by the EASYGroup™ Server, ECM Pro™ Web Service, or EASYGroup™ Web Service.

- **Windows® Files**: Loads the executable and data required for non-Server Windows® environments.
- **EZLogger Files**: Loads the Analyzer Logger and additional files required by the Logger.

3. Select all the components that you want to install and clear any components that you do not want to install.

4. Select the **Next** button, and then follow any on-screen prompts to complete the sequence.

### 7.1.2.3 Maintenance Installations

Follow these steps if you have a previous installation and you want to re-install, replace, or remove the Analyzer.

1. Download the Analyzer installer
   
   \(EZG_Vvv_XXX_Analyzer_Vvvvv.vv.exe\) from the Optum Update Wizard, the **Regulatory Portal**, or the **Optum Client Portal**. Install the Analyzer either by using the installation functions within the Optum Update Wizard or by double-clicking on the
   
   \(EZG_Vvv_XXX_Analyzer_Vvvvv.vv.exe\) file to launch the set-up program manually. The XXX represents the associated Analyzer.

2. After briefly displaying the **Preparation** screen, the setup program will show the **Welcome** screen. Select the maintenance option you want to perform:

   - **Modify**: Select program components to add or remove.
   - **Repair**: Reinstalls all program components.
   - **Remove**: Deletes all program components previously installed.

3. Select the **Next** button, and then follow any on-screen prompts to complete the sequence.

### 7.1.2.4 Manually Copying Source Files

If you are a Source user, you will need to manually copy the contents of the

\(CSource\) folder that was installed by the automated setup program to the target directory on your UNIX® environment.

Be sure to copy the complete contents of the folder to your UNIX® environment. All programs and files should be copied to the same directory.

### 7.1.3 Building and Testing Source Distribution

As distributed, the Optimizer Source code is structured to call Analyzers, Editors, Groupers, and Pricers as dynamically-linked modules (such as UNIX® shared libraries) where the Optimizer dynamically loads these Analyzers, Editors, Groupers, and Pricers. The Analyzer Source facilitates dynamic linking in the EASYGroup™ structures.

The Analyzer consists of a collection of source files that must be compiled and linked together.

Use the steps outlined below to compile and link the Analyzer. A sample make file has been provided (\(makefile\)). It is expected that this file will need to be modified for your environment.
7.1.3.1 Source Users with Dynamic Linking

Dynamic linking shared libraries are supported in most UNIX® environments.

**Note**
When utilizing dynamic linking with the Analyzer, all other EASYGroup™ modules must also be dynamically linked.

1. Create a directory in your working environment, and then copy all of the Analyzer Source files to the directory.
2. Create an environment variable (HSSDLLFLAGS) by entering the following in the working environment:

   HSSDLLFLAGS=-'G'
   export HSSDLLFLAGS

Refer to Table 7-1 below for suggestions. The environment variable may be added to the user's profile instead of executing this command.

Table 7-1: Configuration Setting for Shared Libraries

<table>
<thead>
<tr>
<th>Computer</th>
<th>Operating System</th>
<th>Compiler</th>
<th>Command</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power PC</td>
<td>AIX V5.1</td>
<td>GCC 4.0.0</td>
<td>-shared</td>
</tr>
</tbody>
</table>

**Note**
The (HSSDLLFLAGS=-'G') command utilizes a specific configuration. Depending on the compiler and platform being used, this command may need to be modified for your working environment.

3. Create the Analyzer .dlls by entering the following in the working environment:

   make dynamic

4. Copy the resulting .dlls to your Optimizer processing directory.
5. Test the components .dlls by entering the following in the working environments:

   make dtest

A successful run of the Analyzer on the test database will have no mismatches.

**Note**
Both the Optimizer distribution and the Analyzer distribution will contain some of the same control programs. Always use the most current version. The version is contained in the vxxx.h file (where xxx equals the program’s name).
7.1.4 Building and Testing the Analyzer Win32/Win64 Distributions

Windows® .dll users test the Analyzer by running the dll version of the Test Driver on the test database provided with the distribution.

1. Open the Analyzer component directory, for example:
   C:\EASYGroup\Analyzers\XX Analyzer\vxx
2. Open the appropriate executable file (.exe) by double-clicking the file.
3. Close the Test Driver window when complete.
4. Copy the resulting .dlls to your Optimizer directory.

**Note**
Both the Optimizer distribution and the Analyzer distribution will contain some of the same control programs. Always use the most current version. The version is contained in the vxxx.h file (where xxx equals the program's name).

7.1.5 Dual Server Configuration

To set up a dual server configuration follow the below steps (refer to the Implementation Plan Guide - - EDC Analyzer™ for further information):

1. Run the Analyzer installer (EZG_Vvv_XXX_Analyzer_Vvvvv.vv.exe) on your EASYGroup™ environment or, if your EASYGroup™ environment is an UNIX® or mainframe environment, run the Analyzer on a Windows® environment and copy the appropriate files to your EASYGroup™ environment. The XXX represents the associated Analyzer.
2. For Windows® environments, edit the below highlighted host name/IP address in the hsssetup.ini file (available in C:\Windows) on the EASYGroup™ environment to point to the Analyzer logging environment.

   
   [EASYGroup™]
   Customer ID=5BFA217A
   EzgLoggingHost=127.0.0.1
   LoggingPort=6666

   For UNIX™ environments, create environment variables to point to the Analyzer logging environment:

   
   export EzgLoggingHost=127.0.0.1
   export LoggingPort=6666
Note
These environment variables may be added to the user's profile instead of executing these commands.

3. Run the installer again on the Analyzer logging environment.

7.2 COBOL Platform Installation Steps

Note
The COBOL Platform Analyzer is only supported on the IBM™ z/OS® (formally called MVS) environment. IBM™ z/OS® requires that the z/OS® Communication Server is present and configured on the host system for both Batch and CICS. Additionally, CICS TCP/IP must be configured for CICS.

The correct configuration of these products is the responsibility of the user, as this configuration is at the operating system level and outside the normal scope of Optum support. As such, these tasks MUST be completed by individual clients and MUST be performed prior to the installation. Please contact your IT department, department responsible for configuration of operating systems, and/or your IBM™ support representative to configure these products.

To install the Analyzer, you must perform the following tasks:
1. Copy installer to disk.
2. Install the Analyzer.
3. Transfer the Analyzer source and data files to the target system.
4. Build the Analyzer on the target system.
5. Run the Test Driver program and verify the results.

7.2.0.1 Initial Install Instructions
It is recommended that you build and test the Analyzer in a separate test environment first, rather than in your production environment. After testing the distribution via the included Test Driver program, you can migrate the necessary programs and files to your production environment.

7.2.1 Software Distribution
The Analyzer software is available to download either via the Optum Update Wizard, the Regulatory Portal, or the Optum Client Portal. The Analyzer component files are stored in compressed (.cab) files and can only be installed via the automated setup program.
7.2.2 Running the Automated Setup Program

For information on how to run the automated setup program please refer to the Running the Automated Setup Program above.

7.2.3 Copying Files From the Distribution

Distributions are downloaded from the Optum Update Wizard, the Regulatory Portal, or the Optum Client Portal and copied to local workstation directories via the bundled installer program. From there, the distribution files need to be copied to the host system. For the majority of systems, this means that the destination libraries and sequential files need to be preallocated on the host system. The actual transfer can be accomplished using basic FTP protocols.

Note
Optum recognizes that every client has their own procedures in place for managing software distributions. Optum strongly recommends that each EASYGroup™ distribution be installed and compiled to its own set of data sets during the installation process. Attempting to install multiple distributions into a single set of data sets can result in current components being replaced by older, obsolete versions which can lead to product instability and/or failure.

7.2.4 Building EASYGroup™ for Batch Processing

The EASYGroup™ program source is set up to initiate dynamic calls. These programs can be compiled and link-edited without reference to other objects. Before compiling and linking the Test Driver and I/O handling programs you may need to modify each ENVIRONMENT DIVISION to insure that file access procedures are appropriate for your system. That is, you must ensure that the programs are able to access all input and output files accurately. The EASYGroup™ source must be compiled and linked (including the Test Driver) to create executable components that can be run against the test database.

Details on the input and output utilized by each program are presented in the Input & Output Parameter Blocks User’s Guide and Input & Output Parameter Blocks Workbook.

7.2.5 Building EASYGroup™ for CICS Processing

The CICS online EASYGroup™ components consist of a number of CICS command level programs which require a standard CICS compile procedure using the CICS precompiler. The order that they are compiled and linked is unimportant since the program source is set to use dynamic calls.

Note
The CICS command-level stub cannot be dynamically called, and as such, the NODYNAM compiler option is required for programs translated by the CICS translator. Similarly, the CEZGCOMM program used by the Analyzer utilizes the CICS Sockets Extended Module (EZASOKET) API and cannot
be dynamically called. In a CICS program, the call to EZASOKET must be a static call. Any attempt at issuing a dynamic call will cause unpredictable results.

The entry point for the EZASOKET is within the hlq.SEZATCP (EZACICAL) load module and should be resolved from there when processed by the binder. Therefore, EZACICAL should be included explicitly in your link-editing JCL. If not included, users may experience problems, such as the CICS region waiting for the socket calls to complete.

7.2.6 Testing EASYGroup™

You are now ready to test the Analyzer. This is done by running the executable modules created in the previous step against the test database via the Test Driver.

The Test Driver will open the test database for input and the line printer will be opened for output. The results of the Test Driver program will be written to the printer. Each record read from the test database will be passed to the Analyzer. The information, as stored on the test record, will then be printed. The Test Driver will then compare the information stored on the test record against the output fields returned by the Analyzer. If results do not match, an additional line will be printed. This line will label the record as a mismatch and display all fields calculated by the Analyzer. A successful run of the Analyzer on the test database will have no mismatches. When all test records have been read, the Test Driver will print a summary of the number of records processed, as well as a total of any mismatches encountered.

Testing of the CICS online portion of the Analyzer can be performed via a background task using a modified version of the Test Driver in conjunction with two dedicated TD Queues. However, since this method can be rather involved and time consuming in order to minimize the amount of effort on the part of the user, support for this is not included with the distribution. Optum recommends integrating the CICS programs with your system in order to perform online testing. Should a user wish to test via a background task, please contact the Optum Client Services.

Note

Both the Optimizer distribution and the Analyzer programs will contain some of the same control programs. Always use the most current version. The version is contained in the vxxx.h file (where xxx equals the program’s name).

7.2.7 Dual Server Configuration for IBM™ Mainframe Environments

If you are utilizing the Analyzer on a IBM™ Mainframe environment you MUST set up a dual server configuration. The Analyzer logging module is only supported in Windows® and, as such, one Windows® server is required for
the logging module and a second IBM™ Mainframe server is required for the Analyzer itself. To complete the dual server configuration follow the steps below:

1. Run the Analyzer installer.
2. Copy the appropriate files to your EASYGroup™ environment.
3. Run the installer again on the Analyzer logging environment.
8 Installation Procedures to Use the 3M™ GPS/3M™ GPCS

This section provides the installation procedures for the EASYGroup™ components that interface with the 3M™ Grouper Plus System (GPS) and/or the 3M™ Grouper Plus Content Services (GPCS).

Note
Before installing any EASYGroup™ component or installing/configuring the 3M™ GPS/3M™ GPCS, please refer to the minimum hardware/software requirements in Chapter 2. If your system conforms to these requirements, then you may proceed below.

This chapter contains the following sections:

- 3M™ GPS/GPCS Software Distributions
- 3M™ GPS Installation Overview
- 3M™ GPS Installation Procedures
  - Win32/Win64 Installations
  - AIX®/Solaris™ Installations
  - Testing - Win32/Win64
  - Configuring - UNIX®
  - Testing - Source
  - Building and Testing EASYGroup™ Components
  - Testing Output
- 3M™ GPCS Installation Overview
- 3M™ GPCS Installation Procedures
  - Migration Steps
  - 3M™ GPCS Configuration
    - Step One: Set-Up Certificates
    - Step Two: Update Environmental Variables
  - Installing the GPCS Wizard
Important

Please note, certain operating systems (Microsoft® Windows® Vista and higher) require users to right-click on the individual installer executable and/or the Optum Update Wizard executable (UpdateWizard.exe) and select **Run as administrator** before the install can commence. This step needs to be completed even if the user is logged into Windows® as an Administrator.

Figure 8-1. Run as Administrator Option

---

### 8.1 3M™ GPS/GPCS Software Distributions

The 3M™ GPS distribution contains the 3M™ GPS system files and the 3M™ TRICARE Outpatient Pricer Tables. The 3M™ GPS Source files are available for Windows®, AIX®, and Solaris™.

The 3M™ GPCS distribution contains the 3M™ GPCS configuration utility (i.e., the Wizard). The EASYGroup™ program files (listed in Table 8-1 below) that are used as a communication line between EASYGroup™ and the 3M™ GPCS are a part of the corresponding EASYGroup™ component distribution (i.e., the Alternate ICD-10 Mapper, the TRICARE APC Editor, the TRICARE APC Pricer, the APG Grouper, and the APR-DRG Grouper (V1710.00 and higher)). These files are available for Windows®.

**Table 8-1: EASYGroup™ Program Files for the 3M™ GPCS**

<table>
<thead>
<tr>
<th>File Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>aprcp.dll</td>
<td>Contains the APR-DRG business logic.</td>
</tr>
<tr>
<td>cdmmap4cp.dll</td>
<td>Contains the Alternate ICD-10 Mapper business logic.</td>
</tr>
<tr>
<td>eapggrp.dll</td>
<td>Contains the EAPG business logic.</td>
</tr>
<tr>
<td>ezgpcs.dll</td>
<td>General interface program that converts EASYGroup™ format to and from GPCS format.</td>
</tr>
<tr>
<td>triecp.dll</td>
<td>Contains the TRICARE APC Editor business logic.</td>
</tr>
<tr>
<td>tripcp.dll</td>
<td>Contains the TRICARE APC Pricer business logic.</td>
</tr>
</tbody>
</table>

UNIX® clients will see a **CPSSource** folder after running the above-mentioned EASYGroup™ component installers. Clients will need to compile the applicable files from this folder (refer to Table 8-1).
The default installation locations are as follows:

- **3M™ GPS:**
  
  C:\Program Files\3mhis  or  
  C:\Program Files (x86)\3mhis

- **3M™ GPCS Wizard:**
  
  C:\EASYGroup

### 8.1.1 APR-DRG and APG Grouper Distributions

The EASYGroup™ APR-DRG and APG Grouper distributions contain:

- APR-DRG and APG Grouper system programs
- Test files
- APG or APR-DRG label files (these files are not required to run the APG Grouper or the APR-DRG Grouper).

#### 8.1.1.1 Distribution Options

All available distribution options for EASYGroup™ components are placed on a single distribution. Each distribution option (Windows®, Source, or Server) can be installed separately using the Automated Setup Program. The Windows® and Server components are stored in compressed (.cab) files and can only be installed via the Automated Setup Program. The Source components are stored uncompressed on the distribution in the CSource directory and can be installed automatically using the Automated Setup Program, or manually using commands appropriate for your working environment.

### 8.1.2 TRICARE APC Pricer and Editor Distributions

The EASYGroup™ TRICARE APC Pricer and TRICARE APC Editor distributions contain:

- TRICARE APC Pricer and TRICARE APC Editor system programs
- Test files

All available distribution options for EASYGroup™ components are placed on a single distribution. For further information please refer to Distribution Options section above.

### 8.1.3 Alternate ICD-10 Mapper Distributions

The EASYGroup™ Alternate ICD-10 Mapper distribution contains:

- Alternate ICD-10 Mapper system programs
- Test files

All available distribution options for EASYGroup™ components are placed on a single distribution. For further information please refer to Distribution Options section above.
8.1.4 Default Installation Locations

Table 8-2: Default EASYGroup™ Installation Locations

<table>
<thead>
<tr>
<th>EASYGroup™ Component</th>
<th>Path</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Server:</strong></td>
<td>C:\EASYGroup\Server or C:\EASYGroup\Server64</td>
</tr>
<tr>
<td><strong>Source:</strong></td>
<td></td>
</tr>
<tr>
<td>APG Grouper:</td>
<td>C:\EASYGroup\Groupers\EAPG\ALL\CSource</td>
</tr>
<tr>
<td>APR-DRG Grouper:</td>
<td>C:\EASYGroup\Groupers\APR-DRG\ALL\CSource</td>
</tr>
<tr>
<td>TRICARE APC Pricer:</td>
<td>C:\EASYGroup\Pricers\TRICARE\CSource</td>
</tr>
<tr>
<td>TRICARE APC Editor:</td>
<td>C:\EASYGroup\Editors\TRICARE\CSource</td>
</tr>
<tr>
<td>Alternate ICD-10 Mapper:</td>
<td>C:\EASYGroup\Alternate ICD10 Mapper\CSource</td>
</tr>
<tr>
<td><strong>Windows®:</strong></td>
<td></td>
</tr>
<tr>
<td>APG Grouper:</td>
<td>C:\EASYGroup\Groupers\EAPG\ALL\Win32 or C:\EASYGroup\Groupers\EAPG\ALL\Win64</td>
</tr>
<tr>
<td>APR-DRG Grouper:</td>
<td>C:\EASYGroup\Groupers\APR-DRG\ALL\Win32 or C:\EASYGroup\Groupers\APR-DRG\ALL\Win64</td>
</tr>
<tr>
<td>TRICARE APC Pricer:</td>
<td>C:\EASYGroup\Pricers\TRICARE\Win32 or C:\EASYGroup\Pricers\TRICARE\Win64</td>
</tr>
<tr>
<td>TRICARE APC Editor:</td>
<td>C:\EASYGroup\Editors\TRICARE\Win32 or C:\EASYGroup\Editors\TRICARE\Win64</td>
</tr>
<tr>
<td>Alternate ICD-10 Mapper:</td>
<td>C:\EASYGroup\Alternate ICD10 Mapper\Win32 or C:\EASYGroup\Alternate ICD10 Mapper\Win64</td>
</tr>
</tbody>
</table>

8.2 3M™ GPS Installation Overview

To install the 3M™ GPS, you must perform the following tasks:

1. Copy the 3M™ GPS distribution files to disk via the Optum Update Wizard.
2. Run the Automated Setup Program.
3. Test the 3M™ GPS.

To install EASYGroup™ components, you must perform the following tasks:

1. Copy the EASYGroup™ product distribution files to disk via the Optum Update Wizard.
2. Run the Automated Setup Program.
3. Build the EASYGroup™ components (Source distributions only).
4. Test the EASYGroup™ components.
Important
New versions of the 3M™ GPS should be installed prior to installing any updates to EASYGroup™ components.

8.3 3M™ GPS Installation Procedures

8.3.1 Win32/Win64 Installations
If you are installing the 3M™ GPS software for the first time, the Windows®-based setup program will guide you through a complete installation sequence that permits you to:

- Enter a user-specified directory path or location for the distribution.
- Install the program components.
- Configure select environmental variables.

It is recommended that you install the 3M™ GPS onto a separate Windows®-based test machine, rather than on a production environment. After running the Automated Setup Program and compiling and/or testing the distribution, you can copy the necessary files to your production platform using commands appropriate for your working environment.

Note
If a previous version of the 3M™ GPS is installed, the setup program will automatically uninstall the old version and then install the new version.

Follow these steps before installing the 3M™ GPS:
For 64-bit Environments:

1. Check to make sure your environment meets the required minimum hardware/software requirements. Please refer to Chapter 2 for further information.
2. Download and install the 64-bit version of Java™.
3. Download and install the latest version of the Microsoft® Visual C++ Redistributable.
4. As long as you have downloaded and installed Java™, the HSSJVM64 environment variable located in the hsssetup.ini file in the Windows® directory it will automatically be set to point to the location of the newly installed 64-bit Java™ jvm.dll file.
Figure 8-2. Example HSSJVM64 Environmental Variable in *hsssetup.ini* File

```
[EZGPS]
GRPCFG=C:\Program Files (x86)\3mhis\gps\n
MMM_GPS_JAR=C:\Program Files (x86)\3mhis\gps\jars\3mgps.jar

HSSJVMOPTION=-Xmx120m

**HSSJVM64=C:\Program Files\Java\jre1.8.0_51\bin\server\jvm.dll**
```

**Note**

If Java™ is installed to a different location than the above example, please enter the path appropriately.

8.3.1.1 Running the Setup Launcher

Follow the below steps to run the 3M™ GPS Setup Launcher.

1. Download the 3M™ GPS via the Optum Update Wizard. Double-click on the 3MGPS_ VVV.V.V.exe file to launch the Setup Launcher.
2. Select the **Next** button to proceed.
3. Select the **I accept the license agreement, required to continue this install** radio button, then select the **Next** button to continue.
4. Select the **Browse...** button to change the installation path, or select the **Next** button to continue and accept the default installation path (C:\Program Files\3mhis\gps).

For 64-bit environments, this path will default to: C:\Program Files (x86)\3mhis\gps. If upgrading to a new version of the 3M™ GPS, this screen will not be displayed and the original path set during the initial installation will be used.

**Note**

This path will be used to set the GRPCFG and MMM_GPS_JAR environment variables.
5. Review the Java™ heap size value shown in the Heap Size text box versus the recommended values displayed on the screen and modify as needed. It is required that users set the Java™ heap size to 128MB (minimum) or higher.

**Note**

The specified heap size value will be used to set the HSSJVMOPTION environment variable.

6. Select the **Next** button to proceed.

7. Next, you will see the Setup Status dialog box.
8. During this final step, the Install Shield Wizard will run a final verification check. This step will verify that the 3MPay_Optum folder has been successfully renamed to 3MPay. If the verification check finds a fatal error the following dialog box will be displayed. Users will be instructed to reinstall the 3M™ GPS and an unsuccessful installation will be logged in the hsssetup.txt file.
9. When complete, the **InstallShield Wizard Complete** dialog box will be displayed.
10. Select the **Finish** button to exit the Setup Launcher. Your installation is now complete.

**Note**
The Setup Launcher moves a 3M™ schedule database into the `\3mhis\gps` directory. The database is contained within the **3Mpay** folder. The database contains the appropriate configuration settings for New York Medicaid APG grouping and TRICARE APC pricing. An error will be displayed if the Setup Launcher fails to move the **3Mpay** folder.

11. As a last step, download and install any necessary EASYGroup™ programs (e.g., the TRICARE APC Pricer, TRICARE APC Editor, APG Grouper, APR-DRG Grouper, Alternate ICD-10 Mapper) from the Optum Update Wizard using the procedures outlined in Chapter 6.

**8.3.1.2 Set Environment Variables**

**Important**
The following process is for Windows® environments only. Only follow this process **if you wish to change** the environment variables that were set by running the Setup Launcher.

The Setup Launcher sets the below three environment variables during the installation process based on what options/values you select during install. These environment variables are set in both the `hsssetup.ini` file in the Windows® directory and in the system environment variables. If no changes are made during installation the following defaults are used:

<table>
<thead>
<tr>
<th>Variable</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>GRPCFG</td>
<td>C:\Program Files\3mhis\gps (32-bit) or C:\Program Files (x86)\3mhis\gps (64-bit)</td>
</tr>
<tr>
<td>MMM_GPS_JAR</td>
<td>C:\Program Files\3mhis\gps\jars\3mgps.jar (32-bit) or C:\Program Files (x86)\3mhis\gps\jars\3mgps.jar (64-bit)</td>
</tr>
<tr>
<td>HSSJVMOPTION</td>
<td>-Xmx128m</td>
</tr>
</tbody>
</table>

If necessary, these environment variables can be modified in the `hsssetup.ini` file and through the Windows® Control Panel as described below.

**How to Modify via the `hsssetup.ini` File:**

1. Locate the `hsssetup.ini` file in the **Windows®** directory.

2. Once you open this file (it will open as a Notepad™ document) you can manually add/change your environment variables. Your settings should look like the following:
3. Select **File>Save** when completed and close the file.

**How to Modify via the Windows® Control Panel:**

1. Go to **Start>Control Panel**.
2. Select, **System**.

Figure 8-10. System Screen

3. Select **Advanced system settings**.
4. You will then see the **System Properties** dialog box appear.
4. Select the **Environment Variables**... button.
5. Look for the variables called HSSJVMPTION, MMM_GPS_JAR, and GRPCFG. To edit each variable, select each one individually and then select the Edit... button.
6. Change the variable values as desired. The HSSJVMOPTION environment variable must be set to 100 MB (minimum) or higher. To do this set the variable value to:\texttt{-Xmx128m} (where 128 = Java™ heap size).

7. If the HSSJVMOPTION, MMM_GPS_JAR, and GRPCFG variables are present, select the New... button and add these variables as shown in Figure 8-13 above.

8.3.2 AIX®/Solaris™ Installations
If you are installing the 3M™ GPS software for the first time, the Windows®-based setup program will guide you through a complete installation sequence that permits you to:

• Enter a user-specified directory path or location for the distribution.

• Install the program components.

It is recommended that you install your 3M™ GPS onto a separate test machine, rather than on your production environment. After running the Automated Setup Program and compiling and/or testing the distribution, you can copy the necessary files to your production platform using commands appropriate for your working environment.

8.3.2.1 Running the Setup Launcher
Follow the below steps to run the 3M™ GPS Setup Launcher.

1. Download the 3M™ GPS via the Optum Update Wizard. Select the 3MGPS\_AIX\_vvvv.v.v.exe (for AIX®) or 3MGPS\_Sol\_vvvv.v.v.exe (for Solaris™) to launch the Setup Launcher program.
2. Select the **Next** button to proceed.
3. Select the **I accept the license agreement, required to continue this install** radio button, then select the **Next** button to continue.
4. Select the **Browse...** button to change the installation path, or select the **Next** button to continue and accept the default installation path of `C:\Program Files\3mhis\gps`.

   For 64-bit environments, this path will default to `C:\Program Files (x86)\3mhis\gps`. If upgrading to a new version of the 3M™ GPS, this screen will not be displayed and the original path set during the initial installation will be used.
5. When complete, the **InstallShield Wizard Complete** dialog box will be displayed.

6. Select the **Finish** button to exit the Setup Launcher. Your installation is now complete. The Setup Launcher will install the following files in the path specified during install:
   - install.bin
   - 3Mpay (folder)
   - Docs (folder)
   - Test (folder)

7. Next, download and install any necessary EASYGroup™ programs (e.g., the TRICARE APC Pricer, TRICARE APC Editor, APG Grouper, APR-DRG Grouper, Alternate ICD-10 Mapper) from the Optum Update Wizard using the procedures outlined in Chapter 6. These distributions contain **CSource** folders with the source files of the EASYGroup™ interface to the 3M™ GPS which are needed to complete the installation of the 3M™ GPS.

8. Conduct an ASCII transfer of the **CSource** folder contents to the testing environment.
9. Then, conduct a binary transfer of the appropriate install.bin to the testing environment.

10. Set the required environment variables as needed for the 3M™ GPS:

   Table 8-2: Required Environment Variables - 3M™ GPS

<table>
<thead>
<tr>
<th>Variable</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>GRPCFG</td>
<td>/opt/3mhis/gps</td>
</tr>
</tbody>
</table>
| HSSJVM*      | /opt/3mhis/gps/jre/bin/classic/libjvm.so     *
|              | AIX only                                      |
| HSSJVM*      | /opt/3mhis/gps/jre/lib/sparc/libjvm.so       *
|              | Solaris only                                 |
| LIBPATH*     | /opt/3mhis/gps/jre/lib/ppc/opt/3mhis/gps/jre/lib/ppc/j9vm *
|              | AIX only                                      |

**Note**
This variable should only be set for clients who are utilizing Java™ v8.0 and above.

| MMM_GPS_JAR  | /opt/3mhis/gps/jars/3mgps.jar                |

   Table 8-3: Optional Environment Variables - 3M™ GPS

<table>
<thead>
<tr>
<th>Variable</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>HSSJVMOPTION</td>
<td>Additional option that should be passed to the Java™ Virtual Machine (JVM) that the interface creates.</td>
</tr>
<tr>
<td>HSSJVMVERBOSE</td>
<td>This is used by the EASYGroup™ interface. It determines if certain information should be written to the log.</td>
</tr>
</tbody>
</table>

11. Within the EASYGroup™ distribution, execute: make installgps. This command runs the 3M™ GPS software silently.

12. Verify that you receive the Installation Complete message at the end of the install and that the /opt/3mhis installation path now exists.

**Note**
The 3M™ GPS installs JRE v1.6 in the directory that the 3M™ GPS installs to. This JRE should not interfere with any other Java™ JRE versions that already exist on your system.

13. As a last step, conduct a binary transfer of the 3Mpay folder to: /opt/3mhis/gps.
8.3.3 Testing - Win32/Win64

A test of the 3M™ GPS is recommended prior to testing the EASYGroup™ distribution.

Note
For the following steps, path is the directory path or location where the 3M™ GPS files are stored. For example, C:\Program Files or C:\Program Files (x86) (default installation path for the 3M™ GPS).

The test files are automatically placed into the Test directory.

1. From the Windows® Start menu, type run in the text box. Select the Run option.
2. Type the following command (on one line):
   path\3mhis\gps\test\gpstest.exe
3. Select OK.
4. A series of output files will appear in the path\3mhis\gps\test\output directory. Using a comparison tool, compare the eapgs.out, tricareoceapcvvv.out, tricareopps_reimb.out, or the aprvvv.out files in the path\3mhis\gps\test\expected directory with the matching files in the path\3mhis\gps\test\output directory.
5. A successful test of the 3M™ GPS installation is achieved when the output files in the Expected directory match the output files in the Output directory.

8.3.4 Configuring - UNIX®

Set the environment variables needed for all EASYGroup™ CSource compiles. Create an environment variable (HSSDLLFLAGS). This variable will need to be set based on your specific configuration. Depending on the compiler and platform being used, the command may need to be modified for the user’s working environment. For example:

HSSDLLFLAGS=-G
export HSSDLLFLAGS

Refer to Table 8-4 below for suggestions. The environment variable may be added to the user’s profile instead of executing these commands.

Table 8-4: Configuration Settings for Shared Libraries

<table>
<thead>
<tr>
<th>Computer</th>
<th>Operating System</th>
<th>Compiler</th>
<th>Command</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ultra Spark</td>
<td>Solaris™ V8</td>
<td>GCC 3.4.2</td>
<td>-G</td>
</tr>
<tr>
<td>Power PC</td>
<td>AIX® V5.1</td>
<td>GCC 4.0.0</td>
<td>-shared</td>
</tr>
</tbody>
</table>
**Note**
The (HSSDLLFLAGS='-G') command utilizes a specific configuration. Depending on the compiler and platform being used, this command may need to be modified for the user’s working environment.

Please note that the example above may vary. This may be true for most configurations, but may need to be configured differently. The following variable is for testing only: HSSFLAGS=’ansi -Os -mepu=ultrasparc.’

The environment variable may be added to the user’s profile instead of executing these commands. Set the environment variables needed to compile the EASYGroup™ interface. Create an environment variable (HSSJAVADLLFLAGS). This variable will need to be set based on your specific configuration. Depending on the compiler and platform being used, the command may need to be modified for the user’s working environment. For example:

HSSJAVADLLFLAGS=-lthread (Solaris™ Only)

Copy the jni.h file to the location of the EASYGroup™ Source code that is to be compiled. These header files can be found by typing the following command:

–find / -name jni.h

**Note**
If an environment has multiple jni.h files, please verify that the appropriate jni.h file has been copied to the location of the EASYGroup™ Source code.

Point to the location of the EASYGroup™ Source code and execute the **Make Dynamic** command to build the EASYGroup™ interface and batch tester. Set the environment variable for the Java™ Virtual Machine location:

HSSJVM= /opt/3mhis/gps/jre/lib/sparc/libjvm.so

The above example may vary.

**Note**
Please be aware that multiple libjvms may be present in the user environment. Please verify that you are referencing the appropriate libjvm.
8.3.5 Testing - Source

A test of the 3M™ GPS is recommended prior to testing the EASYGroup™ component(s).

**Note**
For the following steps, the path is the directory path or location where the 3M™ GPS tester and test files are stored. For example, /opt/3mhis/gps/test/ (default installation path for the 3M™ GPS).

1. Navigate to the path (refer to the above note).
2. Next, you will need to execute the below commands to create the following directories:
   ```
   mkdir expected
   mkdir input
   mkdir output
   ```
3. Extract the `gpstestcases_vyyyyqs.zip` file contained in the distribution to the path.
4. Copy the `.in` and `.out` file(s) to the Input and Expected folders by executing the following commands:
   ```
   cp <eapgs.in, tricareoceapcvvv.in, tricareopps_reimb.in, or aprvvv.in> input
   cp <eapgs.out, tricareoceapcvvv.out, tricareopps_reimb.out, or aprvvv.out> expected
   ```
5. Execute the following command to run the tester:
   ```
   gpstest
   ```
6. Lastly, compare the Output file and the Expected file by executing the following command:
   ```
   diff -b expected/ <eapgs.out, tricareoceapcvvv.out, tricareopps_reimb.out, aprvvv.out>output/ <eapgs.out, tricareoceapcvvv.out, tricareopps_reimb.out, aprvvv.out>
   ```
7. A successful test of the 3M™ GPS installation is achieved when the Expected and Output files match.

8.3.6 Building and Testing EASYGroup™ Components

**8.3.6.1 APG Grouper, APR-DRG Grouper, TRICARE APC, & Alternate ICD-10 Mapper – Win32/Win64**

Windows® DLL users test the APG Grouper, the APR-DRG Grouper, the TRICARE APC Pricer, the TRICARE APC Editor, and the Alternate ICD-10 Mapper by running the DLL version of the Test Driver on the test database provided with the distribution.
Note
The 3M™ GPS is required to run the Test Driver. These files are distributed in a separate distribution and must be installed prior to running the Test Driver.

1. Open the APG Grouper, the APR-DRG Grouper, the TRICARE APC Pricer, the TRICARE APC Editor, or the Alternate ICD-10 Mapper directory. Refer to the Default Installation Locations section above.

2. Double-click one of the below applicable files to execute:
   ogtest.exe (for the APG Grouper)
   igtest.exe (for the APR-DRG Grouper)
   optest.exe (for the TRICARE APC Pricer)
   tritest.exe (for the TRICARE APC Editor)
   maptest.exe (for the Alternate ICD-10 Mapper)

A successful run of the APG Grouper, the APR-DRG Grouper, the TRICARE APC Pricer, the TRICARE APC Editor, or the Alternate ICD-10 Mapper on the test database will have no mismatches. The results of the Test Driver program are written to the screen unless redirected elsewhere.

3. Close the Test Driver window when complete.

If there are mismatches:

1. Create a file called logcntl.txt in the same directory as the EASYGroup™ component to log debugging information.

2. Re-process the batch test data using the EASYGroup™ batch tester by double-clicking the applicable executable file listed above. Debugging information should write to the logcntl.txt.

3. Provide the logcntl.txt to Optum Client Services for further assistance in completing the installation of the EASYGroup™ component.

8.3.6.2 APG Grouper, APR-DRG Grouper, TRICARE APC, & Alternate ICD-10 Mapper - Source
As distributed, the Optimizer Source code is structured to call Editors, Groupers, Mappers, and Pricers as dynamically-linked modules (such as UNIX® shared libraries) where the Optimizer dynamically loads these Editors, Groupers, Mappers, and Pricers. The Source facilitates dynamic linking in the UB-04/ICD-10 structures.

The EASYGroup™ software consists of a collection of source files that must be compiled and linked together. It is suggested that you first build the EASYGroup™ software using the Test Driver program included with your distribution. This will allow you to run the EASYGroup™ software on the test database and verify that it is operating properly.
The Test Driver opens the specified test database for input. A successful run of EASYGroup™ software on the test database will have no mismatches. The results of the Test Driver program are written to the screen unless redirected elsewhere.

Use the steps outlined below to compile and link the EASYGroup™ software using the Test Driver. A sample “make” file has been provided (makefile). It is expected that this file will need to be modified for your environment.

8.3.6.3 Source Users with Dynamic Linking
Dynamic linking shared libraries are supported in most UNIX® environments. UB-04/ICD-10 formats are available for dynamic linking.

**Note**
When utilizing dynamic linking all EASYGroup™ modules must be dynamically linked.

1. For each EASYGroup™ component you plan on using, create separate directories in your working environment, and then copy all of the Source files to the appropriate directories.

2. Create an environment variable (HSSDLLFLAGS) by entering the following in the working environment.
   
   HSSDLLFLAGS='-G'
   export HSSDLLFLAGS

   Refer to Table 8-4 for suggestions. The environment variable may be added to the user’s profile instead of executing these commands.

3. Create the EASYGroup™ component DLLs by entering the following in the working environment:
   
   make dynamic

4. Test the EASYGroup™ component DLLs by entering the following in the working environment:
   
   make dtest

   Refer to the section titled Test Driver for a description of the command options.

5. Copy the resulting EASYGroup™ component DLLs to your Optimizer processing directory.

**Note**
When copying a control program to your production environment, compare the version information from the appropriate header file on this distribution with the header file associated with the control file in your production environment. Copy the control file to your production environment only if the control program on the EASYGroup™ release has a later version number than the control program currently in production.
8.3.7 Testing Output

The Test Driver opens the EASYGroup™ component tables, as well as the specified test database for input. Each record read from the test database is assigned to one or more classification, and other related output fields. The Test Driver compares the classification information stored on the test record to the classification fields just calculated by the EASYGroup™ component. If results do not match, a line of output will be displayed. This line displays the sequential number of the problem record, labels the record as a mismatch, and displays the fields that have mismatched.

8.3.7.1 Test Driver

A Test Driver has been supplied with your EASYGroup™ distribution. This Test Driver has been configured to run on the test databases supplied with your EASYGroup™ component distributions. The specific commands required to run this Driver to verify the installation of the EASYGroup™ component are described in the next section.

The Test Driver is invoked using the following command:

```
drivername [options] [input_file [output_file [error_file]]]
```

The available options are described below:

- `-c` Optional. Calls the EASYGroup™ component through the applicable control program.
- `-i` The input file will contain the input log.
- `-o` The output file will contain the input log, plus the grouping/pricing/editing, etc results.
- `-O` Optional. Calls the EASYGroup™ component through the Optimizer.
- `-2` Optional: Runs the EASYGroup™ component with two (2) simultaneous threads. Available for Windows® 32/64-bit only.

8.4 3M™ GPCS Installation Overview

To utilize the 3M™ GPCS, you must perform the following tasks:

1. Receive, download/install, and configure the applicable certificates.
2. Run the Automated Setup Program to install and run the Optum 3M™ GPCS configuration utility (i.e., the GPCS Wizard).
3. Configure the required environmental variables.
4. Build/install the appropriate EASYGroup™ components (Source distributions only).
5. Test the EASYGroup™ components.

If you are utilizing the 3M™ GPCS for the first time, the Windows®-based setup program and in turn the GPCS Wizard will guide you through a complete installation sequence that permits you to:
• Install the GPCS Wizard.
• Configure select environmental variables.
• Configure the applicable certificates.

To install EASYGroup™ components, you must perform the following tasks:
1. Copy the EASYGroup™ product distribution files to disk via the Optum Update Wizard.
2. Run the Automated Setup Program.
3. Install/build the EASYGroup™ components (Source distributions only).
4. Test the EASYGroup™ components.

Follow these steps before utilizing the 3M™ GPCS:
1. Check to make sure your environment meets the required minimum hardware/software requirements.
   a.) This includes downloading and installing Microsoft® Visual C++ 2015 Redistributable. Please refer to Chapter 2 for further information.

8.5 3M™ GPCS Installation Procedures

The cloud-based 3M™ GPCS may be used in place of the locally installed 3M™ GPS to perform editing, grouping, and pricing functions for claims that are paid using APR-DRG, AP-DRG, APG, or TRICARE APC methodologies. Clients can contact Optum Client Services to inquire about moving to this product.

8.5.1 Migration Steps

Please refer to the below configuration instructions for migration steps, required interface changes, and other technical details. Clients will be required to install certificates to use the 3M™ GPCS. Please refer to the below configuration instructions for steps on how to obtain these certificates. Please contact Optum Client Services for any questions or assistance you may need.

8.5.2 3M™ GPCS Configuration

To successfully migrate to the 3M™ GPCS clients must follow the below steps.

8.5.2.1 Step One: Set-Up Certificates

Certificates are required to process claims with the 3M™ GPCS. Certificates are managed and created by Optum and are available on the Optum Client Portal or through ECG Quick Connect. Clients need to download the .zip file once they are given access.
Note

Contact Optum Client Services or your Optum Client Manager to receive the required certificates.

Certificates expire and have to be renewed every four years.

Clients will need to save the XXX.p12 and the XXX_cert.pem certificate files in the appropriate directories (same location as EASYGroup™) which are defined in the hsssetup.ini file (refer to Figure 8-18 below). If a certificate is not present or is invalid clients will receive Return Code 65 (Invalid Certificate). There are two types of certificates available from 3M™ for the GPCS: User Certificates and Super Certificates.

• User Certificates

User Certificates are for clients who install Optum products on their own environments/servers. Unique keys are not needed with User Certificates. Most clients will fall into this category.

• Super Certificates

Super certificates should be utilized when a server running the 3M™ GPCS is used by multiple organizations via a hosted system. Each client/Payer will be given a unique key to be managed under one certificate. 3M™ uses this unique key to determine which client on the hosted environment the claim originated from. This is needed so that 3M™ can better troubleshoot any issues encountered by a client in the cloud. This key must be passed in with every GPCS-required claim. If the key is not valid, clients will receive Return Code 65 (Invalid Certificate). This key must be passed in the following new field:

Table 8-5: Organization Identifier Key

<table>
<thead>
<tr>
<th>Field Description</th>
<th>Variable Name</th>
<th>Format</th>
<th>Position</th>
<th>Structure</th>
</tr>
</thead>
<tbody>
<tr>
<td>Organization Identifier</td>
<td>org_id</td>
<td>X(100), string</td>
<td>863 - 962</td>
<td>PCB1 [patient_claim_data]</td>
</tr>
</tbody>
</table>

Clients will need to update their interface to pass the new Organization Identifier field. The following components have been updated with this new field and are required to utilize the 3M™ GPCS (if applicable):

- ECM Pro™ Inpatient Web Service V1512.00 or higher
- ECM Pro™ Outpatient Web Service V1512.01 or higher
- EASYGroup™ Web Service V1610.00 or higher
- Web.Strat™ V1711.00 or higher
- Optum Exchange PPS (OEPPS) V1706.01 or higher
8.5.2.2 Step Two: Update Environmental Variables
There are several variables (refer to the below list) that must be set to allow EASYGroup™ to communicate with the 3M™ GPCS. These variables are defined in the hsssetup.ini file and are set/modified by the GPCS Wizard (for further information please refer to page 129).

[EASYGroup] section of the hsssetup.ini file

GPSInterfaceOption
- Could be set to 3M™ GPS or 3M™ GPCS
- Should always be set for new installations
- The 3M™ GPS will be assumed if this variable is not set

[logcntl] section of the hsssetup.ini file

LogcntlOutputLevel
Required to receive 3M™ GPCS-level logging. Standard 3M™ GPCS values are:
- 16 = DEBUG
- 32 = MESSAGE
- 48 = BOTH
- 63 = GPCS and EZG logging (recommended setting)

[EZGPCS] section of the hsssetup.ini file

GPCS_P12CertFileName="C:\<path to file>"
- Location of open SSL certificate to work with the EASYGroup™ interface (encrypted)
- Downloaded from the Optum Client Portal
- Expect Return Code 65 (Invalid Certificate) without this information
- The certificate has to be installed on the local machine

GPCS_PEMCertFileName="C:\<path to file>"
- Location of open SSL certificate to work with the EASYGroup™ interface (public)
- Downloaded from the Optum Client Portal
- Expect Return Code 65 (Invalid Certificate) without this information
- This certificate has to be installed on the local machine

GPCS_ContentVersion
- Version of 3M™ GPCS regulatory content (changes each quarter)

GPCS_Key="changeit"
- Key for the certificate
• Will receive Return Code 65 (Invalid Certificate) without this information

GPCS_Timeout
• Connection timeout if communication issues exist with the cloud
• 30 is the recommended setting

GPCS_RetryCount
• If communication fails, this is the number of attempts to communicate with the cloud
• 1 is the recommended setting

GPCS_Wait_Time
• Most appropriate time lapse before sending information to the cloud
• When the wait time is met, the set of claims processed within this time will be sent to the 3M™ GPCS
• Values can range from 0 milliseconds (immediate (not recommended)) to 60000 milliseconds (one minute))
• 100 is the recommended setting

GPCS_MAXCLAIMS_PER_TRANSACTION
• Most appropriate number of claims to collect before sending information to the cloud
• When the limit is met, the set of claims will be sent to the cloud
• Valid values are ALL, 1, 2, 3, etc.
• Positive numbers only
• The values of “ALL” would indicate no limit
• Inappropriate values will trigger Return Code 88 (Invalid Content Version)
• 16 is the recommended setting

GPCS_Connections
• Count of active connections to the 3M™ GPCS
• Default setting is 8
• 16 is the recommended setting

GPCS_URL
• https://gpcs.3m.com/Gpcs/ClaimProcessingService?wsdl
• The URL to send claim information

GPCS_STSURL
• https://gpcs.3m.com/GpcsSts/SecurityTokenService?wsdl
• The URL to validate the certificate
GPCS_HTTPS_Timeout

• Length of time to wait before issuing Return Code 67 (All Other Errors Return From GPCS) when a claim has been sent to the 3M™ GPCS
  • If Return Code 67 is triggered, the claim should be re-submitted
  • If Return Code 67 is issued again (after re-submission), there may be an issue with the client’s Server clock
  • Default setting is 15

An example of the hsssetup.ini file is shown below.

Figure 8-18. Example of the hsssetup.ini File

```
[EZGPCS]
GPCS_P12CertFileName=C:\CERTS\PKCS12\2160058_OptumInsight_SuperCert.p12
GPCS_PEMCertFileName=C:\CERTS\PEM\2160058_OptumInsight_SuperCert.pem
GPCS_ContentVersion=2018.1.1
GPCS_P12Key=changeit
GPCS_Timeout=15
GPCS_RetryCount=1
GPCS_WAIT_TIME=100
GPCS_MAX_CLAIMS_PER_TRANSACTION=8
GPCS_CONNECTIONS=8
GPCS_URL=https://gpcs.3m.com/Gpcs/ClaimProcessingService
GPCS_STSURL=https://gpcs.3m.com/GpcsSts/SecurityTokenService
GPCS_HTTPS_Timeout=15
```

8.5.3 Installing the GPCS Wizard

Follow the below steps to install the GPCS Wizard.

1. Download the GPCS Wizard via the Optum Update Wizard. Double-click on the 3MGPCS_vvvv.v.v.exe file to launch the Setup Launcher.

2. Next, you will see the Welcome to Optum’s EASYGroup™/GPCS Wizard dialog box.
3. Select **Next** to proceed.

4. The **License Agreement** dialog box will appear. Select **I accept the license agreement, required to continue this install**. Then, select **Next** to proceed.

5. After the Optum license agreement, clients will see an additional license agreement dialog box for OpenSSL. Select **I accept the license agreement, required to continue this install**.
6. Select **Next** to proceed.

7. Next, you will see the **Choose Destination Location** dialog box.
8. Select the **Browse...** button to change the installation path, or select the **Next** button to continue and accept the default installation path (**C:\EASYGroup**).

   If upgrading to a new version of the GPCS Wizard, this dialog box will not be displayed and the original path set during the initial installation will be used.

9. When complete, the **InstallShield Wizard Complete** dialog box will be displayed.
10. If the **Automatically run the GPCS Wizard** check box is selected, the GPS Wizard will automatically open.

Select the **Finish** button to exit the Automated Setup Program. Your installation is now complete. The Automated Setup Program will install the files listed in **Table 8-1** in the path specified during install.
11. Once the GPCS Wizard is open, select the Next button.

12. In the Make a selection dialog box select the Enable 3M™ GPCS radio button.

**Note**
You may use the GPCS Wizard to configure the environmental variables needed for the 3M™ GPS as well, instead of following the manual procedures outlined above in the Set Environment Variables section.
13. Select **Next** to proceed.

14. The **Requisite Settings** dialog box will appear and show you any requirements that have not yet been met. Select the appropriate links to download and install any items that are shown with a red X. Items shown with a green check mark do not need to be downloaded/installed.
15. If you select the Advanced button the Advanced Options - GPCS dialog box will appear.
Note

The variables in the **Advanced Options - GPCS** dialog box should only be adjusted if absolutely necessary. Refer to the **Step Two: Update Environmental Variables** section for further information.

16. Selecting the **Set Defaults** button will change all of the values back to their default values. Select the **Ok** to continue.

17. Next, the GPCS Wizard will download and install the required certificate files.

18. In the **Certificate Files** dialog box, select **Browse** for the PEM and P12 certificate paths, if needed. Refer to the **Step One: Set-Up Certificates** section for further information. You will need to save the `XXX.p12` and the `XXX_cert.pem` certificate files in the appropriate directories (same location as the EASYGroup™ Server(s)) which are defined in the `hsssetup.ini` file (refer to Figure 8-18).

Note

If you do not already have your 3M™ GPCS certificates please contact Optum Client Services.
19. Select **Next** to proceed.

20. Select **Finish** on the **GPCS Wizard Complete** dialog box. You have successfully configured your environment to utilize the 3M™ GPCS.

21. As a last step, download and install any necessary EASYGroup™ programs (e.g., the TRICARE APC Pricer, TRICARE APC Editor, APG Grouper, APR-DRG Grouper, Alternate ICD-10 Mapper) from the Optum Update Wizard using the procedures outlined in Chapter 6.

**Note**
For instructions on how to build and test EASYGroup™ components please refer to Building and Testing EASYGroup™ Components section.
9 NMPRF Installation Procedures

This chapter provides the National Medicare Provider Rate Files (NMPRF) installation procedures. It contains the following sections:

Note
Please note that you may or may not license all of the EASYGroup™ NMPRFs. Please refer to the Regulatory Portal for access to user documentation for the components you currently license.

- Overview of the Installation Process
- Running the Automated Setup Program
  - Initial Installations
  - Import Error Logging
- Distribution Cycle
- Using the NMPRF with COBOL EASYGroup™ Pricers
- NMPRF Distributions
9.1 Overview of the Installation Process

This section provides the information required to install the NMPRF files on your local machine or on a network. By following the installation procedures described below you will be able to perform the following tasks:

- Select the distribution options you wish to install
- Install program components

Important

Please note, certain operating systems (Microsoft® Windows® Vista and higher) require users to right-click on the individual installer executable and/or the Optum Update Wizard executable (*UpdateWizard.exe*) and select **Run as administrator** before the install can commence. This step needs to be completed even if the user is logged into Windows® as an Administrator.

Figure 9-1. Run as Administrator Option

9.2 Running the Automated Setup Program

To begin the installation process download the applicable NMPRF .exe from the Optum Update Wizard, the Regulatory Portal, or the Optum Client Portal.

If you are installing the software for the first time, the Windows®-based setup program will guide you through a complete installation sequence that permits you to perform the following:

- Choose the destination for the distribution
- Select the distribution options you wish to install
- Install program components

If you have a previous version of the software installed, the set-up program will automatically detect that installation and offer the following options:

- **Modify**: Select program components to add or remove.
- **Repair**: Reinstalls all program components.
- **Remove**: Deletes all program components previously installed.
Note
You will only see the Modify, Repair, or Remove options if you are attempting to install the same version of the software for a second time.

Figure 9-2. Modify, Repair, or Remove Dialog Box

9.2.1 Initial Installations
It is recommended that you install your EASYGroup™ component(s) onto a separate test environment, rather than on your production environment. After running the Automated Setup Program and compiling and/or testing the distribution, you can copy the necessary files to your production platform using commands appropriate for your working environment.

Follow these steps if you are installing the software for the first time:

1. After briefly displaying the Preparation dialog box, the Automated Setup Program will show the Welcome dialog box.
2. Select the Next button to proceed.
3. The Automated Setup Program will advance to the **License Agreement** dialog box. Read the agreement, and then select the **I accept the license agreement, required to continue this install** radio button to accept the terms and continue with the installation.

4. Select **Next** to proceed.
5. After the **License Agreement** dialog box, clients will see the **Select Features** dialog box. This dialog box allows you to choose whether to install the rate files as data files and/or to install them into Rate Manager.
6. In the **Select Features** dialog box, choose whether to install the rate files as data files and/or to install them into Rate Manager.

**Note**
If you choose the **Data Files for New Rate Manager** option, the data files will also be installed. You should only choose to install into Rate Manager if you are running the installer on the machine that also has Rate Manager installed.

7. If you choose to install the files into Rate Manager, a new **Rate Import** dialog box will display. In this dialog box you can choose which Rate Manager database(s) you wish to install into (you can choose to install into one database or multiple databases).
8. After selecting the **Import Rates** button, the import process begins and progress information is written to the screen.

**Important**
Rate files should be installed into Rate Manager at a time when no other users are accessing the Rate Manager application. Rate files should not be installed into Rate Manager via the rate file installer at the same time an export is being run out of Rate Manager, or at the same time an import is being run through the Rate Manager application.

9. You will now see the **User Agreement** dialog box. Please read this dialog box carefully. Check the **I Acknowledge** check box.

10. Select **Continue** to proceed.
Note
Additional tabs will appear on the Rate Import Progress dialog box if you are importing into multiple Rate Manager databases at one time.
11. Once the import process is complete, a **Rate Import Complete** dialog box will appear.

Figure 9-9. Installation Complete Dialog Box

12. Select **OK** from the **Rate Import Complete** dialog box.
13. You will then see the **Installation Complete** dialog box. Select **Finish** to complete the installation.
9.2.1.1 Select Format of Files (NMPRF, ONMPRF, and SNF NMPRF Only)
After selecting the type of installation you want, you will be prompted to: Select the format of NMPRF/ONMPRF/SNF NMPRF rate files you would like to install? You may choose one of the following options:

**Table 9-1: Installation Format**

<table>
<thead>
<tr>
<th>Option</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Traditional Medicare</td>
<td>Select this option to apply traditional Medicare FFS rules.</td>
</tr>
<tr>
<td>Medicare Advantage</td>
<td>Select this option to apply Medicare Advantage rules.</td>
</tr>
</tbody>
</table>

9.2.1.2 Location of NMPRF
The setup program will prompt you to choose a location in the Choose Destination Location dialog box if no other EASYGroup™ components are installed. The default location is the appropriate sub-folder in the EASYGroup™ directory (i.e., `\EASYGroup\Files\Rates\xxxx`). The xxxx represents the associated NMPRF.
To accept the default, select the **Next** button. To install the program components to a different folder, select the **Browse...** button, and then choose or create a custom folder. When completed, select **OK**, and then select **Next**. The setup process will install the C format files in a subfolder titled C and the COBOL format files in a subfolder titled COBOL. If a previous version of the NMPRF data files for COBOL or C are already installed and you do not change your selection, the system will replace the current NMPRF data files with the files on the distribution. If you wish to preserve earlier years of NMPRF data, save the older NMPRF files in an alternate location.

### 9.2.2 Import Error Logging

The rate file installer supports advance error handling that identifies and quarantines rate records that include invalid data. A record identified during the Rate Manager database import process indicates that it is unusable within the software. Any record found that has an error will not be included in the Rate Manager database. These errors will be written to the **Logging** folder specified within the **SysAdmin>File** menu of Rate Manager. In addition to the data file containing the invalid rate records, a text file containing the corresponding error messages will also be written to the **Logging** directory within the Rate Manager folder structure.
9.3 Distribution Cycle

Each NMPRF distribution contains information for certain time periods (typically the prior three years). For example, V1509.00 of the Inpatient NMPRF included three fiscal year updates for 2015, 2014, and 2013 and covers the time period from October 01, 2013 through October 01, 2015 for inpatient acute care facilities.

9.3.1 Releases

A new release of the NMPRF is created each fiscal or calendar year, based on the availability of updated information from cost reports and other CMS reference data files. To create this new release, the oldest year from the current release is dropped and the new fiscal or calendar year is added.

9.3.2 Versions

Optum may issue updates to the NMPRF for the same fiscal or calendar year. These updates or versions will add to or alter the provider-specific data on the file. The first distribution for a new time period contains Medicare information for the newly added fiscal or calendar year, but not necessarily provider-specific information for the added year. Provider-specific information is not usually available until later in time and is the reason for distributing another version of the same release covering the same time period.
9.4 Using the NMPRF with COBOL EASYGroup™ Pricers

The following files supplied on the NMPRF distribution are designed to be used with the COBOL EASYGroup™ Pricers:

- `hosprate.dat` or `hosp04.dat` (Physician)
- `wghtrate.dat`
- `ezgconfig.dat` or `cnfg04.dat` (Physician)

Follow the steps outlined below to create or update the `hosprate.dat/ hosp04.dat` and `wghtrate.dat` file from each NMPRF distribution.

9.4.1 Creating or Updating the Hospital Rate Calculator File

To set-up the `hosprate.dat/hosp04.dat` file for use with the COBOL EASYGroup™ Pricers, proceed as follows:

1. If you have not already created a Hospital Rate Calculator File for use with the COBOL EASYGroup™ Pricer and you only require one NMPRF distribution, then the `hosprate.dat/hosp04.dat` file supplied with the NMPRF distribution will become your Hospital Rate Calculator File. Proceed to Step 3.

2. If you have already created a Hospital Rate Calculator File or you require more than one NMPRF distribution, you have several options. Depending on what is appropriate for your organization, you can concatenate the information from the multiple `hosprate.dat` files. You can update individual records that have changed or you can replace the existing file with one of the distribution files.

**Note**

When choosing an option, please note that duplicate records will be created when the NMPRF is distributed more than once for the same time period.

When this step is complete, go to Step 3.

3. The index for this file is Provider Number, Paysource Code, Patient Type, and Effective Date of rate variables.

   Sort the Hospital Rate Calculator File from Step 1 or Step 2 by Provider Number (ascending), Paysource Code (ascending), Patient Type (ascending), and Effective Date of rate variables (descending).

4. Run the sorted Hospital Rate Calculator File through the EASYGroup™ Pricer Base Rate Calculator (RATEDRV) program.
RATEDRV will automatically access a Medicare inpatient-specific module for calculating base rates. This module, called HCRATES, is included in the EASYGroup™ Medicare DRG Pricer distribution only.

5. Create an indexed version of the Hospital Rate Calculator File by following the instructions in Chapter 6.

9.4.2 Creating or Updating the DRG/APC/CMG/RUG/HHRG Rate File

To set-up the rate file *wghrate.dat* for use with the COBOL EASYGroup™ Pricers, proceed as follows:

1. If you have not already created a *wghrate.dat* file for use with the COBOL EASYGroup™ Pricers and you only require one NMPRF distribution, then the *wghrate.dat* file supplied with the NMPRF distribution will become your *wghrate.dat* file.

2. If you have already created a *wghrate.dat* file or you require more than one NMPRF distribution, you must decide whether to concatenate the information in multiple files, update individual records that have changed, or replace the existing file with one of the distribution files.

Note
When choosing one of these options, please note that duplicate records will be created when the NMPRF is distributed more than once for the same time period.

If you choose to concatenate, ensure that the file created by this concatenation process is in a sequential format. When this step is complete, go to Step 3.

3. The index for this file is Payer Type, Norms Type, Effective Date of Norms, and DRG, APC, CMG, RUG, or HHRG. Sort the *wghrate.dat* file from Step 1 or Step 2 by Payer Type (ascending), Norms Type (ascending), Effective Date of Norms (ascending), and DRG, APC, CMG, RUG, or HHRG (ascending).

4. Create an indexed version of the *wghrate.dat* file by following the instructions in Chapter 6.
### 9.5 NMPRF Distributions

**Table 9-2: NMPRF Distributions**

<table>
<thead>
<tr>
<th>Format</th>
<th>File Name</th>
<th>Record Length (LRECL)</th>
<th>Description</th>
<th>Applicable NMPRFs</th>
</tr>
</thead>
<tbody>
<tr>
<td>C</td>
<td>cfgphys.dat</td>
<td>800</td>
<td>File used to define high-level pricing, editing, and grouping rules.</td>
<td>PNMPRF</td>
</tr>
<tr>
<td>C</td>
<td>config.dat</td>
<td>800</td>
<td>File used to define high-level pricing, editing, and grouping rules.</td>
<td>ANMPRF, CNMPRF (Inpatient and Outpatient), ESRD NMPRF, FQHC NMPRF, HHA NMPRF, NMPRF, IPF NMPRF, IRF NMPRF, LTC NMPRF, ONMPRF, SNF NMPRF</td>
</tr>
<tr>
<td>C</td>
<td>medcalc.dat</td>
<td>510</td>
<td>File with provider rate information.</td>
<td>CNMPRF (Inpatient), NMPRF, IPF NMPRF, LTC NMPRF</td>
</tr>
<tr>
<td>C</td>
<td>medcalcc.dat</td>
<td>510</td>
<td>File with provider rate information for Medicare Advantage pricing. This file may be used as a reference.</td>
<td>NMPRF</td>
</tr>
<tr>
<td>C</td>
<td>medcalct.dat</td>
<td>510</td>
<td>File with provider rate information for traditional Medicare pricing. This file may be used as a reference.</td>
<td>NMPRF</td>
</tr>
<tr>
<td>C</td>
<td>medext.dat</td>
<td>510</td>
<td>File with provider rate information.</td>
<td>CNMPRF (Inpatient), ESRD NMPRF, NMPRF, LTC NMPRF</td>
</tr>
<tr>
<td>C</td>
<td>medirf.dat</td>
<td>510</td>
<td>File with provider rate information.</td>
<td>IRF NMPRF</td>
</tr>
<tr>
<td>C</td>
<td>medout.dat</td>
<td>510</td>
<td>File with provider rate information.</td>
<td>ANMPRF, CNMPRF (Outpatient), ESRD NMPRF, FQHC NMPRF, HHA NMPRF, ONMPRF</td>
</tr>
<tr>
<td>C</td>
<td>medphys.dat</td>
<td>510</td>
<td>File with provider rate information.</td>
<td>PNMPRF</td>
</tr>
<tr>
<td>C</td>
<td>medsnf.dat</td>
<td>510</td>
<td>File with provider rate information.</td>
<td>SNF NMPRF</td>
</tr>
<tr>
<td>C</td>
<td>payirf.dat</td>
<td>191</td>
<td>File with payer-specific information.</td>
<td>IRF NMPRF</td>
</tr>
<tr>
<td>C</td>
<td>payors.dat</td>
<td>191</td>
<td>File with payer-specific information.</td>
<td>CNMPRF (Inpatient), NMPRF, IPF NMPRF, LTC NMPRF</td>
</tr>
<tr>
<td>C</td>
<td>payout.dat</td>
<td>191</td>
<td>File with payer-specific information.</td>
<td>ANMPRF, CNMPRF (Outpatient), ESRD NMPRF, FQHC NMPRF, HHA NMPRF, ONMPRF</td>
</tr>
<tr>
<td>C</td>
<td>payphys.dat</td>
<td>191</td>
<td>File with payer-specific information.</td>
<td>PNMPRF</td>
</tr>
<tr>
<td>C</td>
<td>paysnf.dat</td>
<td>191</td>
<td>File with payer-specific information.</td>
<td>SNF NMPRF</td>
</tr>
<tr>
<td>C</td>
<td>rate.dat</td>
<td>191</td>
<td>File with DRG-specific payment information (e.g., weights, means, and trims).</td>
<td>CNMPRF (Inpatient), NMPRF, IPF NMPRF, LTC NMPRF</td>
</tr>
<tr>
<td>C</td>
<td>rateirf.dat</td>
<td>191</td>
<td>File with CMG-specific information.</td>
<td>IRF NMPRF</td>
</tr>
</tbody>
</table>
### Table 9-2: NMPRF Distributions

<table>
<thead>
<tr>
<th>Format</th>
<th>File Name</th>
<th>Record Length (LRECL)</th>
<th>Description</th>
<th>Applicable NMPRFs</th>
</tr>
</thead>
<tbody>
<tr>
<td>C</td>
<td>rateout.dat</td>
<td>191</td>
<td>File with APC, APG, or HHRG-specific payment information (e.g., payment rates, weights, payment status indicators, and co-payment amounts).</td>
<td>ANMPRF, CNMPRF (Outpatient), FQHC NMPRF, HHA NMPRF, ONMPRF</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td><strong>Note:</strong> <em>This file is not needed for pricing ASC, ESRD, and FQHC claims and is, therefore, empty in the ANMPRF, ESRD NMPRF, and FQHC NMPRF distributions.</em></td>
<td></td>
</tr>
<tr>
<td>C</td>
<td>ratesnfd.dat</td>
<td>191</td>
<td>File with RUG-specific information.</td>
<td>SNF NMPRF</td>
</tr>
<tr>
<td>COBOL</td>
<td>cnfg04.dat</td>
<td>800</td>
<td>File used to define high-level pricing, editing, and grouping rules.</td>
<td>ANMPRF, CNMPRF (Inpatient and Outpatient), ESRD NMPRF, FQHC NMPRF, HHA NMPRF, NMPRF, IPF NMPRF, IRF NMPRF, LTC NMPRF, ONMPRF, SNF NMPRF</td>
</tr>
<tr>
<td>COBOL</td>
<td>ezgconfig.dat</td>
<td>800</td>
<td>File used to define high-level pricing, editing, and grouping rules.</td>
<td>ANMPRF, CNMPRF (Inpatient and Outpatient), ESRD NMPRF, FQHC NMPRF, HHA NMPRF, NMPRF, IPF NMPRF, IRF NMPRF, LTC NMPRF, ONMPRF, SNF NMPRF</td>
</tr>
<tr>
<td>COBOL</td>
<td>hosp04.dat</td>
<td>800</td>
<td>File with provider rate information.</td>
<td>PNMPRF</td>
</tr>
<tr>
<td>COBOL</td>
<td>hospext.dat</td>
<td>800</td>
<td>File with provider rate information.</td>
<td>CNMPRF (Inpatient), ESRD NMPRF, NMPRF, LTC NMPRF</td>
</tr>
<tr>
<td>COBOL</td>
<td>hospratc.dat</td>
<td>800</td>
<td>File with provider rate information for Medicare Advantage pricing. This file may be used as a reference.</td>
<td>NMPRF</td>
</tr>
<tr>
<td>COBOL</td>
<td>hosprate.dat</td>
<td>800</td>
<td>File with provider rate information.</td>
<td>ANMPRF, CNMPRF (Inpatient and Outpatient), ESRD NMPRF, FQHC NMPRF, HHA NMPRF, NMPRF, IPF NMPRF, IRF NMPRF, LTC NMPRF, ONMPRF, SNF NMPRF</td>
</tr>
<tr>
<td>COBOL</td>
<td>hospratt.dat</td>
<td>800</td>
<td>File with provider rate information for traditional Medicare pricing. This file may be used as a reference.</td>
<td>NMPRF</td>
</tr>
<tr>
<td>COBOL</td>
<td>payors.dat</td>
<td>80</td>
<td>File with payer-specific information.</td>
<td>ANMPRF, CNMPRF (Inpatient and Outpatient), NMPRF, ONMPRF</td>
</tr>
<tr>
<td>COBOL</td>
<td>wghtrate.dat</td>
<td>250</td>
<td>File with case-mix specific payment information (DRG, APC, APG, RUG, HHRG, CMG).</td>
<td>ANMPRF, CNMPRF (Inpatient and Outpatient), ESRD NMPRF, FQHC NMPRF, HHA NMPRF, NMPRF, IPF NMPRF, IRF NMPRF, LTC NMPRF, ONMPRF, SNF NMPRF</td>
</tr>
</tbody>
</table>
10 State Rate Files Installation Procedures

This chapter provides the State Rate Files (including TRICARE) installation procedures. It contains the following sections:

Note
Please note that you may or may not license all of the EASYGroup™ State Rate Files. Please refer to the Regulatory Portal for access to user documentation for the components you currently license.

• Overview of the Installation Process
• Running the Automated Setup Program
  - Initial Installations
  - Import Error Logging
• Location of State Rate Files
• State Rate Files Distribution
10.1 Overview of the Installation Process

This section provides the information required to install the State Rate Files on your PC or on a Network. Using the installation procedures described below, users will be able to:

- Install the State Rate File data files for use with EASYGroup™ components or Web.Strat™.
- Install the associated State Rate File data files for user-friendly Windows® access to the rate file’s data for use with Rate Manager.

Important
Certain operating systems (Microsoft® Windows® Vista™ and higher) require users to right-click on the individual installer executable and/or the Optum Update Wizard executable (UpdateWizard.exe) and select **Run as administrator** before the install can commence. This step needs to be completed even if the user is logged into Windows® as an Administrator.

Figure 10-1. Run as Administrator Selection
10.2 Running the Automated Setup Program

To begin the installation process, download the applicable State Rate Files from the Optum Update Wizard, the Regulatory Portal, or the Optum Client Portal.

If you are installing the software for the first time, the Windows®-based setup program will guide you through a complete installation sequence that permits you to:

• Choose the destination for the distribution.
• Select the distribution options to install.
• Install the program components.

If you have a previous version of the software installed, the set-up program will automatically detect that installation and offer the following options:

• Modify: Select program components to add or remove.
• Repair: Reinstalls all program components.
• Remove: Deletes all program components previously installed.

Note

Clients will only see the Modify, Repair, or Remove screen if they are attempting to install the same version of the software for a second time.
10.2.1 Initial Installations

It is recommended that you install your EASYGroup™ component(s) onto a separate test environment, rather than on your production environment. After running the automated installation program and compiling and/or testing the distribution, you can copy the necessary files to your production platform using commands appropriate for your working environment.

Follow these steps if you are installing the software for the first time.

1. After briefly displaying the **Preparation** screen, the setup program will show the **Welcome** screen. Select the **Next** button to continue.
Figure 10-3. Welcome Screen

Welcome to Optum’s New Mexico State Rate File Wizard

The InstallShield Wizard will install New Mexico State Rate File on your computer. To continue, click Next.

2. The setup program will advance to the License Agreement screen. Read the agreement, and then select the I accept the license agreement, required to continue this install radio button to accept the terms and continue with the installation.

3. Select Next.
Figure 10-4. License Agreement Screen

License Agreement
Please read the following license agreement carefully.

This software is governed by the terms and conditions as specified in the written contractual agreement between Optum, Inc. and the Licensee.

Use of this software without a written agreement is prohibited.

- I accept the license agreement, required to continue this install.
- I do not accept the license agreement, use cancel to exit this install.

4. After the License Agreement screen, clients will see the Select Features screen. This screen allows the client to choose whether to install the rate files as data files and/or to install them into Rate Manager.
5. In the **Select Features** screen, choose whether to install the rate files as data files and/or to install them into Rate Manager.

**Note**

If clients choose the **Data Files for New Rate Manager** option, the data files will also be installed.

Clients should only choose to install into Rate Manager if they are running the installer on the machine that also has Rate Manager installed.

6. If clients choose to install them into Rate Manager, a new **Rate Import** screen will display. On this screen clients can choose which Rate Manager database(s) they wish to install into (clients can choose to install into one database or multiple databases).
7. After selecting the **Import Rates** button, the import process begins and progress information is written to the screen.

**Important**
Rate files should be installed into Rate Manager at a time when no other users are accessing the Rate Manager application. Rate files should not be installed into Rate Manager via the rate file installer at the same time an export is being run out of Rate Manager, or at the same time an import is being run through the Rate Manager application.

8. Clients will now see the **User Agreement** dialog box. Please read this dialog box carefully. Check the **I Acknowledge** check box.

9. Select **Continue** to proceed.
Figure 10-7. User Agreement Screen

CAUTION: Please consult the Release Notes distributed with the Rate Files you are installing to confirm that they are compatible with the version of New Rate Manager that you have installed. If these Rate Files are installed with an incompatible version of New Rate Manager, you will need to re-install these Rate Files after upgrading to the appropriate version of New Rate Manager.

I Acknowledge

Continue

Cancel
Note
Additional tabs will appear on the **Rate Import Progress** screen if clients are importing into multiple Rate Manager databases at one time.

10. Once the import process is complete, a **Rate Import Complete** dialog box will appear.
11. Select **OK** from the **Rate Import Complete** dialog box.

12. Clients will then see the **Installation Complete** screen. Select **Finish** to complete the installation.
10.2.2 Import Error Logging

The rate file installer supports advance error handling that identifies and quarantines rate records that include invalid data. A record identified during the Rate Manager database import process indicates that it is unusable within the software. Any record found that has an error will not be included in the Rate Manager database. These errors will be written to the Logging folder specified within the SysAdmin>File menu of Rate Manager. In addition to the data file containing the invalid rate records, a text file containing the corresponding error messages will also be written to the Logging directory within the Rate Manager folder structure.

Figure 10-11. Data File and Text File
10.3 Location of State Rate Files

The setup program will prompt you to choose a location in the **Choose Destination Location** screen if no other EASYGroup™ components are installed on the PC. The default location for the product is under the appropriate sub-folders in the EASYGroup™ directory (i.e., \EASYGroup\Rates\xxxx\...\). The xxxx represents the associated State Rate File.

Figure 10-13. Choose Destination Location Screen
To accept the default, click on the **Next** button. To install the program components to a different folder, click on the **Browse** button, and then choose or create a custom folder. When completed, select **OK**, and then click **Next**. The setup process will install the C format files in a sub-folder titled C.

If a previous version of the State Rate Files data for C is already installed in the file location you specify, and you do not change your selection, the system will replace the current State Rate Files data, with the files on the distribution. If you wish to preserve earlier years of State Rate Files data, save the older State Rate Files in an alternate location.

### 10.4 State Rate Files Distribution

The State Rate Files distribution contains the C versions of the data files.

#### 10.4.1 C Platform

There is a C version of the State Rate Files for use with the C Pricers and Web.Strat™. These are included on the distribution. The files for the C Pricers and Web.Strat™ are ASCII files and have a .dat file extension. Table 10-1 and Table 10-2 show the contents of the distribution depending on the Patient Type.

Table 10-1: Contents of the C State Rates Files Distribution - Inpatient

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>medcalc.dat</td>
<td>File with hospital rate information.</td>
</tr>
<tr>
<td>rate.dat</td>
<td>File with DRG-specific payment information (e.g., weights, means, and trims).</td>
</tr>
<tr>
<td>payors.dat</td>
<td>File with payer-specific information.</td>
</tr>
<tr>
<td>config.dat</td>
<td>File used to define high-level pricing, editing, and grouping rules.</td>
</tr>
</tbody>
</table>

Table 10-2: Contents of the C Rate File Distribution - Outpatient

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>apcrule.dat</td>
<td>File with state or user-defined HCPCS and APC rules.</td>
</tr>
<tr>
<td>ascrule.dat</td>
<td>File with state or user-defined HCPCS and ASC rules.</td>
</tr>
<tr>
<td>config.dat</td>
<td>File used to define high-level pricing, editing, and grouping rules.</td>
</tr>
<tr>
<td>medout.dat</td>
<td>File with hospital rate information.</td>
</tr>
<tr>
<td>medext.dat</td>
<td>File with hospital rate information.</td>
</tr>
<tr>
<td>payout.dat</td>
<td>File with payer-specific information.</td>
</tr>
<tr>
<td>rateout.dat</td>
<td>File with APC or APG-specific payment information (e.g., payment rates, weights, payment status indicators, and co-payment amounts).</td>
</tr>
</tbody>
</table>
11 LCD Editor Installation Procedures

This chapter provides the LCD Editor installation procedures. The LCD Editor is only available on the C Platform. This chapter contains the following sections:

**Note**
Please note that you may or may not license the EASYGroup™ LCD Editor. Please refer to the [Regulatory Portal](#) for access to user documentation for the components you currently license.

- Initial Installations
- Upgrade Installations
- Maintenance Installations
- Building and Testing the LCD Editor - Source Distribution
- Testing the LCD Editor - Server Distribution
Important

Please note, certain operating systems (Microsoft® Windows® Vista and higher) require users to right-click on the individual installer executable and/or the Update Wizard executable (UpdateWizard.exe) and select Run as Administrator before the install can commence. This step needs to be completed even if the user is logged into Windows® as an Administrator.

Figure 11-1. Run as Administrator Selection

11.1 Initial Installations

Similar to other EASYGroup™ components, it is recommended that the LCD Editor be installed onto a separate Windows®-based test machine, rather than on a production environment. After running the automated installation program and compiling and/or testing the distribution, copy the necessary files to the production platform using commands appropriate for the working environment. Follow these steps to install the software for the first time:

1. Download the LCD Editor from the Optum Update Wizard. The autorun function will launch the setup program. If it does not, browse the distribution and double-click on the setup.exe file to launch the setup program manually.

2. After briefly displaying the Preparation window, the setup program will show the Welcome screen.
3. Select the **Next** button to continue.

4. The setup program will advance to the **License Agreement** screen. Read the agreement, and then select the **I accept the license agreement, required to continue this install** radio button to accept the terms and select the **Next** button to continue with the installation.
5. The setup program will advance to the **Select Features** screen. This screen offers choices for the type of installation you want:

- **CSource Files**: Loads the source and data files required for UNIX® and other environments.

- **Server Files**: Loads the files required for the EASYGroup™ Server, the EASYGroup™ Web Service, the ECM Pro™ Web Services, or other server-related environments including Web.Strat™.

Select all the components to be installed and clear any components that should not be installed. Once the appropriate selections have been made select the **Next** button.
6. The setup program will advance to the **Choose Destination Location** screen.
7. The **Destination Folder** where the LCD Editor will install to is specified in this screen. To change the destination location, select the **Browse** button and choose another location. To continue with the installation, select the **Next** button.

8. The setup program will advance to the **Setup Status** screen where the progress of the installation is shown.
Once the files are copied over, you will see the **LCD Keys** dialog box.

---

**Figure 11-6. Setup Status Screen**

![Setup Status Screen](image)

**Figure 11-7. LCD Keys Dialog Box**

![LCD Keys Dialog Box](image)
9. A valid key must be entered to complete the installation. Depending upon which LCD/NCD rules you license, keys are provided with the initial distribution and through Optum Client Services. To enter a key, select the **Add** button and enter the appropriate key in the **Key** field. If adding multiple keys, select the **Add** button again and enter the key in the field provided. Repeat this step until all keys have been entered. To change an entry, highlight the key and select the **Change** button. To delete an entry, highlight the key and select the **Delete** button. Once all keys have been added, select the **Save** button to continue with the installation.

10. Once the requested installation is complete, the setup program advances to the **InstallShield Wizard Complete** screen, which displays the path where the product was installed. Select the **Finish** button to end the setup sequence. Your installation is now complete.

Figure 11-8. Installation Complete Screen

11. Proceed to the **Using the Test File with Customized Data** section for additional steps for setting up the `fi.dat` file.
11.2 Upgrade Installations

Follow the below steps if you have a previous installation installed and you are updating the version. This upgrade sequence will automatically launch only if a previous version of the LCD Editor is detected. If there is no previous version installed, the automated setup program will launch the **Initial Installation** sequence as described above.

1. Download the LCD Editor from the Optum Update Wizard. The **autorun** function will launch the setup program. If it does not, browse the distribution and double-click on the `setup.exe` file to launch the setup program manually.

2. After briefly displaying the **Preparation** window, the setup program will show the **Welcome** screen. This screen will display the current LCD Editor version number installed and confirm the new version number to be installed. Select the **Next** button to continue.

Figure 11-9. Welcome Screen - Upgrade Installation

3. The setup program will advance to the **Setup Status** screen (as shown above in Figure 11-6) where the progress of the installation is shown. Once the files are copied over, the setup program advances to the **LCD Keys** dialog box (as shown above in Figure 11-7).

   The setup program remembers all keys that were entered in the previous installation, therefore it is not necessary to re-enter keys.
4. To enter new or additional keys, select the **Add** button and enter the appropriate key in the **Key** field. Depending upon which LCD/NCD rules you license, keys are provided with the initial distribution and through Optum Client Services.

To change an entry, highlight the key and select the **Change** button.

To delete an entry, highlight the key and select the **Delete** button.

5. Once all keys have been added, select the **Save** button to continue with the installation.

6. Once the requested installation is complete, the setup program advances to the **Update Complete** screen. Select the **Finish** button to end the setup sequence. Your upgrade installation is now complete.

Figure 11-10. Update Complete Screen

7. Proceed to the **Using the Test File with Customized Data** section for additional steps for setting up the *fi.dat* file.

### 11.3 Maintenance Installations

Follow the below steps if a previous installation exists and you wish to reinstall or remove the currently installed version of the LCD Editor.

1. Download the LCD Editor from the Optum Update Wizard. The **autorun** function will launch the setup program. If it does not, browse
the distribution and double-click on the setup.exe file to launch the setup program manually.

2. After briefly displaying the Preparation window, the setup program will show the Welcome screen.

Figure 11-11. Welcome Screen - Repair/Remove Installation

The following options are displayed on this screen:

**Repair**: Select this radio button if you would like to reinstall the LCD Editor.

**Remove**: Select this radio button if you would like to uninstall the LCD Editor.

If you select Remove, a dialog box will appear confirming that you indeed wish to remove the current version of the LCD Editor.
3. Select **Yes** to continue with the removal.
4. Select the **Next** button (if **Repair** was chosen).
5. Next, the **Uninstall/Repair Complete** screen will appear.

6. Select the **Finish** button to complete the repair/uninstall.
11.3.1 Manually Copying Source Files

If you are a source user and do not wish to use the automated installation program, or if you are installing the software directly onto a non-Windows® platform, you can manually copy the contents from the distribution to your hard disk. Use commands appropriate for the target operating system to copy the files from the source folder to the target directory.

Be sure to copy the complete contents of the folder to your operating environment. All programs and files should be copied to the same directory.

11.4 Building and Testing the LCD Editor - Source Distribution

As distributed, the Optimizer source code is structured to call Analyzers, Editors, Groupers, and Pricers as dynamically-linked modules (such as UNIX® shared libraries) where the Optimizer dynamically loads these Analyzers, Editors, Groupers, and Pricers. The Editor source facilitates dynamic linking only (UB-04/ICD-10).

**Note**

When utilizing dynamic linking with the Editor, all other EASYGroup™ modules must also be dynamically linked.

For source users with dynamic linking:

1. For each Editor you plan on using, create separate directories in your working environment, and then copy all of the source files to the appropriate directories.

2. Create an environment variable (HSSDLLFLAGS) by entering the following in the working environment.

   \[
   \text{HSSDLLFLAGS} = \text{'-G'}
   \]

   \[
   \text{export HSSDLLFLAGS}
   \]

   Refer to Table 11-1 below for suggestions. The environment variable may be added to the user’s profile instead of executing these commands.

<table>
<thead>
<tr>
<th>Computer</th>
<th>Operating System</th>
<th>Compiler</th>
<th>Command</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ultra Spark</td>
<td>Solaris V8</td>
<td>GCC 3.4.2</td>
<td>-G</td>
</tr>
<tr>
<td>Power PC</td>
<td>AIX V5.1</td>
<td>GCC 4.0.0</td>
<td>-shared</td>
</tr>
</tbody>
</table>
**Note**  
The (HSSDLLFLAGS=’-G’) command utilizes a specific configuration. Depending on the compiler and platform being used, this command may need to be modified for the user’s working environment.

3. Create the Editor .dlls by entering the following in the working environment:
   - `make dynamic`

4. Test the Editor .dlls by entering the following in the working environment:
   - `make dtest`

A successful run of LCD Editor on the test database will have no mismatches.

5. Copy the resulting .dlls to your Optimizer processing directory.

**Note**  
When copying the edtcntl to your production environment, you must use the latest version. Compare the version information from the veedcntl.h file on this distribution with the veedcntl.h file associated with the edtcntl executable in your production environment and only copy the files if they are the most current.

### 11.5 Testing the LCD Editor - Server Distribution

#### 11.5.1 Test Input

The Test Driver reads the input test data in the .dat files which are included in the distribution.

#### 11.5.2 Test Output

The Test Driver opens the Editor tables and the specified test data files for input. Each record read from the test data files is edited according to the appropriate set of LCD editing rules. The Test Driver produces the editing results and stores them in a file titled `output.txt`. This file is saved in the `xxxdir` directory. These results should be compared with the prerecorded results in the `outputc.sav` (UB-04/ICD-10 interface) file included in the distribution. A successful run of LCD Editor should produce an `output.txt` that matches `outputc.sav` or `output.sav` exactly.

#### 11.5.3 Using the Test File with Customized Data

The test file `lmrptest` may be used with customized data if the input data are coded exactly as described in the Input & Output Parameter Blocks User’s Guide. If the data does not meet specified requirements, the data will need to be reformatted to meet these requirements.
12 EASYGroup™ Codes & Titles Installation Procedures

The following section provides information on installing the Date-Sensitive Codes and Titles file. The following sections are included in this chapter:

• Software Distribution
• Running the Automated Setup Program
• Creating a Single Codes and Titles File

Note
For instructions on how to install the EASYGroup™ Translation File, please refer to Chapter 6, General EASYGroup™ Installation Procedures.
12.1 Software Distribution

Individual Codes and Titles files are named according to the following conventions:

*xxmmmyy.dat*

Where:

- **xx** = hc (for the HCPCS/CPT® file)
- **hcp** (for the HCPCS Plus file)
- **i9** (for the ICD-9-CM file)
- **i10** (for the ICD-10-CM and ICD-10-PCS file)
- **mmm** = month new file was effective (e.g., oct, jan, jun)
- **yy** = last two digits of effective year (e.g., 98, 99, 00)

12.2 Running the Automated Setup Program

Please refer to General EASYGroup™ Installation Procedures, Chapter 6 for the steps to install your EASYGroup™ Codes & Titles file(s).

Depending on your distribution, the Codes and Title file(s) will be installed in the following directories:

- C:\EASYGroup\Files\Coding\ICD9
- C:\EASYGroup\Files\Coding\ICD10
- C:\EASYGroup\Files\Coding\HCPCS
- C:\EASYGroup\Files\Coding\HCPCS Plus

12.3 Creating a Single Codes and Titles File

ICD-9-CM, ICD-10-CM/ICD-10-PCS, HCPCS/CPT®, and HCPCS Plus Codes and Titles file(s) are distributed as distinct files on separate distributions. The ICD-9-CM, ICD-10-CM/ICD-10-PCS, and HCPCS/CPT® or HCPCS Plus distribution files are, however identical in format and can be concatenated or joined together for simplicity of use. The different code types can be distinguished from one another by examining the first position of the file record. When joining files be aware that the HCPCS/CPT® and HCPCS Plus Codes and Titles files have initial records with the required American Medical Association (AMA) CPT® copyright notice. Please refer to the EASYGroup™ User’s Guide for further details.
A  Sample JCL (COBOL Platform Only)

This appendix provides MVS and VSE sample JCL for unloading the distribution library members to disk.

Note
While the samples provided in this appendix were developed using MVS and VSE conventions, it is anticipated that these samples will need to be modified and tailored to the requirements of your particular installation and operating system.

This appendix includes the following sections:

• MVS JCL for Unloading the Distribution Library Members to Disk
• VSE JCL for Unloading the Distribution Library Members to Disk
A.1 MVS JCL for Unloading the Distribution Library Members to Disk

```plaintext
//EASYRPL JOB (5505,GRNG), 'EASYRPL INSTALLER',CLASS=A,NONIFY=SYSUID,
// ** TYPRUN=SCAN,
// ** MSGCLASS=W
// **
//*******************************************************************************

//** CREATE / ALLOCATE SPACE FOR THE EASYGROUP OPTIMIZERLIBRARY  *
//--------------------------------------------------------------------------------------------------

//STP1  EXEC PGM=IEFRR,4
//SOURCE DD DSN=EASYRPL.OPT.FDS,
//     DISP=(NEW,CATLG),
//     UNIT=SYSDA,
//     SPACE=(CYL,10,2,10)),
//     DCB=(RECFM=FB,RECL=80,BLKSIZE=81000)
//**
//--------------------------------------------------------------------------------------------------

//** UNLOAD FILL #1 FROM THE NON LABELED DISTRIBUTION  *
//--------------------------------------------------------------------------------------------------

//STP2  EXEC PGM=EBGENER,COND=(0,LT)
//SYSPRINT DD SYSOUT=*
//SYSUT1 DD DSN=EASYRPL.OPT.DIST,
//     UNIT=SYSA,DISP=OLD,
//     LABEL=1,HL,VOL=SER=EBSOPT,
//     DCB=(RECFM=FB,RECL=80,BLKSIZE=82000)
//SYSUT2 DD DSN=EASYRPL.OPT.FDS,
//     DISP=SHR
//SYSIN DD *
GEN1  GENERATE MAXNAME=1
MEM1  MEMBER NAME=MVSLIB
```
A.2 VSE JCL for Unloading the Distribution Library Members to Disk

* 12 JOB TNAME,VSEHLI2,CLASS=0,DISP=D
* 12 LST CLASS=A,DISP=S
// JOB VSEHLI2
// OPTION LOG
// ********************************************************************

* STEP 1 CREATE LIBRARY
// ********************************************************************

// DBL1 IJSYSUC,'SUP.TST.UCAT',,VSAM
// DBL1 EASYGRP,'EASYGRP.LIBRARY',,VSAM,CAT=IJSYSUC
// EXEC IDCAMS.SIZE=128K
  DELLIB EASYGRP.LIBRARY -
  FUGO -
  CATALOG (SUP.TST.UCAT) -
  CLUSTER -
  DEFINE CLUSTER ( -
    NAME (EASYGRP.LIBRARY) -
    CYLINDERS (0) -
    SHAREOPTIONS(1) -
    RECORDFORMAT (NOFORMAT) -
    VOLUMES (SU1MIA) -
    NOREUSE -
    NONINDEXED -
    TO (000366) -
    DATA (NAME (EASYGRP.LIBRARY.DATA )) -
    CATALOG (SUP.TST.UCAT)
/*
// ********************************************************************

* STEP 2 - DEFINE LIBRARY AND SUBLIBRARY
// ********************************************************************

// DBL1 IJSYSUC,'SUP.TST.UCAT',,VSAM
// DBL1 EASYGRP,'EASYGRP.LIBRARY',,VSAM,CAT=IJSYSUC
// EXEC LIB,SIZE=64K
  DEFINE LIBRARY=EASYGRP
  DEFINE SUBLIB=EASYGRP.OPT REPLACE=IMMEDIATE REPLACE=YES
/*
// ********************************************************************

* STEP 3 - COPY SOURCE TO LIBRARY
// ********************************************************************

*  ASSIGN THE EASYGRP DISTRIBUTION TO XIX
// CAUSE OPERATOR PLEASE MOUNT VOL=EZ2000 ON **** XIX
  ASSIGN SYSO006,CAY0
  MTC FST,SYSO06
  MTC FST,SYSO046,1
// DBL1 IJSYSUC,'SUP.TST.UCAT',,VSAM
// DBL1 EASYGRP,'EASYGRP.LIBRARY',,VSAM,CAT=IJSYSUC
// ASSIGN SYSO08,DISK,VSAM=SU1MIA,SHR
// DBL1 FILEOUT,'EASYGRP.UNLOAD.FILE',,SY
  EXTENT SYSO05,SU1MIA,1,0,00001,00000
// UFS1 1
// EXEC DITTO,SIZE=186K
  $DITTO T8 FILEOUT=FILEOUT,RECSIZE=40,RECFMIN=FB,
$1DITTO RECEP007=3, INPUT=SY3006, OUTPUT=SY3005
$1DITTO DL Lkeyword=EASYGRP .OFF, MEMBEROUT=USRLIB.SY, FILEIN=FILEOUT
$1DITTO INPUT=SY3005
$1DITTO EOJ

/**
 * MTC RUN. SY3006
 */
RESET SY3004
/**
 */
* $ $ EOJ
B Mainframe Installation Summary (COBOL Platform Only)

The following procedures briefly summarize the Optimizer installation process for batch and CICS mainframe users. This chapter includes the following sections:

- Mainframe Installation Summary - Batch
- Mainframe Installation Summary - CICS
B.1 Mainframe Installation Summary - Batch

The following steps briefly summarize the installation process for batch mainframe users. For more detailed information regarding this process, please refer to the text of the user’s guide.

1. Allocate a partitioned dataset or library on your host system for the application JCL, program, and copybook source.

2. Transfer the JCL, program, and copybook source files (*.jcl, *.cob, and *.cpy) from your workstation to the partitioned dataset/library.

3. Allocate sequential datasets on your host system for the application data files.

4. Transfer the application data files (*.dat, *.out) from your workstation to the partitioned dataset/library.

5. Every effort has been made to make the application programs as generic as possible, but you may still need to modify certain platform-specific sections of the programs, such as the SELECT/ASSIGN statements, to conform to your system.

6. Compile the appropriate programs to your system. If you are implementing the CICS solution, you should compile the CICS source at this time as well.

7. Modify the MVSCLDEF or VSECLDEF job stream to conform to your system.

8. Submit the MVSCLDEF or VSECLDEF job stream to define the VSAM files.

9. Modify the MVSCLLD or VSECLLD job stream to conform to your system.

10. Submit MVSCLLD or VSECLLD job stream to sort the data files and load them into the VSAM files.

11. Modify the MVSTST or VSETST job stream to conform to your system.

12. Submit MVSTST or VSETST job stream. The Test Driver will process records from the test database and verify that the product’s core programs and files have been installed correctly. The test results should come back with zero mismatches in the output report. Do a find on “MIS” to see if everything ran correctly.

13. The installation and verification of the Batch product is now complete. You may now proceed with the process of integrating by creating an interface driver to call the Optimizer Control from your batch system. If you are also implementing the CICS product, please refer to the following section.
B.2 Mainframe Installation Summary - CICS

The following steps briefly summarize the installation process for CICS mainframe users. For more detailed information regarding this process, please refer to the text of the user’s guide.

1. Verify you have successfully performed Steps 1-13 as detailed in the previous section.

2. Use the contents of the RDO file supplied with this distribution to build the CICS program/file entries in batch. It contains control cards that can be fed into the IBM DFHCSDUP utility. Alternatively, the RDO file can be used as reference if you opt to build the CICS entries online using the CEDA transaction.

3. On VSE systems, insert the contents of CICSDLBL into your region startup deck.

You may now proceed with the process of integrating by creating an interface Driver to call the Optimizer Control program from your online system.
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