RESOURCE AND PATIENT MANAGEMENT SYSTEM

Practice Management Application Suite

(BPRM)

Installation Guide and Release Notes

Version 3.0 patch 1
November 2015
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Preface

This manual describes the installation of the Practice Management Application Suite (BPRM) and any additional support software needed.

BPRM is a browser-enabled graphical user interface for the Indian Health Service (IHS) Resource and Patient Management System (RPMS) applications. It provides improved access to existing RPMS data, and streamlines the input of new patient data. In some aspects of its operation and configuration, this suite is also referred to by its development name, Moonwalk. It should also be noted that prior to V3.0, the previous namespace for the Practice Management Application Suite was BMW. The BMW namespace now refers only to the CACHE.DAT file used by BPRM and other IHS applications.

The BPRM application suite consumes Cache classes, generated by Fm2Class utility, which maps onto FileMan files. Create, read, update, and delete (CRUD) operations can then be performed over the generated Cache classes (SQL tables) via the ADO.NET provider for Intersystems Ensemble/Cache.
1.0 **Release Notes**

The following sections describe the changes made in BPRM V3.0 patch 1.

1.1 **HEAT Fixes**

These changes were made to address specific HEAT tickets:

1.2 **Bug Fixes**

These changes were made to correct issues found via in-house testing:

1.3 **Enhancements**

These enhancements have been made at the request of users and product analysts:
2.0 Installation Notes

Prefix: BPRM
Current Version: 3.0 patch 1

2.1 Contents of Distribution

<table>
<thead>
<tr>
<th>File</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>bprm0300.01.msi</td>
<td>BPRM Application Installer</td>
</tr>
<tr>
<td>bprm0300.01.xml</td>
<td>BPRM data description file</td>
</tr>
<tr>
<td>bprm0300.01l.docx</td>
<td>Version 3.0 patch 1 Installation Guide and Release Notes</td>
</tr>
</tbody>
</table>

2.2 Required Resources

As described in Section 3.2, the BPRM suite can be deployed in several different manners. This section lists the computer resources required for each deployment strategy.

2.2.1 Standalone Application Server Resources

The following resources are required for a standalone application server:

- Microsoft® Windows® 2008 Server x64 bit (or later)
- Microsoft IIS® 7.0 (available with Windows 2008 server by default)
- Microsoft .NET Framework 4.5
- Four processor cores running at 2.0 GHz or faster (for site)
- Eight processor cores running at 2.4 GHz or faster (for area office)
- 4 GB RAM running at 1333 MHz (for site)
- 12 GB RAM running at 1333 MHz (for area office)
- 50 GB minimum free disk space (disk drives should be 10K RPM or faster)

See Appendix D: for a listing of specifications for a typical BPRM application server.

2.2.2 Database Server Resources

Database servers running the BPRM application require a minimum 5 GB of free disk space.
2.2.3 Workstation Resources

The following resources are recommended for any workstations accessing the BPRM application:

- Dual-core processor running at 1.8 GHz or faster
- 4 GB of RAM
- 20 GB free disk space
- Screen resolution of 1024 x 768 or higher
- Windows 7 (highly recommended) or Windows XP
- Internet Explorer® 9 (highly recommended) or Internet Explorer 8
- Microsoft Silverlight® 5.0 plugin for Internet Explorer (required)

The Silverlight plugin can be rolled out on an enterprise basis using Group Policies or another enterprise deployment tool, or it can be installed individually on the workstation. Silverlight is available from Microsoft at this location: http://www.microsoft.com/getsilverlight/get-started/install/default.aspx

2.3 Before You Begin: Installation Issues

Internet connectivity on the application server is necessary to download the required installation items.

2.4 Prerequisites

2.4.1 Ensemble Prerequisites

- BPRM v3.0 currently supports only Ensemble version 2012.2.x. Be aware the examples in this Installation Manual reflect Ensemble 2012.2.5. If running a different version, some of the screens may differ slightly from those shown here.
- A BMW-specific CACHE.DAT file must be loaded into the Ensemble server BMW namespace. Acquire this file from OIT SQA; it is not delivered as part of the installation package. Refer to the BMW CACHE.DAT Installation Guide and Release Notes for more information.

2.4.2 BPRM Prerequisites

The following KIDS must be installed:

- PIMS v5.3 p1017
- AG v7.1 p11
- AUT v98.1 p26
2.4.3 Other Prerequisites

7-Zip software is required to extract the installation files from the BPRM installation package. It is available at [http://www.7-zip.org](http://www.7-zip.org).
3.0 **Installation Overview**

The BPRM v3.0 p1 installation requires three files. The `bprm0300.01.xml` data description file and the `bprm0300.01.msi` application installation file are specific to the BPRM suite. These two files are included in the BPRM distribution package.

Additionally, a **CACHE.DAT** file (contained in a zipped file) specific to the Ensemble version is also necessary. This **CACHE.DAT** file is used by BPRM as well as other Meaningful Use Stage 2-compliant IHS applications, and is not included as part of the distribution package. It must be acquired separately from OIT SQA.

Save the `bprm0300.01.xml` data description file and the zipped file containing the CACHE.DAT file to a folder that is accessible to your database server. Similarly, save the `bprm0300.01.msi` file to a folder that is accessible to your application server(s).

Follow the instructions in Section 4.0 through 7.0 to install BPRM for the first time at your site. (Refer to Section 8.0 if an earlier version of BPRM is installed at your site.)

3.1 **BMW Database Deployment Strategy**

To minimize changes to the RPMS database, BPRM adopts a strategy where a separate database is mounted or attached on a current Ensemble/Cache server. This mounted database contains already generated Cache classes against FileMan files.

The classes in the BMW database are generated in a specific package called BMW. The BMW package can be mapped onto the RPMS database, thus enabling the RPMS database to consume the mapped classes. The Cache-generated Classes will reside in the BMW database, yet remain available to the RPMS database, thus achieving the goal of minimizing steps for the BMW database setup when it is scaled onto several sites.

3.2 **Application Deployment Strategies**

BPRM can be deployed in several different configurations. The configuration you use will vary depending on your site's needs and available resources. In all cases, it is recommended that BPRM be installed on an application server separate from the database server where your RPMS database resides. This helps avoid load balancing issues.
4.0 Installation Instructions: First-Time Install

BPRM contains components that run on both the RPMS server and the client personal computer. As a result, the installation instructions are separated into these actions:

- Application Server Installation (Section 5.0)
- Database Server Installation (Section 6.0)
- Application Installation (Section 7.0)

The application operates in a web-based environment; there is no separate installation necessary on workstations other than the items listed in Section 2.2.3.

4.1 Acquire the SSL Certificate

BPRM utilizes the Secure Sockets Layer (SSL) protocol to ensure secure communications between its components. If your site is not on a secure domain, you must acquire an SSL certificate. If your site is on a secure domain, an SSL certificate is not necessary and you can skip all of this section (4.0), and Sections 5.8 and 5.9.

**Note:** Since the SSL certificate acquisition may take up to 24 hours, it is recommended that you acquire the SSL certificate before beginning the BPRM installation.

The process for acquiring this certificate for sites on the IHS domain is different than that used by sites that are not on the IHS domain.

4.1.1 SSL Certificate Acquisition – IHS Domain

If your site is on the IHS domain, to acquire your SSL certificate:

1. Click *Start*, *Administrative Tools*, and *Internet Information Services (IIS) Manager*.
2. Click the server name. The **IIS Manager** dialog box (Figure 4-1) displays.
3. In the center panel, double-click **Server Certificates** in the **Security** section (near the bottom of the panel).
4. In the Actions panel (on the right), click Create Certificate Request. The Request Certificate Wizard (Figure 4-3).

5. In the Distinguished Name Properties dialog box, enter the information as follows:

- **Common Name.** The name through which the certificate will be accessed (usually the fully-qualified domain name, e.g., “NPACSMTBMW.d1.na.ihs.gov”).
- **Organization.** The legally registered name of your organization or company.
- **Organizational unit.** The name of your department within the organization (e.g., IHS).
- **City/locality.** The city in which your organization is located.
- **State/province.** The state in which your organization is located.
- **Country/region.** The two-character Country code.

![Request Certificate Wizard - Distinguished Name Properties](image)

6. Click Next. The Cryptographic Service Provider Properties dialog box (Figure 4-4) displays.
7. Leave both settings at their defaults:
   - **Cryptographic service provider**: Microsoft RSA SChannel Cryptographic Provider.
   - **Bit length**: 2048.

8. Click **Next**. The **File Name** dialog box (Figure 4-5) displays.
9. Type a path and file name for the certificate request file. Make note of the filename chosen and the save location. You will need to open this file as a text file and copy the entire body of it (including the Begin Certificate Request and End Certificate Request tags) into the online order process when prompted.

10. Click **Finish** to save the SSL certificate request file.

11. E-mail the file to [IHSServerCertificateRequest@ihs.gov](mailto:IHSServerCertificateRequest@ihs.gov). Request the SSL Certificate in PFX format for the BPRM Application. A certificate will be issued within 24 hours and e-mailed to the originator of the request. Once the certificate is received, proceed with the BPRM installation as described in Sections 5.0 through 8.0.

### 4.1.2 SSL Certificate Acquisition – Non-IHS Domain

If the site is not on the IHS domain, the steps for acquiring an SSL certificate will vary, depending on the certificate provider. Several vendors (e.g., GoDaddy, Thawte, and Verisign) provide SSL certificates, and the process for acquiring the certificate is different for each.

Follow the steps provided by the SSL certificate vendor to acquire an SSL certificate, and proceed to the BPRM installation instructions in Sections 5.0 through 8.0.
5.0 BPRM Application Server Installation and Configuration

5.1 Microsoft .NET Framework Verification

As mentioned in Section 2.2.1, Microsoft .NET Framework 4.5 is required on the BPRM application server. To determine if it is already installed:

1. From the Windows Start menu, select Control Panel.

2. Click Programs and Features. A listing similar to that shown in Figure 5-1 displays.

![Figure 5-1: Programs and Features listing](image)

3. Review the listing, looking for any Microsoft .NET Framework 4.x entries. If none are found, install the .NET Framework 4.5 by following the instructions in Section 5.2. If Microsoft .NET Framework 4.5 is listed, skip to Section 5.3.

**Note:** There can be more than one version of the .NET Framework on the server at the same time.

5.2 Microsoft .NET Framework 4.5 Installation

To install the .NET Framework:


2. Double-click the downloaded file to run the .Net Framework 4.5 setup. The License Terms dialog box (Figure 5-2) displays:
3. Select **I have read and accept the license terms** to accept the license agreement.

4. Click **Install**. Respond to any prompts presented as the installation proceeds. When completed, the **Installation is Complete** dialog box (Figure 5-3) displays:
5. Click **Finish** to complete the installation. If necessary, restart the server.

6. As a final step, run the Windows Updates utility to check for and install any .NET Framework updates that may be available.

It is very important to check for and install any .NET Framework updates. These updates can be critical to the stability and security of BPRM operation.
5.3 Internet Information Services 7.0 Installation

To install the Microsoft IIS:

1. From the Windows Start menu, select Administrative Tools.

2. Select Server Manager to display the Server Manager dialog box.

3. Click Roles in the left pane. The Roles pane (Figure 5-5) displays.
4. If you already set up a web server, click Select Roles and skip to Step 6.

5. If you have not yet set up a web server, click Add Roles on the right pane.
   Review the Before You Begin dialog box, and then click Next.

6. The Select Server Roles dialog box (Figure 5-6) displays:
7. Select **Web Server (IIS)**. The **Add Roles Wizard** (Figure 5-7) displays:

![Add Roles Wizard](image)

Figure 5-7: **Add Roles Wizard**

8. Click **Add Required Features**. The **Web Server (IIS)** dialog box (Figure 5-8) displays:

![Add Roles Wizard Web Server (IIS) dialog box](image)

Figure 5-8: **Add Roles Wizard Web Server (IIS) dialog box**

9. Click **Next**. The **Select Role Services** dialog box (Figure 5-9) displays:
10. Clear any checked boxes and enable the following role services:

- **Common HTTP Features**
  - Static Content
  - Default Document
  - Directory Browsing
  - HTTP Errors
  - HTTP Redirection

- **Application Development**
  - ASP.NET
  - .NET Extensibility
  - ISAPI Extensions
  - ISAPI Filters

- **Health and Diagnostics** (optional)
  - HTTP Logging
  - Request Monitor

- **Security**
  - Request Filtering

- **Performance**
  - Static Content Compression
– Dynamic Content Compression

- **Management Tools**
  – IIS Management Console
  – IIS 6 Metabase Compatibility

11. Click **Next** to display the **Confirm Installation Selections** dialog box (Figure 5-10).

![Add Roles Wizard Confirm Installation Selections dialog box](image)

Figure 5-10: **Add Roles Wizard Confirm Installation Selections** dialog box

12. Click **Install**. The **Installation Results** dialog box (Figure 5-11) displays:
13. Click **Close** to complete the installation and end the process.

**Note:** Please review the additional steps for disabling the IIS Manager Logging feature in the **Appendix E: Disable Logging in IIS Manager** section.

### 5.4 Windows Communication Foundation Activation

To activate the Windows Communication Foundation (WCF):

1. From the Windows **Start** menu, select **Administrative Tools**.
2. Select **Server Manager** to display the **Server Manager** dialog box.
3. Click **Features** in the left pane. The **Features** pane (Figure 5-12) displays.
4. Select **Add Features**. The **Add Features Wizard** (Figure 5-13) displays.

![Server Manager Features applet selected](image)

**Figure 5-12: Server Manager Features applet selected**

5. Select the **.NET Framework 3.x Features**, including the WFC Activation options:

![Add Features Wizard - Select Features dialog box](image)

**Figure 5-13: Add Features Wizard - Select Features dialog box**
**Note:** The example in Figure 5-13 shows .NET Framework 3.0. You may see a different .NET Framework version on the server.

6. Click **Next**. The **Confirm Installation Selections** dialog box (Figure 5-14) displays.

![Add Features Wizard - Confirm Installation Selections dialog box](image)

Figure 5-14: **Add Features Wizard - Confirm Installation Selections** dialog box

7. Click **Install** to complete the process.

8. Click **Next** to view the **Installation Results** (Figure 5-15).
9. Click **Close** to complete the **WCF installation**.

### 5.5 Adding MIME Types

To add MIME types:

1. From the Windows **Start** menu, select **Administrative Tools**.
2. Select **Internet Information Services (IIS) Manager** to display the IIS Management Console (Figure 5-17).

3. Select the application server in the left pane.

4. Double-click **MIME Types** to display the **MIME Types** dialog box Figure 5-18.
5. Click **Add** in the **Actions** pane. The **Add MIME Type** dialog box (Figure 5-19) displays:

![Add MIME Type dialog box](image)

Figure 5-19: Blank **Add MIME Type** dialog box

![Add MIME Type dialog box](image)

Figure 5-20: **Add MIME Type** .aspx Extension
6. Type `.aspx` in the **File name extension** field.

7. Type **text/html** in the **MIME type** field.

8. Click **OK**.

9. In the **MIME Types** dialog box (Figure 5-18), click **Add** in the **Actions** pane on the right of the screen.

![Add MIME Type .svc Extension](image)

Figure 5-21: **Add MIME Type .svc Extension**

10. Type `.svc` in the **File name extension** field.

11. Type **application/soap+msbin1** in the **MIME type** field.

12. Click **OK**.

13. Click the back arrow in the upper left corner of the IIS Management Console (Figure 5-18) to return to the **IIS Manager Start** window.

### 5.6 HTTP Compression Configuration

To configure HTTP compression:

1. Using **Windows Explorer**, browse to `C:\Windows\System32\inetsrv\config` as shown in Figure 5-22.

**Note:** This folder is typically hidden; you may need to manually type the folder path in the Windows Explorer address bar.
2. Open the `applicationHost.config` file with a text editor such as Notepad and find the `httpCompression` tag. Figure 5-23 shows a typical applicationHost.config file after scrolling down to the `httpCompression` tag.

   **Note:** The statements following the tag in the file on the system might not match those in this example.

```
<httpCompression directory="%SystemDrive%\inetpub\temp\IIS Temporary Compressed Files">
    <scheme name="gzip" dll="%Windir%\system32\inetsrv\gzip.dll" />
    <dynamicTypes>
        <add mimeType="text/*" enabled="true" />
        <add mimeType="message/*" enabled="true" />
        <add mimeType="application/x-javascript" enabled="true" />
        <add mimeType="**" enabled="false" />
    </dynamicTypes>
    <staticTypes>
        <add mimeType="text/*" enabled="true" />
        <add mimeType="message/*" enabled="true" />
        <add mimeType="application/javascript" enabled="true" />
        <add mimeType="**" enabled="false" />
    </staticTypes>
</httpCompression>
```

Figure 5-23: Section of a typical applicationHost.config file

3. If not already present in your applicationHost.config file, ensure the dynamic compression level and dynamic type statements are added to the file as shown in Figure 5-24:

```
<httpCompression directory="%SystemDrive%\inetpub\temp\IIS Temporary Compressed Files">
```

Figure 5-24: Code snippet for adding dynamic compression level and dynamic type statements
4. When finished editing the applicationHost.config file, save it and exit from the text editor.

5.7 Moonwalk Web Site Setup

5.7.1 Add the Application Pool

To add the Application Pool:

1. Return to the **IIS Manager** opened in Section 5.5 and browse to **Application Pools** in the tree structure below your IIS node as shown in Figure 5-25.

![IIS Manager browsed to Application Pools](image)

2. Right-click **Application Pools** and select **Add Application Pool**. The **Add Application Pool** dialog box (Figure 5-26) displays.
3. In the **Name** field, type the name of the application pool (**Moonwalk**).

4. In the .NET Framework version field, select version 4.x of the .NET Framework.

5. Click **OK**.

6. Right-click the newly-created application pool in **IIS Manager** and click **Advanced Settings**. A dialog box similar to Figure 5-27 displays:

![Advanced Settings](image-url)
7. Change the Idle Time-out value to 120 minutes.

8. Change the Identity value to LocalSystem.

9. Click OK to save the changes and close the dialog box.

5.7.2 Create a Moonwalk Folder

To aid in setting up the Moonwalk web site, create a C:\inetpub\Moonwalk folder:

1. Using Windows Explorer, navigate to C:\inetpub on your Windows application server.

2. Click Organize, and then select New Folder. (Alternatively, click New Folder in the Windows Explorer toolbar if it is present.)

3. Type Moonwalk, and then press Enter to create the C:\inetpub\Moonwalk folder.

5.7.3 Add the New Site

To add the new web site:

1. Right-click Sites in the Connections pane of the IIS Manager and select Add Web Site. The Add Web Site dialog box (Figure 5-28) displays.
2. In the **Site name** field, type **Moonwalk**.

3. Click **Select** and select the Moonwalk application pool created in the previous steps.

4. In the **Physical Path** field, browse to the C:\inetpub\Moonwalk folder created in Section 5.7.2. Be aware that the location will be different if the folder was created on a different drive.

5. Set the port number in the **Binding** section to the range of 80 through 83 unless you have a specific reason not to do so. If you use a port other than the default Port 80, ensure that port is open on your firewall.

6. Click **OK** to save the changes and close the **Add Web Site** dialog box.

### 5.8 Install the SSL Certificate

To install the SSL server certificate acquired in Section 4.1:

1. From the Windows **Start** menu, select **Administrative Tools**.

2. Select **Internet Information Services (IIS) Manager**.
3. Click the server name in the left panel.

4. Double-click **Server Certificates** in the **Security** section (near the bottom of the panel).
5. In the Actions panel (on the right), click Import. The Import Certificate dialog box displays.

6. Click the ellipses button (…) to browse to the location where the server certificate file acquired in Section 4.1 was saved.

7. In the Password field, type the password provided by the IHS Server Certificate Request team (or in the case of non-tribal sites, by the issuing authority from which the server certificate was acquired). If the server certificate was acquired from another issuing authority, you may or may not have received a password. Enter the password if applicable; otherwise leave this field blank.

8. Click OK to complete the import procedure.

5.9 Configure the SSL Certificate

**Note:** If you configure the SSL certificate after installing the BPRM application, you must uninstall BPRM before configuring the SSL certificate. See Section 8.2 for information about uninstalling BPRM.

To configure the SSL certificate:

1. In the IIS Manager window, select the name of the server where the certificate was installed.

2. Under Sites, select the site to be secured with the SSL certificate.

3. In the Actions pane, click Bindings.

4. Click Add.

5. In Add Site Binding:
   a. For Type, select https.
   b. For IP address, select All Unassigned, or the IP address of the site.
   c. For Port, specify a port number ranging from 440 through 443.

   **Note:** When installing SSL with https (port 440 through 443), first remove any previous site bindings for http (port 80 through 83). The Site Bindings dialog box shown in will indicate whether there any http site bindings and allow their removal.

   d. Select the SSL certificate just installed. Click OK.
6. Click Close.

7. Close Internet Information Services (IIS) Manager.

The SSL Certificate is now configured. Visit the website via an HTTPS connection, using the domain name, not the IP address, to verify the installation.
6.0 BPRM Database Server Installation and Configuration

This section outlines the steps essential for setting up and configuring an IHS RPMS database server in order for the BPRM application to be executed against the RPMS database. It also provides steps to set up such an environment.

6.1 Assumptions

This section assumes the following:

• Ensemble/Cache server (running one of the supported versions as described in Section 2.4.1) has already been set up.

• An RPMS database is already set up on the Ensemble/Cache server.

• The person performing the installation and configuration has the appropriate rights to mount databases, create a namespace, and edit namespace settings for the RPMS database.

• The BMW CACHE.DAT file provided by OIT SQA as described in the BMW CACHE.DAT Installation Guide and Release Notes document is installed.

6.2 Importing a New BPRM XML File

A separate XML file is included with the release; follow the steps in Sections 6.2.1 through 6.2.2 to import a new BPRM XML file.

6.2.1 Disable Read Only

In order to import the bprm0300.01.xml file, you must set the BMW database to allow write access. If the database is set to Read Only:

1. Browse to the Local Databases window of the Ensemble Management Portal following this path:

   Home > System Administration > Configuration > System Configuration > Local Databases.

2. Click Edit in the row corresponding to the BMW database.

3. In the window displayed, set the Read Only? field to No.

Once the patch is installed, you can re-enable Read Only mode by repeating these steps and setting the Read Only? field to Yes.
6.2.2 Import the BPRM XML File

To import the `bprm0300.01.xml` file:

1. From the **Ensemble/Cache System Management Portal Home** window, click **System Explorer**, and then click **Classes**. The **Classes** dialog box (Figure 6-1) displays.

![Figure 6-1: Classes window](image)

2. Select the **BMW** namespace in the **LookIn**: pane on the left side of the dialog box.

3. Click **Import**. The **Import Classes** dialog box (Figure 6-2) displays.
4. Click **Browse** and navigate to the `bprm0300.01.xml` file in the folder where it was saved as described in Section 3.0.

5. Select the `bprm0300.01.xml` file and click **Next**.

6. A listing (Figure 6-3) displays showing the contents of the XML file.
7. Click **Import**. After a few moments of processing, a listing of the imported classes (Figure 6-4) displays.
8. Scroll to the bottom of the listing to confirm the **Load finished successfully** message displays (Figure 6-5).

At this point, the BMW database configuration is complete.
6.3 Cache User Creation

BPRM performs CRUD operations over the RPMS DB using the BMW tables that were mapped over the RPMS database, as described in Section 6.2.

BPRM requires a Cache user privileged to execute CRUD on the RPMS database. Table 6-1 shows the privileges needed:

Table 6-1: User Permissions Needed

<table>
<thead>
<tr>
<th>Item</th>
<th>Permissions Needed</th>
</tr>
</thead>
<tbody>
<tr>
<td>SQL Tables</td>
<td>Update/Read/Delete privilege on all tables of the BMW package in the RPMS database</td>
</tr>
<tr>
<td>SQL Views</td>
<td>Read permission all views of the BMW package in the RPMS database</td>
</tr>
<tr>
<td>SQL Procedures</td>
<td>Execute permission on all procedures of the BMW package in the RPMS database</td>
</tr>
</tbody>
</table>

6.3.1 Create the Moonwalk User

To create a new Moonwalk user:

1. Navigate to the Users window of the Ensemble System Management Portal following this path:

   **Home > System Administration > Security > Users**

2. Click **Create New User** to display the **Edit User** window (Figure 6-6).
3. Type **MOONWALK_USER** in the **Name** field.

4. Type a password that complies with your site-specific password rules in the **Password** and **Password Confirmation** fields.

5. Click **Save** to save the new user.

6. Click **Close** to exit the **Edit User** window.

### 6.3.2 Assign User Roles

To assign user roles for the required tables:

1. Navigate to the **Users** window (Figure 6-7) in the **Ensemble System Management Portal** following this path:

   **Home > System Administration > Security > Users**
2. Click **Edit** in the row corresponding to the new MOONWALK_USER user created in Section 6.3.1. The **Edit User** window (Figure 6-8) displays.

![Figure 6-8: Roles tab in Edit User window – before changes](image)

3. Click the **Roles** tab.

4. Select **%ALL** from the **Available** column and move it to the **Selected** column by clicking the right arrow.

5. Click **Assign** to assign the **%ALL** role to the MOONWALK_USER account. When done, the **Edit User** window will look similar to that shown in Figure 6-9.
Figure 6-9: Roles tab in Edit User window – after changes
7.0 Application Deployment to the Web Server

With the application and database server installations complete, this section describes the steps for installing the BPRM application itself.

**Note:** If installing an update or patch to an existing BPRM installation, first uninstall the previous version before continuing. See Section 8.0 for instructions.

7.1 Deploy the BPRM Application

To deploy the BPRM application:

1. Log onto the application server and browse to the location where the BPRM Application Installer file (bprm0300.01.msi) is stored.
2. Double-click the `bprm0300.01.msi` file to run the BPRM application installer.

**Note:** If an error message displays indicating that you do not have sufficient privileges to run the installer, refer to Appendix A for instructions on running the installer from the Administrator command prompt.

3. Once the installer is started, the **BPRM setup wizard** (Figure 7-1) displays.

![Figure 7-1: BPRM Setup Wizard dialog box](image)

4. Click **Next**. The **Select Installation Address** dialog box displays.
5. Select **Moonwalk** from the **Site** list.

6. Type the directory name in the **Virtual directory** field, if necessary.

7. Select **Moonwalk** from the **Application Pool** list. Figure 7-2 shows the results:

![Select Installation Location dialog box](image)

**Figure 7-2:** Select Installation Location dialog box after selection

8. Click **Next**. The **Confirm Installation** (Figure 7-3) dialog box displays.

![Confirm Installation dialog box](image)

**Figure 7-3:** Confirm Installation dialog box
9. Click **Next**. The **Installing BPRM** dialog box (Figure 7-4) displays and the installation progress is shown.

![Figure 7-4: Installing BPRM dialog box](image)

10. After a few moments of processing, the **Database Configuration** dialog box (Figure 7-5) displays.

![Figure 7-5: Database Configuration dialog box](image)

11. The BPRM suite relies on specific information about each RPMS database to which it is connected. Click **Add** in the **Database Configuration** dialog box to display the Configuration dialog box (Figure 7-6) and add this information for each database associated with this installation.

![Figure 7-6: Database Configuration dialog box](image)
The **Database Configuration** dialog box contains the following fields:

- **Database IP**. Use this field to enter the IP address of your RPMS database. Note that this is the internal IP address, not an external address.

- **Namespace**. Use this field to enter the namespace of your RPMS database.

- **DB User Name**. This field is automatically populated with the MOONWALK_USER user name.

- **Password**. Use this field to enter the password you set for the MOONWALK_USER account in section 6.3.1.

- **Port**. Use this field to enter the Cache Superserver port used by your RPMS database. By default, this is port 1972, although it will be different on your system if you have changed this Cache setting.

  You can check your Superserver port number from within the Ensemble Management Portal using this path:

  **Home > Configuration > Memory and Startup**

  The Superserver port number displays at the bottom of the page displayed.

- **Short Name**. This field is automatically populated with your institution’s short name if it exists in your INSTITUTION file. If it does not exist, type a short name of your choice by which you can identify this institution in the future.

- **Institutions**. Use this list box to choose the institutions associated with your RPMS database. When the **Default** check box is enabled, this list is limited to only the institutions set as your default per your INSTITUTION file. When the check box is cleared, the list will show all available institutions.
12. When the **Configuration** dialog box displays, enter the **Database IP**, **NamespaceDB User Name**, **Password**, and **Port**, then click **Verify Connection**. Once the **Institutions** list is loaded, select your institution from the list and provide a **Short Name** (if not already present).

13. Once the fields are populated, click **Save** to add the information to the BPRM database configuration file. If more than one database is associated with this installation of BPRM, re-populate the form fields with the appropriate information and click **Save** again. Repeat this process for each database.

14. When done, click **Continue** to continue the application installation.

15. A **Moonwalk Setup Status Page** (Figure 7-7) will display to perform a setup check. The checks listed should display as complete.

![Moonwalk Setup Status Page](image)

**Figure 7-7: Moonwalk Setup Status Page**

16. When the installation is complete, click **Next**. The **Installation Complete** dialog box Figure 7-8 displays.
17. Click Close to exit the dialog box.

7.2 Adding a Database after the Installation

In some cases and at some sites, it may be necessary or desirable to associate one or more additional databases to the BPRM application suite. To add a database after BPRM has been installed:

1. Log onto the application server where BPRM resides.

2. Browse to the location where the BPRM Application Installer file (bprm0300.01.msi) is stored.

3. Double-click the bprm0300.01.msi file to run the BPRM application installer. The BPRM setup wizard (Figure 7-9) displays in repair mode.
4. Select **Repair**, and then click **Finish**. The **Installing BPRM** dialog box (Figure 7-10) displays.

5. Click **Next** once the processing is complete. The **Database Configuration** dialog box (Figure 7-11) displays.
6. In the **Database Configuration** dialog box, click **Load Existing Configuration**. The **Configuration File Selection** dialog box (Figure 7-12) displays.

![Database Configuration dialog box](image)

**Figure 7-11: Database Configuration dialog box**

7. Select **Facilities**, and then click **Open**. The **Database Configuration** dialog box displays again, with the existing configuration listed, similar to that shown in Figure 7-13.

![Configuration File Selection dialog box](image)

**Figure 7-12: Configuration File Selection dialog box**
8. Click **Add** in the **Database Configuration** dialog box to display the Configuration dialog box.

9. When the **Configuration** dialog box displays, enter the **Database IP**, **NamespaceDB User Name**, **Password**, and **Port**, then click **Verify Connection**. Once the **Institutions** list is loaded, select your institution from the list and provide a **Short Name** (if not already present).

10. Once the fields are populated, click **Save** to add the information to the BPRM database configuration file. Repeat this process for each database.

11. When done, click **Continue** to continue the application installation.

12. When the installation is complete, the **Installation Complete** dialog box Figure 7-14 displays.
13. Click Close to exit the dialog box.

7.3 Menu and Security Keys

There are no package-specific security keys associated with BPRM. The BPRM package operates on existing RPMS security keys.

BPRM security is built upon the RPMS Menus and Security keys. Table 7-1 defines the relationship between BPRM Roles and the RPMS Menu and Security keys.

Note: If a user has AKMOCORE or AKMOEVE as their primary menu option, either of these menu options will override any of the Secondary Menu options shown in Table 7-1. They will, however, need the appropriate Security Keys as shown in the table.

Table 7-1: Security Keys

<table>
<thead>
<tr>
<th>Role</th>
<th>Secondary Menu Option</th>
<th>Security Keys</th>
</tr>
</thead>
<tbody>
<tr>
<td>ADT Clerk</td>
<td>BDGMENU</td>
<td>DGZADT, DGZNUR, DGZMENU</td>
</tr>
<tr>
<td>ADT Coder</td>
<td>BDGMENU</td>
<td>DGZPCC, DGZMENU</td>
</tr>
<tr>
<td>Role</td>
<td>Secondary Menu Option</td>
<td>Security Keys (Must include all)</td>
</tr>
<tr>
<td>---------------------</td>
<td>---------------------------</td>
<td>----------------------------------</td>
</tr>
<tr>
<td>ADT Supervisor</td>
<td>BDGMENU</td>
<td>DGZADT</td>
</tr>
<tr>
<td></td>
<td></td>
<td>DGZICE</td>
</tr>
<tr>
<td></td>
<td></td>
<td>DGZNUR</td>
</tr>
<tr>
<td></td>
<td></td>
<td>DGZSUP</td>
</tr>
<tr>
<td></td>
<td></td>
<td>DGZSYS</td>
</tr>
<tr>
<td></td>
<td></td>
<td>DGZMENU</td>
</tr>
<tr>
<td>ADT Non-Clinical</td>
<td>BDGMENU</td>
<td>DGZNOCLN</td>
</tr>
<tr>
<td></td>
<td></td>
<td>DGZMENU</td>
</tr>
<tr>
<td>Admin</td>
<td></td>
<td>XUPROG</td>
</tr>
<tr>
<td></td>
<td></td>
<td>XUROGMEMODE</td>
</tr>
<tr>
<td>CQM Clerk</td>
<td>APCLMENU</td>
<td>APCLZMENU</td>
</tr>
<tr>
<td>CQM Supervisor</td>
<td>APCLMENU</td>
<td>APCLZMENU</td>
</tr>
<tr>
<td>Flag Manager</td>
<td></td>
<td>DGPF MANAGER</td>
</tr>
<tr>
<td>Flag Assignment</td>
<td></td>
<td>DGPF ASSIGNMENT</td>
</tr>
<tr>
<td>Flag Access</td>
<td></td>
<td>DGPF PRF ACCESS</td>
</tr>
<tr>
<td>PHR Operate</td>
<td>AGPAT -or- AGVIEWONLY</td>
<td>AGZPHROPT</td>
</tr>
<tr>
<td>Registration Clerk</td>
<td>AGPAT -or- AGMENU</td>
<td>AGZMENU</td>
</tr>
<tr>
<td>Registration Supervisor</td>
<td>AGM MENU</td>
<td>AGZMENU AGZMGR AGZHOME AGZREPORTS AGZDELRN</td>
</tr>
<tr>
<td>Registration View Only</td>
<td>AGPAT -or- AGVIEWONLY</td>
<td>AGZVIEWONLY</td>
</tr>
<tr>
<td>Scheduling Clerk</td>
<td>BSDMENU</td>
<td>SDZMENU</td>
</tr>
<tr>
<td>Scheduling Supervisor</td>
<td>BSDMENU -or- BSD MENU SUPERVISOR</td>
<td>SDZMENU SDZSUP</td>
</tr>
<tr>
<td>SSN Viewer</td>
<td>AGSSNMENU</td>
<td>AGZVIEWSSN</td>
</tr>
</tbody>
</table>

In cases where there is more than one Secondary Menu Option listed in Table 7-1, only one is necessary per user. Conversely, where there is more than one Security Key listed for a specific role, all of the keys shown must be included. For example, a Scheduling Supervisor needs either the BSDMENU or BSD MENU SUPERVISOR added as a Secondary Menu Option, but needs both the SDZMENU and SDZSUM Security Keys.
7.4 Open the BPRM Application

After the installation and configuration steps have been done, to open BPRM:

1. Open Internet Explorer.

2. In the Address bar, enter the IP address of your Windows application server and the port number using this form, where domain_name represents the IP address of the application server and k represents the port number you assigned in Section 5.9:

   For sites using SSL:

   https://domain_name:kkk

   For sites not using SSL:

   http://ip_address:kk

3. If Microsoft Silverlight is not already installed on the computer, a message will be displayed offering to download and install it. Follow the prompts to install Silverlight on the computer.

4. Once Silverlight is installed, the BPRM Log In screen (Figure 7-15) displays.

![Log In Screen]

   Figure 7-15: BPRM Log In screen

5. Type your RPMS Access Code (user name) in the Access Code field

6. Type your RPMS Verify Code (password) in the Verify Code field.
7. Select your RPMS database from the Database list box.

**Note:** Users must have an RPMS division assigned to them before they can log into the RPMS database selected in this step.

8. Click **Login**. A screen similar to that shown in Figure 7-16 will be displayed, although different modules may be displayed at the bottom of the screen.

![Figure 7-16: BPRM Opening Screen](image)

**Note:** If you specified a port other than the default in Section 5.7.3 and the opening screen is not displayed, verify that the port you specified is open on the BPRM web server.

Refer to the separate BPRM User Manuals for additional information about using the modules that make up the application suite.
8.0 Installing BPRM Patches and Updates

BPRM patches and updates are released on a periodic basis to address reported issues and to add enhancements. Follow the steps in Sections 8.1 through 8.7 to install an incremental patch or update.

Note: In this chapter, the BPRM installation file name is represented with bprmnnnn.exe, where nnnn represents the BPRM patch or update version number you are installing.

8.1 Stop the BPRM Web Site on the Application Server

Before installing a patch or update, stop the BPRM (Moonwalk) web site:

1. From the Windows Control Panel menu, open the System and Security applet and select Administrative Tools as shown in Figure 8-1.

![Figure 8-1: Opening Administrative Tools](image)

2. Double-click Internet Information Services (IIS) Manager (Figure 8-2).
3. Expand the tree in the left pane for the appropriate server (TRAININGAPP in the example shown in Figure 8-3). Open the Sites folder and select the Moonwalk site.

Figure 8-3: Internet Information Services (IIS) Manager - Stopping the Moonwalk (BPRM) web site
4. Click **Stop** in the **Manage Web Site** section on the right side of the window as shown in Figure 8-3.

### 8.2 Uninstall the BPRM Application

Follow these steps to uninstall BPRM:

1. Open the **Windows Control Panel** and select the Programs and Features applet.

2. Select the BPRM application as shown in Figure 8-4 and click **Uninstall**. Be aware that in some cases, the previous namespace (BMW) may be displayed instead of BPRM:

![Figure 8-4: Uninstalling BPRM](image)

### 8.3 Install the BPRM Application

To deploy the BPRM application:

3. Log onto the application server and browse to the location where the BPRM Application Installer file (**bprmnnnn.msi**) is stored.

4. Double-click the **bprmnnnn.msi** file to run the BPRM application installer.

**Note:** If an error message displays indicating that you do not have sufficient privileges to run the installer, refer to Appendix A for instructions on running the installer from the Administrator command prompt.
5. Once the installer is started, the **BPRM setup wizard** (Figure 8-5) displays.

![BPRM Setup Wizard](image)

Figure 8-5: **BPRM Setup Wizard** dialog box

6. Click **Next**. The **Select Installation Address** dialog box displays.

7. Select **Moonwalk** from the **Site** list.

8. Type the directory name in the **Virtual directory** field, if necessary.

9. Select **Moonwalk** from the **Application Pool** list. Figure 8-6 shows the results:
10. Click Next. The Confirm Installation (Figure 8-7) dialog box displays.

11. Click Next. The Installing BPRM dialog box (Figure 8-8) displays and the installation progress is shown.
12. After a few moments of processing, the Database Configuration dialog box (Figure 8-9) displays.

13. In the Database Configuration dialog box, click Load Existing Configuration. The Configuration File Selection dialog box (Figure 8-10) displays.
14. Select **Facilities**, and then click **Open**. The **Database Configuration** dialog box displays again, with the existing configuration listed, similar to that shown in Figure 8-11.

15. After you have specified all of the required information in the **BPRM Release Manager** dialog box, click **Continue** to complete the installation.

16. A **Moonwalk Setup Status Page** (Figure 8-12) will display to perform a setup check. The checks listed should display as complete. This page can only display results while the Moonwalk website and application pool are started.
17. When the installation is complete, click **Next**. The **Installation Complete** dialog box Figure 8-13 displays.

![Installation Complete dialog box](image)

**Figure 8-13: Installation Complete dialog box**

18. Click **Close** to exit the dialog box.

### 8.4 Importing a New BMW CACHE.DAT File

Follow the steps outlined in Section 5 of the *BMW CACHE.DAT Installation Guide and Release Notes* to import a new BMW CACHE.DAT file.
8.5 Importing a New BPRM XML File

A BPRM patch or update is contained within a single XML file. Follow the steps in Sections 8.5.1 through 8.5.2 to import a new BPRM XML file.

8.5.1 Disable Read Only

In order to import the bprmnnnn.xml file, set the BMW database to allow write access. If the database is set to Read Only:

1. Browse to the Local Databases window of the Ensemble Management Portal following this path:
   
   Home > System Administration > Configuration > System Configuration > Local Databases

2. Click Edit in the row corresponding to the BMW database.

3. In the window displayed, set the Read Only? field to No.

Once the patch is installed, re-enable Read Only mode by repeating these steps and setting the Read Only? field to Yes.

8.5.2 Import the BPRM XML File

To import the bprmnnnn.xml file:

1. From the Ensemble/Cache System Management Portal Home window, click System Explorer, and then click Classes.

2. In the Classes window displayed (Figure 8-14), select the BMW namespace in the LookIn: section on the left side of the window.
3. Click **Import**. This causes the **Import Classes** dialog box shown in Figure 8-15 to be displayed.

4. Click **Browse** and navigate to the `bprmn.nn.xml` file in the folder where it was saved as described in Section 3.0. Select the `bprmn.nn.xml` file and click **Next**.
5. Next, a listing (Figure 8-16) will be displayed showing the contents of the XML file.

![Import Classes window - Content listing](image)

Figure 8-16: **Import Classes** window - Content listing

6. Click **Import**. After a few moments of processing, a listing of the imported classes will be displayed. Figure 8-17 shows an example of a typical listing.
7. Scroll to the bottom of the listing to confirm the **Load finished successfully** message displays (Figure 8-18).

The importation of the BPRM XML file is now complete.
8.6 Purge the Previous SQL Queries

To purge any previous SQL queries:

1. From the Ensemble/Cache **System Management Portal Home** window, click **System Explorer > SQL > Browse SQL Schemas**.

2. On the left side of the window displayed select your RPMS database. In the example shown in Figure 8-19, **EBCI** is selected. Your database will likely have a different name.

3. Click **Purge Queries**.

8.7 Start the BPRM Web Site on the Application Server

As a final action, re-start the BPRM (Moonwalk) web site. Follow the steps outlined in Section 8.1, but select the **Start** option in Step 3.

The installation of the BPRM patch or update is now complete.

---

**Note:** Please review the additional steps for disabling the IIS Manager Logging feature in the Appendix E: **Disable Logging in IIS Manager** section.
Appendix A: Running the Application Installer from the Command Prompt

In cases where you do not have sufficient privileges to install the BPRM application, an error message similar to the one shown in Figure A-1 displays.

![Insufficient privileges error message](image)

Figure A-1: Insufficient privileges error message

If this happens, it will be necessary to install the application as an Administrator:

1. Navigate to `C:\Windows\system32` on your application server.
2. Locate the cmd.exe file, right-click, and select Run as Administrator.
3. In the Command Prompt window displayed, type this command to change to the disk and directory where the BPRM application installer file is located. In this example, the file is located on drive D: in the `EnsembleDatabases\bprm` folder. On your system, this location will likely be different.

```
C:\Windows\system32>D:
D:\>
D:\>cd EnsembleDatabases\bprm
D:\EnsembleDatabases\bprm>
```

4. At the resulting prompt, type the name of the installation file (`bprm0300.01.msi` in this example) and press Enter:

```
D:\EnsembleDatabases\bprm>bprm0300.01.msi
```

This will launch the BPRM setup Wizard and at that point you can follow the steps described in Section 7.1.
Appendix B: Running Multiple Instances of BPRM

For testing purposes, it may be desirable to run multiple instances of BPRM. To set up multiple instances of BPRM:

1. Create a new application pool as described in Section 5.7.1, using a unique name for your test site (i.e., BetaMoonwalk or TestMoonwalk).

2. Create a new folder (also with a unique name for your test site) as described in Section 5.7.2.

3. Add a new website as described in Section 5.7.3, using the newly created application pool and folder. Also change the port number in order to avoid conflict with the original Moonwalk website.

4. Deploy the new instance of the BPRM application by following the steps shown in Section 7.1, but select the test website and application pool during the installation process.
Appendix C: Global Mappings

In addition to the BPRM suite, it is possible for other RPMS applications to use Cache classes and global data stored in the BMW database (CACHE.DAT). In these cases, global mapping must be established between the BMW database and RPMS database.

**Note:** These steps are not required for using BPRM, but may be needed for other RPMS applications. There is no need to perform the global mapping unless directed to do so in the documentation provided with the application.

To perform global mapping:

1. Browse to the **Namespaces** window of the **Ensemble Management Portal** following this path:

   Home > System Administration > Configuration > System Configuration > Namespaces

1. A **Namespaces** window similar to Figure C-1 displays. Click **Global Mappings** in the row corresponding to your RPMS production database. This example shows the ECBI database, an RPMS production database. Your database will have a different name, and potentially a different name for each site. To reiterate, this will be your RPMS production database, not the BMW database you created when you installed BPRM.

![Figure C-1: Namespaces window with Global Mappings](image)
2. In the Global Mappings window shown (Figure C-2), click New Global Mapping to display the Global Mappings dialog box.

![Figure C-2: Global Mappings window](image)

3. In the Global Mapping dialog box (Figure C-3), select BPRM as the Global database location, type BMW as the Global name, and click OK.

![Figure C-3: Global Mapping dialog box](image)
4. Click **Save Changes** in the confirmation window displayed (Figure C-4) to complete the global mapping operation.

![Figure C-4: Global Mappings confirmation window](image)
Appendix D: Application Server Specification Example

Table D-1 shows the specifications for a typical application server capable of running the BPRM application suite. These specifications only represent an example and are not to be considered a stringent specification.

This example is from the Dell web site. At the time of initial publication of this manual, the total cost for this application server (including Windows Server 2008 software) was approximately $3,800.00.

Table D-1: Typical Application Server Specification Example

<table>
<thead>
<tr>
<th>Catalog Number/Description</th>
<th>Product Code</th>
<th>Qty</th>
<th>SKU</th>
<th>ID</th>
</tr>
</thead>
<tbody>
<tr>
<td>PowerEdge M520:</td>
<td>M520G</td>
<td>1</td>
<td>[225-3012]</td>
<td>1</td>
</tr>
<tr>
<td>PowerEdge M520 Blade Server</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Operating System:</td>
<td>WS8SE5C</td>
<td>1</td>
<td>[421-5433]</td>
<td>11</td>
</tr>
<tr>
<td>Windows Server 2008 R2 SP1, Standard Edition, x64, Includes 5 CALS</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>OS Media Kits:</td>
<td>NOSDOC</td>
<td>1</td>
<td>[420-1908]</td>
<td>26</td>
</tr>
<tr>
<td>No Operating System Media Kit</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Onboard NIC Type (Fabric A):</td>
<td>OBNIC</td>
<td>1</td>
<td>[331-7322]</td>
<td>12</td>
</tr>
<tr>
<td>On-Board Broadcom 5720 Quad Port 1GBE</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Shipping:</td>
<td>SHIPGRP</td>
<td>1</td>
<td>[331-7322]</td>
<td>1500</td>
</tr>
<tr>
<td>Shipping Material, Individual Blade, PE M520</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Chassis Configuration:</td>
<td>SAS</td>
<td>1</td>
<td>[331-4358]</td>
<td>1530</td>
</tr>
<tr>
<td>Serial-Attach SCSI Backplane</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cooling:</td>
<td>FRESHA</td>
<td>1</td>
<td>[331-7256]</td>
<td>1531</td>
</tr>
<tr>
<td>Fresh Air Cooling</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Processor:</td>
<td>E52407</td>
<td>1</td>
<td>[319-0019]</td>
<td>1550</td>
</tr>
<tr>
<td>Intel® Xeon® E5-2407 2.20GHz, 10M Cache, 6.4GT/s QPI, No Turbo, 4C, 80W, Max Mem 1066MHz</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Additional Processor:</td>
<td>2E52407</td>
<td>1</td>
<td>[319-0028]</td>
<td>1551</td>
</tr>
<tr>
<td>Intel® Xeon® E5-2407 2.20GHz, 10M Cache, 6.4GT/s QPI, No Turbo, 4C, 80W</td>
<td></td>
<td></td>
<td></td>
<td></td>
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Appendix E: Disable Logging in IIS Manager

The Internet Information Services (IIS) manager is setup by default with a Logging feature which allows it to capture certain types of requests to log files in the IIS installation folder. We recommend disabling this logging feature for the Moonwalk websites as it may result in storage issues if the log file is not maintained or monitored.

The following steps show how to disable the Logging feature for each Moonwalk website setup at your site. This information can also be found on the Microsoft website at:


1. From the Windows Start menu, select Administrative Tools.

![Figure E-1: Opening Internet Information Services (IIS) Manager](image)

2. Select Internet Information Services (IIS) Manager to display the IIS Management Console.
3. Select the **Moonwalk** website in the left pane.

4. Double-click **Logging** to display the **Logging** dialog box.

5. Click **Disable** in the **Actions** pane.
Figure E-4: Disabled **Logging** window
## Acronym List

<table>
<thead>
<tr>
<th>Acronym</th>
<th>Term Meaning</th>
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<tbody>
<tr>
<td>BPRM</td>
<td>Practice Management Application Suite</td>
</tr>
<tr>
<td>CRUD</td>
<td>Create, Read, Update, and Delete</td>
</tr>
<tr>
<td>IHS</td>
<td>Indian Health Service</td>
</tr>
<tr>
<td>IIS</td>
<td>Internet Information Service</td>
</tr>
<tr>
<td>PHR</td>
<td>Personal Health Record</td>
</tr>
<tr>
<td>RPMS</td>
<td>Resource and Patient Management System</td>
</tr>
<tr>
<td>SSL</td>
<td>Secure Sockets Layer</td>
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<tr>
<td>WCF</td>
<td>Windows Communication Foundation</td>
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</table>
Contact Information

If you have any questions or comments regarding this distribution, please contact the OIT Help Desk (IHS).

**Phone:** (888) 830-7280 (toll free)

**Web:** [http://www.ihs.gov/helpdesk/](http://www.ihs.gov/helpdesk/)

**Email:** support@ihs.gov