



RESOURCE AND PATIENT MANAGEMENT SYSTEM

Practice Management Application Suite

(BPRM)

Installation Guide and Release Notes

Version 4.0 Patch 4
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Office of Information Technology
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Preface

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

BPRM is a browser-enabled graphical user interface (GUI) 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, BPRM. 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/IRIS.DAT file used by BPRM and other IHS applications.

The BPRM application suite consumes Cache classes, provided by BMW, 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 Healthshare/IRIS.

1.0 Release Notes

The following describes the changes made in BPRM v4.0 p4:

- **ADT**
 - FID: 93673–Allow user to toggle Active/Inactive Filters for Wards and Room Beds / Exclude inactive Chart Deficiencies from dropdown and being selectable
 - FID: 99471–Exclude inactive Admission Sources from dropdown and being selectable
 - FID: 93614–Provide ability to Delete an Admission
 - FID: 95960–Provide ability to sort by Bed Status
- **REGISTRATION**
 - FID: 96760–Display Person Code in the Policy Members list when user edits Private Insurance
 - FID: 91290–Generate MailMan notification to user that Benefit Case was assigned
 - FID: 99780–Include modification required for US@ Project certification (Domestic patient address)
 - FID: 97261–Prevent user from selecting Inactive Community for Date Moved but display in patient history
 - FID: 100749–Provide ability to Add a Guarantor for patient that is NOT registered
 - FID: 99986–Provide existing Temporary Chart Number report
- **SCHEDULING**
 - FID: 107704–Fix issue that was preventing site from successfully cancelling an appointment
 - FID: 108622–Modify Clinic Availability to operate in REAL TIME – without delay to other users
 - FID: 98105–Update Clinic Scheduled report to include Provider and rewrite Cancelled Appointment report to fix errors
 - FID: 98384–Add paging to Clinic Settings – User and Provider sections to allow user to navigate more efficiently
 - FID: 97605–LETTERS/SLOTS: Default clinic selection to “Please Select” in dropdown to force user to select a clinic and avoid confusion
 - FID: 94534–Include upcoming appointments in all Pre-Appt Letter printings and add Division to Future Appointments listing
 - FID: 97606–Allow user to select multiple clinics in List View and add Clinic to display

- FID: 99985–Require user to possess SDZREGMENU key to perform a mini-registration in Scheduling module
- FID: 93675–Provide ability for user to add a Note to an Access Block
- FID: 93679–Provide new option on context menu so the user can print the patient’s RX Profile
- FID: 62510–Add patient filter to Waiting List
- FID: 98100–Wait List: Provide ability for user to sort by month and search for patient by name and fix summary totals on report

2.0 Installation Notes

Prefix: BPRM

Current Version: 4.0

2.1 Contents of Distribution

Table 2-1: Distributed Files with Descriptions

File	Description
bprm0400.04.msi	BPRM Application Installer
bprm0400.04.xml	BPRM Data Description File
bprm040.04i.pdf	v4.4 Installation Guide and Release Notes
bprm040.04t.pdf	v4.4 Technical manual
bprm0400.04u_Registration.pdf	Registration User Manual v4.4
bprm0400.04u_Scheduling.pdf	Scheduling User Manual v4.4
bprm0400.04u_ADT.pdf	ADT User Manual v4.4
bprm0400.04u_Overview.pdf	Overview User Manual v4.4

2.2 Required Resources

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® Server 2016 x64 bit (or later)
- Microsoft IIS® 10 (WebSocket protocol required)
- Microsoft .NET Framework 4.8 (or later)
- 8+ processor cores running at 2.0 GHz or faster (for site)
- 12+ processor cores running at 2.4 GHz or faster (for area office)
- 8+ GB RAM running at 1333 MHz (for site)
- 16+ GB RAM running at 1333 MHz (for area office)
- 20 GB minimum free disk space

2.2.2 BPRM Server Disk Resources

Servers running the BPRM application require a minimum of 5 GB of free disk space.

2.2.3 Workstation Resources

The following resources are recommended for any workstations (user machines) 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 10 or above
- Microsoft Edge / Google Chrome

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 IRIS Prerequisites

BPRM v4.4 supports both HealthShare 2017.2.x and IRIS 2022.1.x . Be aware the examples in this installation manual reflect HealthShare 2017.2. If running a different version, some of the screens may differ slightly from those shown here.

A BMW-specific CACHE.DAT/IRIS.DAT file (Version 2023.4 or later) must be loaded into the HealthShare/IRIS server BMW namespace. Refer to the latest BMW Installation Guide for more information.

2.4.2 BPRM Prerequisites

The following CACHE.DAT/IRIS.DAT file must be installed:

- BMW v2023.4 or above

The following KIDS must be installed:

- PIMS v5.3 p1019
- AG v7.1 p17
- AUM v20 p4
- AUT v98.1 p28
- AUT v98.1 p29
- AUT v98.1 p30

- XU v8.0 p1018 or later
- DI v22 p1018 or later
- BJPC v2.0 p10
- AVA v93.2 p25
- AVA v93.2 p26
- AUPN v99.1 p28
- BSDX v3.0

2.4.3 RPMS 'HFS' Device Prerequisite

A fully functional BPRM v4.x requires the RPMS HFS device to be properly configured. BPRM reports may not work when RPMS HFS device is not properly configured.

BPRM v4.x connecting to an RPMS system would need the RPMS system to:

1. Have a device named 'HFS' in device file
2. Have the HFS device \$I value point to a valid directory/folder with or w/o filename. Either of the below are valid \$I values
 - a. C:\temp\hfs.txt
 - b. C:\temp\

To make appropriate changes to the HFS device use RPMS menu:

'Device Management' -> 'Device Edit' -> 'Host File Server Device Edit'

```

EDIT A HOST FILE SERVER DEVICE

NAME: HFS                               LOCATION: HOST FILE SERVER
  $I: G:\HFS\BPRMA\HFS.txt
Alt $I:
SUBTYPE: P-OTHER

      ASK PARAMETERS: YES                MARGIN WIDTH: 132
      ASK HOST FILE: YES                 PAGE LENGTH: 64
ASK HFS I/O OPERATION: YES             VOLUME SET (CPU): BPRMA

      OPEN PARAMETERS: "WNS"
      CLOSE PARAMETERS:
      PRE-OPEN EXECUTE:
      POST-CLOSE EXECUTE:
      QUEUING:                          SUPPRESS FORM FEED:

```

Figure 2-1: Edit a Host File Server Device

3.0 Installation Overview

The BPRM v4.0 p4 installation requires three files. The bprm0400.04.xml data description file and the bprm0400.04.msi application installation file are specific to the BPRM suite. These two files are included in the BPRM distribution package.

Additionally, a BMW CACHE.DAT/IRIS.DAT file (contained in a zipped file) specific to the Healthshare/IRIS version is also necessary. This BMW CACHE.DAT/IRIS.DAT file is used by BPRM, as well as other Certified Health IT 2015 IHS applications and is not included as part of the distribution package. It must be acquired separately from the IHS FTP or RPMS website.

Save the bprm0400.04.xml data description file and the zipped file containing the CACHE.DAT/IRIS.DAT file to a folder that is accessible to your database server. Similarly, save the bprm0400.04.msi file to a folder that is accessible to your application server(s).

3.1 Upgrading from BPRM 3.x Or a First-time install

BPRM v4.0 patch 4 can be installed on the same server as BPRM v3.x, but it is recommended to create a new website and application pool for BPRM v4.0 p4.

BPRM v3.x can be uninstalled once v4.0 p4 is installed successfully. Site should only use a single version of BPRM at a time. Having users use both v3.x and v4.x at the same time creates data inconsistency issues.

Follow the instructions in Section 4.0 through Section 7.0 to install BPRM v4.0 p4 for the first time at your site. Go through all the steps even if the site already has/had a BPRM v3.x server setup. There are updates to the installation steps and additional components need to be installed for IIS.

3.2 Upgrading from BPRM 4.x

Any BPRM v4.x installation must be uninstalled before proceeding to install this version.

Site may choose to make a copy of 'appsettings.json' file (resides typically at C:\inetpub\BPRM\) and place it someplace else on the application server; if the site plans on importing database connection settings from it during the install process of this build/patch.

Follow the instructions in Section 6.0 and onward.

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. (Acquire the SSL Certificate).

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, use the following steps to acquire your SSL certificate:

1. Click **Start > Administrative Tools > Internet Information Services (IIS) Manager** (Figure 4-1).

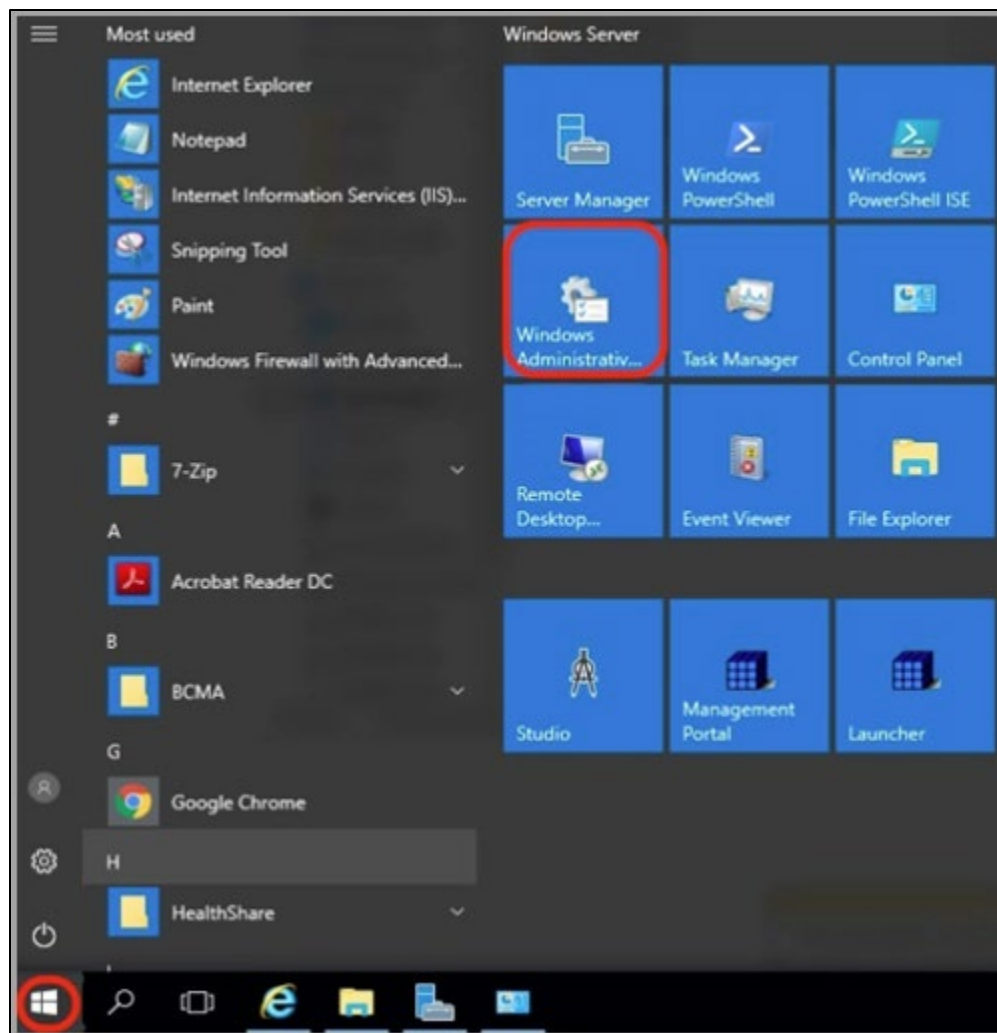


Figure 4-1: Windows Start menu, Administrative Tools option

2. Click the server name. The **IIS Manager** dialog (Figure 4-2) displays.

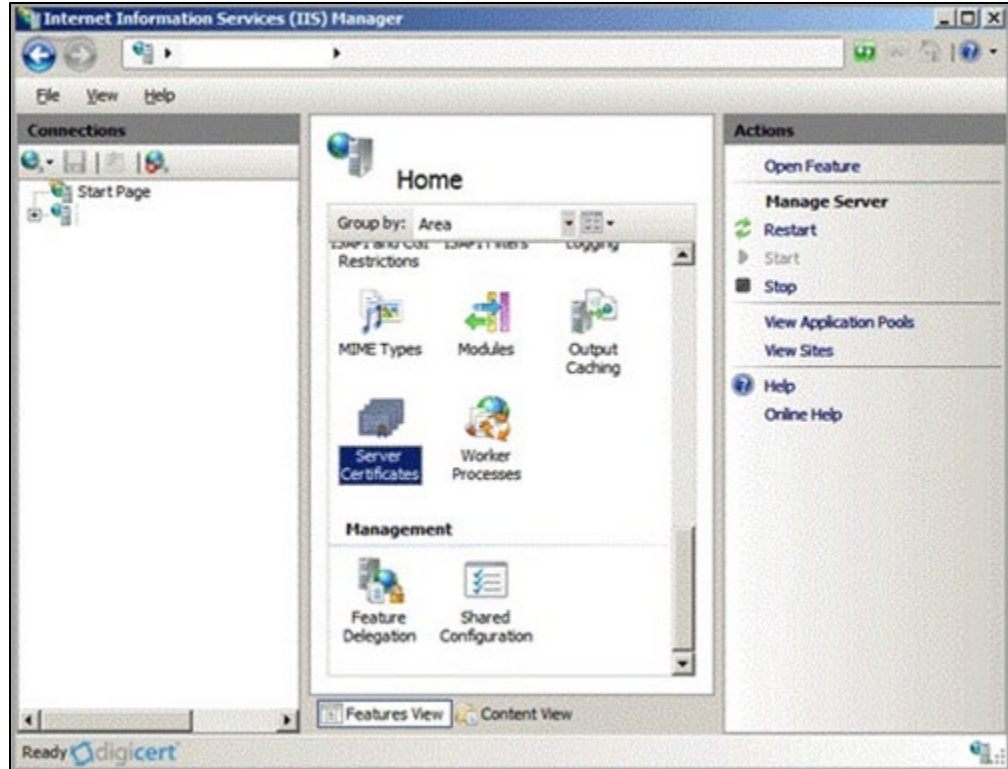


Figure 4-2: Internet Information Services (IIS) Manager

3. In the center panel (Figure 4-3), double-click **Server Certificates** in the **Security** section (near the bottom of the panel).

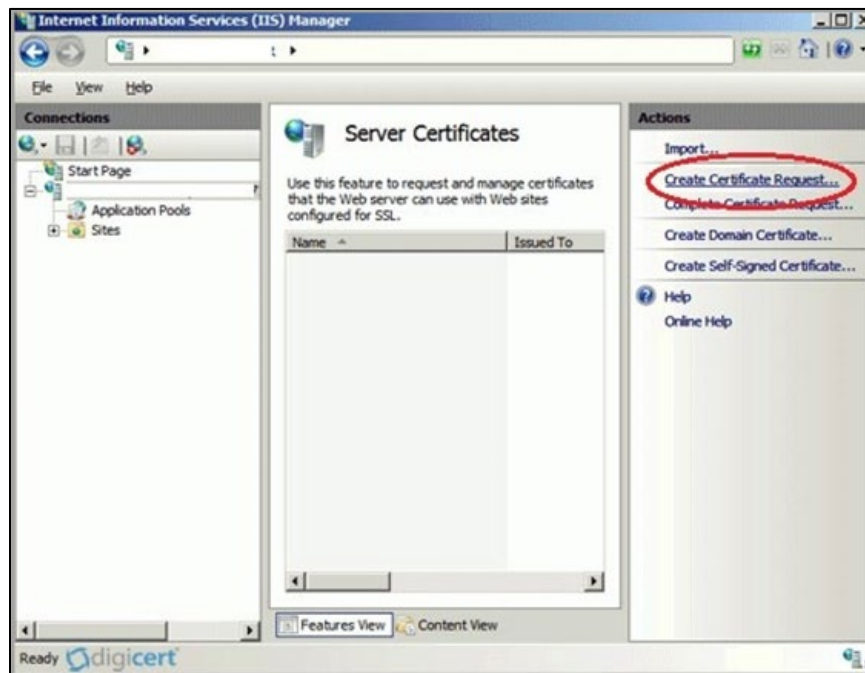
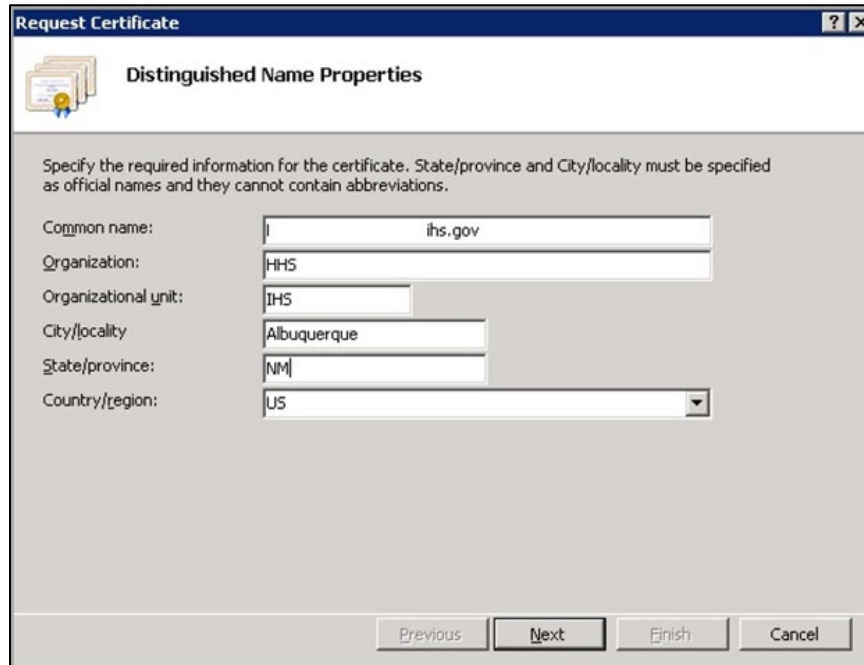


Figure 4-3: Internet Information Services (IIS) manager–Server Certificates

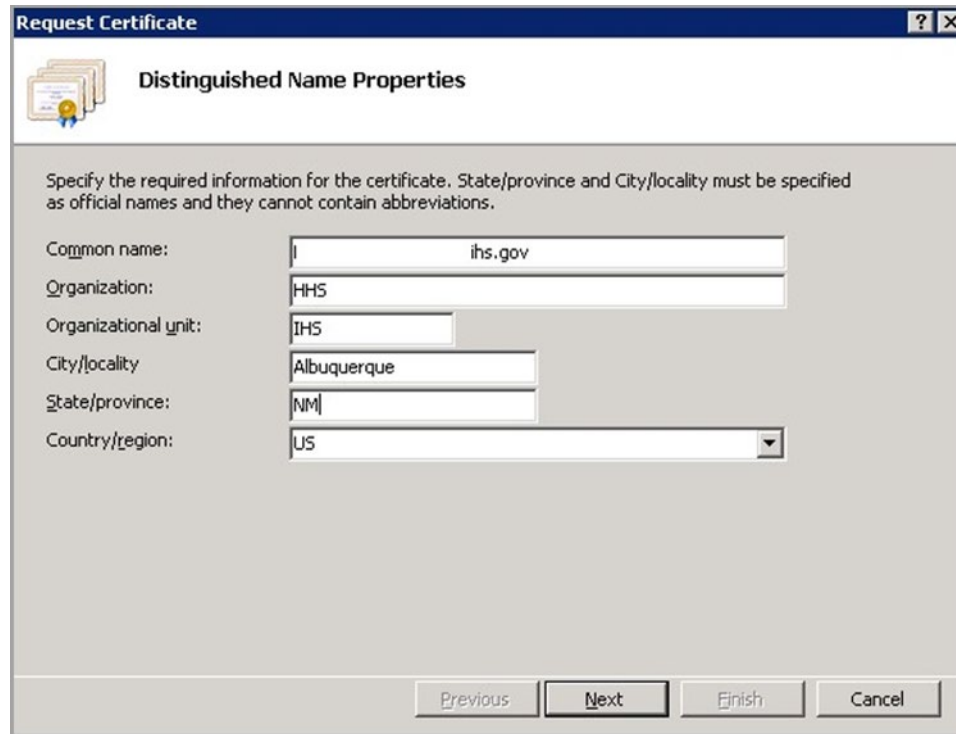
4. In the **Actions** panel (on the right), click **Create Certificate Request**. The **Request Certificate Wizard** (Figure 4-4) displays.



The screenshot shows a dialog box titled "Request Certificate" with a sub-title "Distinguished Name Properties". It contains a text area with instructions: "Specify the required information for the certificate. State/province and City/locality must be specified as official names and they cannot contain abbreviations." Below this are several input fields: "Common name:" with "ihs.gov", "Organization:" with "HHS", "Organizational unit:" with "IHS", "City/locality:" with "Albuquerque", "State/province:" with "NM", and "Country/region:" with a dropdown menu set to "US". At the bottom are buttons for "Previous", "Next", "Finish", and "Cancel".

Figure 4-4: Request Certificate Wizard–Distinguished Name Properties

5. In the **Distinguished Name Properties** dialog (Figure 4-5), enter the information as follows:
 - **Common Name:** The name through which the certificate will be accessed (usually the fully qualified domain name of the machine).
 - **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.



The screenshot shows a Windows dialog box titled "Request Certificate" with a sub-header "Distinguished Name Properties". The dialog contains a text area with instructions: "Specify the required information for the certificate. State/province and City/locality must be specified as official names and they cannot contain abbreviations." Below this are several input fields: "Common name:" with the value "ihs.gov", "Organization:" with "HHS", "Organizational unit:" with "IHS", "City/locality" with "Albuquerque", "State/province:" with "NM", and "Country/region:" with a dropdown menu set to "US". At the bottom, there are four buttons: "Previous", "Next", "Finish", and "Cancel".

Figure 4-5: Request Certificate Wizard–Distinguished Name Properties

6. Click **Next**. The **Cryptographic Service Provider Properties** dialog (Figure 4-6) displays.



The screenshot shows a Windows dialog box titled "Request Certificate" with a sub-header "Cryptographic Service Provider Properties". The dialog contains a text area with instructions: "Select a cryptographic service provider and a bit length. The bit length of the encryption key determines the certificate's encryption strength. The greater the bit length, the stronger the security. However, a greater bit length may decrease performance." Below this are two input fields: "Cryptographic service provider:" with a dropdown menu set to "Microsoft RSA SChannel Cryptographic Provider", and "Bit length:" with a dropdown menu set to "2048". At the bottom, there are four buttons: "Previous", "Next", "Finish", and "Cancel". The "digicert" logo is visible in the bottom left corner.

Figure 4-6: Request Certificate Wizard–Cryptographic Service Provider Properties

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 (Figure 4-7) displays.

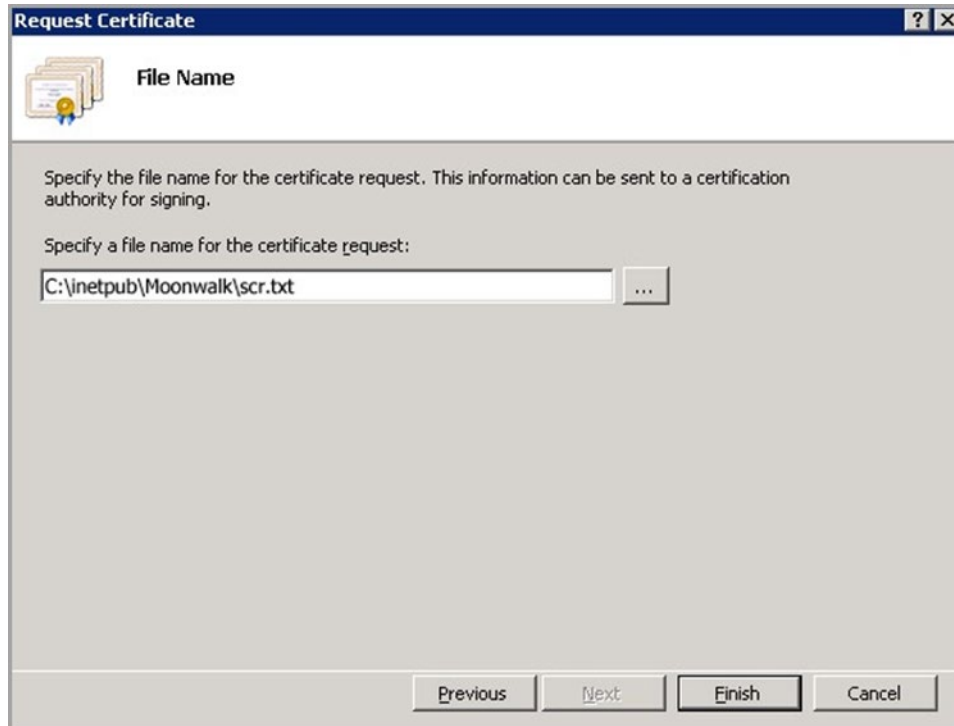


Figure 4-7: Request Certificate–File Name dialog

9. Type a **path** and **file name** for the certificate request file.
10. Make note of the chosen filename and the save location. You must 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.
11. Click **Finish** to save the SSL certificate request file.
12. E-mail the file to itsupport@ihs.gov.
13. Request the SSL Certificate in CER format for the BPRM application. A certificate is issued within 24 hours and emailed to the originator of the request.
14. Once the certificate is received, proceed with the BPRM installation as described in Section 5.0 through Section 7.0.

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 the certificate and proceed to the BPRM installation instructions in Section 5.0 through Section 7.0.

5.0 BPRM Application Server Installation and Configuration

5.1 Microsoft .NET Framework 4.8 (or later) Installation

To install the .NET Framework:

1. Download .Net Framework 4.8 from the Microsoft download center at:
<https://go.microsoft.com/fwlink/?linkid=2088631>
2. Double-click the downloaded file to run the .Net Framework 4.8 setup. The **License Terms** dialog (Figure 5-1) displays:

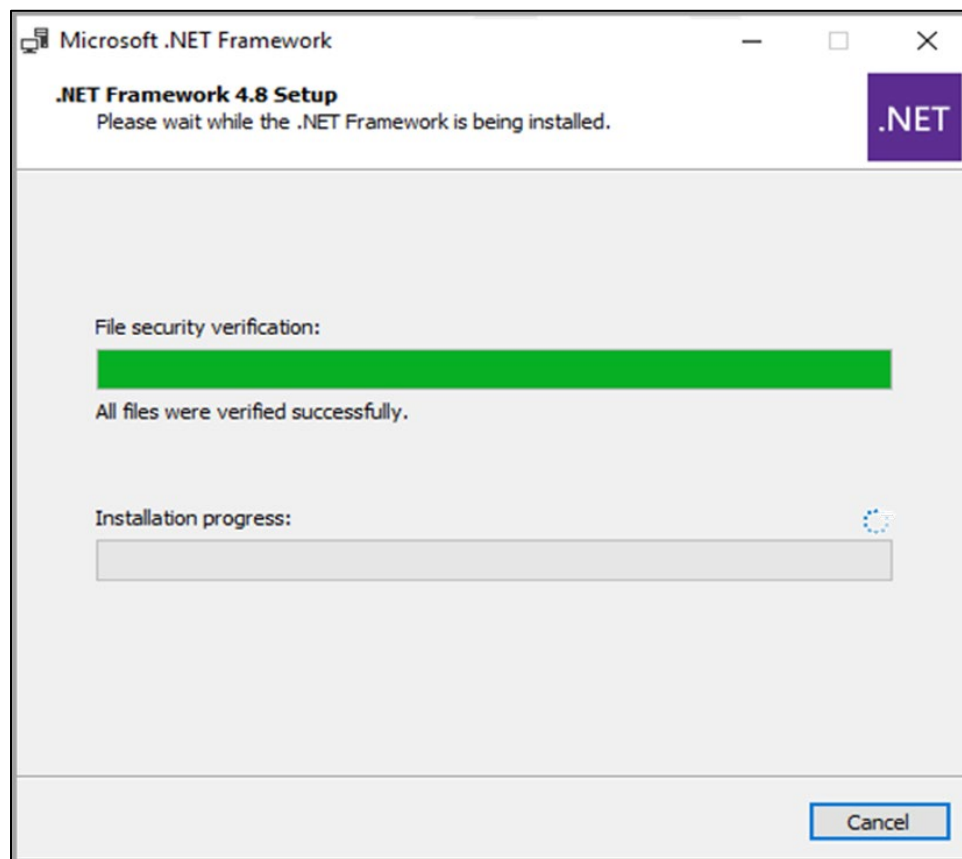


Figure 5-1: .NET Framework Installation dialog

3. Select the **“I have read and accept the license terms”** check box to accept the license agreement.
4. Click **Install**.
5. Respond to any prompts presented as the installation proceeds. When completed, the **Installation Is Complete** dialog (Figure 5-2) displays.

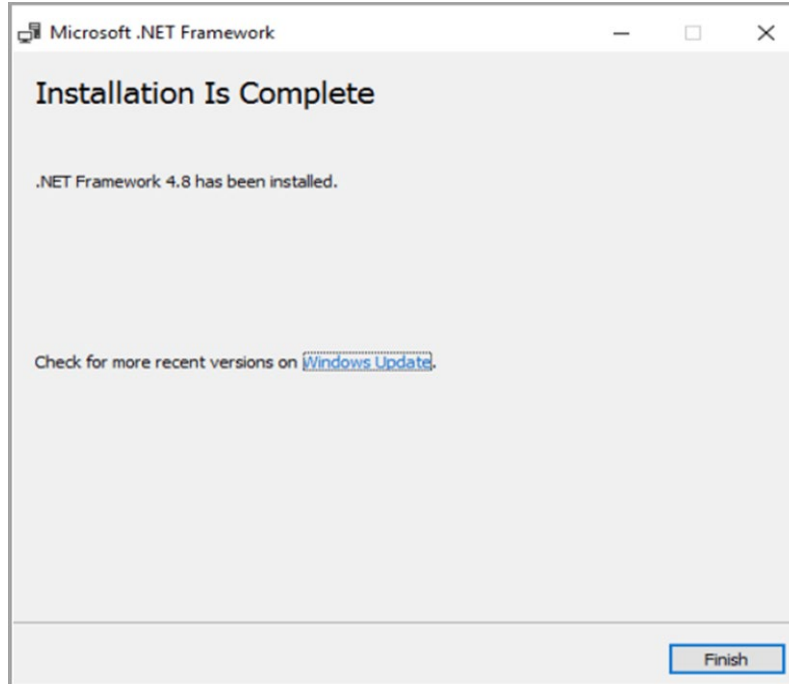


Figure 5-2: .NET Framework Installation Is Complete dialog

6. Click **Finish** to complete the installation. If necessary, restart the server.
7. As a final step, run the **Windows Updates** utility to check for, and install any .NET Framework updates that may be available.

WARNING: 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.

5.2 Internet Information Services 10 Installation (Windows Server 2016 Operating System)

To install the Microsoft IIS:

1. From the **Windows Start** menu (Figure 5-3), select **Server Manager**.

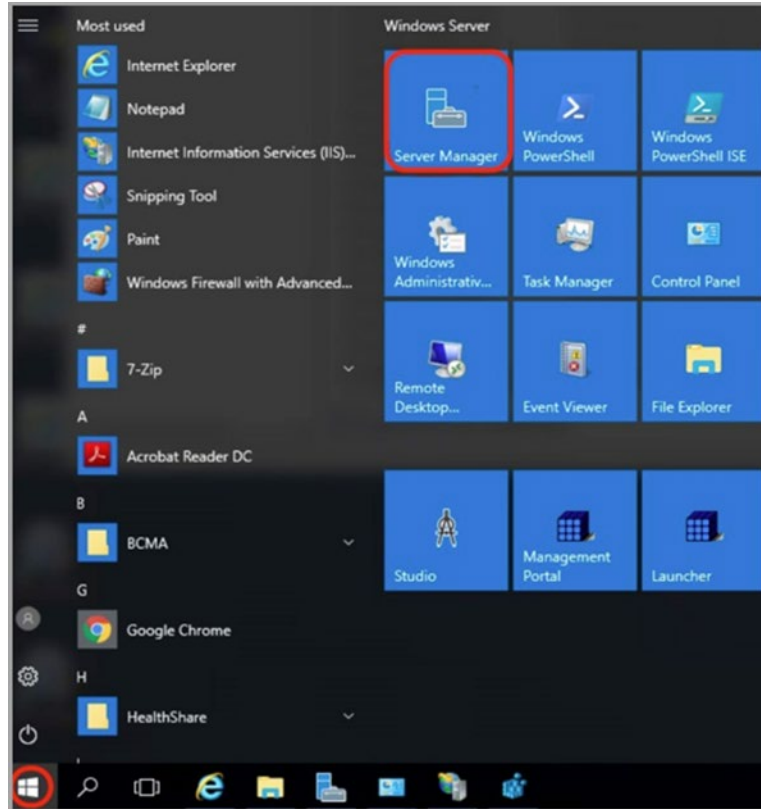


Figure 5-3: Start menu for Windows Server 2016 OS

The **Server Manager** window (Figure 5-4) displays.

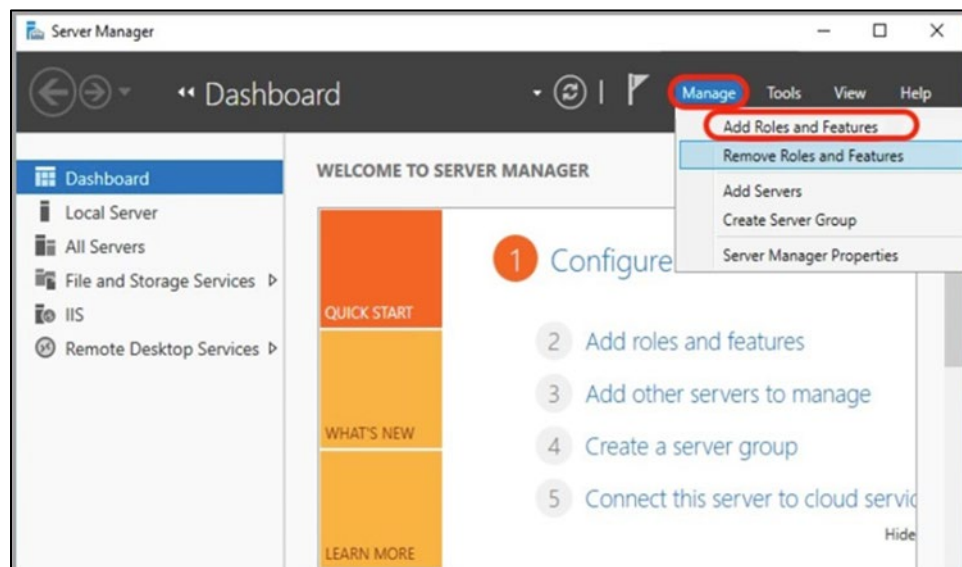


Figure 5-4: Server Manager window

2. Click **Manage > Add Roles and Features**.

- Review the **Before You Begin** dialog, then click **Next**. The **Add Roles and Features Wizard** dialog displays.
- Select the **Role-based or feature-based installation** option button (Figure 5-5), then click **Next**.

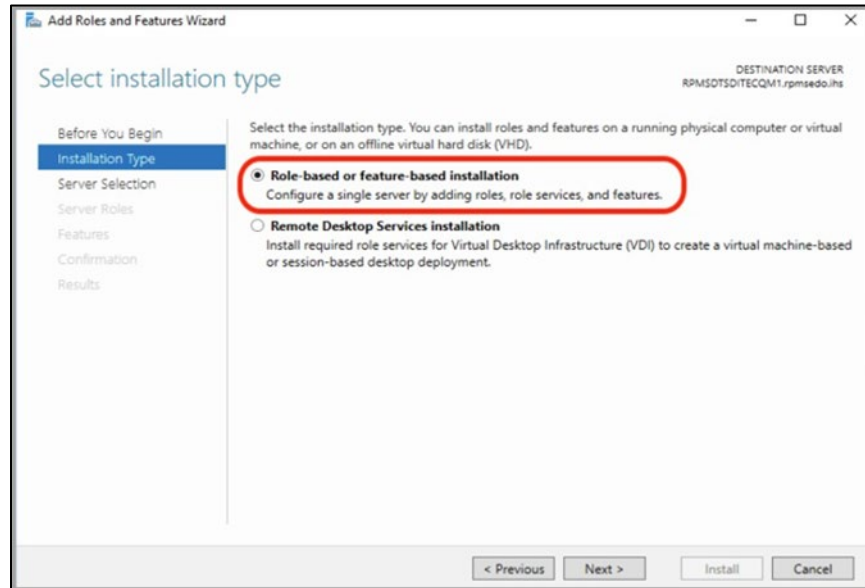


Figure 5-5: Add Roles and Features Wizard dialog

- Select **Web Server (IIS)** on the **Server Selection** window. The **Select Server Roles** window (Figure 5-6) displays.

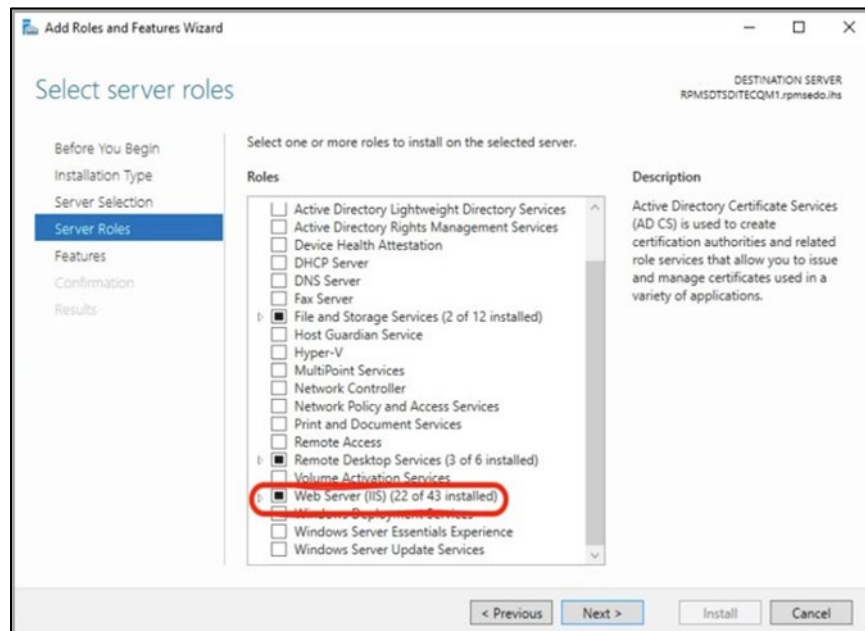


Figure 5-6: Select Server Roles window

6. Expand the **Web Server (IIS)** role and make the following selections. Figure 5-7 displays a portion of the selection.

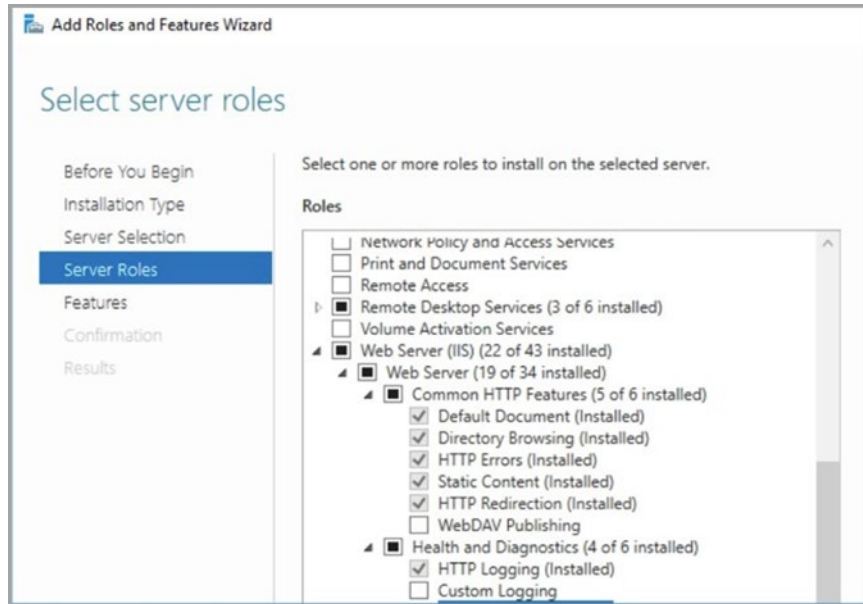


Figure 5-7: Select Web Server components

7. Enable the following **Web Server role services**:

- Common HTTP Features:
 - Static Content
 - Default Document
 - Directory Browsing
 - HTTP Errors
 - HTTP Redirection
- Application Development (Figure 5-8):
 - ASP.NET (latest version)
 - .NET Extensibility (latest version)
 - ISAPI Extensions
 - ISAPI Filters
 - WebSocket Protocol

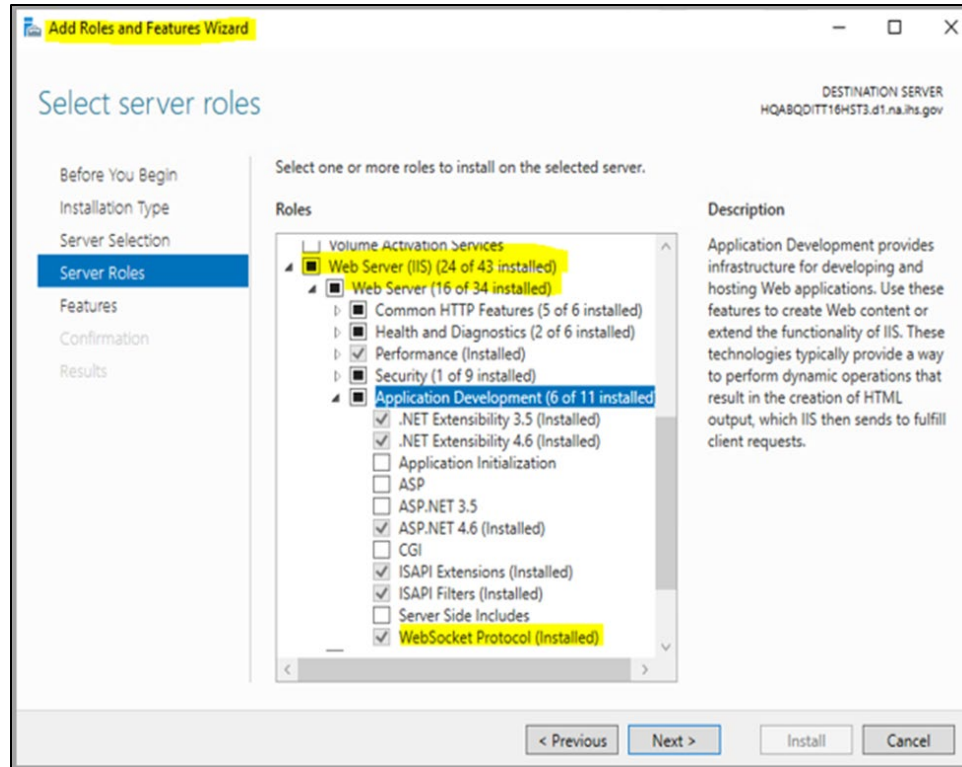


Figure 5-8: Select Web Server–Application Development components

- 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 Management Compatibility–IIS 6 Metabase Compatibility
8. Click **Next** to go to the **Features** tab.
9. In the **Features** area, make following selections (Figure 5-9):
- .NET Framework 3.5 Features
 - .Net Framework 3.5
 - HTTP Activation

- Non-HTTP Activation
- .NET Framework 4.6 + Features
 - .Net Framework 4.6 +
 - ASP.NET 4.6 +
 - WCF Services
 - HTTP Activation
 - Named Pipe Activation
 - TCP Activation
 - TCP Port Sharing

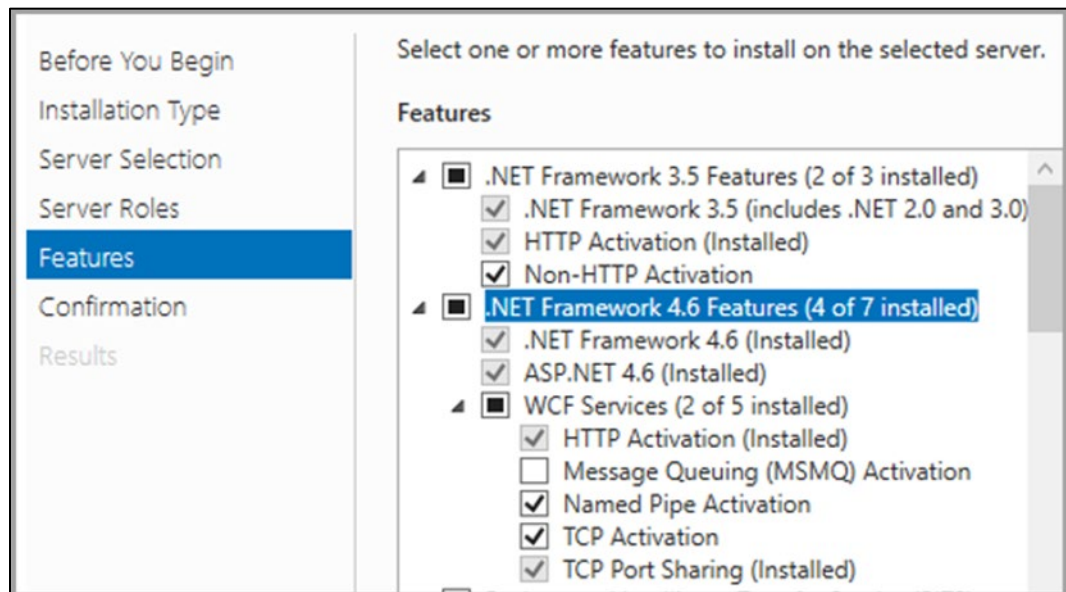


Figure 5-9: Select .Net Framework Features

10. Click **Next** to display the **Confirmation** dialog.
11. Click **Install** (Figure 5-10).

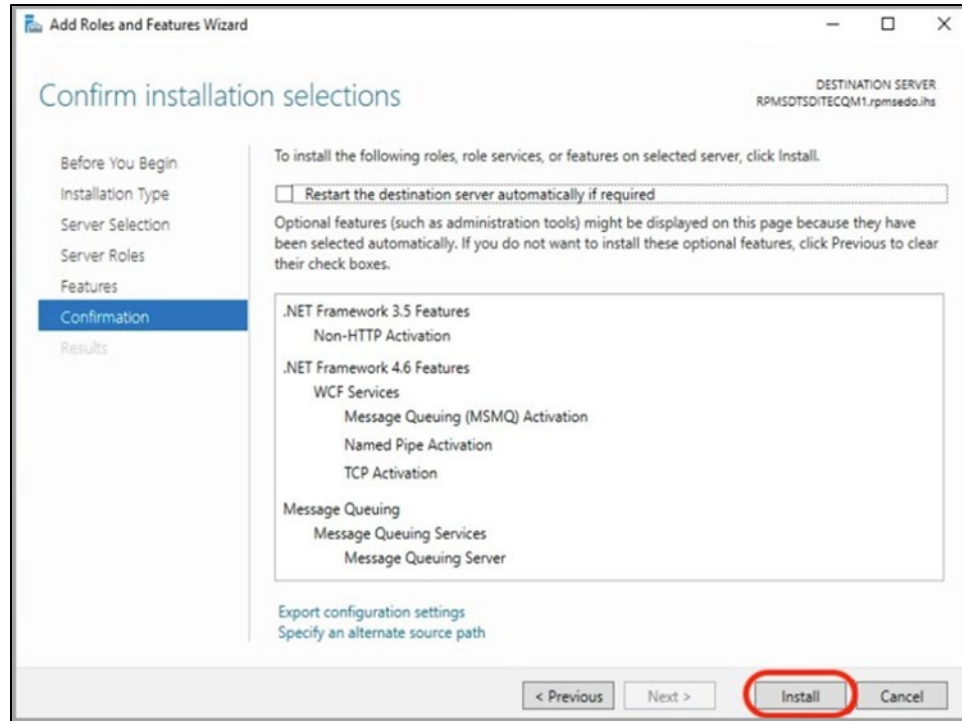


Figure 5-10: Confirm installation selections

12. Click **Close** after the installation is complete.

Note: Review the additional steps for disabling the IIS Manager Logging feature in Appendix B.

5.3 Install the SSL Certificate

To install the SSL server certificate:

1. From the **Windows Start** menu, select **Administrative Tools**.
2. Select **Internet Information Services (IIS) Manager** (Figure 5-11).



Figure 5-11: Internet Information Services (IIS) Manager

3. Click the **server name** in the left panel (Figure 5-12).

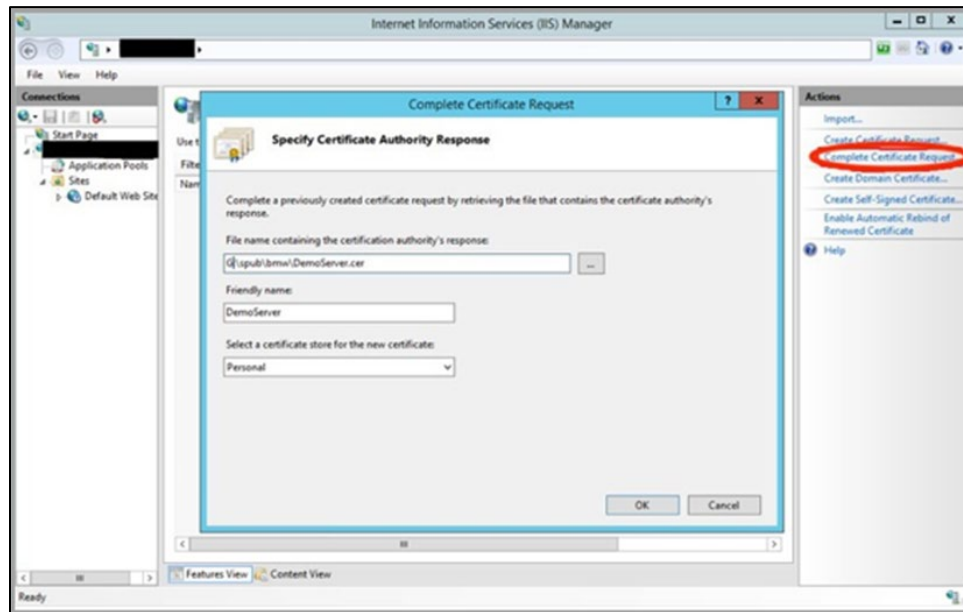



Figure 5-12: Complete Certificate Request dialog

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

Note: The Complete Certificate Request must be completed on the same system where the Certificate Signing Request was generated (Section 4.1.1) to ensure the private key is correctly associated with the new certificate.

6. Click the **Ellipses** button () to browse to the location where the server certificate file acquired in Section 4.1 is saved.
7. In the **Friendly** name field, type the friendly name for the certificate. This name is intended for use for management of certificate stores on the server.
8. In the **Select a Certificate** store for the **Certificate** field, verify **Personal Store** is selected.
9. Click **OK** to complete the procedure.

5.4 BPRM Website Setup

This section can be skipped if this is an upgrade from BPRM 4.x setup and BPRM website and application pool already exists on the application server.

5.4.1 Add the Application Pool

To add the Application Pool:

1. Return to the **IIS Manager** opened in Section 4.1.1 and browse to **Application Pools** in the tree structure below your IIS node as shown in Figure 5-13.

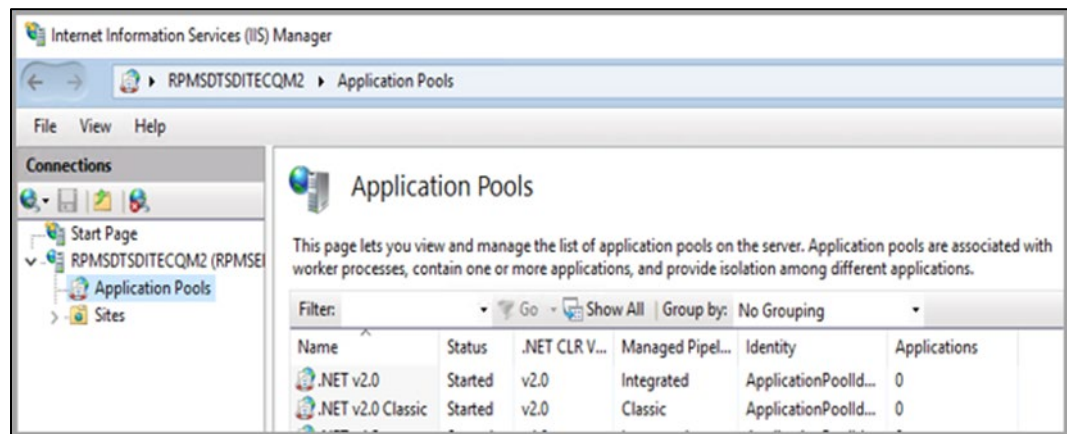


Figure 5-13: IIS Manager browsed to Application Pools

2. Right-click **Application Pools** and select **Add Application Pool**. The **Add Application Pool** dialog (Figure 5-14) displays.

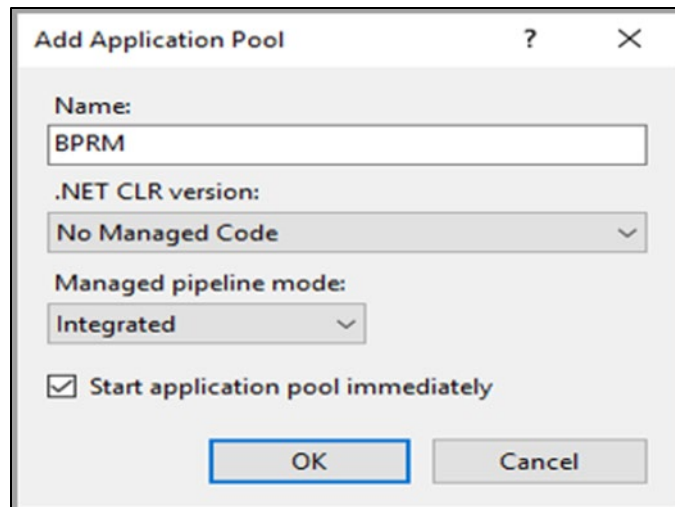


Figure 5-14: Add Application Pool dialog

3. In the **Name** field, type the name of the application pool (BPRM).
4. In the **.NET Framework version:** field, select **No Managed Code**.
5. Click **OK**.
6. Right-click the newly created application pool in IIS Manager and click **Advanced Settings**. A dialog similar to Figure 5-15 displays:

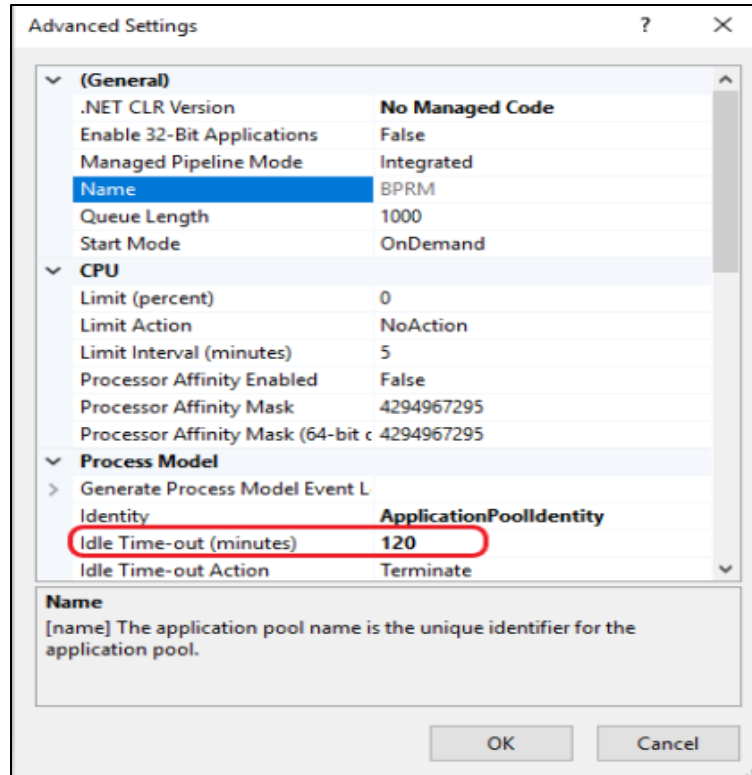


Figure 5-15: Application Pool Advanced Settings

7. Change the **Idle Time-out** value to **120 minutes**.
8. Click **OK** to save the changes and close the dialog.

5.4.2 Create a BPRM Folder

1. To aid in setting up the BPRM website, create a **C:\inetpub\BPRM**:
2. Using **Windows Explorer**, navigate to **C:\inetpub** on your **Windows application server**.
3. Click **Organize**, then select **New Folder**. (Alternatively, click **New Folder** in the **Windows Explorer** toolbar if it is present.)
4. Type **BPRM** and press **Enter** to create the **C:\inetpub\BPRM** folder.

5.4.3 Add the New Site

To add the new website:

1. Right-click **Sites** in the **Connections** pane of the **IIS Manager** and select **Add Web Site**. The **Add Web Site** dialog (Figure 5-16) displays.

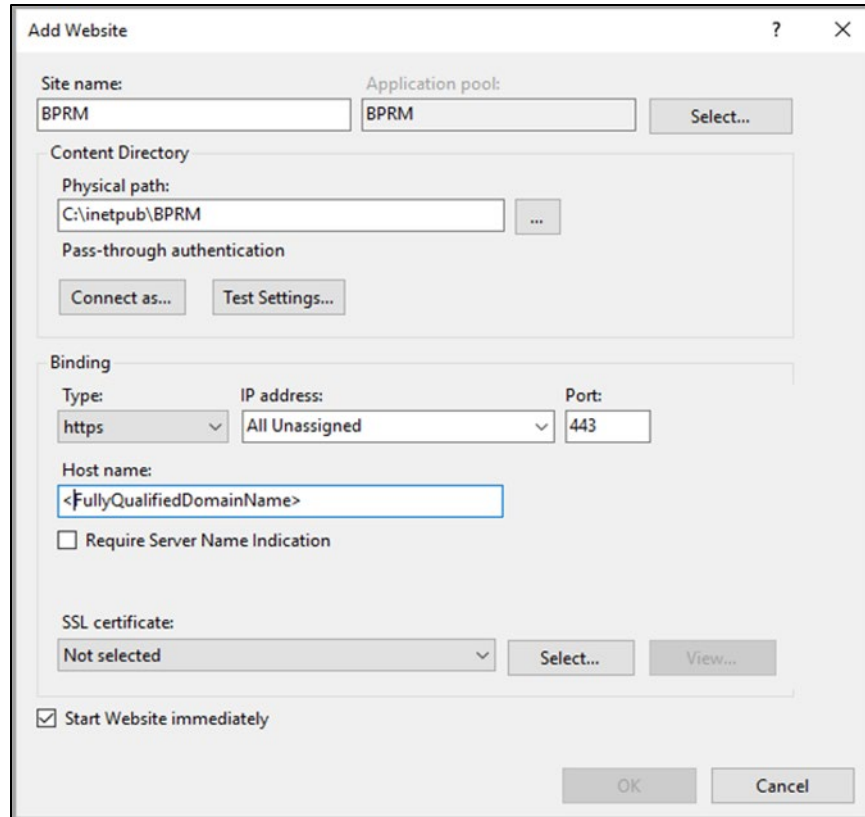


Figure 5-16: Add Web Site dialog

2. In the **Site name** field, type **BPRM**.
3. Click **Select** and select the **BPRM application pool** created in the previous steps.
4. In the **Physical Path** field, browse to the **C:\inetpub\BPRM** folder created in Section 5.4.2.

Note: Be aware that the location will be different if the folder was created on a different drive.

5. Under **Binding**, select **Type** as **https**.

Note: It is highly recommended that BPRM application be hosted over HTTPS protocol.

6. For **IP address**, select **All Unassigned**.
7. For **Port**, specify a port number ranging from 440 through 443.
8. Select the **SSL certificate** installed in Section 5.4.
9. For **Hostname**, can be left blank OR put in the fully qualified name of the machine or SSL certificate Issued to value.

10. Select **View** to display the **SSL certificate details** (Figure 5-17 and Figure 5-18).

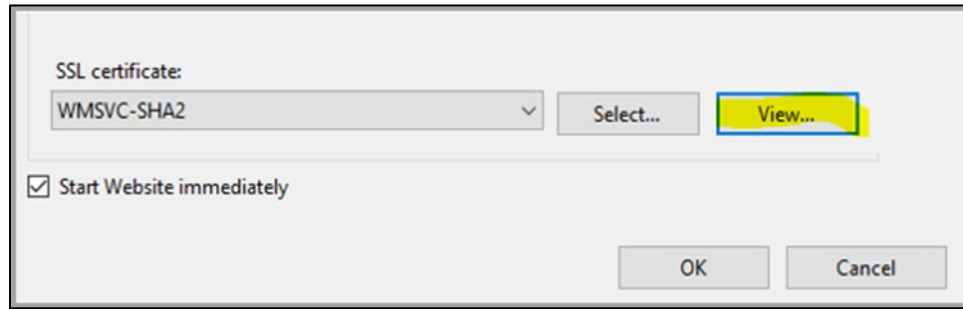


Figure 5-17: View SSL certificate

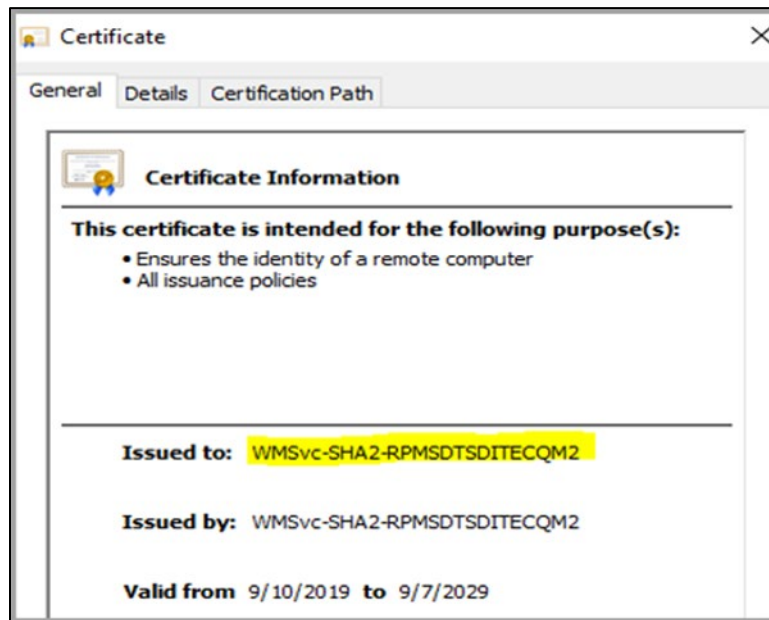


Figure 5-18: SSL certificate details

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

6.0 BPRM Database Server Installation and Configuration

This section outlines the steps essential for setting up and configuring an IHS RPMS database server 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:

- Healthshare/IRIS 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 Healthshare/IRIS server.
- The user 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/IRIS.DAT** file acquired from the IHS FTP or RPMS website, as described in the *BMW Installation Guide*, is installed.

6.2 Importing a New BPRM XML File

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

6.2.1 Disable Read Only

To import the **bprm0400.04.xml** file, user must set the BMW database to allow write access. If the database is set to Read Only, do the following:

1. Browse to the **Local Databases** window of the **Healthshare/IRIS Management Portal** following this path:
Home > System Administration > Configuration > System Configuration > Local Databases.
2. Click **BMW** to open the **edit database settings/configuration page**.
3. In the window displayed, clear the **Mount Read-Only** check box.

Note: Once the patch is installed, you can re-enable **Read Only** mode by repeating these steps and selecting the **Mount Read-Only** check box.

6.2.2 Import the BPRM XML File

To import the bprm0400.04.xml file:

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

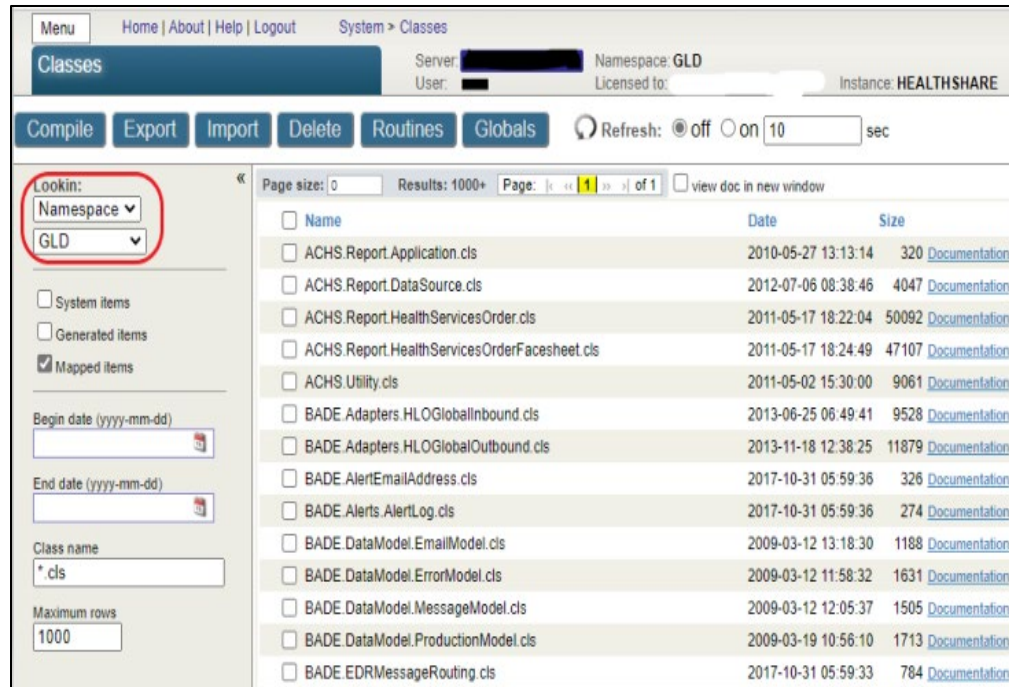


Figure 6-1: Classes dialog

2. Select the **RPMS** or **BMW** namespace in the **LookIn:** pane on the left side of the dialog.
3. Click **Import**. The **Import Classes** dialog (Figure 6-2) displays.

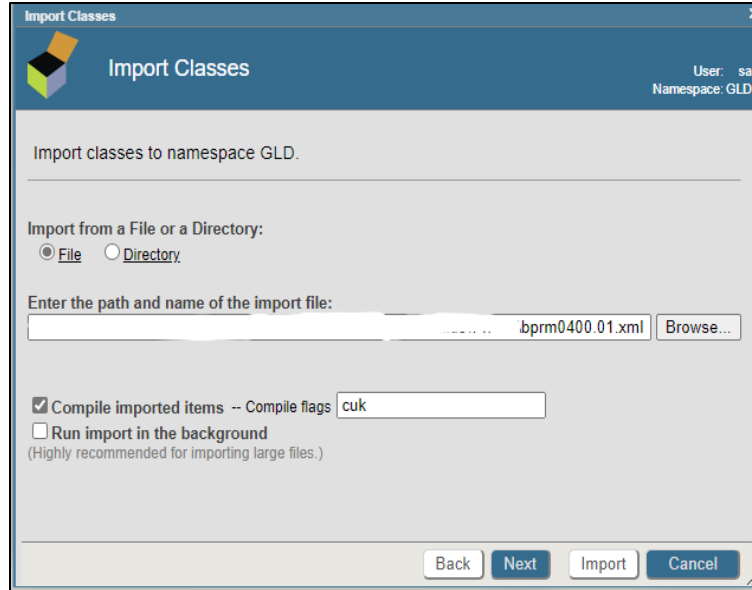


Figure 6-2: Import Classes dialog

4. Click **Browse** and navigate to the **bprm0400.04.xml** file in the folder where it is saved as described in Section 3.0.
5. Select the **bprm0400.04.xml** file and click **Next**.

A listing (Figure 6-3) displays, showing the contents of the XML file.

Import Classes

User: _____
Namespace: C

Select items you wish to import.

<input checked="" type="checkbox"/>	Item	Exists	Last Modified
<input checked="" type="checkbox"/>	BMW.BSF.SP.AgBenefitCasesReport.cls	No	
<input checked="" type="checkbox"/>	BMW.BSF.SP.AgCheckAndSetSilentSPTAccess.cls	Yes	2015-02-19 17:15:35.147335
<input checked="" type="checkbox"/>	BMW.BSF.SP.AgCheckSPTAccess.cls	Yes	2015-02-19 11:52:14.991028
<input checked="" type="checkbox"/>	BMW.BSF.SP.AgGetIncompleteChartStatistics.cls	Yes	2014-12-04 11:13:56.514655
<input checked="" type="checkbox"/>	BMW.BSF.SP.AgGetIncompleteChartStatisticsCount.cls	Yes	2014-12-04 11:13:45.385378
<input checked="" type="checkbox"/>	BMW.BSF.SP.AgGetIncompleteChartStatisticsSum.cls	Yes	2014-12-04 11:13:36.561179
<input checked="" type="checkbox"/>	BMW.BSF.SP.AgGetPatientErrorsAndWarnings.cls	No	
<input checked="" type="checkbox"/>	BMW.BSF.SP.AgGetPatientFaceSheet.cls	Yes	2020-03-25 15:51:48.987883
<input checked="" type="checkbox"/>	BMW.BSF.SP.AgGetPatientInsuranceErrorsAndWarnings.cls	No	
<input checked="" type="checkbox"/>	BMW.BSF.SP.AgGetPatientInsuranceInUse.cls	No	
<input checked="" type="checkbox"/>	BMW.BSF.SP.AgGetPatientMbi.cls	Yes	2018-03-14 14:31:44.416207
<input checked="" type="checkbox"/>	BMW.BSF.SP.AgGetPatientSearchResult.cls	No	
<input checked="" type="checkbox"/>	BMW.BSF.SP.AgGetPatientWellnessHandout.cls	Yes	2019-06-25 12:58:58.253268
<input checked="" type="checkbox"/>	BMW.BSF.SP.AgInsuranceCoverageReport.cls	No	
<input checked="" type="checkbox"/>	BMW.BSF.SP.AgPatientRegisterEvent.cls	Yes	2014-12-04 11:12:42.566883
<input checked="" type="checkbox"/>	BMW.BSF.SP.AgPatientUpdateEvent.cls	Yes	2014-12-04 11:12:15.063889

Back Next Import Cancel

Figure 6-3: Import Classes window—content listing

- Click **Import**. After a few moments of processing, a listing of the imported classes (Figure 6-4) displays.
- Scroll to the bottom of the listing to confirm the **Load finished successfully** message displays (Figure 6-4).

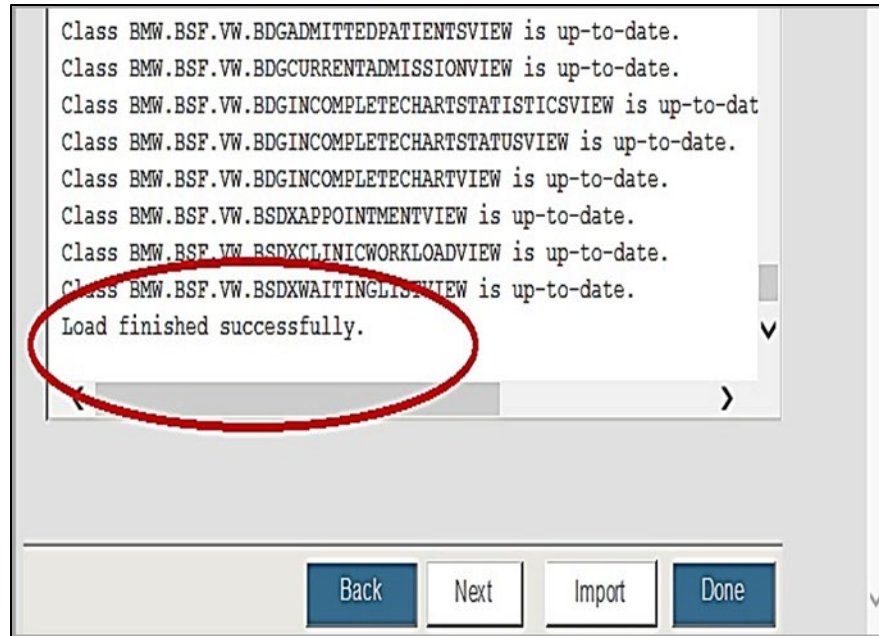


Figure 6-4: Import Classes window–Load finished successfully

At this point, the BPRM XML installation 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.

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

Table 6-1: User permissions needed

Item	Permissions Needed
SQL Tables	Update/Read/Delete privilege on all tables of the BMW package in the RPMS database
SQL Views	Read permission all views of the BMW package in the RPMS database
SQL Procedures	Execute permission on all procedures of the BMW package in the RPMS database

6.3.1 Create the BPRM User

This step may be skipped if the site has **Moonwalk_user** already created for BPRM application. **Moonwalk_user** can be used for BPRM v4.x as well.

To create a new BPRM user:

1. Navigate to the user's 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 6-5).

Figure 6-5: Edit User window

3. Type **BPRM_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 6-6) in the **Ensemble System Management Portal** following this path:

Home > System Administration > Security > Users.

- Click **BPRM_USER**, as shown in Figure 6-6.

The following is a list of user definitions:

Filter: Page size: 0 Max rows: 1000 Results: 22 Page: [< << 1 >> >] of 1

Name	Full Name	Enabled	Namespace	Routine	Type		
Admin	System Administrator	Yes			Cache password user	Delete	Profile
BPRMA		Yes	BPRMA	^XUS	Cache password user	Delete	Profile
bormaa		Yes	BPRMAA	^XUS	Cache password user	Delete	Profile
BPRMB		Yes	BPRMB		Cache password user	Delete	Profile
BPRMC		Yes	BPRMC		Cache password user	Delete	Profile
BPRM_USER	Bprm User	Yes			Cache password user	Delete	Profile
com		Yes			Cache password user	Delete	Profile

Figure 6-6: Create New User window

- Click the **Roles** tab.
- Select **%ALL** from the **Available** column and move it to the **Selected** column by clicking the right arrow.
- Click the **Roles** tab.
- Select **%ALL** from the **Available** column and move it to the **Selected** column by clicking the Right arrow.
- Click **Assign** to assign the %ALL role to the BPRM_USER account.

When complete, the **Edit User** window will look similar to that shown in Figure 6-7.

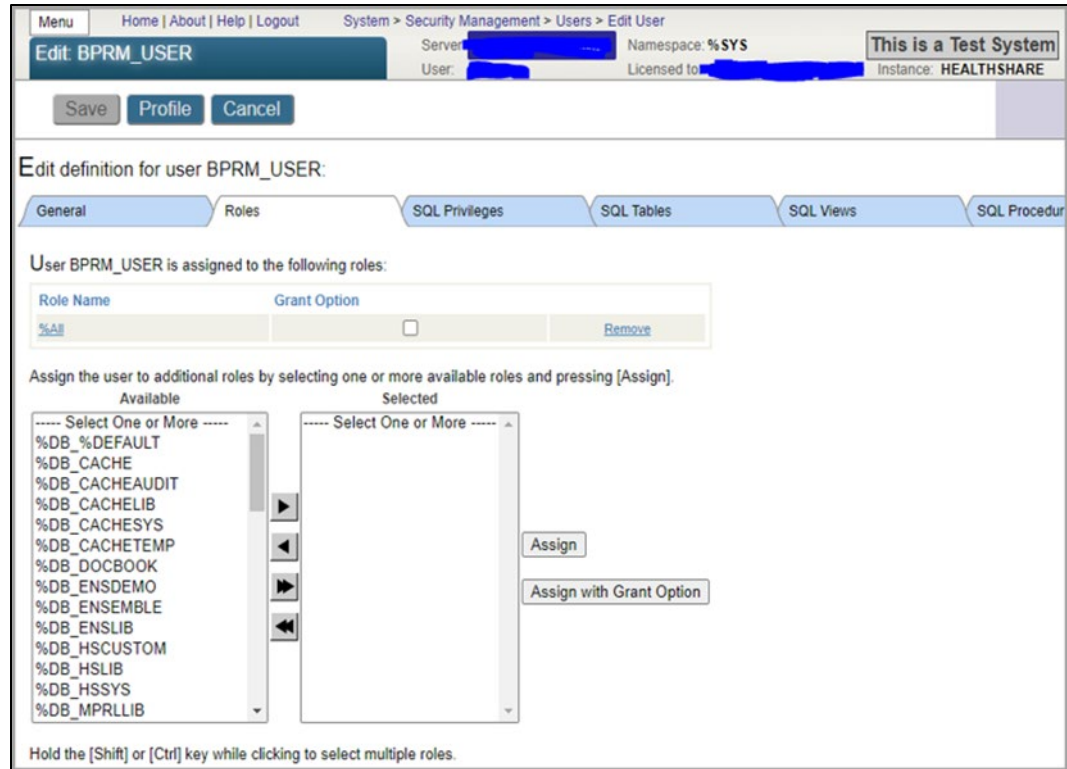


Figure 6-7: Roles tab in Edit User window—after changes

6.3.3 Verify XML Import and Installation

To verify the XML file has been imported and is readily available:

1. From the **Healthshare/IRIS System Management Portal Home** window, click **System Explorer > SQL** (you may need to click SQL twice).
2. Switch to the RPMS namespace. In the example shown in Figure 6-8, PRECERT is selected. Your site's RPMS database/namespace will likely have a different name.

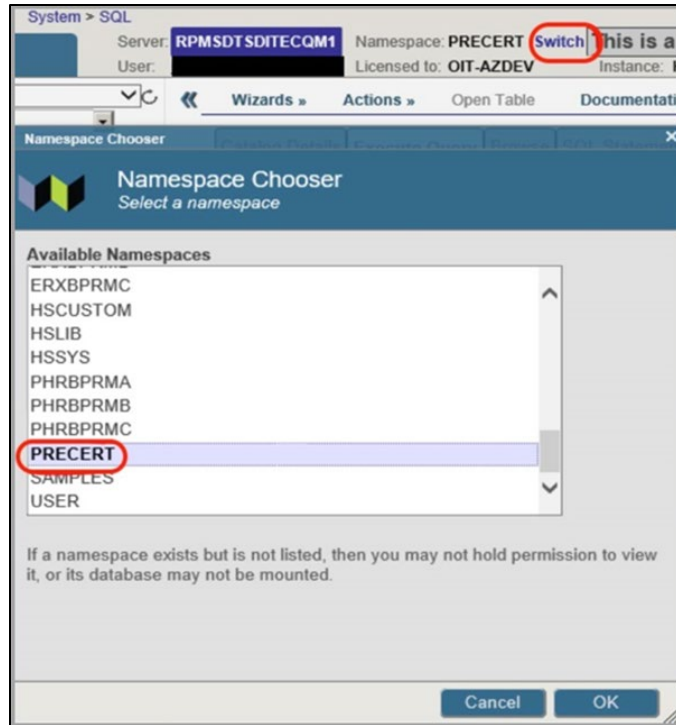


Figure 6-8: Namespace Chooser window

3. Open the **Schema** drop-down menu and select **BMW_BSF_SP**, as shown in Figure 6-9.

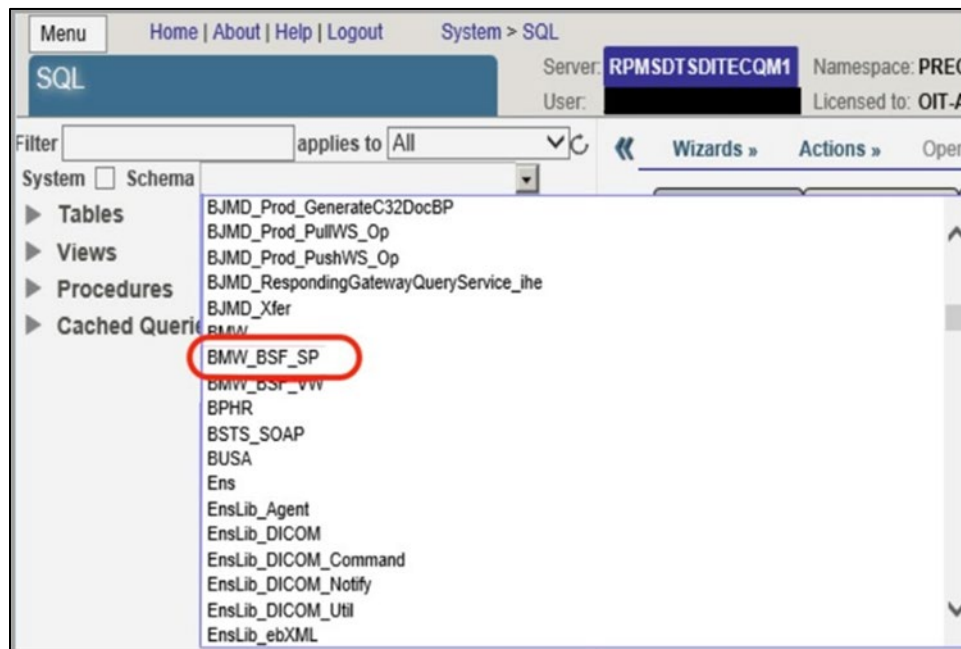


Figure 6-9: Expand the Schema menu

4. Expand **Procedures** as shown in Figure 6-10.

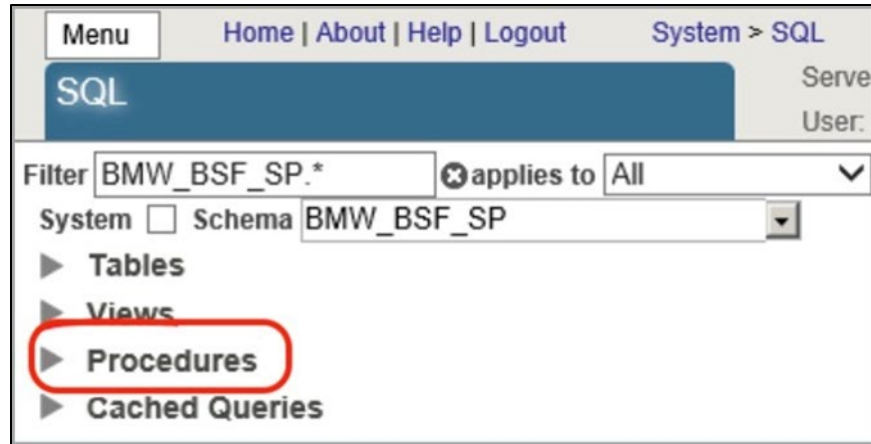


Figure 6-10: Expand Procedures

5. Scroll down to locate and select **BMW_BSF_SP.Core_AuthenticateUserV2Q**.
6. Click **Run Procedure** as shown in Figure 6-11.

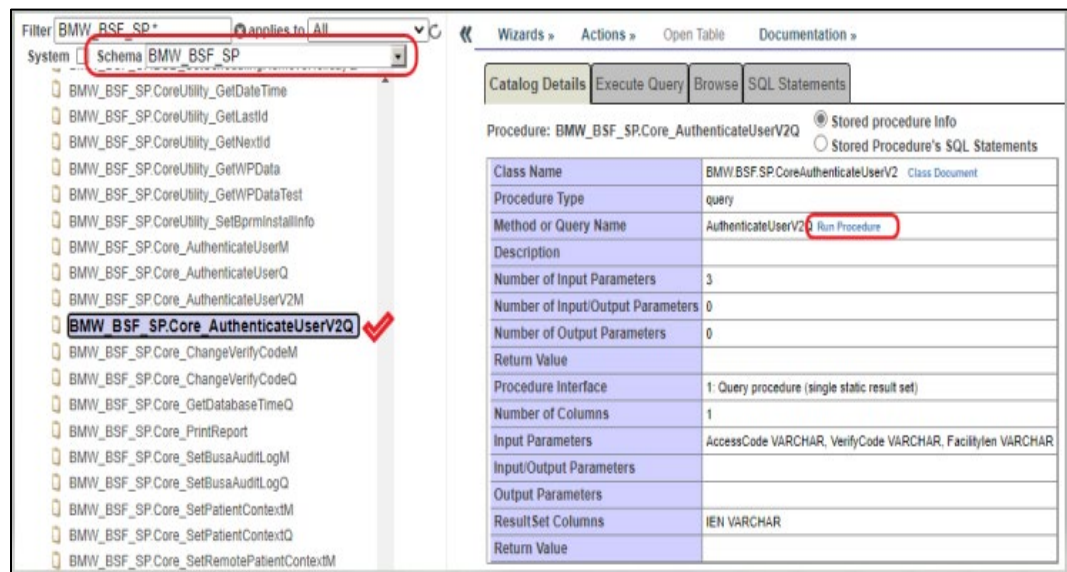


Figure 6-11: Run Procedure option

If the Healthshare/IRIS version is compatible with the newly installed BMW Cache classes, the **Run Query** window (Figure 6-12) displays. The user does not need to put in any information (access/verify) here.

SQL query from stored procedure Core_AuthenticateUserV2Q in namespace BPRMA

[BMW.BSF.SP.CoreAuthenticateUserV2 : AuthenticateUserV2Q](#)

Enter values for the query parameters:

	<u>xDBC Type</u>
AccessCode <input type="text"/>	VARCHAR
VerifyCode <input type="text"/>	VARCHAR
FacilityIen <input type="text"/>	VARCHAR

Figure 6-12: Run Query

If an error message displays, the Healthshare/IRIS version running is not compatible with the newly installed BMW Cache classes.

7.0 Application Deployment to the Web Server

This section describes the steps for installing the BPRM application itself.

7.1 Deploy the BPRM Application

Note: Before proceeding with BPRM msi install, make sure BPRM XML has been installed (see Section 6.2).

To deploy the BPRM application:

1. Log on to the application server and browse to the location where the BPRM Application Installer file (**bprm0400.04.msi**) is stored.
2. Double-click the **bprm0400.04.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.

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

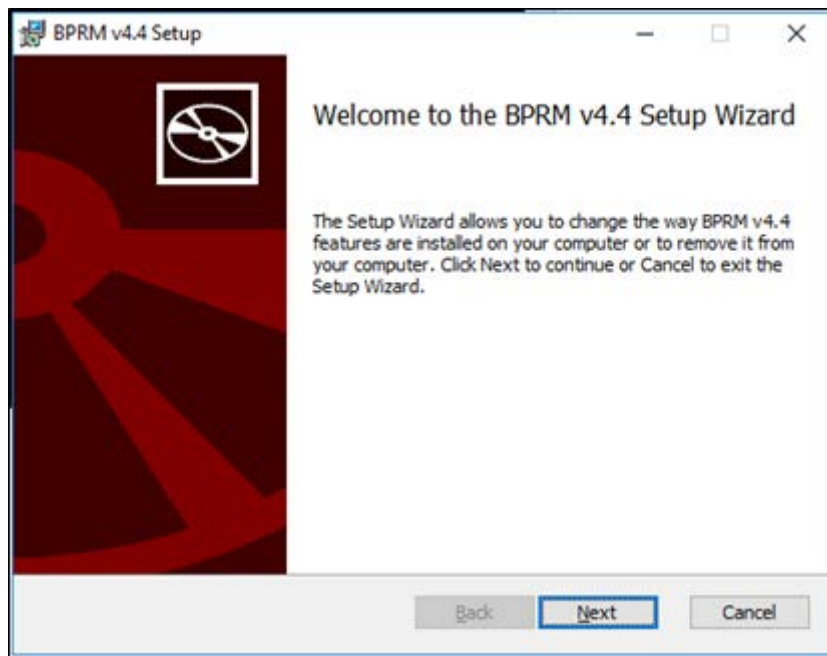


Figure 7-1: BPRM setup wizard dialog

3. Click **Next**. The **Destination Folder** dialog (Figure 7-2) displays.

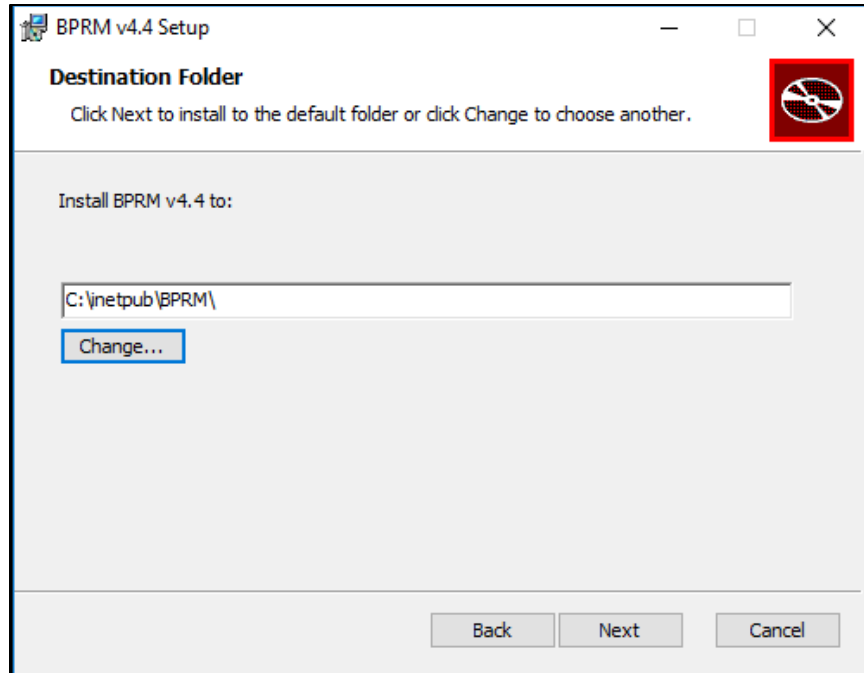


Figure 7-2: Destination Folder dialog

4. Click **Change** to choose the BPRM website folder, as created in Section 5.4.2, (Figure 7-3) and Select **OK**.

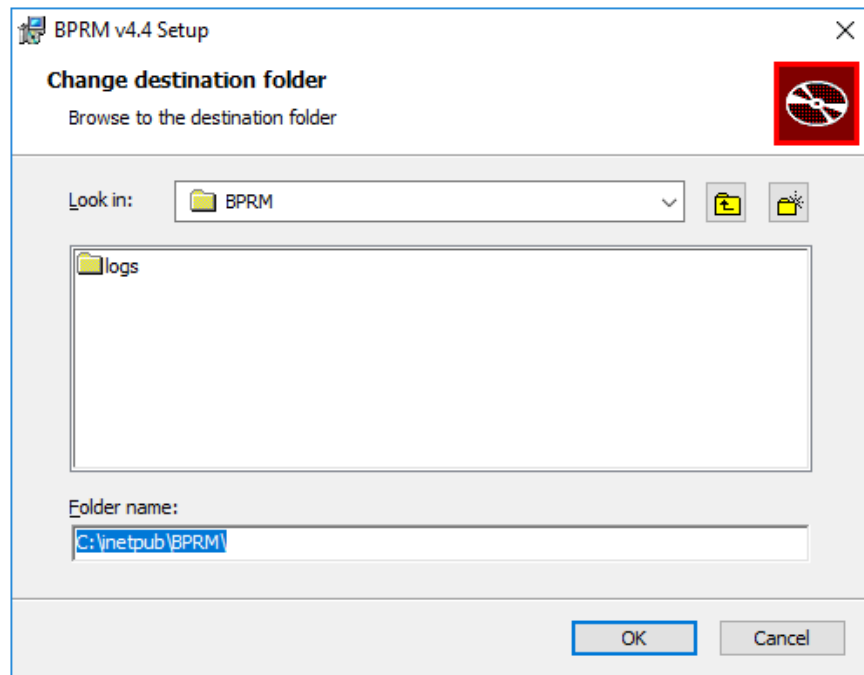


Figure 7-3: BPRM website folder

5. Click **Next** once the appropriate **Destination folder** (Figure 7-4) is selected.

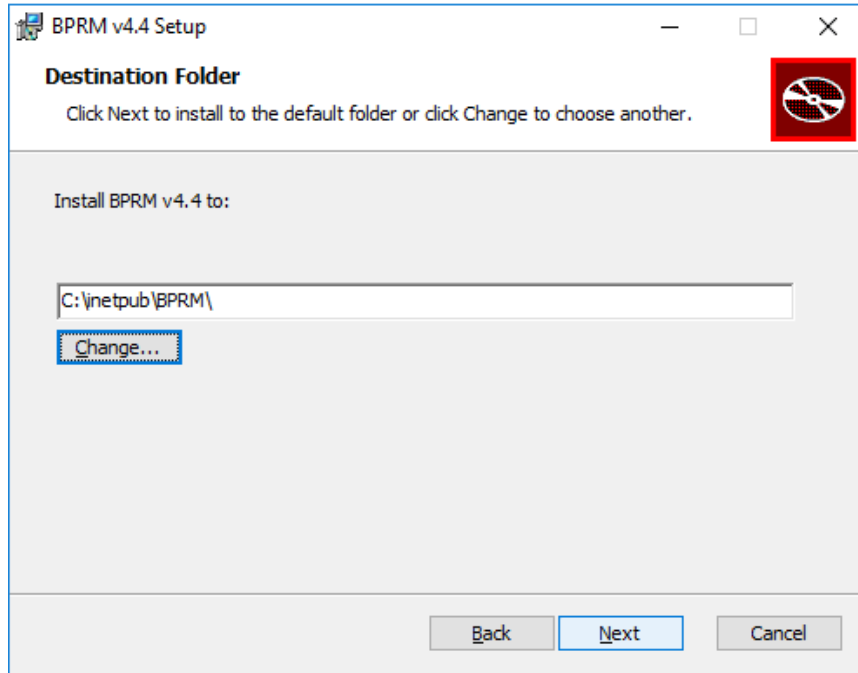


Figure 7-4: Destination Folder dialog

6. Click **Install**. The **Ready to install BPRM v4.4** dialog (Figure 7-5) displays.

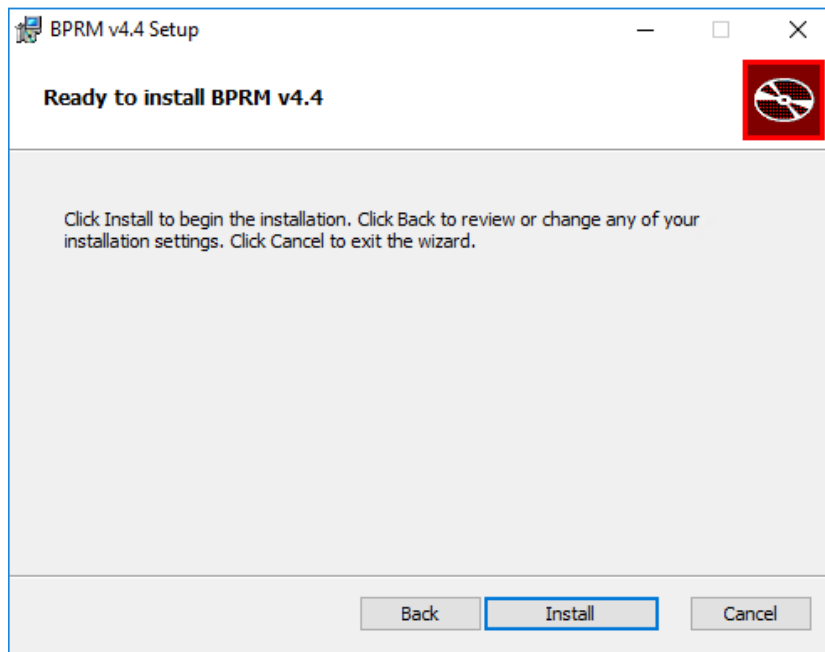


Figure 7-5: Ready to Install BPRM v4.1 dialog

7. Click **Yes**. The **User Account Control** dialog (Figure 7-6) displays.

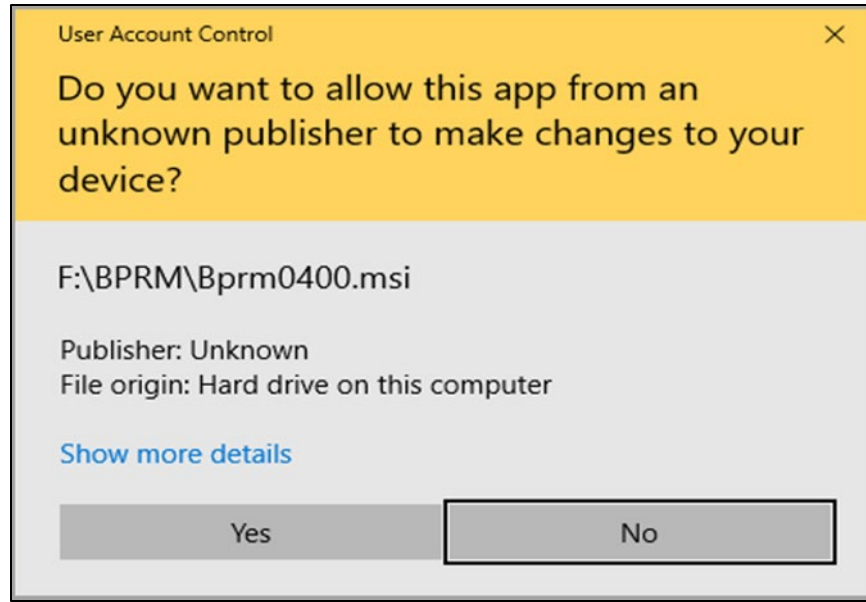


Figure 7-6: Installing BPRM dialog

After a short time of processing, the **Database Configuration** dialog (Figure 7-7) displays.

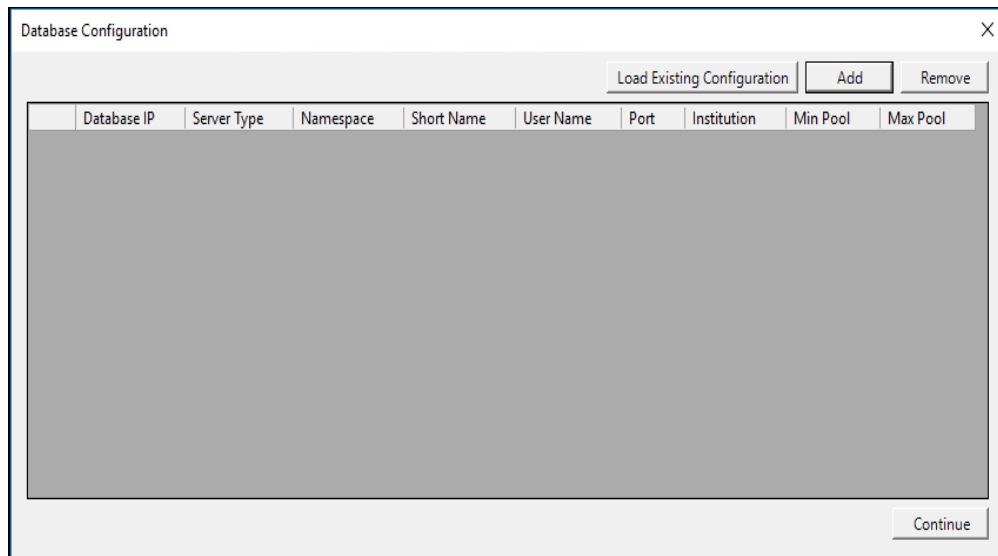


Figure 7-7: Database Configuration dialog

The BPRM suite relies on specific information about each RPMS database to which it is connected.

8. Click **Add** on the **Database Configuration** dialog to display the **Configuration** dialog (Figure 7-8) and add this information for each database associated with this installation.

Note: Load Existing Configuration will not work when loading from a **BRPM v3.x configuration** file. Use **Add** instead.

Figure 7-8: Configuration dialog

The **Configuration** dialog contains the following fields:

- **ServerName/IP:** Use this field to enter the IP address of your RPMS database.

Note: This is the internal IP address, not an external address.

- **RPMS Namespace:** Use this field to enter the namespace of your RPMS database.
- **User Name (DB):** This field is automatically populated with the BPRM_USER user name.
- **Password (DB):** Use this field to enter the password you set for the BPRM_USER account in Section 6.3.1.
- **Super Server 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 Healthshare/IRIS setting.

The Superserver port number can be checked from within the Healthshare/IRIS Management Portal using this path:

**Home > System Administration > Configuration > System Configuration
> Memory and Startup**

The Super server port number displays at the bottom of the page:

- **Display Name:** Display/Short name shows up on the BPRM application login screen. This field is automatically populated with site's institution's short name if it exists in the **INSTITUTION** file. If it does not exist, type a **short/display name** of your choice to identify this institution in the future.
- **DB Server Type:** This drop down has two values 'IRIS' and 'HealthShare/Ensemble'. It is defaulted to 'IRIS'. Site must select the correct server type for the RPMS environment this connection setting is going to connect to.

Figure 7-9: Configuration dialog

- **Default Institution:** This checkbox indicates the site's RPMS default institution should be selected automatically when institutions are pulled from the RPMS system on this screen.
- **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.

- **Connection Pool Settings:** This section relates to connection settings for **BPRM application** when requesting connections from the **HealthShare\IRIS Database**. This setting has been introduced since, with **HealthShare\IRIS**, the number of **licensed connections** has decreased from **1,500** (in **Ensemble**) to **250–500** (in **HealthShare\IRIS**) and that has resulted in exhaustion of licenses. Sites can customize the number of minimum connections and maximum connections the **BPRM application** can request from the **HealthShare\IRIS application**. It is defaulted to **20–100**, but sites can modify according to the site's **HealthShare\IRIS license** and **BPRM usage**.
 - **Minimum:** This number indicates the minimum connections the BPRM application shall create/request from Healthshare/IRIS DB, when the application is accessed for the first time. Minimum connections persist as long as the application is live.
 - **Maximum:** This number indicates the maximum connections BPRM shall create/request from Healthshare/IRIS DB at any given time (usually at the busiest time). Connections shall be destroyed when not in use until it reaches the minimum threshold.
9. When the **Configuration** dialog displays, enter the following:
 - Server Name/IP
 - RPMS Namespace
 - User Name
 - Password
 - Super Server Port
 - Display Name
 - DB Server Type
 - Default Institution (optional)
 10. Click **Verify Connection**.
 11. Once the Institutions list is loaded, select your institution from the list and provide a **Short Name** (if not already present).
 12. Once the fields are populated, click **Save** to add the information to the BPRM database configuration file.

For a Multi-tenant setup (connecting this BPRM application to multiple RPMS environments/databases), repeat Steps 8 to 12 of this section.
 13. When complete, click **Continue** to continue the application installation.

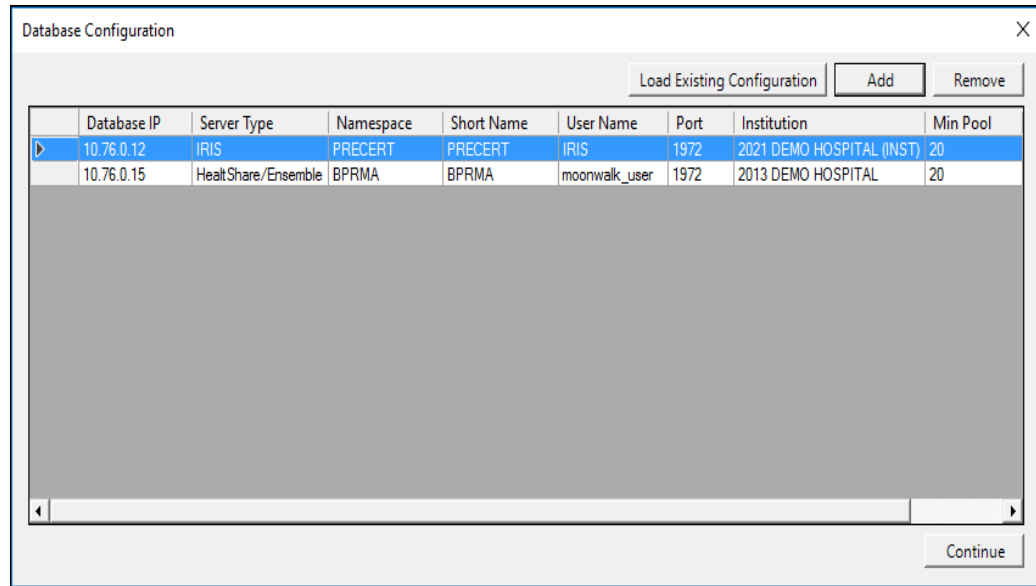


Figure 7-10: Configuration dialog

If an **Access Denied** error displays (Figure 7-11), close the installer and run the installer again in **Administrator mode (Run as Administrator)**, as shown in Appendix A.

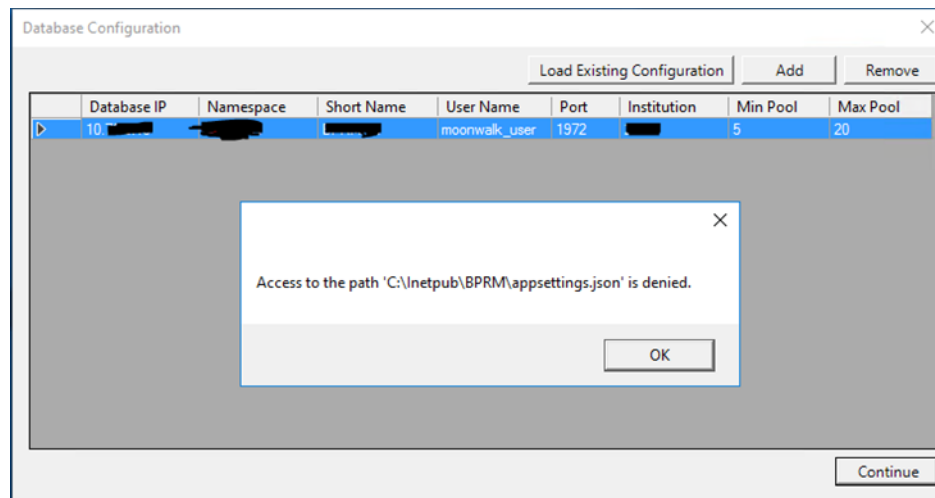


Figure 7-11: Access to Path Denied error

- When the installation is complete, click **Next**. The **Installation Complete** dialog (Figure 7-12) displays.

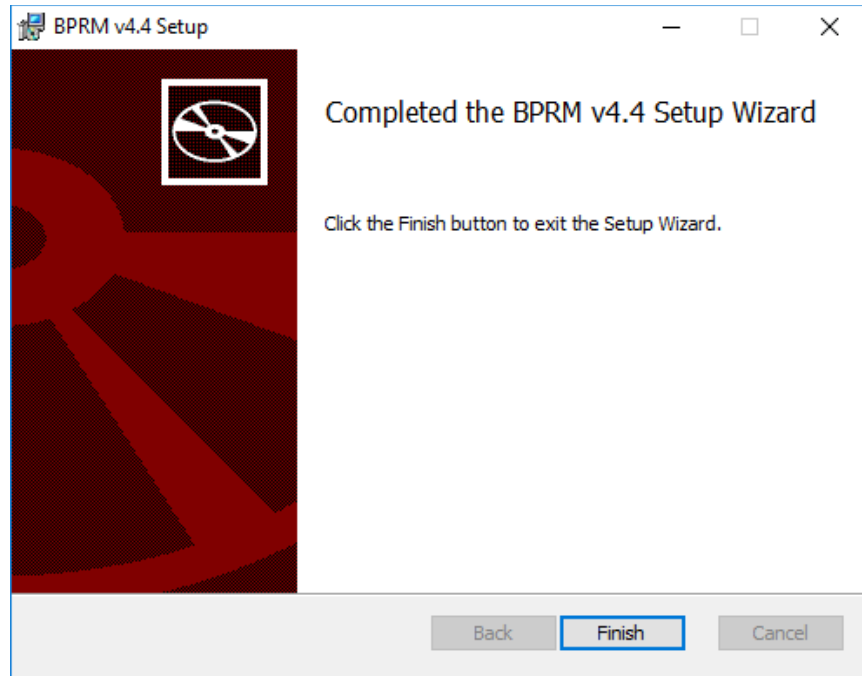


Figure 7-12: Installation Complete dialog

15. Click **Finish** to exit the dialog.

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 on to the application server where BPRM resides.
2. Browse to the location where the BPRM Application Installer file (**bprm0400.04.msi**) is stored.
3. Double-click the **bprm0400.04.msi** file to run the BPRM application installer. The **BPRM setup wizard** (Figure 7-13) displays.

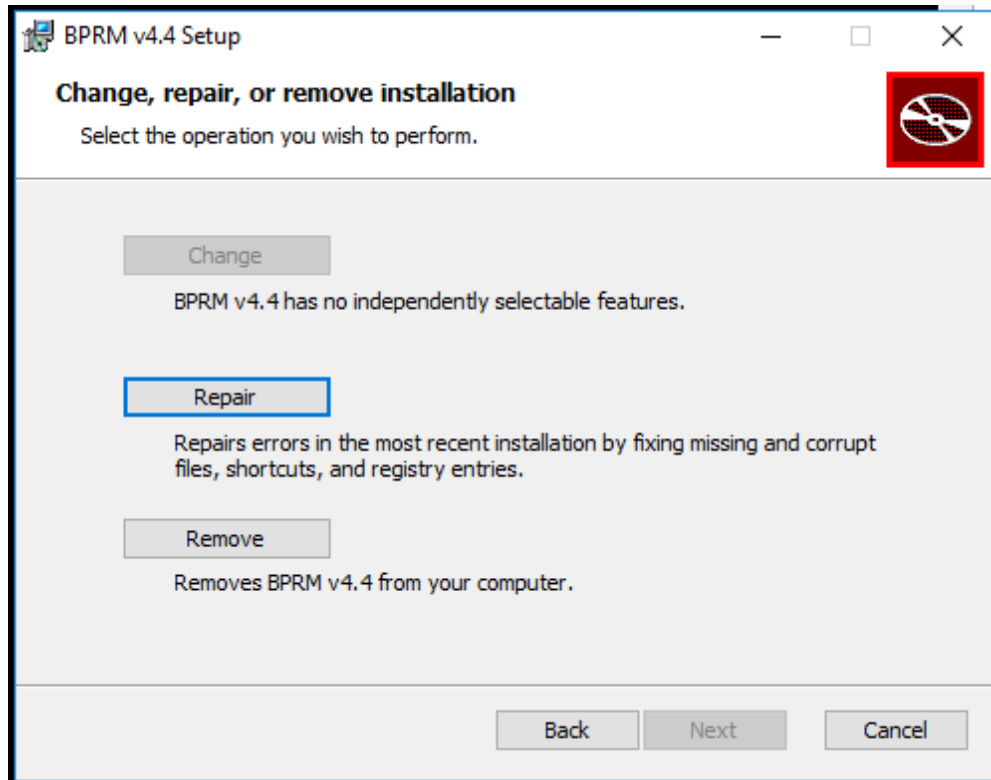


Figure 7-13: BPRM Setup Wizard dialog–Repair mode

4. Click **Repair**, and then click **Finish**. The **Installing BPRM** dialog (Figure 7-14) displays.

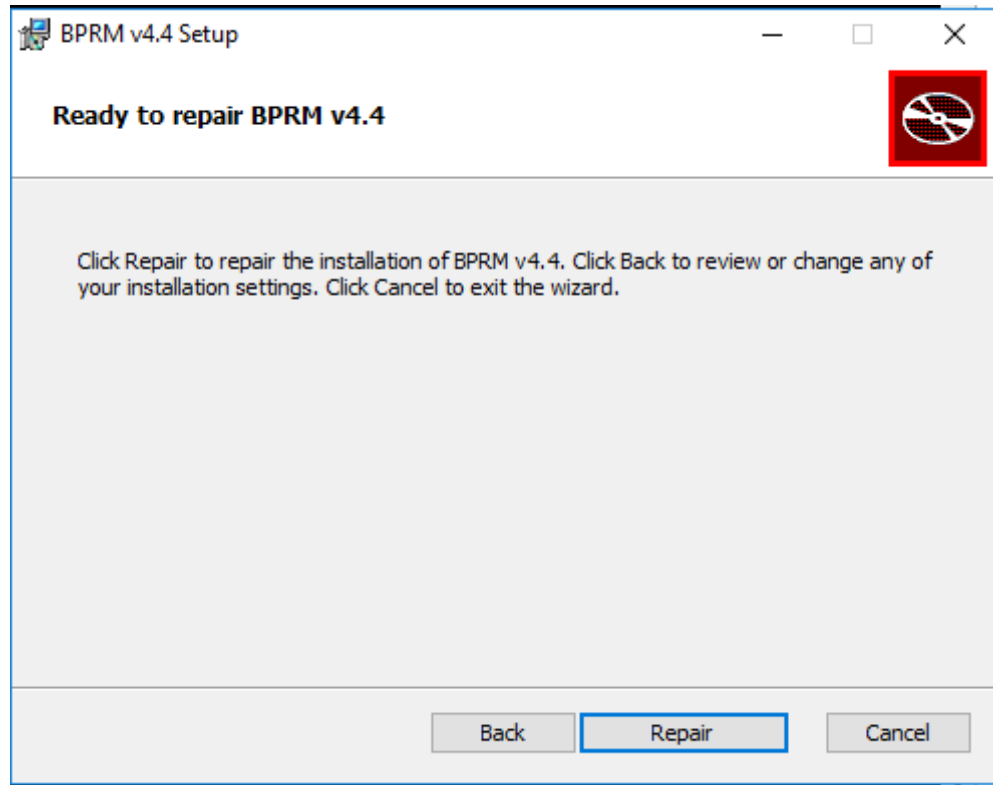


Figure 7-14: Installing BPRM dialog

5. Click **Next** once the processing is complete. The **Database Configuration** dialog (Figure 7-15) displays.

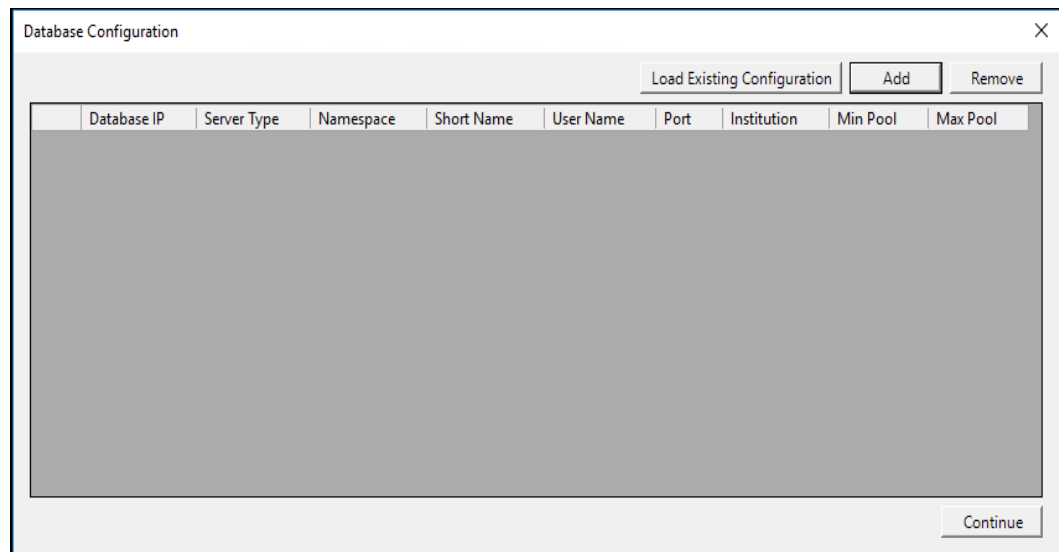


Figure 7-15: Database Configuration dialog

6. Click **Add** on the **Database Configuration** dialog to display the **Configuration** dialog (Figure 7-16) and add this information for each database associated with this installation.

Note: **Load Existing Configuration** will not work when loading from a **BRPM V3.x configuration** file. Use **Add** instead.

Figure 7-16: Configuration dialog

The **Configuration** dialog contains the following fields:

- **ServerName/IP:** Use this field to enter the IP address of your RPMS database.

Note: This is the **internal IP address**, not an **external address**.

- **RPMS Namespace:** Use this field to enter the namespace of your RPMS database.
- **User Name (DB):** This field is automatically populated with the **BPRM_USER** user name.
- **Password (DB):** Use this field to enter the password you set for the **BPRM_USER** account in Section 6.3.1.
- **Super Server 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 Healthshare/IRIS setting.

The Superserver port number can be checked from within the Healthshare/IRIS Management Portal using this path:

**Home > System Administration > Configuration > System Configuration
> Memory and Startup**

The **Superserver port number** displays at the bottom of the page:

- **Display Name:** Display/Short name shows up on the BPRM application login screen. This field is automatically populated with site's institution's short name if it exists in the **INSTITUTION** file. If it does not exist, type a **short/display name** of your choice to identify this institution in the future.
- **DB Server Type:** This drop down has two values 'IRIS' and 'HealthShare/Ensemble'. It is defaulted to 'IRIS'. Site must select the correct server type for the RPMS environment this connection setting is going to connect to.

Figure 7-17: Configuration dialog

- **Default Institution:** This checkbox indicates the site's RPMS default institution should be selected automatically when institutions are pulled from the RPMS system, on this screen.
- **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.

- **Connection Pool Settings:** This section relates to connection settings for **BPRM application** when requesting connections from the **HealthShare\IRIS Database**. This setting has been introduced since, with **HealthShare\IRIS**, the number of **licensed connections** has decreased from **1,500** (in **Ensemble**) to **250–500** (in **HealthShare\IRIS**) and that has resulted in exhaustion of licenses. Sites can customize the number of minimum connections and maximum connections the **BPRM application** can request from the **HealthShare\IRIS application**. It is defaulted to **20–100**, but sites can modify according to the site's **HealthShare\IRIS license** and **BPRM usage**.
 - **Minimum:** This number indicates the **minimum connections** the **BPRM application** shall create/request from **HealthShare\IRIS DB**, when the application is accessed for the first time. Minimum connections persist as long as the application is live.
 - **Maximum:** This number indicates the **maximum connections** BPRM shall create/request from **HealthShare\IRISDB** at any given time (usually at the busiest time). Connections shall be destroyed when not in use until it reaches the minimum threshold.
7. When the **Configuration** dialog displays, enter the following:
 - Server Name/IP
 - RPMS Namespace
 - User Name
 - Password
 - Super Server Port
 - Display Name
 - DB Server Type
 - Default Institution (optional)
 8. Click **Verify Connection**.
 9. 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.

For Multi-tenant setup (connecting this BPRM application to multiple RPMS environments/databases) repeat Steps 6 to 10 of this section.
 11. When complete, click **Continue** to continue the application installation.

12. If an **Access denied** error (Figure 7-18) displays, close the installer and run the installer again in Administrator mode (Run as Administrator), as shown in Appendix A.

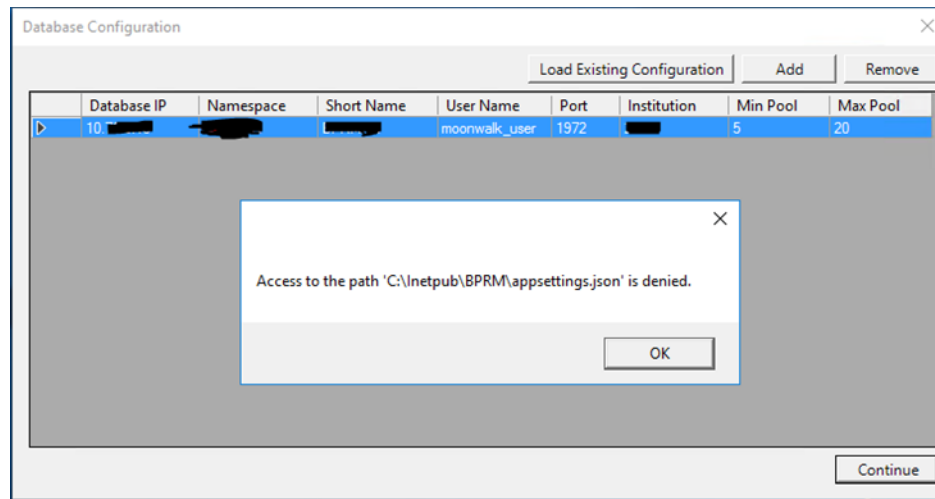


Figure 7-18: Access Denied error message

When the installation is complete, the **Installation Complete** dialog (Figure 7-19) displays.

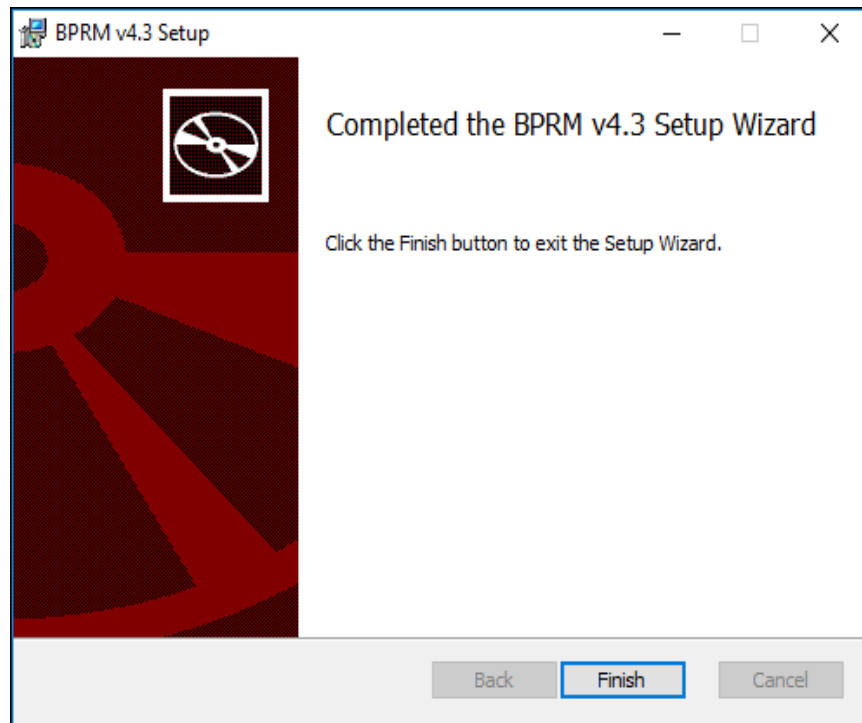


Figure 7-19: Installation Complete dialog

13. Click **Close** to exit the dialog.

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

Role	Secondary Menu Option	Security Keys (Must include all)
ADT Clerk	BDGMENU	DGZADT DGZNUR DGZMENU
ADT Coder	BDGMENU	DGZPCC DGZMENU
ADT Supervisor	BDGMENU	DGZADT DGZICE DGZNUR DGZSUP DGZSYS DGZMENU
Admin	N/A	XUPROG XUPROGMODE
Flag Manager	N/A	DGPF MANAGER
Flag Assignment	N/A	DGPF ASSIGNMENT
ReOpen Benefit Case	N/A	AGZCREOPN
Registration Appts tab access	AGPAT–or–AGMENU	SDZ ELIG REPORT
Registration Clerk	AGPAT–or–AGMENU	AGZMENU
Registration Supervisor	AGMENU	AGZMENU AGZMGR AGZHOME

Role	Secondary Menu Option	Security Keys (Must include all)
Registration View Only	AGPAT–or–AGVIEWONLY	AGZVIEWONLY
Mini Registration Access	N/A	SDZREGMENU
Scheduling Clerk	BSDMENU	SDZMENU
Scheduling Supervisor	BSDMENU–or–BSD MENU SUPERVISOR	SDZMENU SDZSUP
SSN Viewer	N/A	AGZVIEWSSN

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 the keys shown must be included.

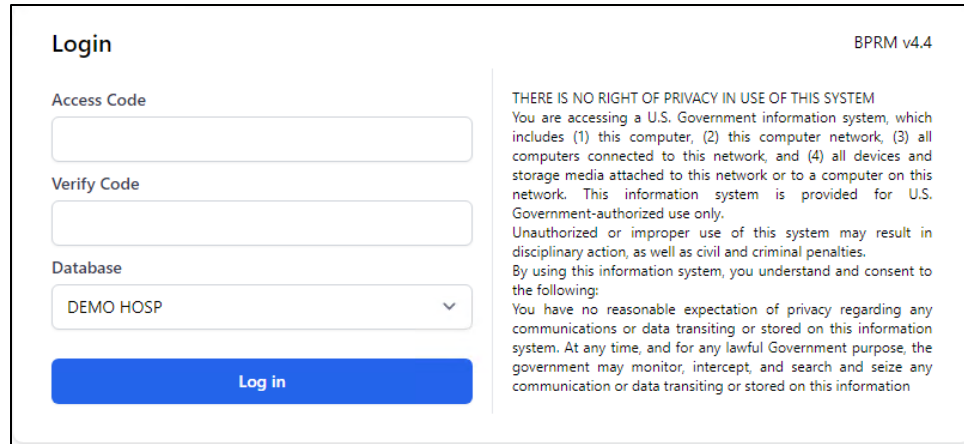
For example, a Scheduling Supervisor needs either the BSDMENU or BSD MENU SUPERVISOR added as a Secondary Menu Option, but needs both the SDZMENU and SDZSUP security keys.

7.4 Open the BPRM Application

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

1. Open ® Microsoft Edge, Google Chrome, or Mozilla Firefox.
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 previously assigned:
 - For sites using SSL: **https://domain_name:kkk**
 - For sites not using SSL: **http://ip_address:kk**

The BPRM Log In dialog (Figure 7-20) displays.



The image shows a login dialog box titled "Login" with the version "BPRM v4.4" in the top right corner. On the left side, there are three input fields: "Access Code" (a text box), "Verify Code" (a text box), and "Database" (a dropdown menu currently showing "DEMO HOSP"). Below these fields is a blue "Log in" button. On the right side, there is a privacy notice: "THERE IS NO RIGHT OF PRIVACY IN USE OF THIS SYSTEM. You are accessing a U.S. Government information system, which includes (1) this computer, (2) this computer network, (3) all computers connected to this network, and (4) all devices and storage media attached to this network or to a computer on this network. This information system is provided for U.S. Government-authorized use only. Unauthorized or improper use of this system may result in disciplinary action, as well as civil and criminal penalties. By using this information system, you understand and consent to the following: You have no reasonable expectation of privacy regarding any communications or data transiting or stored on this information system. At any time, and for any lawful Government purpose, the government may monitor, intercept, and search and seize any communication or data transiting or stored on this information system."

Figure 7-20: BPRM Log In dialog

3. Type your **RPMS Access Code (username)** in the **Access Code** field.
4. Type your **RPMS Verify Code (password)** in the **Verify Code** field.
5. Select your **RPMS database** from the **Database** drop-down menu.

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

6. Click **Login**. A screen similar to that shown in Figure 7-21 displays, although different modules may display at the bottom of the screen.

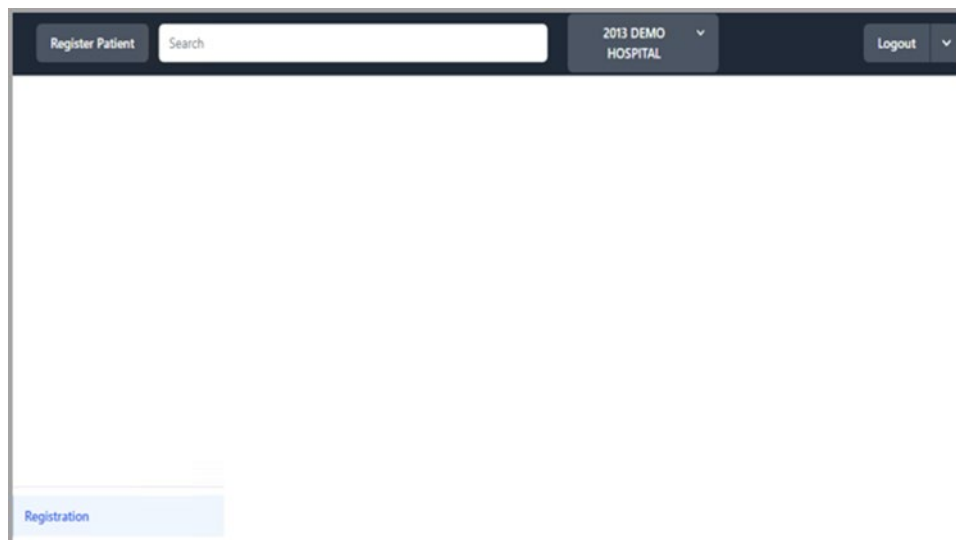


Figure 7-21: BPRM opening screen

Note: If you specified a port other than the default 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.

7.5 Verify Client/Server Machine Date Time

For BPRM to work correctly, following environments must be on the same date/time (up to minutes):

- Database server (hosting RPMS)
- Application/IIS server (hosting BPRM application)
- User/Client machine (BPRM user's environment)

Once logged into the BPRM application, open the **About** page as follows:

1. Click the **Down** button next to **Logout** at top-right corner of BPRM.
2. Select **About** from the drop-down list, to open **About** page, as shown in Figure 7-22.

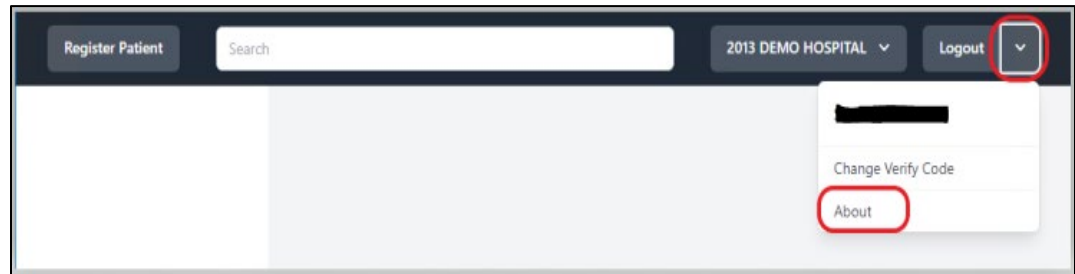


Figure 7-22: BPRM Logout drop-down list

3. Verify all three date/times (up to minutes)—**App server Date/Time, Database Server Date/Time, and User/Client Machine Date/Time** are the same (Figure 7-23).

The Client/User machine date time is not displayed in the About page. Users may verify the machine's system date time.

User	Name ██████████	Current Division 2013 DEMO HOSPITAL	Divisions 2013 DEMO TRIBE 2013 DEMO HOSPITAL 2013 DEMO CLINIC 2013 DEMO TRIBAL HOSPITAL LONG
	Menus AKMOCORE, AGMENU	Keys XUPROG, XUPROGMODE, AGZREPORTS, AGZMENU, AGZHOME, AGZMGR, APCLZMENU, SDZSUP, DGZSUP, DGZADT, DGZPCC, DGZMENU, AGZDELHRN, DGZSYS, SDZMENU, DGZNOCLN, DGZNUR, DGZICE, DGPF PRF ACCESS, SDZ ELIG REPORT, AGZVIEWSSN, AGZCREOPN, DGPF ASSIGNMENT, DGPF MANAGER	Authorized Modules Registration, ADT, Scheduling, Settings, Reports
	Lock Time 18000 sec		
Server	App Server Date/Time 10/25/2023 4:22:12 PM	Database Server Date/Time 10/25/2023 4:22:12 PM	
Browser	Version Chrome (118.0.0.0)	OS Windows 10 (amd64)	Screen Resolution 1920x1080
	Time Zone America/New_York		
<input type="button" value="Close"/>			

Figure 7-23: BPRM About page logout

Appendix A Run 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.



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.
4. In this example, the file is located on Drive D: in the EnsembleDatabases\bprm folder (Figure A-2).

On your system, this location will likely be different.

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

Figure A-2: Drive D: in the EnsembleDatabases\bprm folder

5. At the resulting prompt, type the name of the installation file (bprm0400.04.msi in this example) and press **Enter**:

D:\EnsembleDatabases\bprm>bprm0400.04.msi

This will launch the BPRM Setup Wizard and at that point you can follow the steps described in Section 7.1.

Appendix B Disable Logging in IIS Manager

The Internet Information Services (IIS) manager is set up 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 BPRM 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 BPRM website setup at your site. This information can also be found on the Microsoft website at:

<https://technet.microsoft.com/en-us/library/cc754631%28v=ws.10%29.aspx>

1. From the Windows Start menu, select **Administrative Tools** (Figure B-1).

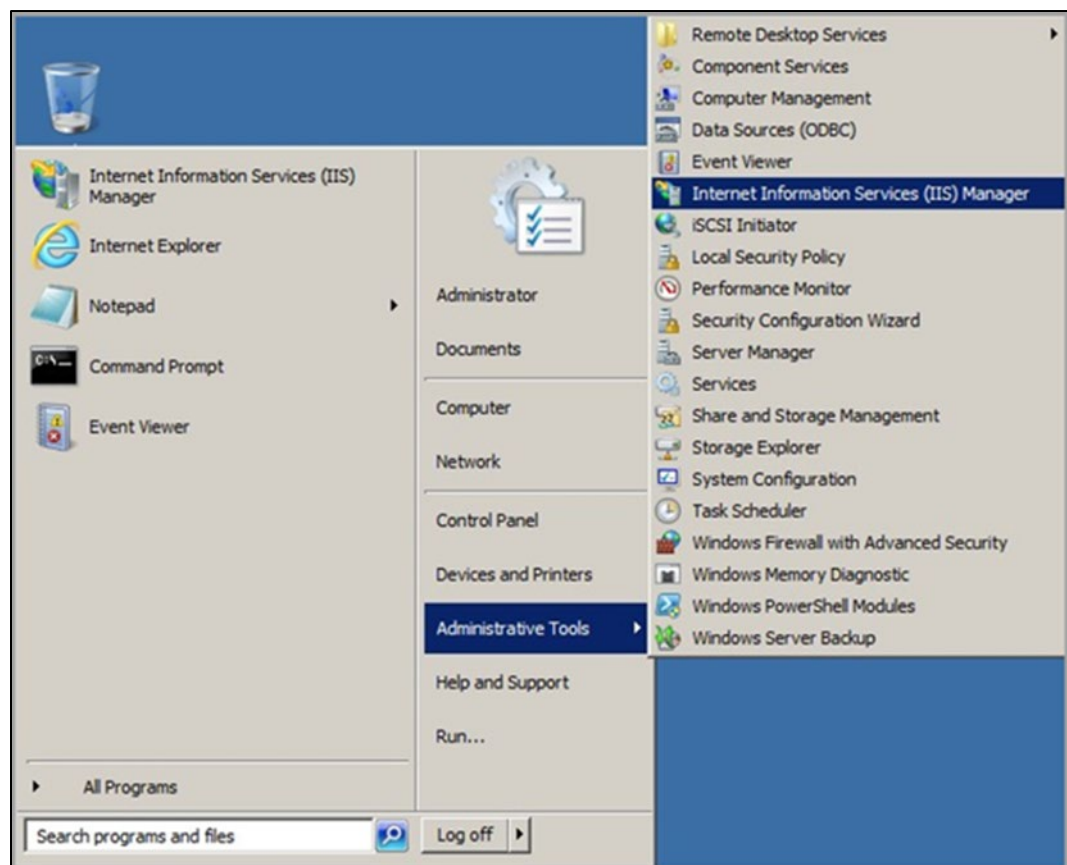


Figure B-1: Opening Internet Information Services (IIS) Manager

2. Select **Internet Information Services (IIS) Manager** to display the **IIS Management Console** (Figure B-2).

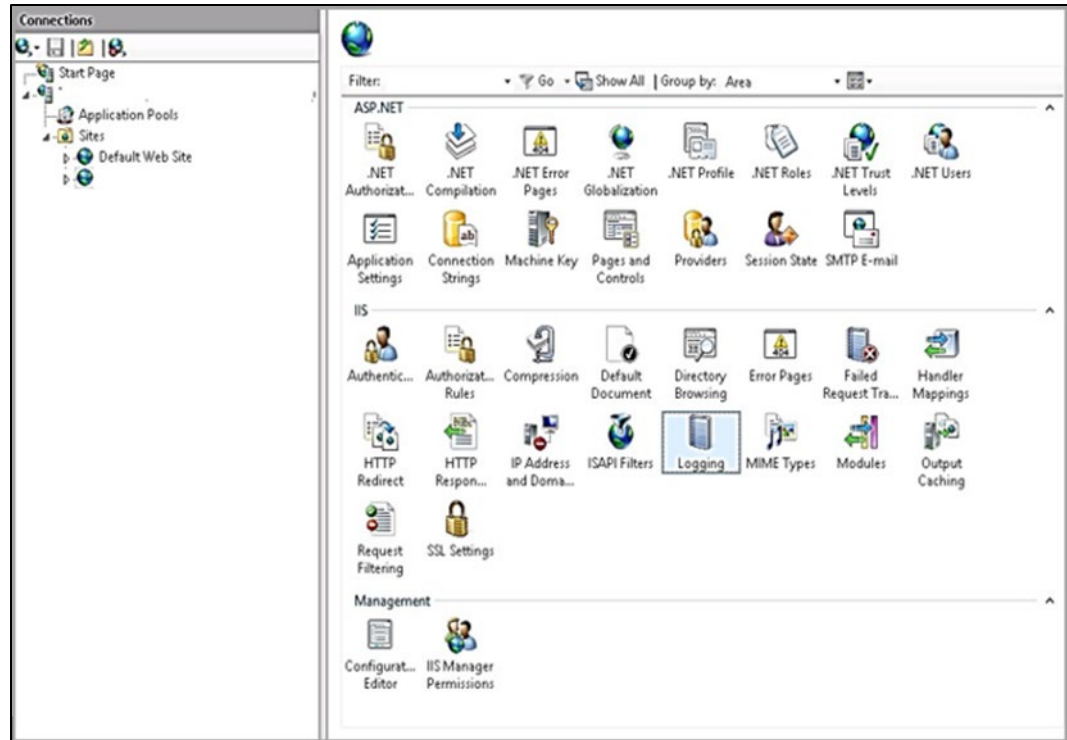


Figure B-2: IIS Management console

3. Select the **BPRM website** in the left pane.
4. Double-click **Logging** to display the **Logging dialog**.

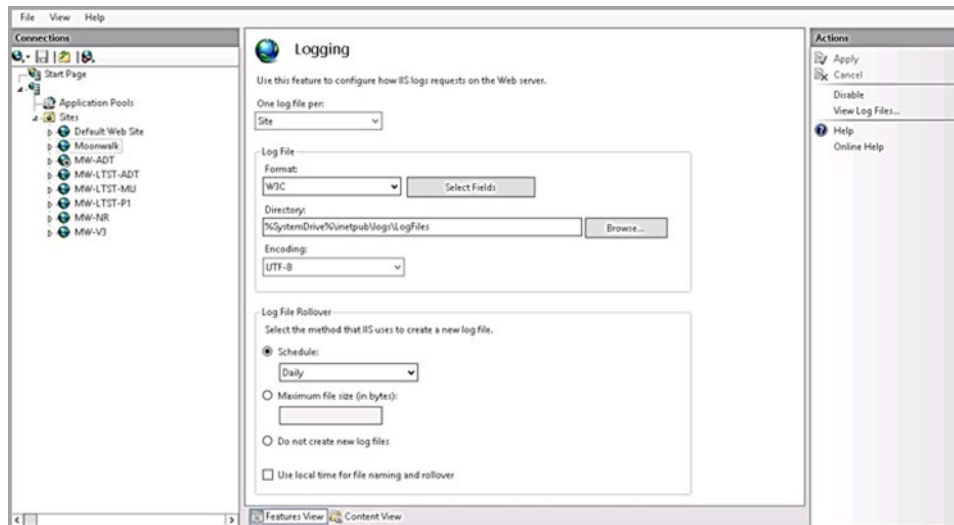


Figure B-3: Logging window

5. Click **Disable** in the **Actions** pane.

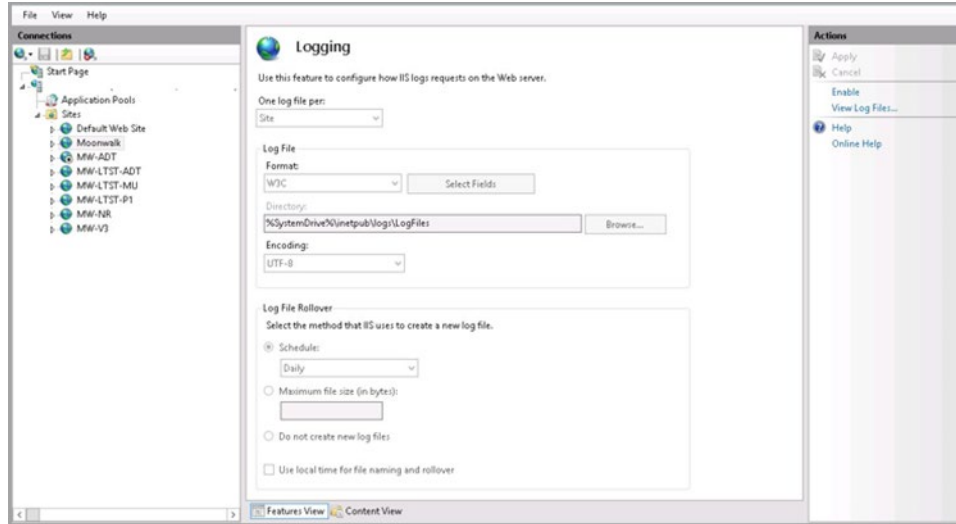


Figure B-4: Disabled Logging window

Appendix C Run Multiple BPRM Web Applications on a Single Server

BPRM is a multi-tenant application meaning a single BPRM application website can connect to multiple RPMS systems.

Setting up multiple BPRM applications on a single server/environment is not supported.

In cases where a single BPRM server needs to serve multiple RPMS environments; a single BPRM installation can be used to connect to multiple RPMS environments as described in Section 7.2.

Acronym List

Acronym	Meaning
CRUD	Create, Read, Update, and Delete
HTTP	Hypertext Transfer Protocol
HTTPS	Hypertext Transfer Protocol Secure
IHS	Indian Health Service
IIS	Internet Information Service
KIDS	Kernel Installation and Distribution System
PHR	Personal Health Record
RPMS	Resource and Patient Management System
SQL	Structured Query Language
SSL	Secure Sockets Layer
WCF	Windows Communication Foundation

Contact Information

If you have any questions or comments regarding this distribution, please contact the IHS IT Service Desk.

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

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