



RESOURCE AND PATIENT MANAGEMENT SYSTEM

RPMS/Ensemble Cache Classes Database File

(BMW)

BMW CACHE.DAT Installation Guide

Version 2023.4
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Preface

This manual describes the installation of the BMW CACHE.DAT file used by the following dependent applications:

- BPRM
- BQRE
- CCDA
- BUSA

BMW 2023.4 provides CHIT complaint cache classes used by the dependent applications. The versioning information indicates the calendar year and quarter in which the BMW CACHE.DAT file is released.

1.0 Release Notes

This release of the stand-alone BMW CACHE.DAT file supports changes for following additional patches

- BCCD (bccd0200.01)
- BJPC (bjpc0200.26)
- BCQM (bcqm0100.10)

2.0 Installation Notes

Prefix: BMW
Current Version: 2023.4

2.1 Contents of Distribution

Table 2-1: Distributed Files and Descriptions

File	Description
bmw_2023.4_win_HS17.zip	CACHE.DAT Cache database file for Windows systems
bmw_2023.4_aix_HS17.tar.gz	CACHE.DAT Cache database file for AIX systems

2.2 Required Database Server Resources

The BMW CACHE.DAT file requires a minimum 10 GB of free disk space on the database server.

2.3 Healthshare Prerequisites

This BMW CACHE.DAT file is currently supported on HealthShare version 2017.2.x and shall not be setup on Ensemble 2012.

BMW version (2023.4) accumulates all changes/functionality in previously released BMW patches.

The examples in this Installation Manual reflect HealthShare 2017.2.2HS.9686.0. If the site is running a different version, some of the screens may vary slightly from those shown in this manual.

3.0 Installation Instructions

The BMW CACHE.DAT file is a required component of several IHS RPMS applications. It must be present for these applications to run.

As a strategy to minimize changes to the Resource and Patient Management System (RPMS) database, the BMW CACHE.DAT file is mounted as a separate database on a HealthShare server. This 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 take advantage of 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.

Follow the instructions shown in Section 4.0 if the BMW CACHE.DAT file is being installed for the first time. Refer to Section 5.0 if an earlier version of the BMW CACHE.DAT file is installed at the site.

4.0 Installation and Configuration

4.1 Assumptions

This section assumes the following:

- The HealthShare server (running one of the supported versions) has already been set up.
- An RPMS database is already set up on the HealthShare server.
- The user performing the installation and configuration has the appropriate rights to mount databases.

In this manual, **MSDB** is the name of the RPMS database used. The name may be different on site's system. The steps shown in the following sections will guide user through setting up the BMW database for the IHS RPMS environment.

4.2 Installation

4.2.1 Download the BMW File

Download the desired version of BMW file from the Indian Health Service (IHS) File Transfer Protocol (FTP) site. Alternatively, find the RPMS/Ensemble Cache Classes Database File (BMW) here: <https://www.ihs.gov/rpms/applications/infrastructure/>.

4.2.2 Create the /BMW Folder

Create a **/BMW** folder under the default database folder on the database server. This is the folder where the BMW CACHE.DAT file will reside.

For Windows systems, follow these steps (substituting the appropriate drive letter and folder names):

1. Using Windows Explorer, navigate to **D:\EnsembleData** or **D:\HealthShareData** or to where the HealthShare databases reside on the database server.
2. Click **Organize**, then select **New Folder**.
3. Type **BMW**, and press Enter to create the **D:\EnsembleData\BMW** folder.

For AIX systems, issue the following command at the command prompt.

Note: This example uses usr3 as the default database directory. Your default directory will likely be different.


```
$mkdir /usr3/cachedata/bmw/
```

Figure 4-1: Command prompt

4.2.3 Unzip the BMW ZIP File

Using the appropriate utility for the file format provided, unzip the BMW file into CACHE.DAT file, which will be mounted onto the HealthShare server in the steps shown in Section 4.2.7.

Unzip this file on a workstation or other local machine, not on your database server itself. After it is unzipped, it will be moved to the database server as described in Section 4.2.4.

4.2.4 Move the BMW CACHE.DAT File to the Database Server

After unzipping the compressed file, move the CACHE.DAT file contained within it to the /BMW folder created in Section 4.2.1:

- If installing on a Windows database server, this file move can be done directly through the network or via Remote Desktop Connection, depending on site requirements.
- On an AIX database server, it may be required to use FTP or another similar file transfer program to move the file.

4.2.5 Set File and Folder Permissions

The **BMW CACHE.DAT** file needs specific access permissions (also known as access rights on AIX systems) to access the **CACHE.DAT** file and the folder in which it is stored. On Windows servers, the necessary permissions are typically set up by default.

On AIX servers, the necessary rights are not established by default. To set the access rights on an AIX server:

1. Type the command at the AIX command prompt to navigate to the folder where CACHE.DAT is stored.

Note: That this example uses *usr3* as the default database directory. Your default directory will likely be different.

```
$cd /usr3/cachedata/
```

Figure 4-2: AIX Command prompt

2. Type the following command to set the permissions for the /bmw directory:

```
$chmod 770 /usr3/cachedata/bmw
```

Figure 4-3: Command prompt for setting permissions for /bmw directory


3. Type the following command to set the permissions for the **CACHE.DAT** file:

```
$chmod 775 /usr3/cachedata/bmw/CACHE.DAT
```

Figure 4-4: Command prompt for setting permission for CACHE.DAT file

4.2.6 Set Up the BMW Database

Mount the unzipped BMW database using the HealthShare System Management Portal, a component of HealthShare:

1. Right-click the HealthShare icon () in the Windows Notification Area. The menu in Figure 4-1 displays.

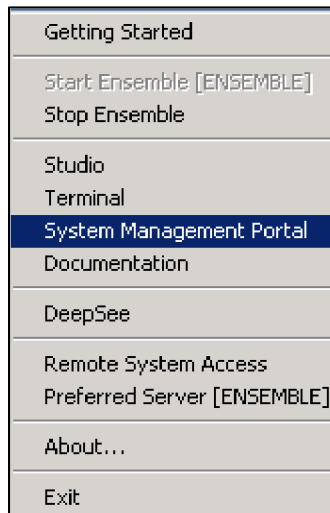


Figure 4-5: Opening the HealthShare System Management portal

2. Select **System Management Portal**.

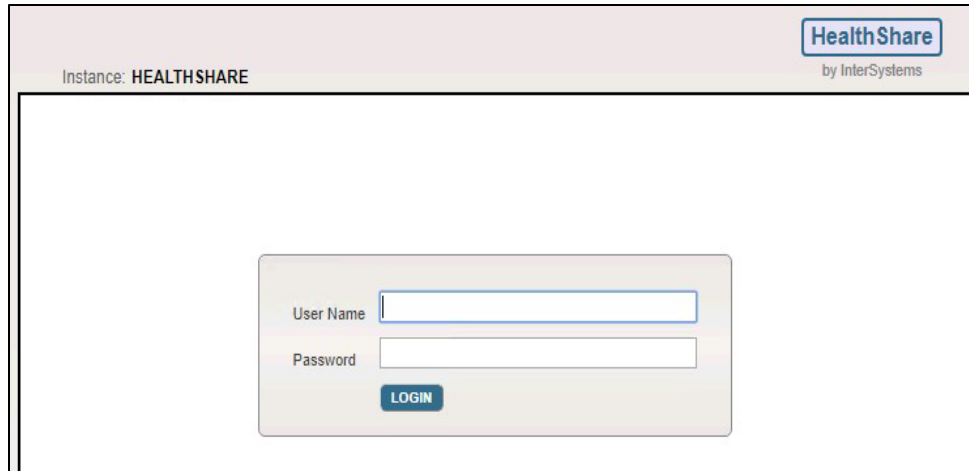


Figure 4-6: HealthShare login dialog

3. Type your Ensemble/Cache user name and password in the window displayed (Figure 4-2). Click **Login**.
4. From the Ensemble/Cache **System Management Portal Home** window click **System Administration > Configuration > System Configuration > Local Databases** as shown in Figure 4-3:

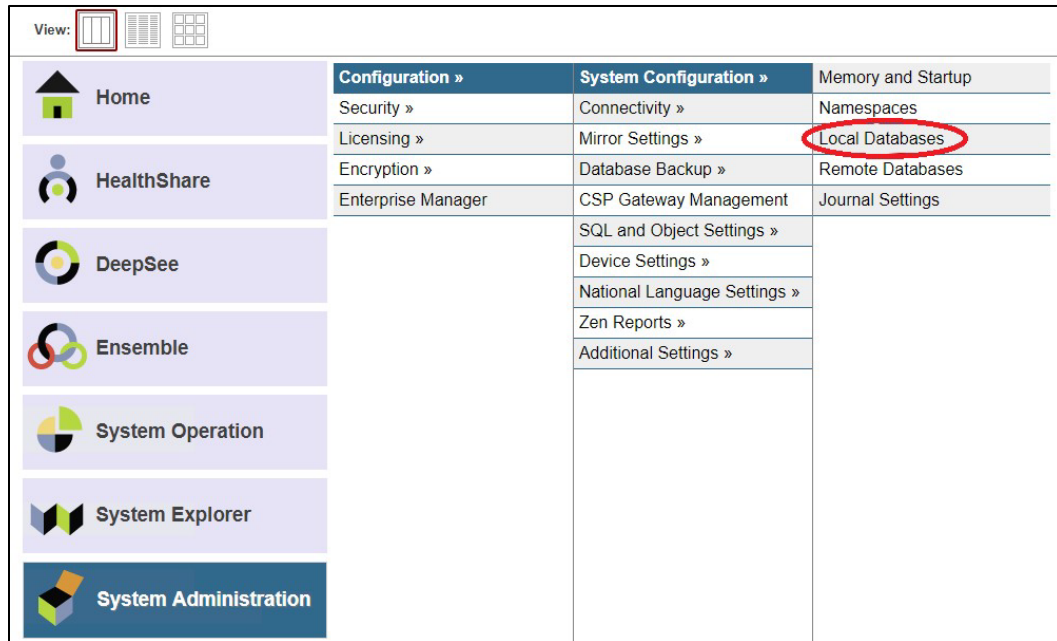


Figure 4-7: **System Management Portal – Local Databases** selected

5. The **Local Databases** window displays as shown in Figure 4-4.

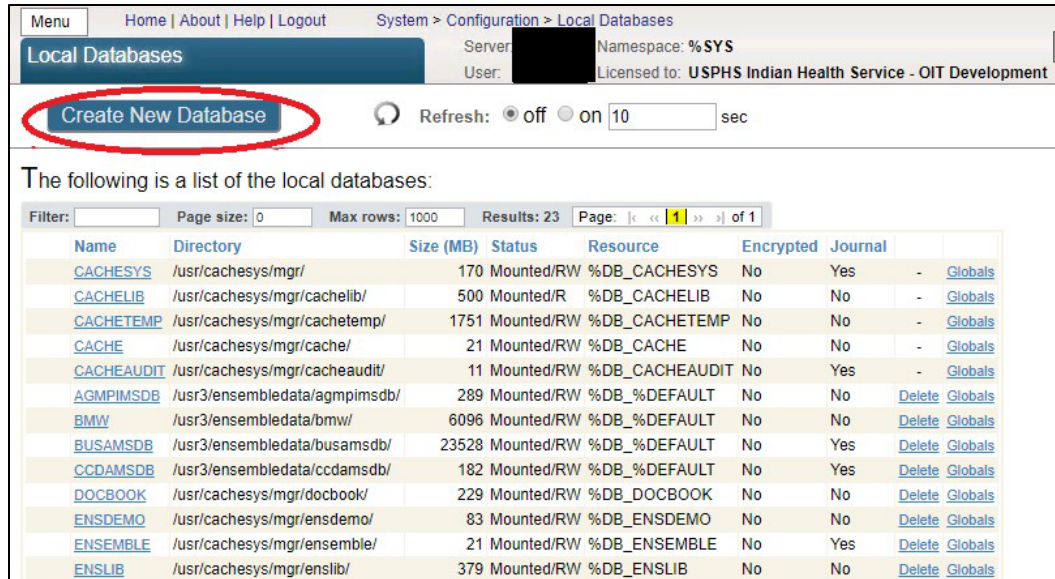


Figure 4-8: Local Databases window

6. Select **Create New Database** in the upper left of the **Local Databases** window. The **Database Wizard** (Figure 4-5) window displays.
7. In the **Enter the name of your database** field, type **BMW**.
8. Click **Browse** and browse to the folder where the **BMW** database is located, on the HealthShare server, as described in Section 4.2.3. (The correct folder is labeled **\BMW** and contains the **CACHE.DAT** file.)

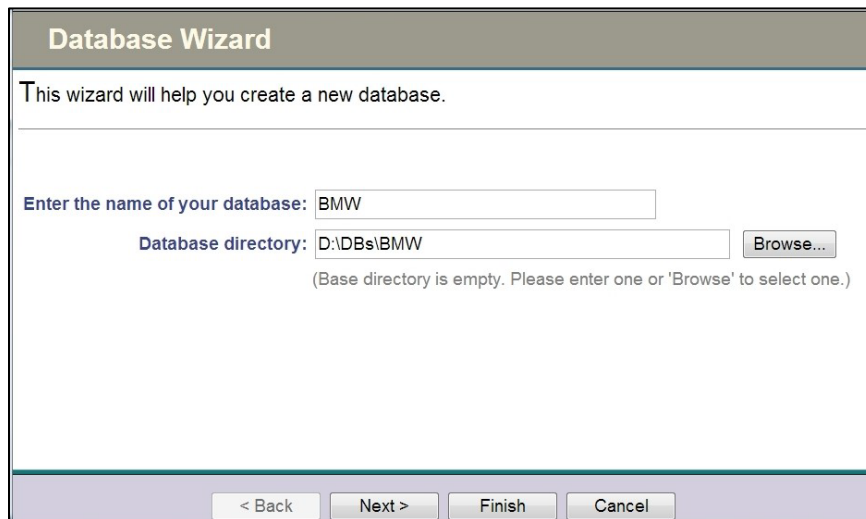


Figure 4-9: Database Wizard Create New Database

9. Click **Next** to display the **Database Wizard** (Figure 4-6). A message displays stating the **CACHE.DAT** database file already exists. Click **Finish** to close the **Database Wizard**.

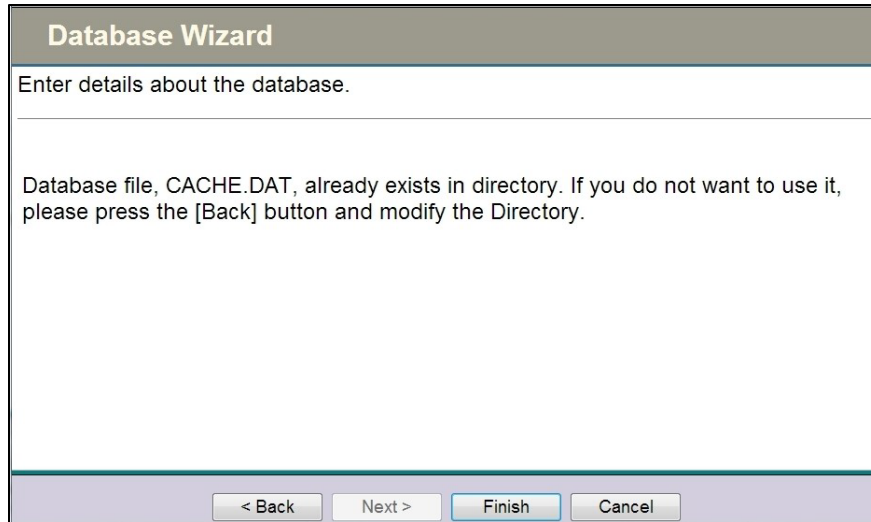


Figure 4-10: Database Wizard

4.2.7 Mount the BMW Database

To mount the BMW database:

1. From the **System Management Portal Home** window, click **System Operation > Databases** to display the **Databases** window shown in Figure 4-7.

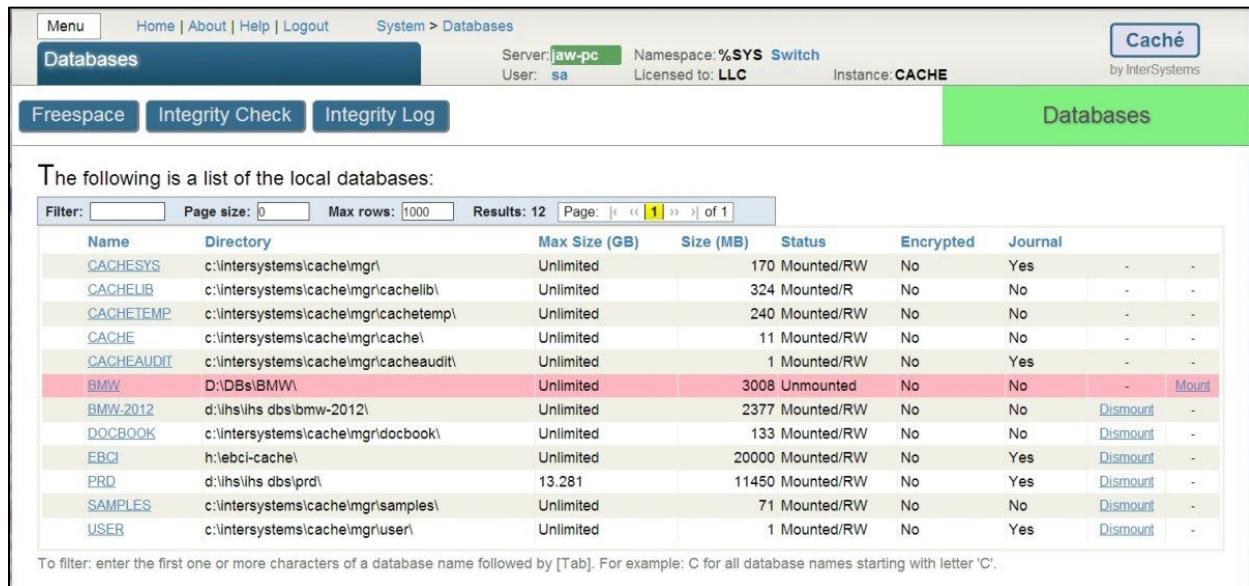


Figure 4-11: System Management Portal Databases window

2. If the **Status** column for the BMW database shows it is unmounted, click **Mount**. The confirmation dialog shown in Figure 4-8 displays.

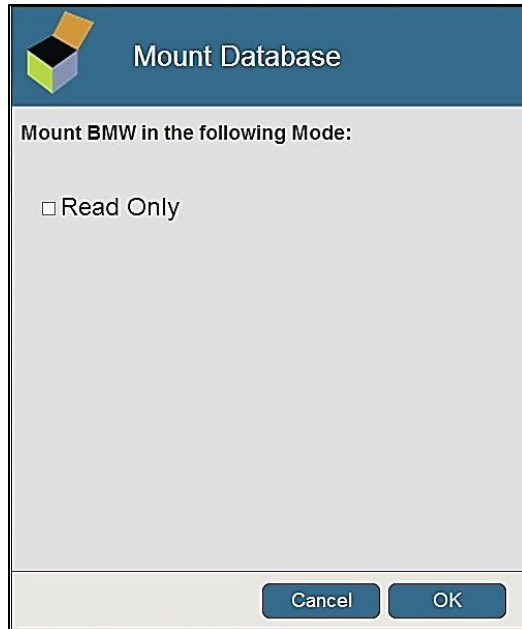


Figure 4-12: Mount Database dialog

4.2.8 Create the New Namespace

1. To create a new namespace for the BMW database, do the following:

Browse to the **New Namespace** window of the **Management Portal** following this path:

Home > System Administration > Configuration > System Configuration > Namespaces.

2. Click **Create New Namespace** at the top of the screen. The **New Namespace** window shown in Figure 4-9 displays.

Figure 4-13: Add a **New Namespace**

3. Create a new namespace, specifying **BMW** as the name of the namespace, and selecting **BMW** from the list of existing databases for Globals and Routines.
4. Clear the **Make this a HealthShare namespace** check box (Figure 4-9).
5. Click **Save**.

4.2.9 Check and Remove Mirror Bit

This section checks for a mirror bit on BMW cache.dat and removes it, as shown in Figure 4-10.

Having a mirror bit, on BMW cache.dat, can potentially present an issue with mounting the BMW DB in Read/Write (RW) mode when installing dependent applications like BPRM and BQRE.

1. Open the HealthShare terminal in programmer prompt.
2. Switch to %SYS namespace, using the command **zn "%SYS"**.
3. To get the mirroring settings, run the command **D ^MIRROR**.
4. Select **option 1** to list the mirrored databases.
5. Check if the BMW database displays in the list.

6. If it does, select **option 2** to remove the mirror bit from the BMW database.
7. If asked to provide the database name/path to remove the mirror bit, provide the database pathname as shown in Figure 4-10 in ***bold italics***

```

USER>zn "%SYS"
%SYS>d ^MIRROR

This instance is not initialized as a mirror member

1) List mirrored databases
2) Remove one or more mirrored databases
3) Enable Mirror Service

Option? 1
No mirrored db's mounted
Databases with the activation required flag set
4   f:\databases\bmw\ BMW
    133/1170064/133/1170548/0/HS2017S2016M2/d:\ensembladata\bmw\
    5AFC9AEF-E489-4ACC-86A0-91C3179A20B8
    E6F79B80-1493-4FE6-9FAC-35D9A5991188/B03E779F-FAEA-49AE-80D8-
    51C01FAC3737 Press <enter> to return to the main menu...

1) List mirrored databases
2) Remove one or more mirrored databases
3) Enable Mirror Service

Option? 2
There is one mirrored database on this system
Remove it? Yes Removing f:\databases\bmwdic\ from the mirror ...Done Press
<enter> to return to the main menu...

```

Figure 4-14: Check and remove mirror bit

4.3 Package Mapping

4.3.1 Set Up Package Mapping

To set up the package mapping:

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

Home > System Administration > Configuration > System Configuration > Namespaces

A **Namespaces** window similar to Figure 4-11 displays.

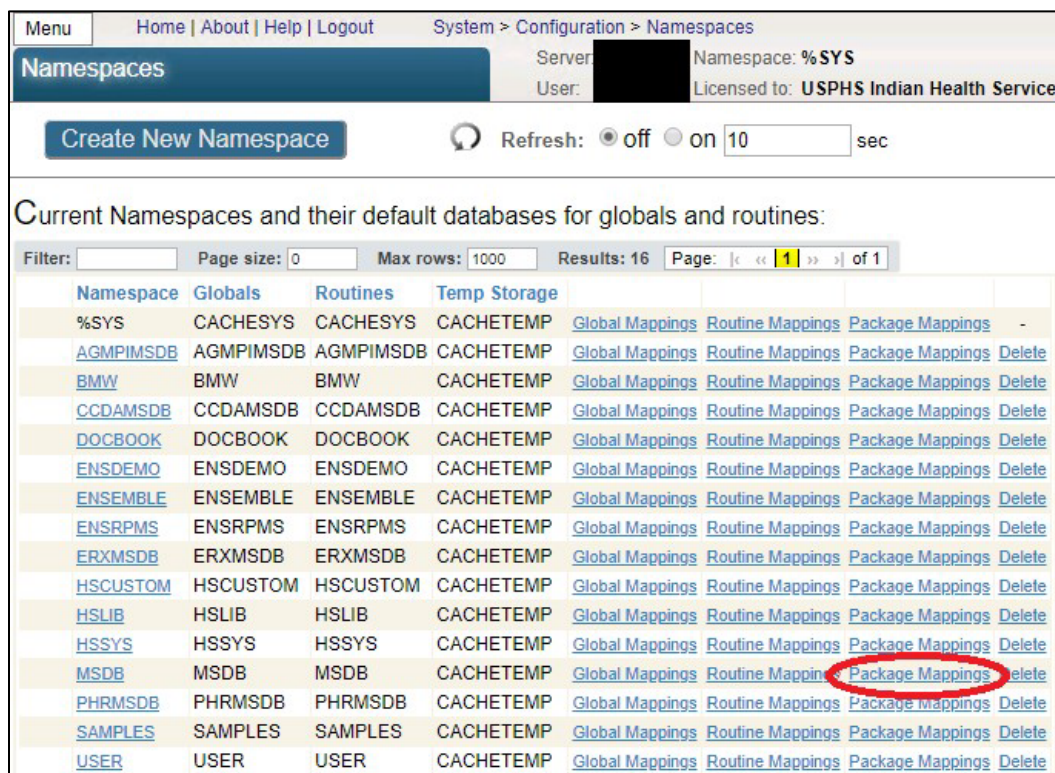


Figure 4-15: **Namespaces** window with **Package Mappings**

2. Click **Package Mappings** in the row corresponding to your *RPMS production database*. This example shows the MSDB database. The Site’s database may have a different name. The **Package Mappings** window (Figure 4-12) displays.

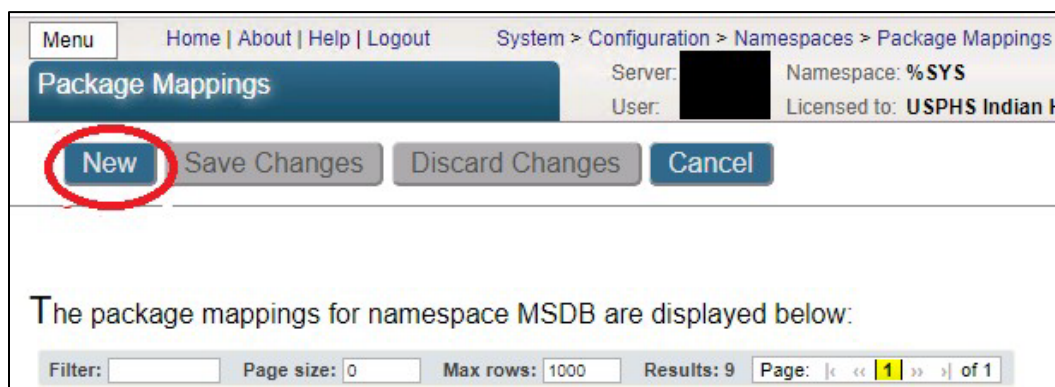


Figure 4-16: **Package Mappings** window

3. Click **New Package Mapping** to display the **Package Mapping** (Figure 4-13) dialog.

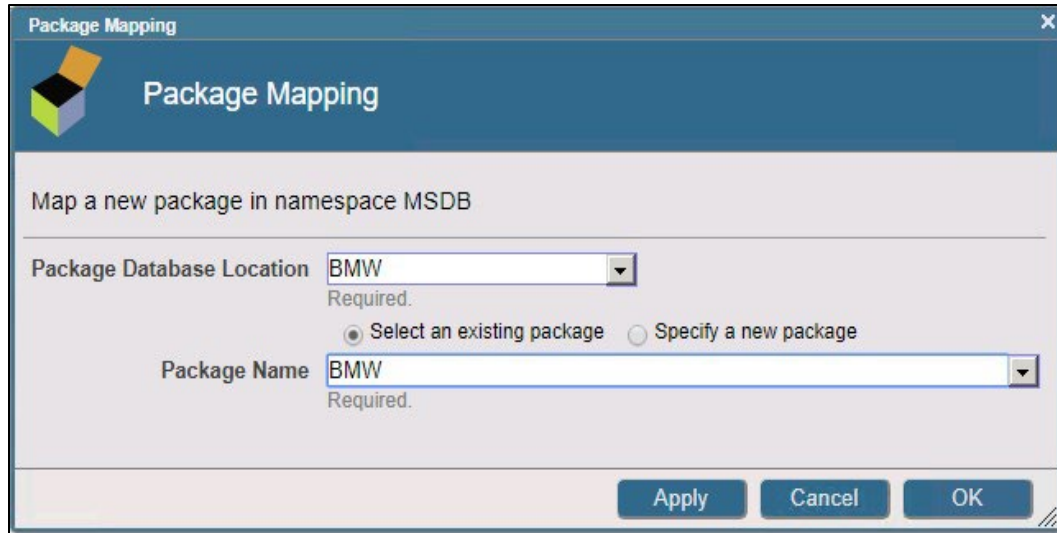


Figure 4-17: **Package Mapping** dialog

4. Type **BMW** in the **Package database location** field.
5. Type **BMW** in the **Package name** field.
6. Click OK; the **Package Mappings dialog** (Figure 4-14) redisplay.

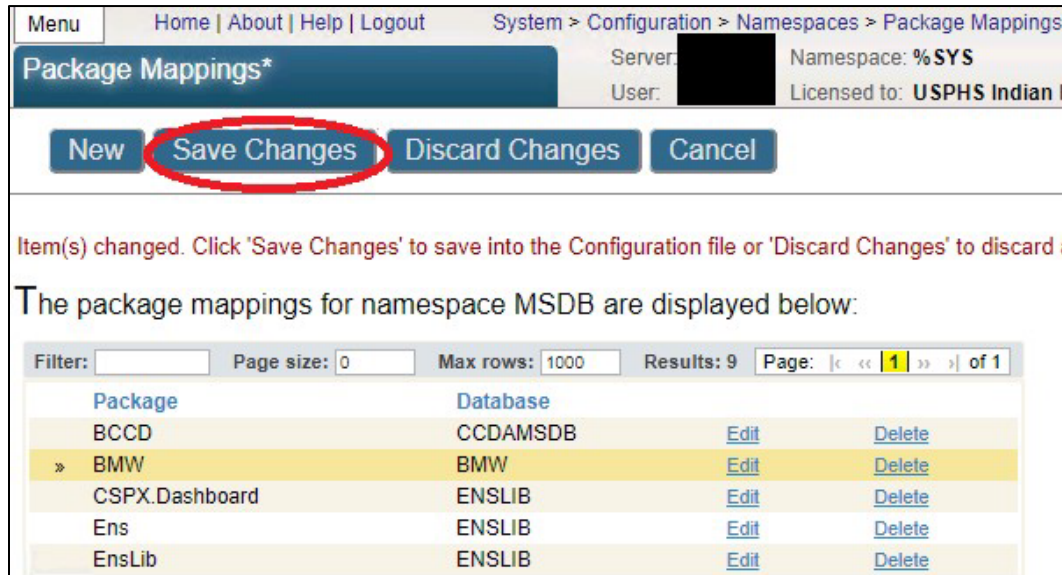


Figure 4-18: **Package Mappings** confirmation window

7. Click Save Changes.

4.3.2 Verify Package Mapping

To verify that the package mapping was successful and Cache classes (tables) can accurately retrieve data from FileMan files, do the following:

1. Browse to the **Execute SQL Query** window of the Ensemble System Management Portal following this path:

Home > System Explorer > SQL > Execute SQL Statements

The Execute SQL Query page (Figure 4-15) displays:

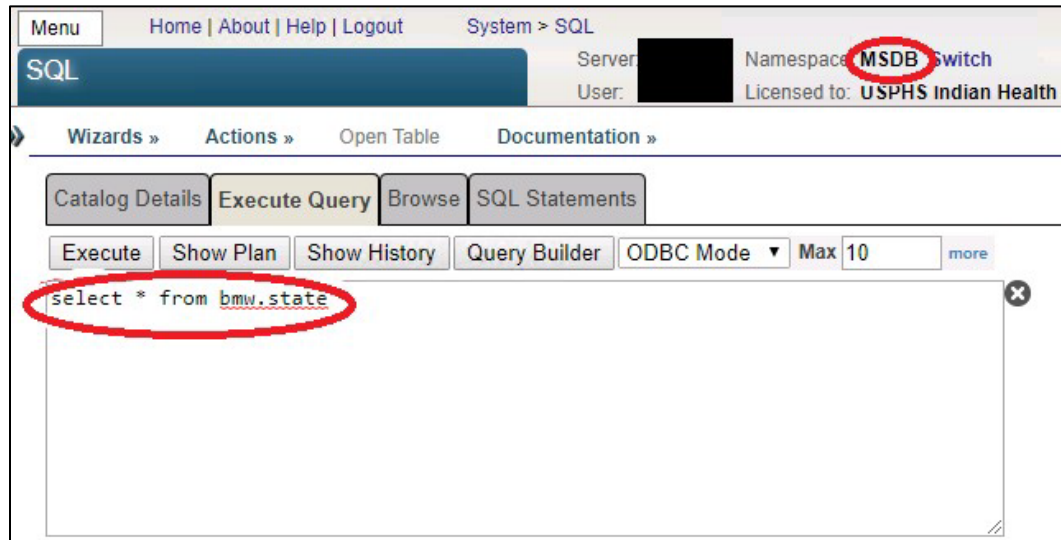


Figure 4-19: **Execute SQL Query** window

2. Select the site-specific namespace (**MSDB** in this example) from the column on the left.
3. Type **SELECT * FROM BMW.STATE** in the edit box.
4. Click **Execute Query**. If the package mapping is successful, a listing similar to Figure 4-16 displays:

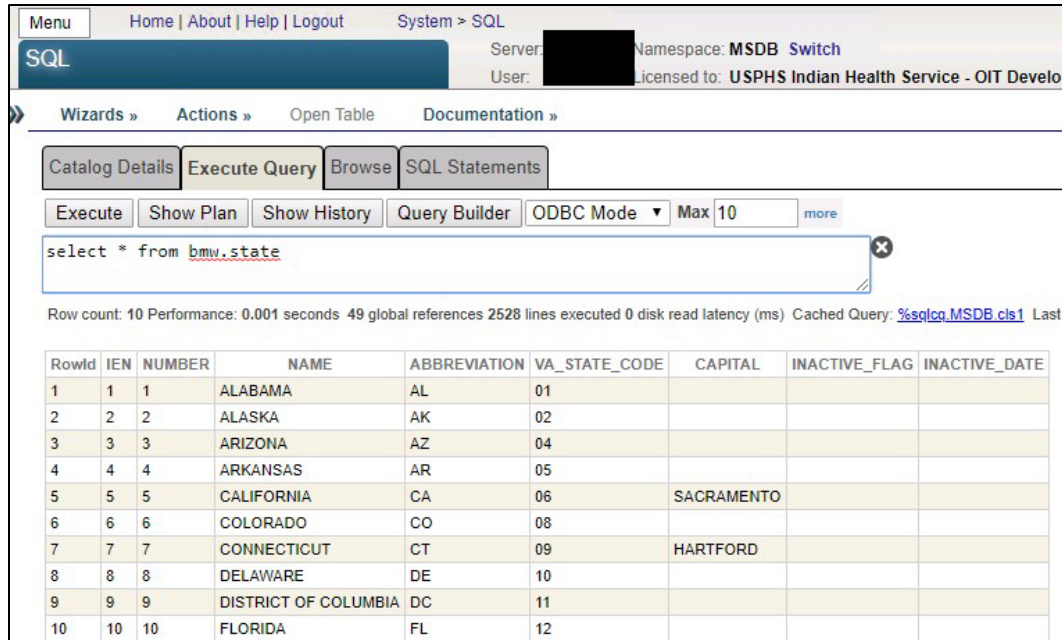


Figure 4-20: Example of test query

4.4 Global Mappings

Global mapping must be established between the BMW database and RPMS database.

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

A **Namespaces** window similar to Figure 4-17 displays.

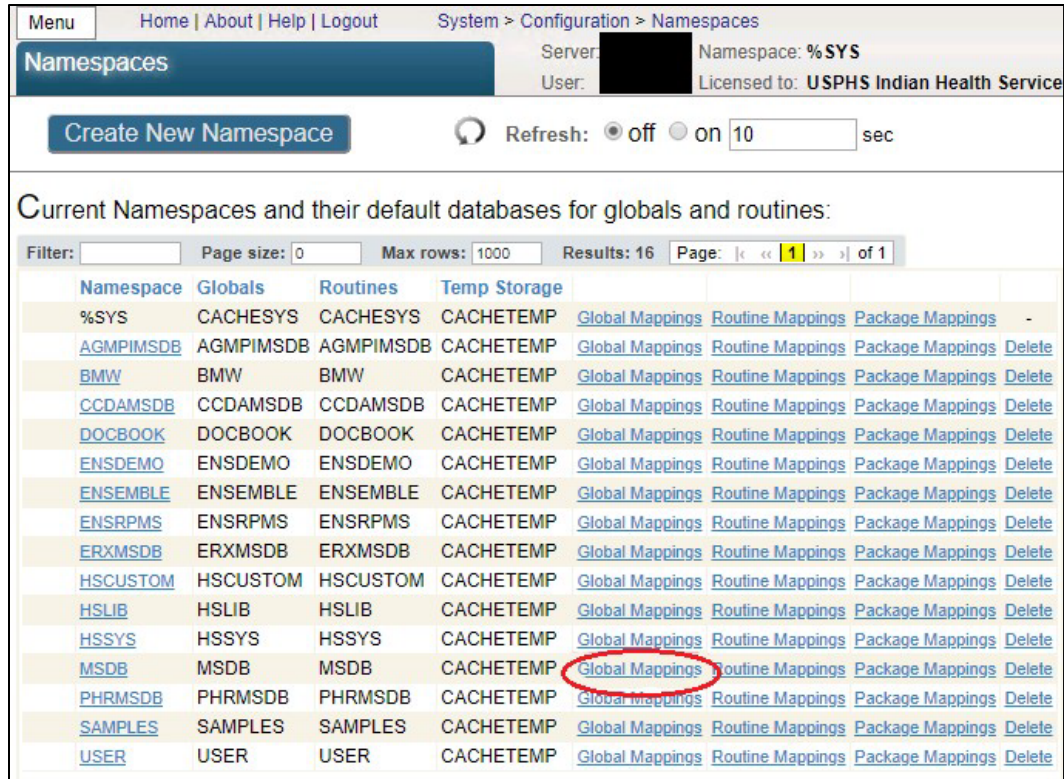


Figure 4-21: Namespaces window with Global Mappings

- Click **Global Mappings** in the row corresponding to the RPMS production database. This example shows the MSDB database, an RPMS production database. Site’s database may have a *different name*. The **Global Mappings** window (Figure 4-18) displays.

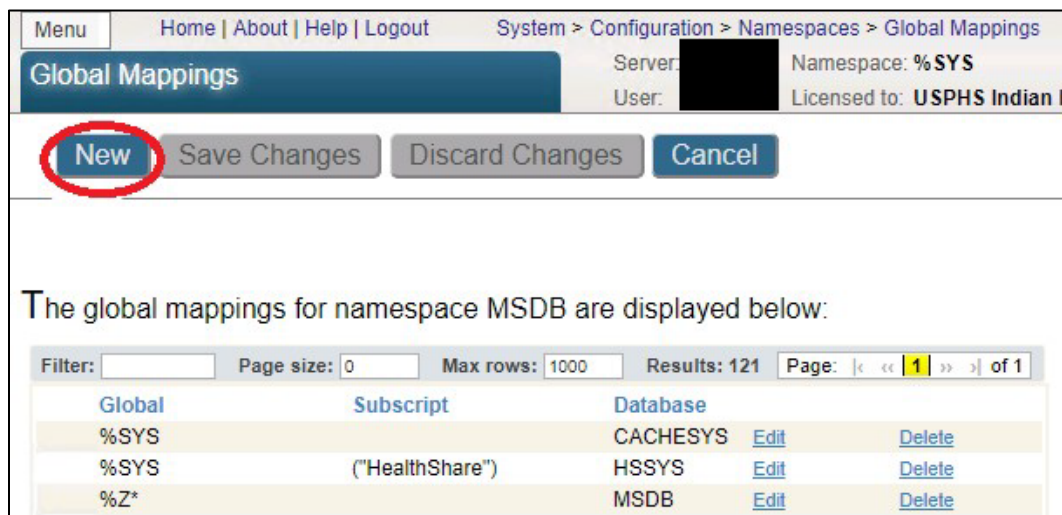


Figure 4-22: Global Mappings window

3. Click **New Global Mapping** to display the **Global Mappings** dialog (Figure 4-19).

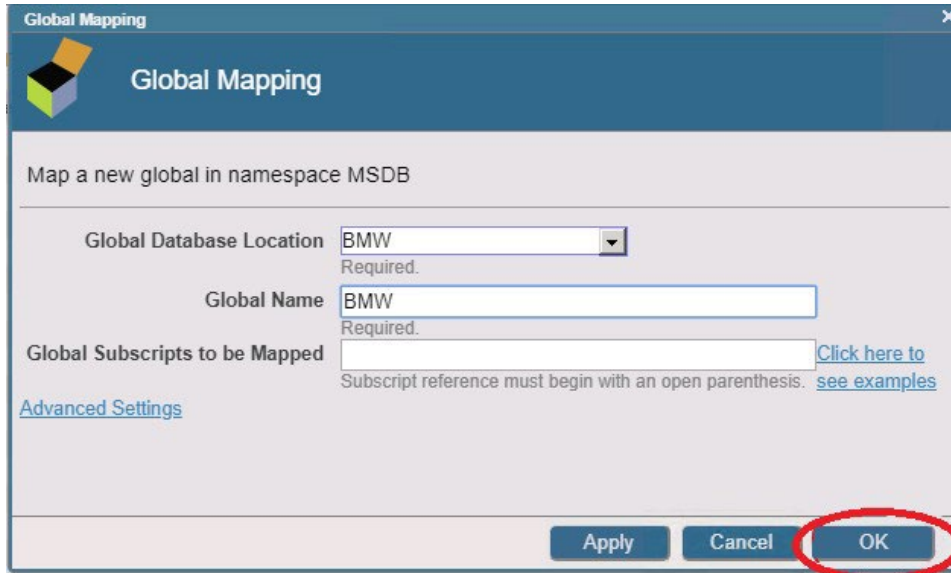


Figure 4-23: **Global Mapping** dialog

4. Select **BMW** from the **Global database location** list.
5. Type **BMW** in the **Global name** field.
6. Click **OK**. The **Global Mappings** page (Figure 4-20) redisplay.

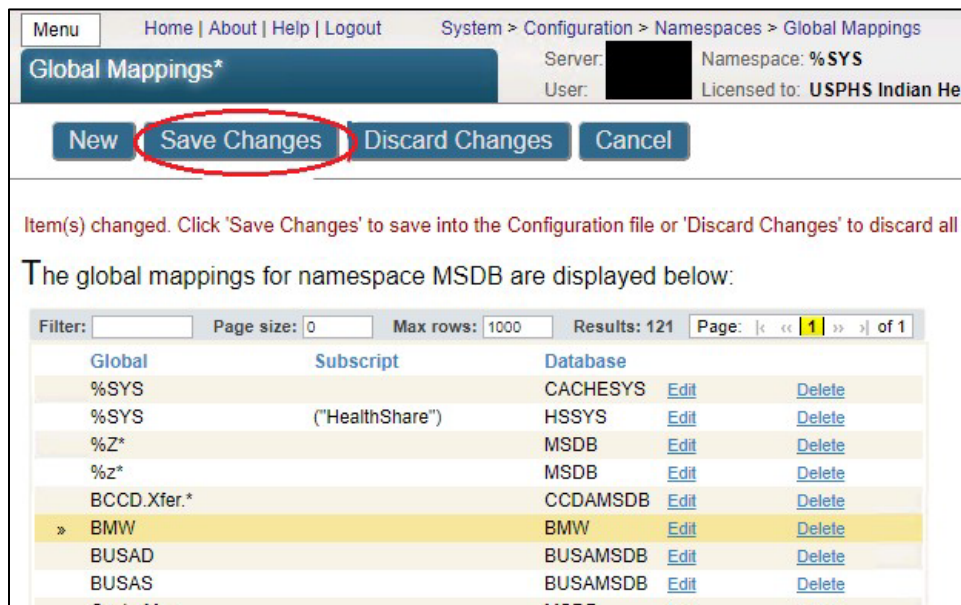


Figure 4-24: **Global Mappings** confirmation window

7. Click **Save Changes** to complete the global mapping operation.

4.5 Verify BMW Version Installed

Once installation is complete, confirm the version number of BMW that is currently installed.

1. Log into an RPMS session and go to the programmer prompt.
2. Type in the following command: **ZW ^BMW**.
3. This displays the BMW generation date and version number (Figure 4-21) that is currently installed.

```
^BMW("GenDate")="07/26/2023 14:01:50"  
^BMW("Version")=2023.4  
^BMW("fm2class", "Version")=2.39
```

Figure 4-25: Example of the BMW version from the RPMS programmer prompt

5.0 Installing File Updates

BMW CACHE.DAT file updates are released on a periodic basis to address reported issues and to add enhancements. Follow the steps in Sections 5.1 through 5.5 to install a **BMW CACHE.DAT** update.

5.1 Updating the BMW CACHE.DAT File

Follow the steps in Sections 5.1.1 through 5.1.10 to import a new **BMW CACHE.DAT** file.

5.1.1 Acquire the Latest BMW CACHE.DAT File

Acquire the latest **BMW CACHE.DAT** file from the IHS FTP site.

5.1.2 Unzip the BMW CACHE.DAT ZIP File

Using the appropriate software, unzip the compressed file containing the **BMW CACHE.DAT** file. Unzip this file on a workstation or other local machine, not on the database server. After it is unzipped, it is moved to the database server. After it has been moved, the **BMW CACHE.DAT** file is mounted onto the Ensemble/Cache server.

5.1.3 Stop the BPRM Web Site on the Application Server

If running the BPRM Practice Management Application Suite, it is necessary to stop the BPRM (Moonwalk) web site on the application server before installing a **BMW CACHE.DAT** file patch or update.

Follow these steps:

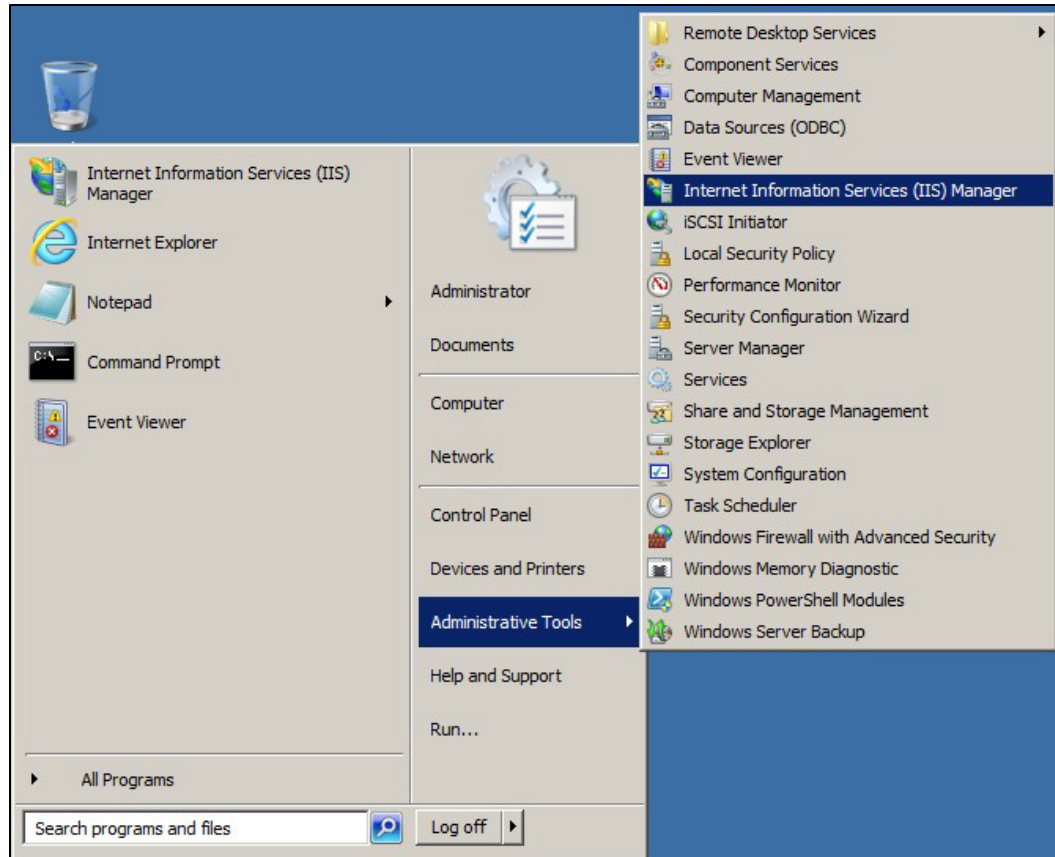


Figure 5-1: Opening **Internet Information Services (IIS) Manager**

1. Select **Internet Information Services (IIS) Manager** from the Windows Server **Administrative Tools** menu. The **Internet Information Services (IIS) Manager** window (Figure 5-2) displays.

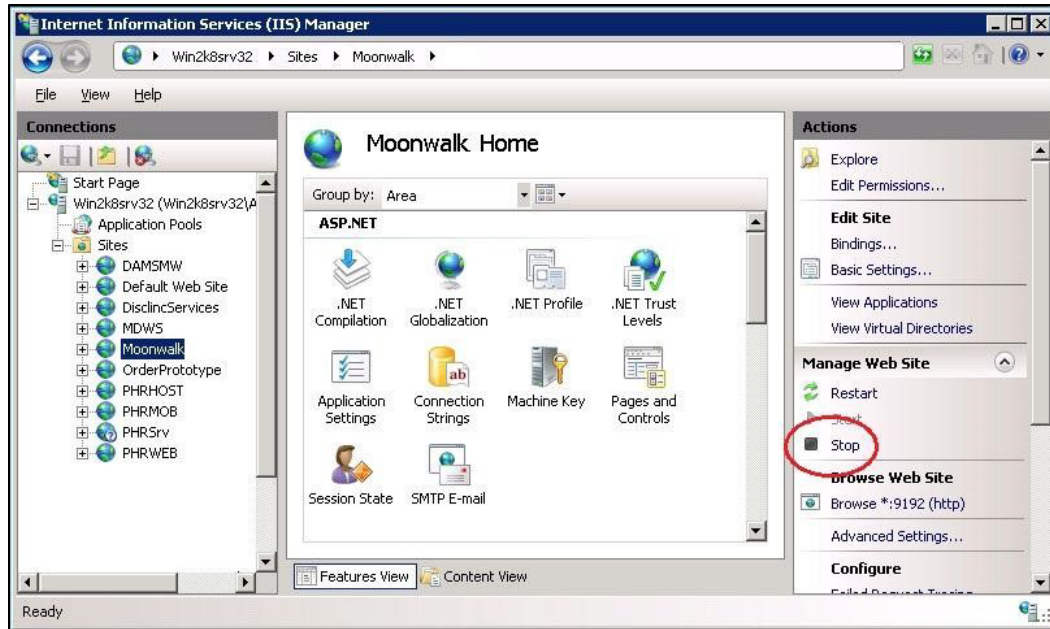


Figure 5-2: Internet Information Services (IIS) – stopping the BMW (Moonwalk) web site

2. Select the application server in the left pane (**Win2k8srv32** in the example).
3. Expand the **Sites** folder and select the **Moonwalk** site.
4. Click **Stop** in the **Manage Web Site** section in the **Actions** pane.

5.1.4 Stop CCDA Messaging

If CCDA is running, it must be stopped before updating the **BMW CACHE.DAT** file. CCDA Messaging can be stopped using the **Manage CCDA transmissions** option, available in the **CCDA Menu** (Figure 5-3). The **CCDA Menu** can be accessed from the regular “OPTION NAME” prompt in RPMS.

```
Select CCDA Menu Option: MANG Manage CCDA transmissions C Messaging
status:
No configuration problems found

CCDA processing task is running

Stop CCDA? No// Y (Yes)
Attempting to stop CCDA....CCDA stopped
```

Figure 5-3: Stopping CCDA Messaging

1. At the “Select CCDA Menu Option” prompt, type **MANG** (Manage CCDA transmissions) and press Enter.
2. If CCDA Messaging is running, type **YES** at the “Stop CCDA?” prompt.

5.1.5 Stop CCDA Production

To stop CCDA production if it is currently running:

1. Sign on to Ensemble’s **Management Portal** as an administrator. At the top center, the main page displays the server name, the current user, the current namespace, license and instance information, and a **Switch** link.

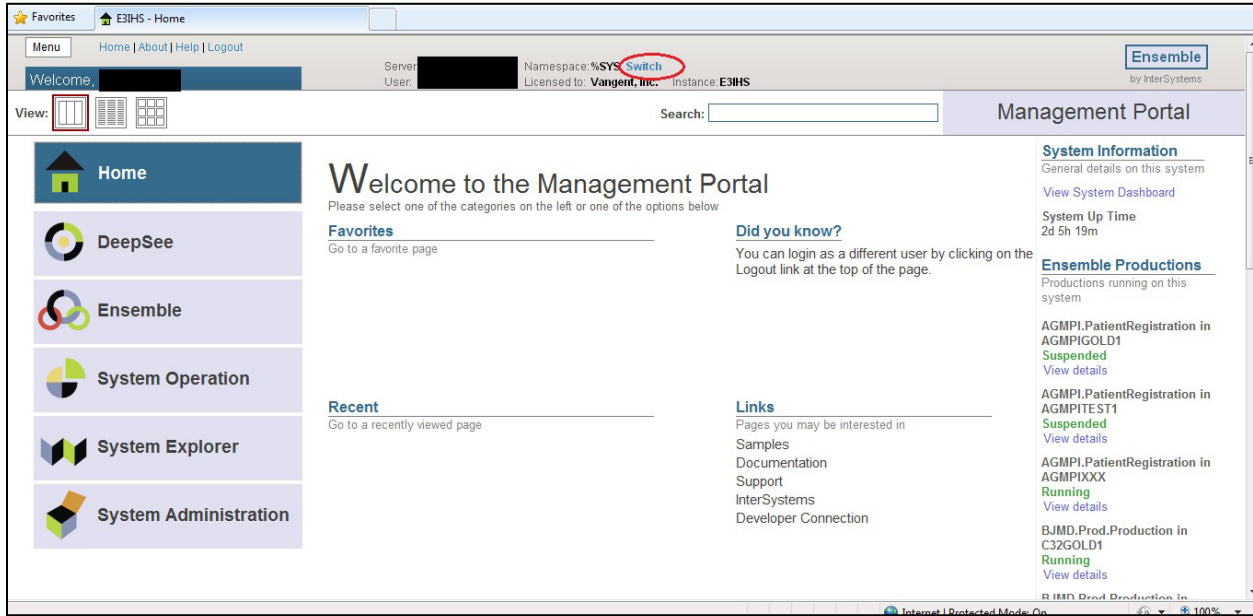


Figure 5-4: Ensemble Management Portal

2. Click the **Switch** link. The **Namespace Chooser** dialog (Figure 5-5) displays.

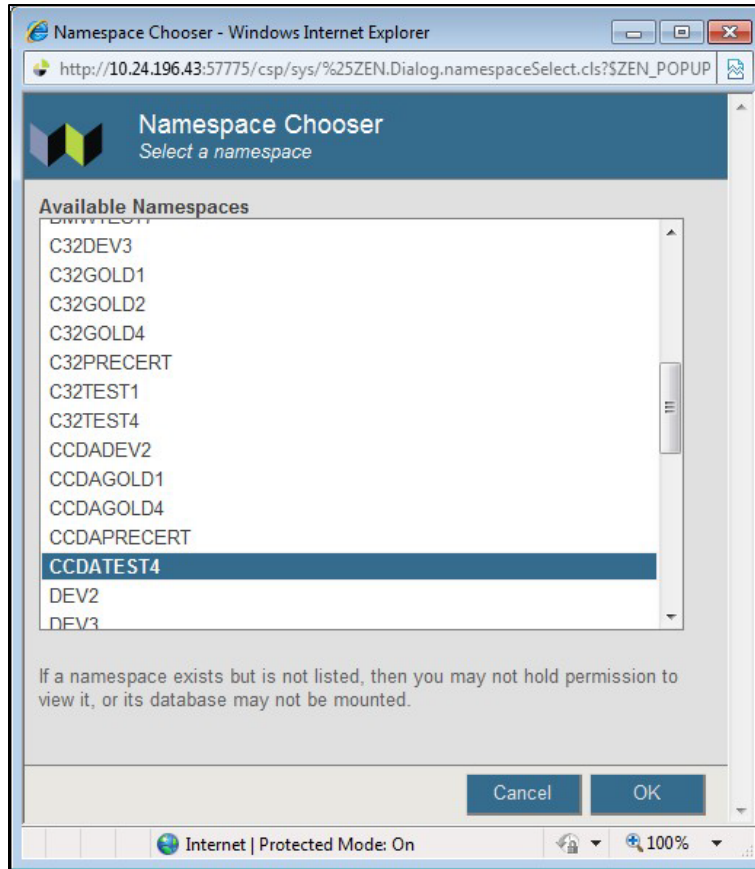


Figure 5-5: **Namespace Chooser** dialog

3. Select the appropriate CCDA namespace. The namespace consists of **CCDA** followed by the name of the RPMS namespace. In the example, the RPMS namespace is named **TEST4**, so the associated CCDA namespace is named **CCDATEST4**.
4. Click **OK** to select the namespace. The namespace displayed on the **Management Portal** page (Figure 5-6) is updated to reflect the selection.

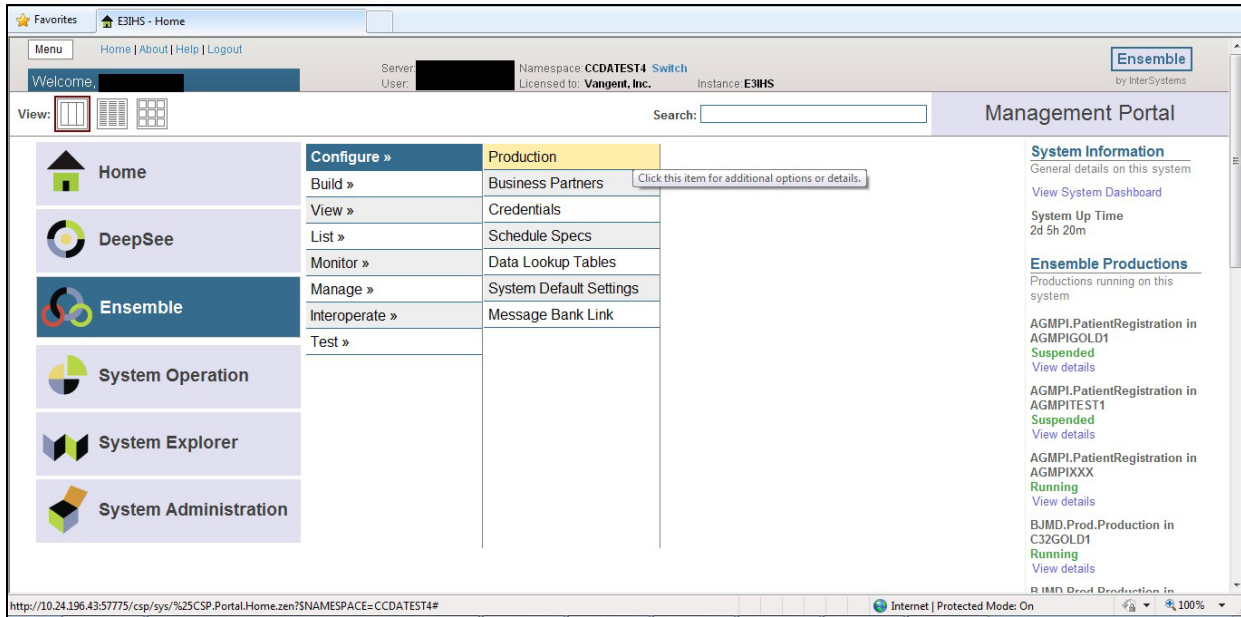


Figure 5-6: Production option in the Ensemble Management Portal

5. Select **Ensemble** in the left column.
6. Select **Configure**.
7. Select **Production**.
8. When the **View, Edit, Start, or Stop a Production** option displays, click **Go** to display the **Production Configuration** page (Figure 5-7).

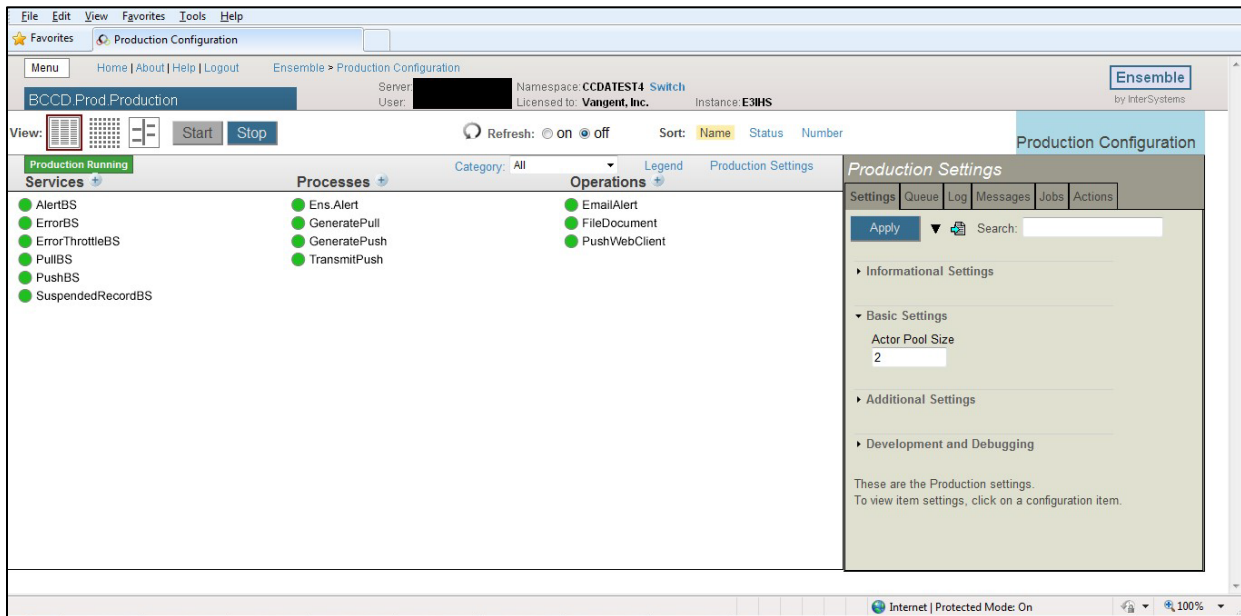


Figure 5-7: Production Configuration

9. Above the **Services** column on the left of the display, the words **Ensemble Running** will display. If the words **Ensemble Stopped** display, then the production is already stopped. Otherwise, click **Stop**. The **Stop Production** dialog (Figure 5-8) displays.

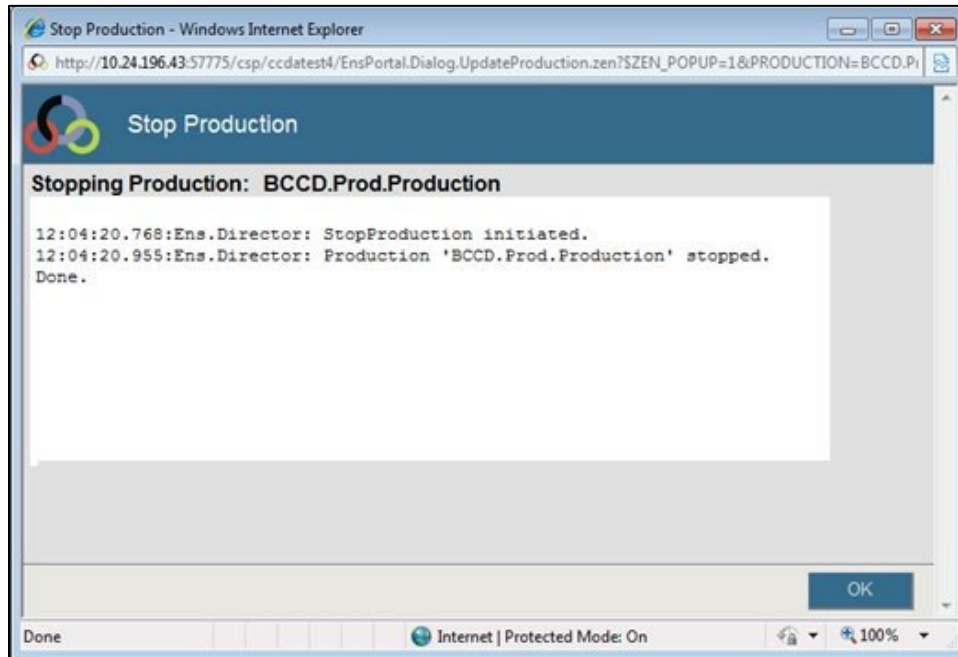


Figure 5-8: **Stop Production** dialog

It might take the production a few seconds to stop. When it stops, the message **Production ‘BCCD.Prod.Production’ stopped** displays, followed by the message **Done**. There might be additional messages on this screen if it takes Ensemble more than a few seconds to stop all associated processes.

10. Click **OK** to return to the **Production Configuration** screen.

5.1.6 Stop BQRE Extract

Make sure there is no BQRE extract in process during the install/update of BMW.

5.1.7 BUSA Reports

BUSA reports may not display data during install/update of BMW. It does not, however, effect the auditing part of BUSA.

5.1.8 Dismount the BMW Database on the Database Server

1. From the Ensemble/Cache **System Management Portal Home** window, click **System Operation > Databases** to display the **Databases** window (Figure 5-9).

The following is a list of the local databases:

Name	Directory	Max Size (GB)	Size (MB)	Status	Encrypted	Journal
CACHESYS	c:\intersystems\cache\mgr\	Unlimited	170	Mounted/RW	No	Yes
CACHELIB	c:\intersystems\cache\mgr\cache\lib\	Unlimited	324	Mounted/R	No	No
CACHETEMP	c:\intersystems\cache\mgr\cachetemp\	Unlimited	240	Mounted/RW	No	No
CACHE	c:\intersystems\cache\mgr\cache\	Unlimited	11	Mounted/RW	No	No
CACHEAUDIT	c:\intersystems\cache\mgr\cacheaudit\	Unlimited	1	Mounted/RW	No	Yes
BMW	D:\DBs\BMW\	Unlimited	3008	Unmounted	No	No
BMW-2012	d:\ihs\ihs db\bmw-2012\	Unlimited	2377	Mounted/RW	No	No
DOCBOOK	c:\intersystems\cache\mgr\docbook\	Unlimited	133	Mounted/RW	No	No
EBCI	h:\ebci-cache\	Unlimited	20000	Mounted/RW	No	Yes
PRD	d:\ihs\ihs db\prd\	13.281	11450	Mounted/RW	No	Yes
SAMPLES	c:\intersystems\cache\mgr\samples\	Unlimited	71	Mounted/RW	No	No
USER	c:\intersystems\cache\mgr\user\	Unlimited	1	Mounted/RW	No	Yes

To filter: enter the first one or more characters of a database name followed by [Tab]. For example: C for all database names starting with letter 'C'.

Figure 5-9: Dismounting the BMW database

2. Click **Dismount** in the **BMW** row to dismount the database.

5.1.9 Move the New CACHE.DAT File

After unzipping the compressed file as described in Section 5.1.2, move the **CACHE.DAT** file contained within it to the **/BMW** folder where earlier versions of the file have been stored. If installing on a Windows database server, this file move can be done directly through the network or via Remote Desktop Connection, depending on site requirements. On an AIX database server, it may be necessary to use FTP or a similar file transfer program to move the file.

File permissions may need to be set for the new **CACHE.DAT** file on an AIX system. See Section 4.2.5 for the steps.

5.1.10 Mount the BMW Database

To mount the BMW database:

1. From the Ensemble/Cache **System Management Portal Home** window, click **System Operation > Databases**. A **Databases** window similar to Figure 5-10 displays.

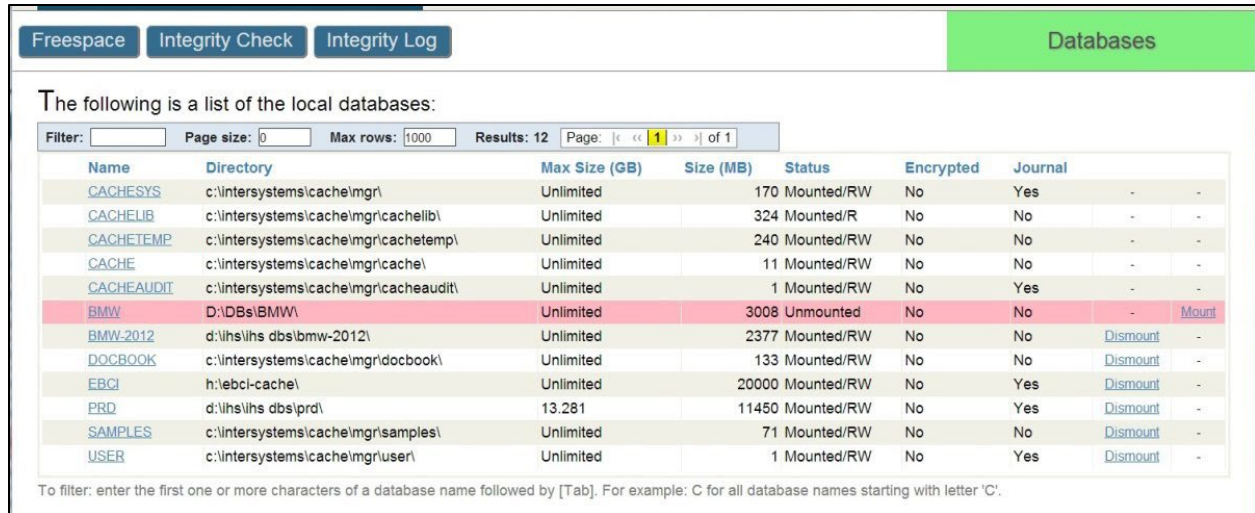


Figure 5-10: System Management Portal Databases window

2. If the Status column for the BMW database displays Unmounted, click Mount. The confirmation dialog (Figure 5-11) displays.

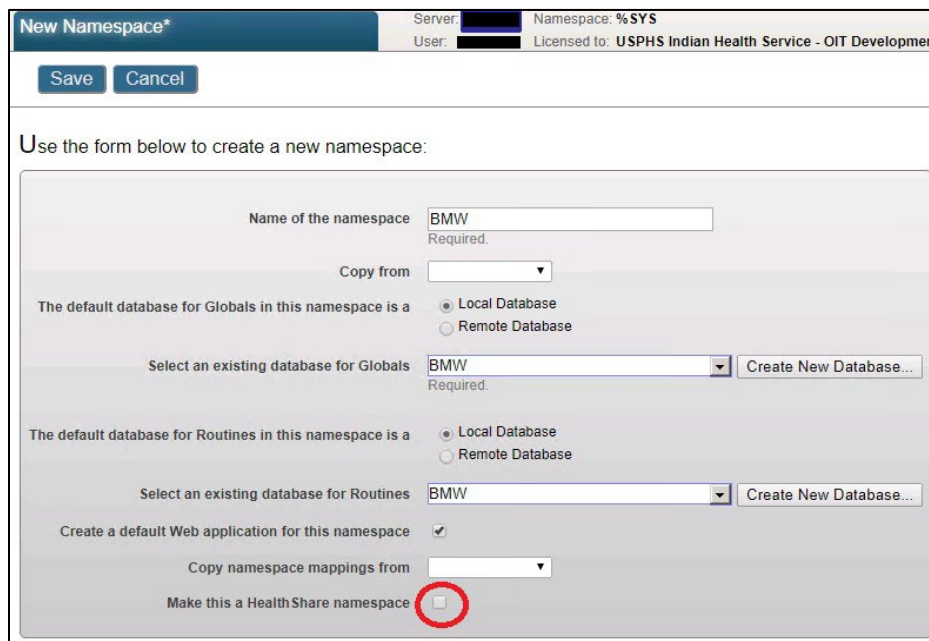


Figure 5-11: Mount Database dialog

5.2 Purge the Previous SQL Queries

To clear any previous SQL queries for your RPMS database:

1. From the Ensemble/Cache System Management Portal Home window, click System Explorer > SQL. The Schemas page (Figure 5-12) displays.

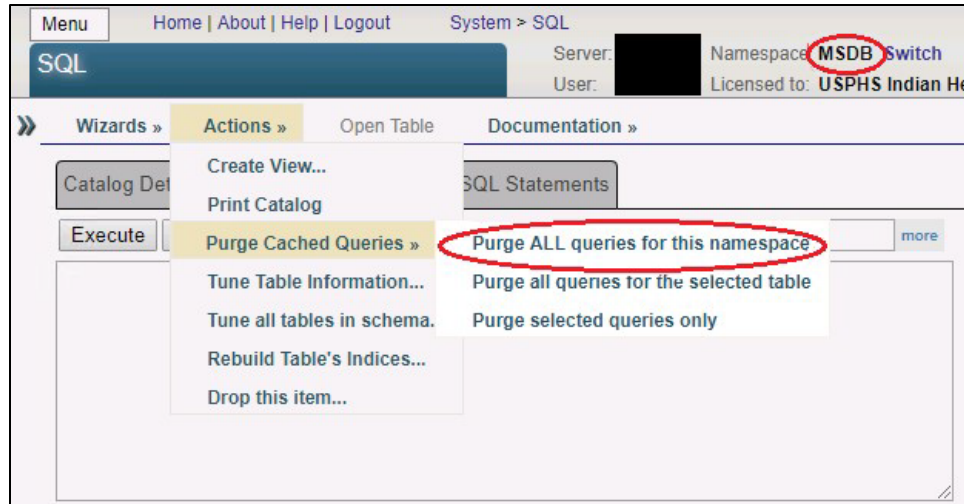


Figure 5-12: Purge Queries – HealthShare 2017 systems

2. Select the RPMS namespace. In the example shown, **MSDB** is selected. Your database will likely have a different name.
3. Click **Purge ALL Queries for this namespace**.

5.3 Re-import BPRM XML

BPRM xml code files, when imported, physically reside in BMW database. The BMW database does not come with any module-dependent XML code files. The BPRM xml import file that is associated with BPRM version that is running at the site should be re-imported after updating BMW database. Please do refer to relevant BPRM install manual import/install xml section.

5.4 Start the BPRM Web Site on the Application Server

If running the BPRM Practice Management Application Suite, restart the BPRM web site. Follow the steps outlined in Section 5.1.3, but select the **Start** option in Step 2.

5.5 Re-import BQRE XML

BQRE xml code files, when imported, physically reside in the BMW database. The BMW database does not come with any module-dependent XML code files. The BQRE xml import file that is associated with the BQRE version that is running at the site should be re-imported after updating the BMW database. Please refer to the Manual Import/Install XML section of the *BQRE Installation Manual*.

5.6 Start CCDA Messaging

If CCDA was previously running, restart it by following the steps outlined in Step 2 of Section 5.1.3 and typing YES at the “Start CCDA?” prompt as shown in Figure 5-13:

```
Select CCDA Menu Option: MANG Manage CCDA transmissions CCDA status:
No configuration problems found

CCDA processing task is not running

Start CCDA? No// YES (Yes)
Attempting to start CCDA (JUL 16, 2013@16:09:54)..CCDA started
```

Figure 5-13: Starting CCDA messaging

5.7 Starting CCDA Production

When CCDA messaging is started via the **Manage CCDA Transmissions** option, the CCDA production will start automatically within two minutes.

5.8 Verify BMW Version Installed

Once the installation is complete, confirm the version number of BMW that is currently installed.

1. Log into an RPMS session and go to the programmer prompt.
2. Type in the following command: ZW ^BMW.
3. This will display the BMW generation date and version number (Figure 5-14) that is currently installed.

```
^BMW("GenDate")="07/26/2023 14:01:50"
^BMW("Version")=2023.4
^BMW("fm2class","Version")=2.39
```

Figure 5-14: Example of BMW version from RPMS programmer prompt

5.9 Enable/Start Dependent Applications

BQRE extracts can be resumed.

BUSA reports shall display data.

Acronym List

Acronym	Term Definition
BMW	RPMS/Ensemble Cache Classes Database File
FTP	File Transfer Protocol
IHS	Indian Health Service
OIT	Office of Information Technology (IHS)
RPMS	Resource and Patient Management System
SQA	Software Quality Assurance (OIT)

Contact Information

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