

RESOURCE AND PATIENT MANAGEMENT SYSTEM

Electronic Clinical Quality Measures Export Tool

(BQRE)

Installation Guide and Release Notes

Version 8.0
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Preface

This manual describes the installation of the Electronic Clinical Quality Measures (eCQM) Export Tool (BQRE).

BQRE is a browser-enabled Graphical User Interface (GUI) for the Indian Health Service (IHS) deployed locally on an application server for extracting eCQM measures data from IHS-site Resource and Patient Management System (RPMS) databases. It provides functionality to extract Quality Reporting Document Architecture Category I (QRDA I) files that can be securely transmitted to the eCQM Engine (ECQM) to generate QRDA Category III (QRDA III) files to submit to reporting entities.

1.0 Release Notes

Prefix: BQRE

Current Version: 8.0

This is the sixth release of the locally deployed BQRE eCQM Export tool as defined by the following change requests:

Table 1-1: Change Requests

Feature ID	Title
111856	BQRE: Test/Production Flag in UI
111048	BQRE: NLM Value Set Updates for 2025
111047	BQRE: QDM Updates for 2025
111049	BQRE: QRDA CAT-I Implementation Guide Updates for 2025
111046	BQRE: Revise Data Entry Sheets for 2025
111050	BQRE: Regression Test for Existing Measures for 2025
108422	BQRE: Implement Extract Logic for CMS826v2 – Hospital Harm – Pressure Injury EH Measure
108423	BQRE: Implement Extract Logic for CMS832v2 – Hospital Harm – Acute Kidney Injury EH Measure
112270	BQRE: Review Application for Deprecated Code Versions and JQuery Risks

1.1 Contents of Distribution

Table 1-2: Distribution files and descriptions

File	Description
bqre0800.install.msi	BQRE Application Installer
bqre0800.xml	BQRE Data Description File
bqre080i.pdf	BQRE v8.0 Installation Guide and Release Notes
bqre080t.pdf	BQRE v8.0 Technical Manual
bqre080u.pdf	BQRE v8.0 User Manual

1.2 Required Resources

This section lists the computer resources required for each deployment strategy.

1.2.1 Local Application Server Resources

For the BQRE/ECQM local install option, *do not* install on the same server as BPRM. However, the ECQM Application (IIS) and Database (RavenDB) and BQRE could be installed on ONE machine. The minimum specification for that server is Window OS with Microsoft .NET Core Runtime version 8.0+ and above with 2.4 Ghz+ quadcore with 8-12 GB RAM and 60 GB free space.

For the BQRE local / ECQM central option, the BQRE could be installed on BPRM application server. The minimum specification for that server is Window OS with Microsoft .NET Core Runtime version 8.0+ and above with 2.4 Ghz+ quadcore with 8-12 GB RAM and 60 GB free space.

1.2.2 Browser Standard

The following browsers are recommended for any workstations accessing the BQRE Extract tool:

- Google Chrome® Version 68 or higher
- Microsoft Edge
- Mozilla Firefox

1.3 Before You Begin: Installation Issues

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

1.4 BQRE Prerequisites

- AUM–v25.0 p4
- AVA–v93.2 p29
- BCQM–v1.0 p13
- BMC–v4.0 p14
- BMW–v2024.4 or later
- BJPC–v2.0 p30
- DTS–Cycle 64
- HealthShare–2017.2.x or IRIS-2022.1.x

2.0 Installation Overview

The BQRE v8.0 installation requires two files. The bqre0800.xml data description file and the bqre0800.install.msi application installation file are specific to the eCQM Export Tool. These two files are included in the BQRE distribution package.

1. Install bqre0800.xml. Follow instructions in Section 3.2.
2. Install bqre0800.install.msi. Follow instructions in Section 3.3.

Warning: Previous versions of BQRE must be un-installed from the Control Panel and the server restarted, if prompted, before proceeding.

The local RPMS database and Ensemble instance need to be accessible from the application server on which the BQRE installation is locally deployed.

3.0 BQRE Installation and Configuration

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

3.1 Assumptions

This section assumes the following:

- The Ensemble/IRIS server is already set up.
- An RPMS database is already set up on the Ensemble/IRIS server.
- The person performing the installation and configuration has the appropriate rights to mount databases, create a namespace, and edit namespace settings for the RPMS database.
- The BMW IRIS.DAT file as described in the *BMW IRIS.DAT Installation Guide* is installed.

3.2 Import a New BQRE XML File

A separate XML file is included with the release; follow the steps in Sections 3.2.1 through 3.2.2 to import a new BQRE XML file.

3.2.1 Disable Read Only

To import the bqre0800.xml file, you 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 Ensemble Management Portal following this path:

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

Figure 3-1: Browsing path to Local Databases window

2. Click **Edit** in the row corresponding to the BMW database.
3. In the displayed window, set the **Read Only** field to **No**.

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

3.2.2 Import the BQRE XML File

To import the **bqre0800.xml** file, do the following:

1. From the **Ensemble/IRIS System Management Portal Home** window, click **System Explorer**, then **Classes**. The **Classes** dialog displays (Figure 3-2).

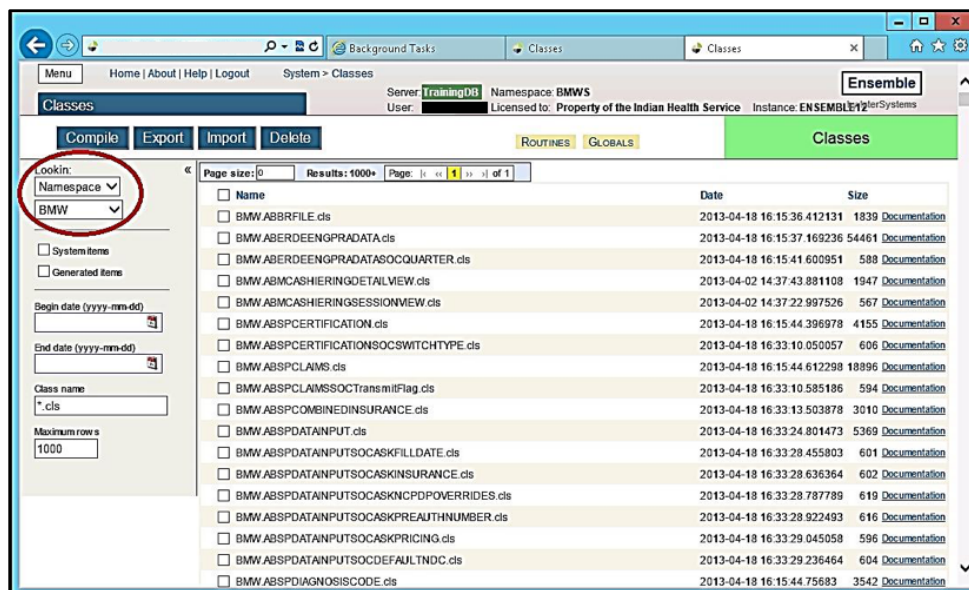


Figure 3-2: Classes dialog

2. Select the **BMW** namespace in the **LookIn** pane in the upper-left corner of the dialog.
3. Click **Import**. The **Import Classes** dialog displays (Figure 3-3).

IMPORT CLASSES User BPRMA
Namespace BPRMA

Import classes to namespace BPRMA.

The import file resides on
☐ IHSZUDITDECQM1 ☒ My Local Machine

Import from a File or a Directory:
☒ File ☐ Directory

Select the path and name of the import file:
 bqre0800.xml

☒ Compile imported items -- Compile flags
☒ Run import in the background
(Highly recommended for importing large files.)

Figure 3-3: Import Classes dialog

- Click **Browse** and navigate to the **bqre0800.xml** file in the folder where it was saved in Section 2.0.
- Select the **bqre0800.xml** file and click **Next**.
- A listing displays (Figure 3-4) showing the contents of the XML file.

Warning: If installing in a non-HealthShare environment, then uncheck the **BMW.NEWBORN9000106490000106411.cls** file before clicking **Import**.

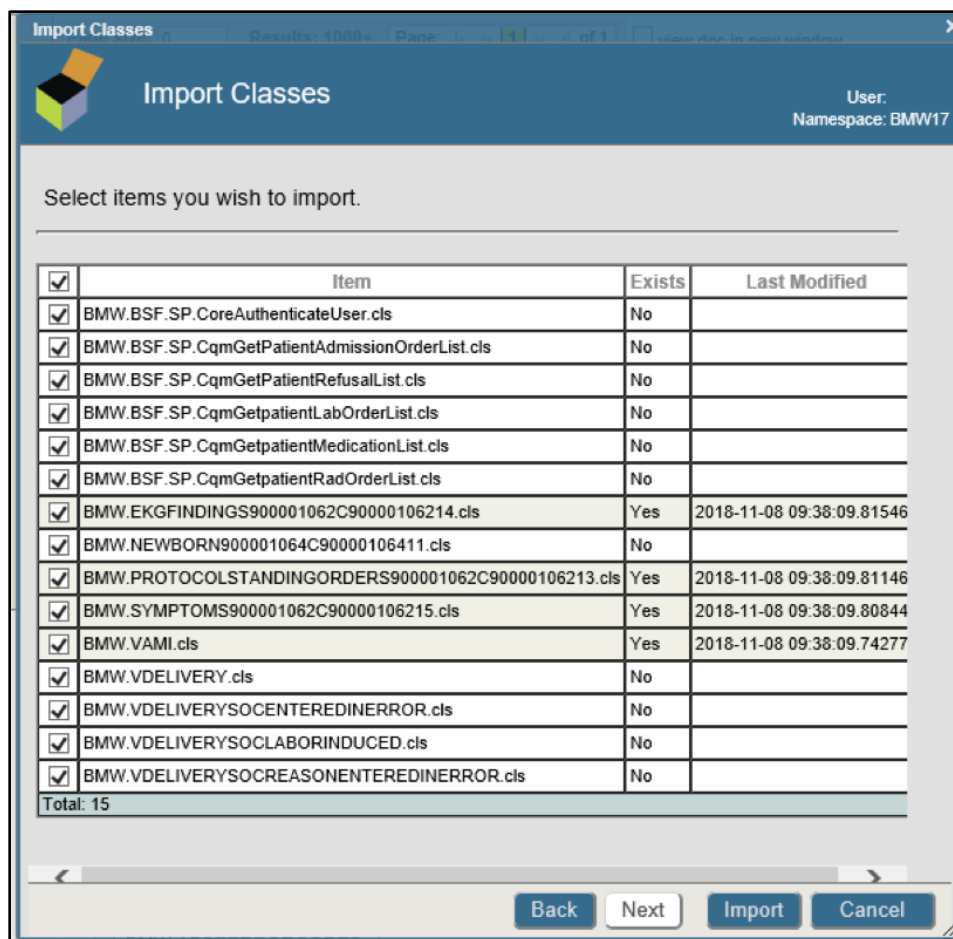


Figure 3-4: Import Classes window–Content listing

- Click **Import**. After a few moments of processing, a listing of the imported classes displays (Figure 3-5).

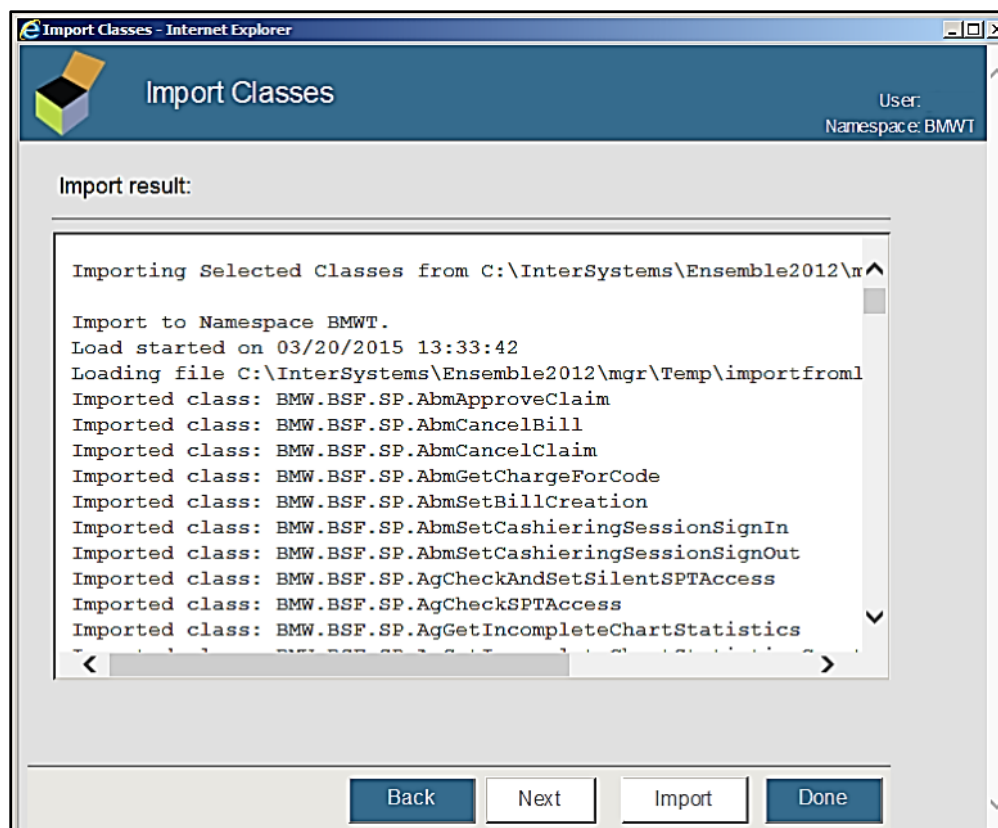


Figure 3-5: Import Classes window–Import result listing

8. Scroll to the bottom of the listing to confirm that the **Load finished successfully** message displays (Figure 3-6).

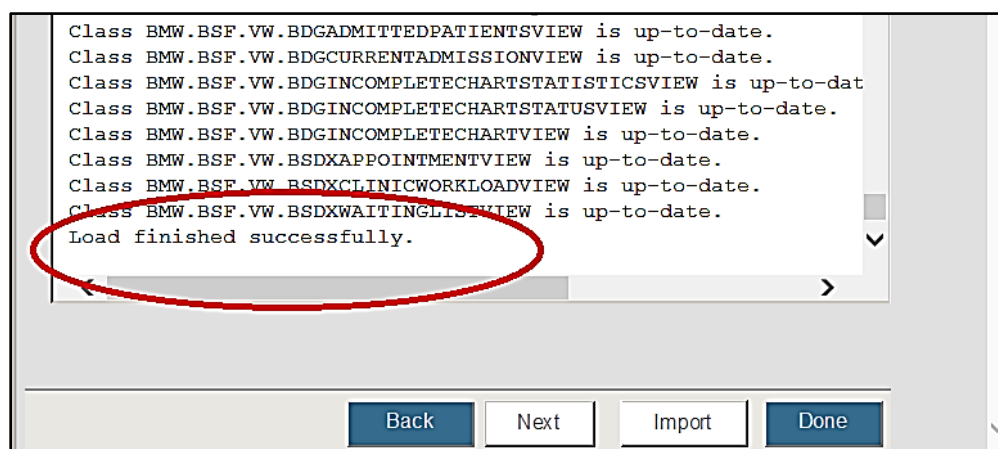


Figure 3-6: Import Classes window–Load finished successfully

9. Click **Done** to close the window. At this point, the BMW database configuration is complete.

3.3 Install the MSI File

To install the BQRE Application:

1. Navigate to the location where the **BQRE Application Installer** file (**bqre0800.install.msi**) is stored.
2. Copy the MSI file to the application server (Windows operating system).
3. Double-click the MSI file.
4. In the **Setup Wizard** dialog (Figure 3-7), click **Next**.

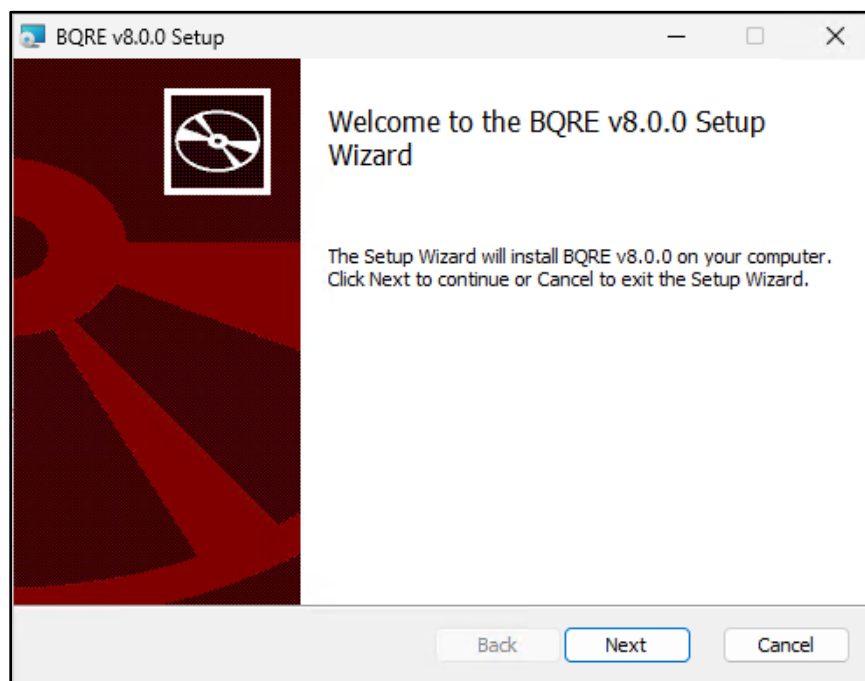


Figure 3-7: BQRE v8.0 Setup window

5. In the **BQRE v8.0 Setup** dialog (Figure 3-8), click **Finish**.
6. If setup says that **BQRE** is already installed, please go to Appendix A.2 for uninstalling existing version of **BQRE**.

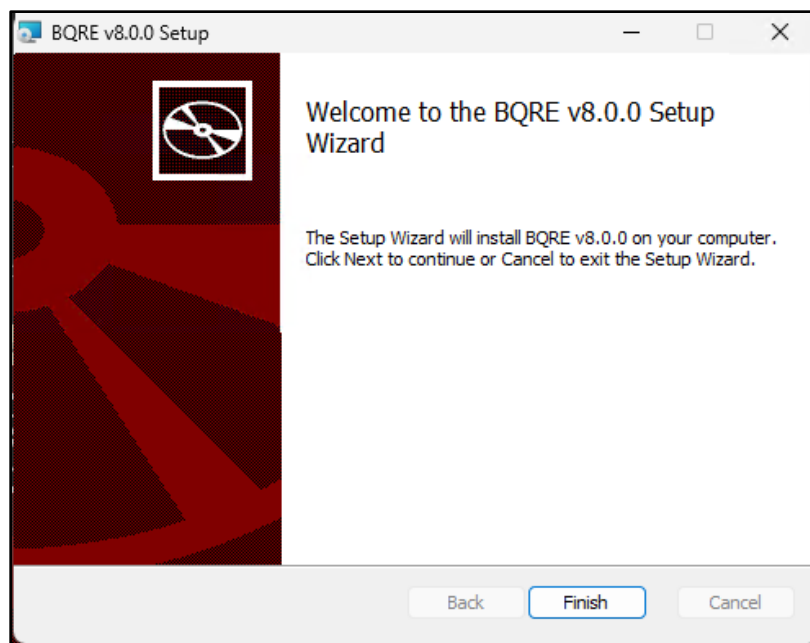


Figure 3-8: Completed the BQRE v8.0 Setup Wizard window

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

3.4 Configuration

3.4.1 QRDA Storage Directory

On the site application server, a storage directory must be configured by site staff to store the exported QRDA 1 and QRDA III files. This directory can optionally be shared with eCQM Export Tool (BQRE) users. All applicable security protocols should be enforced to ensure that the patient data is restricted to those who will submit files to the eCQM Engine or other registries as required by the site.

Configuration of this directory is performed in two steps:

1. Create a folder on an appropriate drive on the application server (e.g., **D:\QrdaStorage**).
2. When configuring the site profile settings in the eCQM Export Tool (BQRE), provide the **QRDA storage path** and save the changes.

3.5 Confirm Application Launch and Application version via Logon

Open your internet browser and type in the **IP address** of the application server where eCQM Export Tool (BQRE) is installed. The default port for eCQM Export Tool (BQRE) is **37019** (e.g., <http://IPAddressofBQREApplicationServer:37019>).

Verify Application version is BQRE 8.0.0.0 (Figure 3-9).

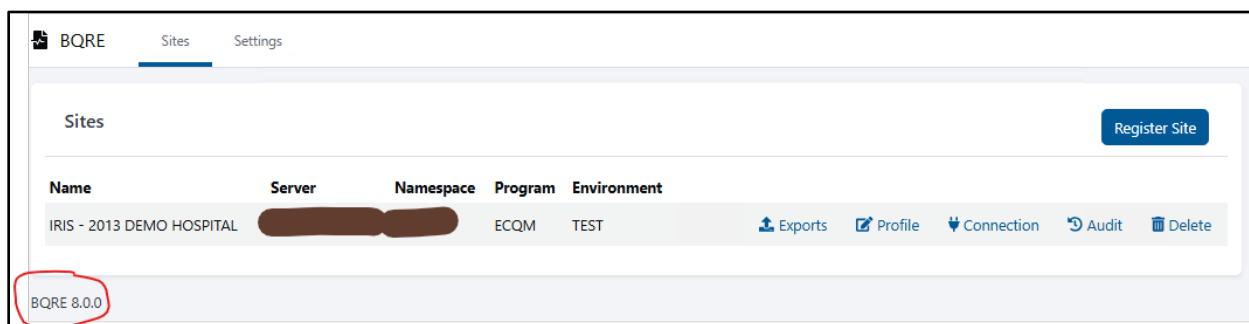


Figure 3-9: BQRE Sites list

Note: Figure 3-9 displays the **Sites** list with one site set up. When accessing this screen for the first time, the list will be empty.

Refer to the *eCQM Export Tool (BQRE) User Manual* for details on the process of registering the first site.

Appendix A Installing and Uninstalling MSI File from the Command Prompt (as Administrator)

Warning: Previous versions of BQRE must be un-installed from the Control Panel (or Command Prompt–Administrator Mode) and the server restarted, if prompted, before proceeding.

A.1 Run the Application Installer

1. Navigate to **C:\Windows\system32** on your application server.
2. Locate the **cmd.exe** file, right-click, and select **Run as Administrator**.
3. Navigate to the location where the **BQRE Application Installer** file (**bqre0800.install.msi**) is saved, as shown in the example below:

```
C:\Windows\system32>cd C:\Temp\BQRE
```

Figure A-1: File location for BQRE Application Installer

4. At the resulting prompt, type the **name** of the installation file (**bqre0800.install.msi** in this example) and press Enter.

```
C:\Temp\BQRE>bqre0800.install.msi
```

Figure A-2: Enter name of the installation file in prompt

This will launch the **BQRE Setup Wizard**

5. In the **Setup Wizard** dialog (Figure A-3), click **Next**.

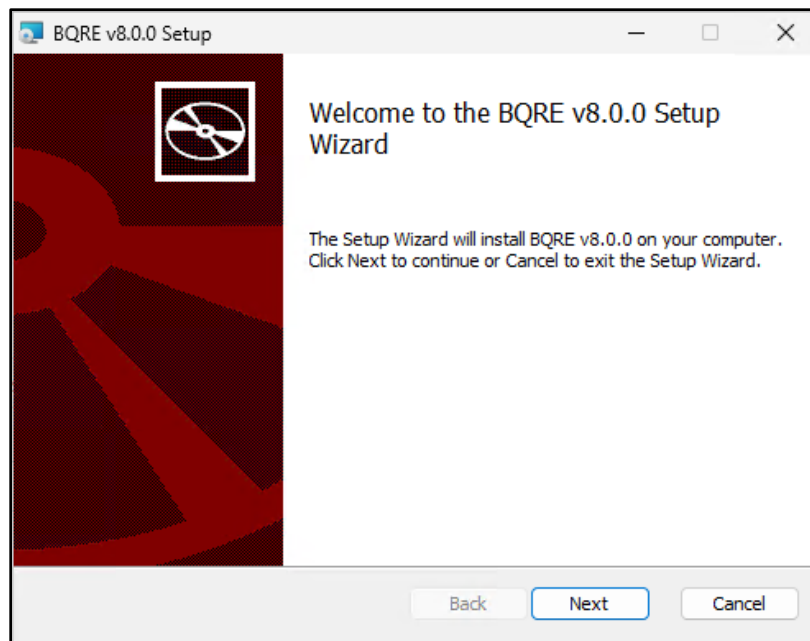


Figure A-3: BQRE v8.0 Setup window

6. In the **BQRE v8.0 Setup** dialog (Figure A-4), click **Finish**.

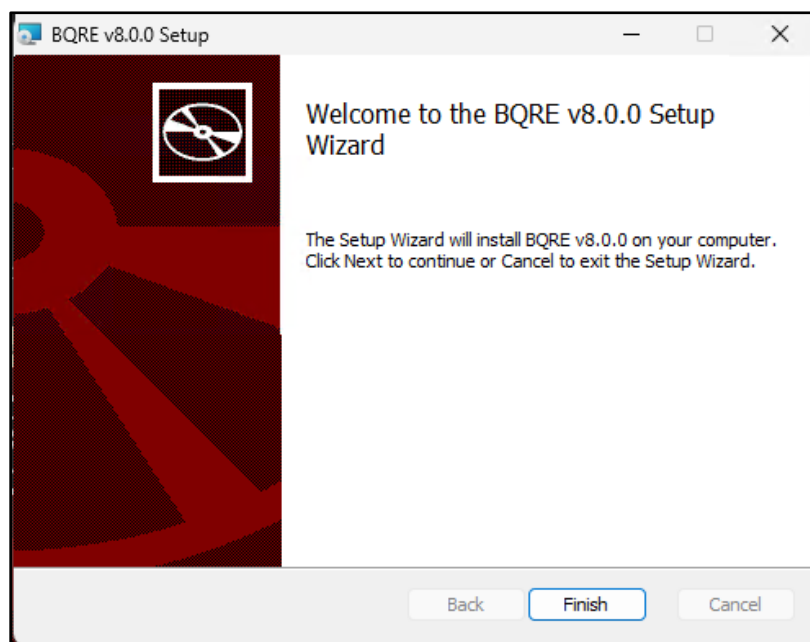


Figure A-4: Completed the BQRE v8.0 Setup Wizard

7. Open the **%ProgramFiles%** folder, usually found at **C:\Program Files (x86)**.
8. Confirm that the **%ProgramFiles%** folder contains the **BQRE** folder.

9. Open the **System Services** list (**Administrative Tools > Services**).
10. Confirm that **BQRE_Extraction_Service** is in the **Services** list.
11. Confirm that **BQRE_Extraction_Service** is running.

A.2 Uninstall the Existing BQRE Application

Go to **Programs and Features** in the **Control Panel**, find BQRE and Uninstall the program. Once Uninstall is complete, go to the directory **C:\Program Files (x86)\BQRE** and delete everything remaining in the **BQRE** directory. If uninstall fails, please follow the steps below:

1. Download and run the [Microsoft Install Uninstall Utility](https://support.microsoft.com/en-us/help/17588/windows-fix-problems-that-block-programs-being-installed-or-removed) (<https://support.microsoft.com/en-us/help/17588/windows-fix-problems-that-block-programs-being-installed-or-removed>) prior to running the command prompts.
2. Navigate to **C:\Windows\system32** on your application server.
3. Locate the **cmd.exe** file, right-click and select **Run as Administrator**.
4. To uninstall the existing **BQRE .msi** file, run the following command:

```
msiexec /x bqre0800.install.msi
```

Figure A-5: Uninstall existing BQRE msi file

5. To manually remove the existing **BQRE Service**, run the following command (name of the Service must match exactly as it appears under **Administrative Tools > Services**):

```
sc delete "BQRE_Extraction_Service"
```

Figure A-6: Run command to remove existing BQRE Service

6. If successful, the following message should display:

```
[SC] DeleteService SUCCESS
```

Figure A-7: Message prompt on successful removal of BQRE Service

7. Navigate to **Control Panel > Programs and Features (or Add / Remove Programs)**.
8. Confirm that **BQRE Application** is no longer displayed.
9. Open the **%ProgramFiles%** folder, usually found at **C:\Program Files (x86)**.

10. Confirm that the **%ProgramFiles%** folder no longer contains the **BQRE** folder.
11. Open the **System Services** list (**Administrative Tools > Services**).
12. Confirm that **BQRE_Extraction_Service** is *not* listed in the **Services** list.

Acronym List

Acronym	Term Definition
CQM	Clinical Quality Measure
eCQM	Electronic Clinical Quality Measures
DTS	Distributed Terminology Services
IHS	Indian Health Service
MIPS	Merit-based Incentive Payment System
MSI	Microsoft Installer
OIT	Office of Information Technology
QPP	Quality Payment Program
QRDA	Quality Reporting Document Architecture
RPMS	Resource and Patient Management System
SQA	Software Quality Assurance
XML	Extensible Markup Language

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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Email: itsupport@ihs.gov