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Preface

This manual describes the installation of the Electronic Clinical Quality Measures (eCQM) Engine (Namespace ECQM) and additional support software needed.

ECQM is a browser-enabled graphical user interface (GUI) for the Indian Health Service (IHS) deployed either locally on-site application servers or centrally on an Albuquerque Data Center application server for calculating eCQM measures submitted by IHS sites. It provides functionality to import QRDA CAT-I files and generates QRDA CAT-III files to submit for CMS reporting.
1.0 Release Notes

This is a small update to the fourth release of the centrally deployed eCQM Engine tool as defined by the following features:

- 82363 ECQM – Medications discontinued before start date
- 82361 ECQM – Invalid values in Measurements (V_MEASUREMENT)
2.0 Installation Notes

Prefix: ECQM
Current Version: 4.0 Patch 1

2.1 Contents of Distribution

Table 2-1: Distributed files and descriptions

<table>
<thead>
<tr>
<th>File</th>
<th>Description</th>
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<tr>
<td>ecqm0400.01.install.zip</td>
<td>eCQM Application bundle</td>
</tr>
<tr>
<td>ecqm0400.01_RavenDB.zip</td>
<td>eCQM RavenDB zipped bundle</td>
</tr>
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<td>ecqm.reference.2020 2020-10.ravendbdump</td>
<td>RavenDB bundle</td>
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<tr>
<td>ecqm.reference.2021 2021-08.ravendbdump</td>
<td>RavenDB bundle</td>
</tr>
<tr>
<td>ecqm0400.01i.pdf</td>
<td>eCQM Version 4.0 Patch 1 Installation Guide and Release Notes</td>
</tr>
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2.2 Required Resources

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

2.2.1 Application Server Resources

The eCQM Engine software has two components: the eCQM Web Application and an eCQM database. For local site installs, these two components should be installed on one machine (single tier), which is described in this installation guide. For the centralized service deployment in the Albuquerque Data Center, two separate machines (multi-tier) are needed, for installation by the CSMT and eCQM Project Teams.

There are two potential configurations for the eCQM setup as follows:

- **BQRE/ECQM Local Install – Do not install** on the same server as BPRM. The ECQM Application (IIS) and Database (RavenDB) and BQRE can be installed on the same machine.

- **BQRE local/ECQM central option** – BQRE can be installed on the BPRM application server.

The following resources are required for both a single-tier and multi-tier application server:

- Microsoft® Windows® 2012 R2 Server x64 bit (or later)
- Microsoft IIS® 8.5 or10
- Windows PowerShell 5.1 or higher
• .NET Framework 4.5.2 or higher (required for PowerShell 5.1)
• .NET Core 3.1.8
• Microsoft Visual C++ 2015-2019 x86
• Four processor cores running at 2.0 GHz or faster
• 8–12 GB RAM running at 1333 MHz (Multi-tier)
• 60–100 GB free disk space (disk drives should be 10K RPM or faster)

**Note:** Do not install on the same server as BPRM.

However, the ECQM Application (IIS) and Database (RavenDB) and BQRE Export Tool can be installed on **one** machine.

### 2.2.2 Browser Standard

The following browsers are recommended for any workstations accessing the eCQM application:

• Google Chrome® Version 68 or higher
• Internet Explorer Version 11.1504 or higher
• Mozilla Firefox
• Microsoft Edge

### 2.3 Before You Begin: Installation Issues

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

### 2.4 Prerequisites

**Windows PowerShell 5.1 or Later**

The RavenDB setup requires Windows PowerShell 5.1 or later.

Useful links on how to get PowerShell 5.1 can be found here:

• [https://docs.microsoft.com/en-us/powershell/?view=powershell-5.1](https://docs.microsoft.com/en-us/powershell/?view=powershell-5.1)
2.5  **Microsoft .NET Framework Verification**

As mentioned in Section 2.2.1, Microsoft .NET Framework 4.5.2 or higher is required on the ECQM application server. To determine if it is already installed:

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

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

![Figure 2-1: Programs and Features listing](image)

3. Review the listing, looking for any **Microsoft .NET Framework 4.x** entries. If none are found, install the .NET Framework 4.5.2 (or higher) by following the instructions in Section 2.6. If Microsoft .NET Framework 4.5.2 (or higher) is listed, skip to Section 2.7.

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

2.6   **Microsoft .NET Framework 4.5.2 Installation**

To install the .NET Framework:


2. Double-click the **downloaded file** to run the **.Net Framework 4.5.2 setup**. The **License Terms** dialog (Figure 2-2) displays:
3. Select **I have read and accept the license terms** to accept the license agreement.

4. Click **Install**. Respond to any prompts presented as the installation proceeds. When completed, the **Installation Is Complete** dialog (Figure 2-3) displays.
5. Click **Finish** to complete the installation. If necessary, restart the server.

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

   **Note:** It is very important to check for and install any .NET Framework updates. These updates can be critical to the stability and security of ECQM operation.

### 2.7 Internet Information Services 7.5 (or Later) Installation

To install the Microsoft IIS:

1. From the **Windows Start menu**, select **Administrative Tools**.
2. Select **Server Manager** to display the **Server Manager** dialog.
3. Click **Roles** in the left pane. The **Roles** pane (Figure 2-5) displays.

4. If a Web server has already been set up, click **Select Roles**, and skip to **Step 7**.
5. If a Web server has not been set up, click **Add Roles** on the right pane. Review the **Before You Begin** dialog and click **Next**.

6. The **Select Server Roles** dialog (Figure 2-6) displays.

![Select Server Roles dialog](image)

Figure 2-6: Select Server Roles dialog

7. Select **Web Server (IIS)**. The **Add Roles Wizard** (Figure 2-7) displays.

![Add Roles Wizard](image)

Figure 2-7: Add Roles Wizard

8. Click **Add Required Features**. The **Web Server (IIS)** dialog (Figure 2-8) displays.
9. Click **Next**. The **Select Role Services** dialog (Figure 2-9) displays.

![Figure 2-8: Add Roles Wizard Web Server (IIS) dialog](image)

![Figure 2-9: Add Roles Wizard Select Role Services dialog](image)
10. Clear any checked boxes and enable the following role services:

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

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

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

- **Security:**
  - Request Filtering

- **Performance:**
  - Static Content Compression
  - Dynamic Content Compression

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

11. Click **Next** to display the **Confirm Installation Selections** dialog (Figure 2-10).
12. Click **Install.** The **Installation Results** dialog (Figure 2-11) displays.
13. Click **Close** to complete the installation and end the process.

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

### 2.8 .Net Core 3.1.8 Hosting Bundle

The ECQM application requires .Net Core 3.1.8 hosting bundle. To install:

1. Download the **.Net Core Runtime** installer from [https://dotnet.microsoft.com/download/dotnet-core/thank-you/runtime-aspnetcore-3.1.8-windows-hosting-bundle-installer](https://dotnet.microsoft.com/download/dotnet-core/thank-you/runtime-aspnetcore-3.1.8-windows-hosting-bundle-installer).

2. Run the installer (preferably in administrator mode).

3. Click **Install**.

4. Click **Close** after installation is successfully completed.
5. After successful install, restart the **WWW** and **WPA** services as described in the following steps.

6. To open the Command Prompt CMD in Administrator mode, right-click the **Command Prompt** and select **Run as administrator**.

7. Run the following commands in CMD:

   - **net stop was /y** – This will **stop** the WWW and Windows Process Activation service.
   - **net start w3svc** – This will **start** the WWW service.
Figure 2-15: Administrator Command prompt screen
3.0 Installation Overview

The ECQM v4.0 Patch 1 installation requires four files:

1. **ecqm0400.01.install.zip** – Application bundle

2. **ecqm0400.01_RavenDB.zip** – Database bundle for eCQM application


4. **ecqm.reference.2021 2021-08.ravendbdump** – RavenDB bundle

Save these files where accessible to the application server.
4.0 Installation Instructions: First-Time Install

ECQM contains components that run on the application server. The application operates in a Web-based environment; there is no separate installation necessary on user workstations.

4.1 Acquire the SSL Certificate

ECQM 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 may not be required but is still highly recommended.

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

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

4.1.1 SSL Certificate Acquisition – IHS Domain

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

1. Click **Start** | **Administrative Tools** | **Internet Information Services (IIS) Manager**.

2. Click the **server name**. The **IIS Manager** dialog (Figure 4-1) displays.
3. In the center panel, double-click **Server Certificates** in the **Security** section (near the bottom of the panel).

![Figure 4-1: Internet Information Services (IIS) Manager](image-url)
4. In the **Actions** panel (on the right), click **Create Certificate Request** (Figure 4-2).

![Figure 4-2: Internet Information Services (IIS) manager – Server Certificates](image)

5. The **Request Certificate Wizard** displays.

6. In the **Distinguished Name Properties** dialog, 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.
7. Click Next. The **Cryptographic Service Provider Properties** dialog (Figure 4-4) displays.
8. Leave both settings at their defaults:

   - **Cryptographic service provider**: Microsoft RSA SChannel Cryptographic Provider.
   - **Bit length**: 2048.

9. Click **Next**. The **File Name** dialog (Figure 4-5) displays.
10. Type a path and file name for the certificate request file.

**Note:** Make note of the chosen file name and the save location. You will need to open this file as a text file and copy the entire body of it (including the Begin Certificate Request and End Certificate Request tags) into the online order process when prompted.

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

12. Contact the IHS IT Service Desk to request the SSL Certificate in CER format for the ECQM Application. A certificate will be issued and e-mailed to the originator of the request. Once the certificate is received, proceed with the ECQM installation as described in Section 5.0 through Section 6.0.

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

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

Follow the steps provided by the SSL certificate vendor to acquire an SSL certificate and proceed to the ECQM installation instructions.
5.0 ECQM Application Server Installation and Configuration

5.1 Set up RavenDB
ECQM application requires RavenDB to store data.

5.1.1 Prerequisites
- **Windows PowerShell 5.1** or later is required by the RavenDB setup. This step is discussed in detail in Section 2.4.
- **Visual C++ 2015 x64** is required to complete the setup for the CqmReference database in Section 5.1.6.

5.1.2 Existing RavenDB Backup
If the site has an earlier version on ECQM locally installed, it is recommended to take backups of the following databases:

1. `ecqm.identity` (contains user settings)
2. `ecqm.config` (contains site and teams’ settings)

Please ignore these steps if the site prefers to register site, teams, and users from scratch.

Use the followings steps to take backups of each database:

1. Open the **RavenDB portal** in Chrome using the URL [http://127.0.0.1:27019](http://127.0.0.1:27019).
   a. Some sites may have a custom port (i.e., 27018) for the RavenDB.
2. Select **Databases** from the left menu.
3. Select database **ecqm.config**.
4. Click the **Settings** icon on the left menu.
5. Click **Export Database**.

6. Enter the file destination path and click **Export Database**.

7. Repeat the same steps for **ecqm.identity** database.
5.1.3 Create and Load Directory

1. Create a directory named RavenDB, preferably C:\RavenDB\, to unzip the downloaded RavenDB zip package.

2. Unzip the downloaded ecqm0400.01_RavenDB.zip into the folder created in previous step.

Figure 5-3: Creating a directory to unzip file
3. Make sure the **LOCAL SERVICE** account has full access on **RavenDB** folder (Figure 5-5).
5.1.4 Set up RavenDB as a Service

This process requires Windows PowerShell 5.1 or later. Refer to Section 2.4 for guidance.

1. Once PowerShell 5.1 or later has been installed, open **PowerShell** in administrator mode.
2. Use the command **$PSVersionTable** to confirm the PowerShell version is 5.1.x.

3. Using the **cd C:\RavenDB\** command, set the directory where the RavenDB zip package is unzipped.

4. Set PowerShell execution policy to **Unrestricted**. Run the command

   **Set-ExecutionPolicy unrestricted**.

5. Type **A** at the next prompt.

6. Run the command **\setup-as-service.ps1**.
7. Note the URL for RavenDB: [http://127.0.0.1:27019](http://127.0.0.1:27019).

8. Set PowerShell execution policy to **Restricted**. Run the command `Set-ExecutionPolicy Restricted`.

9. Type `A` at the next prompt.

### 5.1.5 Register RavenDB License (If Expired)

**Warning**: In the RavenDB studio, on the right bottom corner, the user should be able to see the registration status. If the license is expired, use the following steps.
1. Go to the **RavenDB Web site** using the URL [https://ravendb.net/license/request/community](https://ravendb.net/license/request/community).

2. Fill in the **form** using the organization Email address and submit the information.

   RavenDB will provide the license key via the provided Email address.

3. **Activate using License Key:**
   b. Go to the **About** tab in the **RavenDB studio**.
   c. Click the **Register** button.
   d. Paste your **License Key** inside the textbox.
   e. Click **Submit**.
   f. In the **RavenDB Studio**, on the bottom-right corner, you should be able to see the registration status.
5.1.6 Set up ecqm.reference.2021 Database


2. Select Databases from the left menu and click New Database.

3. Type database name `ecqm.reference.2021` and click the Create button.
4. Once the database is created, it will display the `ecqm.reference.2021` database information.

5. Select the `ecqm.reference.2021` database. Click the Settings button on the left pane and then select Import Data button.

![Figure 5-14: Import Data dialog](image)

6. Click the Browse button on the Import Data screen and select the `ecqm.reference.2021 2021-08.ravendbdump` file found in the `ecqm0400` unzipped folder.

![Figure 5-15: Import Database dialog](image)

7. Click the Import Database button as show in Figure 5-15.

8. Verify the database size and documents as shown in Figure 5-16.
5.1.7 Set up ecqm.reference.2020 Database

1. Please repeat the steps from Section 5.1.5 for creating ecqm.reference.2020 Database.

2. For step 5 use the file ecqm.reference.2020 2020-10.ravendbdump.

5.1.8 Restore Identity and Config Database

If the site has followed the steps in Section 5.1.2, and taken backups for the ecqm.identity and ecqm.config databases, repeat the steps from Section 5.1.6 for creating the ecqm.identity and ecqm.config databases using the backup locations used in Section 5.1.2.

5.2 Set up the ECQM Web Site

1. Create an ECQM folder in the C:\inetpub\ directory.

2. Unzip distributed ecqm0400.01.install.zip application bundle into the C:\inetpub\ECQM folder created above.
5.2.1 ECQM Configuration Parameters

1. Locate the `appsettings.json` file in the `C:\Iinetpub\ECQM` folder.

2. Open the `appsettings.json` file in a text editor (e.g., Notepad).

3. This file must be edited with caution. Do not add any extra characters, spaces, or enter lines in this file. Also, ensure that all edited values are in double quotes as displayed below.

   **Note:** If there are access issues in saving this file after completing the modifications, make a copy of this file and save it to the Desktop or Documents folder, complete the changes in that file and then copy/paste that file to the `C:\Iinetpub\ECQM` folder to overwrite the original file. Alternatively, write permissions could be added to the `C:\Iinetpub\ECQM` folder for the current user making the modifications.

4. Configure the default Super Admin user by filling the Username, FirstName, LastName, and Email fields as shown in Figure 5-18.
Figure 5-18 has the IHS D1 directory (credential store) information for authentication. If the site is using another or local directory service (user credential store), modify the highlighted fields as shown in Figure 5-19. Make sure that the Directory Name value and Super Admin Domain value are the same.
5. Use the correct port (LDAP) in the directory settings. The default port for Microsoft Active Directory (LDAP) is 389.

   a. **Optional**: The **LDAPS** (secure LDAP) parameter can be set to **True** if it is implemented in the directory service; input the correct port for LDAPS.

6. The document store settings show the URL for the RavenDB. For a single-tier installation the default value is the correct value.
7. Save and close the **appsettings.json** file.

**Note:** If there are access issues in saving this file after completing the modifications, make a copy of this file and save it to the Desktop or Documents folder, complete the changes in that file and then copy/paste that file to the C:\Inetpub\ECQM folder to overwrite the original file. Alternatively, write permissions could be added to the C:\Inetpub\ECQM folder for the current user making the modifications.

### 5.2.2 Configure IIS Request Content Length

To configure the IIS Request Content Length:

1. Click **Start | Administrative Tools | Internet Information Services (IIS) Manager**. Select the server name in the IIS Manager Tree.
2. Double-click the Request Filtering icon as shown in Figure 5-21.

![Figure 5-21: Request Filtering](image)

3. Click the Edit Feature Settings link in the Action pane on the right side.

4. Set the Maximum allowed content length (Bytes) to 100000000 (one hundred million) as shown in Figure 5-22.

5. Click OK.
5.2.3 Add the ECQM Application Pool

To add the Application Pool:

1. Return to the **IIS Manager** opened in Section 5.2.2 and browse to **Application Pools** in the tree structure below your IIS node as shown in Figure 5-23.

2. Right-click **Application Pools** and select **Add Application Pool**. The **Add Application Pool** dialog (Figure 5-24) displays.
3. In the **Name** field, type the name of the application pool (**ECQM**).

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 5-25 displays.
7. Change the **Idle Time-out** value to **15 minutes**.

8. Change the **Identity** value to **LocalSystem**.

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

### 5.2.4 Add the ECQM Site

To add the new Web Site:

1. Right-click **Sites** in the **Connections** pane of the IIS Manager and select **Add Web Site**. The **Add Web Site** dialog (Figure 5-26) displays.

![Add Web Site dialog](image)

**Figure 5-26: Add Web Site dialog**

2. In the **Site name** field, type **ECQM**.

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

4. In the **Physical Path** field, browse to the **C:\inetpub\ECQM** folder created in Section 5.2. Be aware that the location will be different if the folder was created on a different drive.

5. Set the port number in the **Binding** section. The recommended port for ECQM is **47019**. The port may need to be added to Firewall exceptions if firewall is enabled.

6. Click **OK** to save the changes and close the **Add Web Site** dialog.
5.2.5 Configure the ECQM Connection Timeout

To configure the ECQM connection timeout:

1. Select the ECQM site under the Sites tree control.
2. Click Limits on the right side under Configure.
3. Set the Connection time-out to 900 as shown in Figure 5-27.
4. Click OK.

![Figure 5-27: Connection time-out](image)

5.3 Install the SSL Certificate

**Note:** Follow this section if SSL configuration is required.

To install the SSL server certificate acquired in Section 4.1:

1. From the Windows Start menu, select Administrative Tools.
2. Select Internet Information Services (IIS) Manager.
3. Click the server name in the left panel.
4. Double-click Server Certificates in the Security section (near the bottom of the panel).
5. In the **Actions** panel (on the right), click **Complete Certificate Request**. The **Complete Certificate Request** dialog displays.
6. Click the ellipses button (…) to browse to the location where the server certificate file acquired in Section 4.1 was saved.

7. In the 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 Configure the SSL Certificate

**Note:** Follow this section if SSL configuration is required.

To configure the SSL certificate:

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

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

3. In the Actions pane, click Bindings.

4. Click Add.

5. In Add Site Binding:
   
   a. For Type, select https.

   b. For IP address, select All Unassigned, or the IP address of the site.

   c. For Port, specify a port for SSL, the default is 443. The recommended port for ECQM is 47019.

   **Note:** When installing SSL with HTTPS, first remove any previous site bindings for HTTP. The Site Bindings dialog as shown in Figure 5-30 will indicate whether there any HTTP site bindings and allow their removal.

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

7. Close **Internet Information Services (IIS) Manager**.

The SSL Certificate is now configured. Visit the Web site via an HTTPS connection, using the domain name, not the IP address, to verify the installation.
6.0 **Initiate the ECQM System**

6.1 **Reset the ECQM Application**

To reset the ECQM application:

1. **Stop** ECQM Web site.

   ![Manage Web Site - Stop](image)

   Figure 6-1: Manage Web Site – Stop

2. **Stop** ECQM Web site application pool.
3. **Start** the ECQM Web site application pool.
4. **Start** the ECQM web site.

Figure 6-3: Application Pool Tasks – Start
6.2 Launch the ECQM Application

To launch ECQM:

1. Open Google Chrome.

2. In the Address bar, enter the IP address of your Windows application server and the port number.
   - For sites using SSL: https://domain_name:47019
   - For sites not using SSL: http://ip_address:47019

3. Wait for the ECQM Login screen to load.
4. Confirm that the drop-down has the **domain/directory** name selected as configured in the **ECQM Configuration Parameters** section.

5. Login using the **DefaultSuperAdmin** credentials as configured in Section 5.2.1.

   **Note:** At this stage, the application only authorizes the Default Super Admin user. Once the Admin logs in, he/she can add additional users as per the user manual.

6. Click **Login**. For further steps refer to the user manual.
Appendix A  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 ECQM web sites 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 ECQM Web site setup at your site. This information can also be found on the Microsoft web site at: https://technet.microsoft.com/en-us/library/cc754631%28v=ws.10%29.aspx.

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

2. Select Internet Information Services (IIS) Manager to display the IIS Management Console.

3. Select the ECQM Web site in the left pane.

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

Figure A-1: Opening Internet Information Services (IIS) Manager
5. Click **Disable** in the **Actions** pane.

![Figure A-2: IIS Management Console](image)

![Figure A-3: Logging window](image)

An example of a disabled logging window is shown in Figure A-4.
Figure A-4: Disabled Logging window
## Acronym List

<table>
<thead>
<tr>
<th>Acronym</th>
<th>Term</th>
<th>Meaning</th>
</tr>
</thead>
<tbody>
<tr>
<td>eCQM</td>
<td></td>
<td>electronic Clinical Quality Measures</td>
</tr>
<tr>
<td>HTTPS</td>
<td></td>
<td>HyperText Transfer Protocol Secure</td>
</tr>
<tr>
<td>IHS</td>
<td></td>
<td>Indian Health Service</td>
</tr>
<tr>
<td>IIS</td>
<td></td>
<td>Internet Information Service</td>
</tr>
<tr>
<td>IP</td>
<td></td>
<td>Internet Protocol</td>
</tr>
<tr>
<td>SSL</td>
<td></td>
<td>Secure Sockets Layer</td>
</tr>
<tr>
<td>URL</td>
<td></td>
<td>Uniform Resource Locator</td>
</tr>
</tbody>
</table>
Contact Information

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

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