Business Performance Services

McKesson Practice Interface Center Installation and User's Guide

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Chapter 1 - McKesson Practice Interface Center

Overview

In this chapter you will learn the basics of McKesson Practice Interface Center, including what it is and what it is designed to do. In addition, you will learn the prerequisites for using the application, as well as the components that make up the application.

McKesson Practice Interface Center is an application designed to connect different McKesson solutions and allow them to transfer data to one another and to outside organizations, such as laboratories. It is independent of any specific McKesson solutions and will, in time, have prefabricated configurations available to integrate your specific McKesson solutions. You will also have the ability to customize it.

In this chapter

Hardware requirements

CPU (Processor)	Equivalent of Intel Quad Core Xeon 1.6GHz
RAM (Memory)	8GB
Storage Array Type	RAID-1
Optical Drive	DVD-ROM
Network Card (NIC)	1Gbps (cannot be a teamed network card)
Hard Drive	At least 30GB

Software requirements

- Windows Server 2008 R2 32 or 64-bit
- Windows Server 2003 32-bit

McKesson Practice Interface Center is only installed on your server. It does not need to be installed on any of your workstations. Nor does it have to be dedicated.

- Medisoft 18 or higher or Lytec 2013 or higher installed on the same server as MPIC
- Windows PowerShell (if you are using Windows XP or Windows Server 2003 32-bit)

You may use a virtual server with McKesson Practice Interface Center.

Before you begin

Complete the following before you begin installing MPIC.

- Installed any software applications that you want to integrate, such as Medisoft Clinical, Lytec MD, or Practice Partner.
- Administrator rights to the computer on which you are installing MPIC.
- Reviewed the hardware and software requirements to ensure that your system meets the requirements.
- Disable Communications Manager if it was installed and running. Be sure to disable it in Watchdog if you are using it.

Shutting down Communications Manager

If you are currently using any version of Medisoft prior to Medisoft 19 or any version of Lytec prior to Lytec 2014, open this screen in Communications Manager and clear the check boxes for transmitting data.

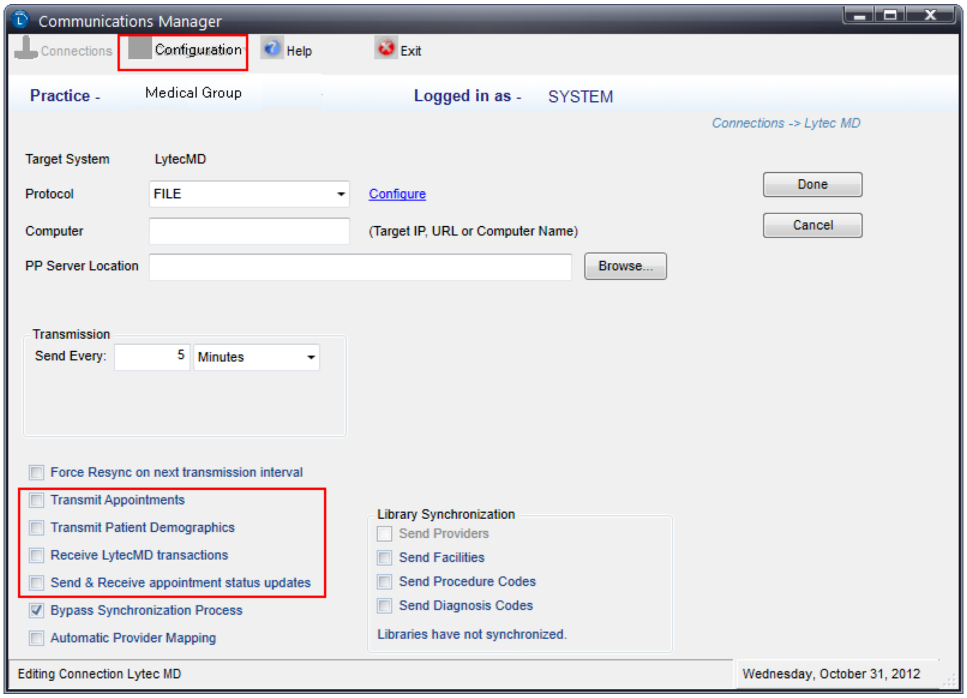

Figure 1. Communications Manager screen with transmit options highlighted

In addition, click the Configuration button at the top left and clear the check box for Enable Communications Messenger on this machine.

Components that are installed

McKesson Practice Interface Center installs several components that it uses to connect McKesson solutions. MPIC will not reinstall any components that are already installed. The first four components were developed and are supported by external vendors. MPIC will not uninstall or update these components and McKesson is not responsible for their support. The final three components are updated by McKesson and are uninstalled if you uninstall MPIC.

Component	Description
.NET Framework 4.0	This is a software framework designed by Microsoft that contains many libraries of files that allow programs to communicate with one another.

Component	Description
SQL 2008 R2 Express SP1	This is a database engine that allows you to create databases. In this case, the database used by McKesson Practice Interface Center to store settings and data is an SQL database. SQL Express 2008 will run side by side with other versions of SQL.
Java Runtime	This program contains many files that allow websites and other applications to function correctly. Java must be installed so that Mirth Connect will run correctly. For more information on Mirth Connect, see "Mirth Connect" on page 83.
Mirth Connect	This program contains the files that tell the system what data to transmit.
McKesson Practice Interface Center Control Panel	This application starts and stops the McKesson Practice Interface Center service.
MPIC Administration Database	This database contains all of the information that you enter for your configuration.
McKesson Practice Interface Center Service	This program does all of the transfer of data from application to application. It will run all of the time once it is started. Also, it will monitor any changes to data and handle the transfer.

Currently-supported connections

Currently-supported connections for McKesson Practice Interface Center are as follows:

Connection	Direction of Data Flow	More Information
Medisoft to Medisoft Clinical/Practice Partner	Bi-directional	To set up this connection, see “Configuring a connection” on page 21.
Lytec to Lytec MD/ Practice Partner	Bi-directional	To set up this connection, see “Configuring a connection” on page 21.
Medisoft to RelayHealth	Uni-directional: from Medisoft to RelayHealth only	You can see up this connection either in conjunction with a connection to Medisoft Clinical or as a stand alone connection. See “RelayClinical eScript Connection” on page 45.
Lytec to RelayHealth	Uni-directional: from Lytec to RelayHealth only	You can see up this connection either in conjunction with a connection to Lytec MD or as a stand alone connection. See “RelayClinical eScript Connection” on page 45.
Medisoft to McKesson Practice Choice	Uni-directional: from Medisoft to Practice Choice only Note: Billing data is sent from Practice Choice to Medisoft behind the scenes.	To set up this connection, see the McKesson Practice Choice Demographic and Billing Interface Guide for VAR at https://mckwiki.mckesson.com/pps-var-central/Medisoft%20Documentation
Lytec to McKesson Practice Choice	Uni-directional: from Lytec to Practice Choice only Note: Billing data is sent from Practice Choice to Lytec behind the scenes.	To set up this connection, see the McKesson Practice Choice Demographic and Billing Interface Guide for VAR at https://mckwiki.mckesson.com/pps-var-central/Lytec%20Documentation

Support for multiple connections

McKesson Practice Interface Center will support multiple connections. However, you are limited to one connection per practice. The only exception is this: if you are connecting to Practice Partner (using Medisoft Clinical or Lytec MD), you can also connect to RelayHealth. You can find step-by-step instructions for creating this connection at “Configuring MPIC for RelayHealth with Medisoft Clinical or Lytec MD” on page 49.

Chapter 2 - Installing and Configuring McKesson Practice Interface Center

This chapter discusses how to install, configure, and start McKesson Practice Interface Center.

In this chapter

Upgrading McKesson Practice Interface Center

If you are upgrading McKesson Practice Interface Center from an earlier version, launch the MPIC Control Panel first, click the Settings button, and take note of the values in the fields. In addition, take note of the values in the fields of the screen that appears after you click the EMR Settings button. After you run the installer, you must re-enter this information.

Then, uninstall the existing version of MPIC by using Add/Remove programs. Click Start, point to All Programs, and click Control Panel. Click Uninstall a program.

After this, continue with the installation (“Installing McKesson Practice Interface Center” on page 7). Be sure to follow the steps for Configuration and Launching (“Configuration and launching” on page 9). You will not need to create a user for Mirth but you must recreate your database and restore the default configurations for Mirth. This will ensure that you are using the newest channels.

Installing McKesson Practice Interface Center

The installation will load the components that McKesson Practice Interface Center needs to run (see “Components that are installed” on page 3 for more information).

If you are installing MPIC on a domain controller, you must install SQL Server manually before installing MPIC. For instructions, see “Installing SQL Server Express manually” on page 77.

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1. Use the table to select the URL for download.

Version	URL
Medisoft 32-bit	http://www.medisoft.com/MPIC/V2/MPICv2.1_for_Medisoft-Setup32.zip

Version	URL
Medisoft 64-bit	http://www.medisoft.com/MPIC/V2/MPICv2.1_for_Medisoft-Setup64.zip
Lytec 32-bit	http://www.lytec.com/MPIC/V2/MPICv2.1_for_Lytec-Setup32.zip
Lytec 64-bit	http://www.lytec.com/MPIC/V2/MPICv2.1_for_Lytec-Setup64.zip

2. Navigate to the folder where the files were unzipped and double-click the correct program file.

   The McKesson Practice Interface Center Setup screen appears.

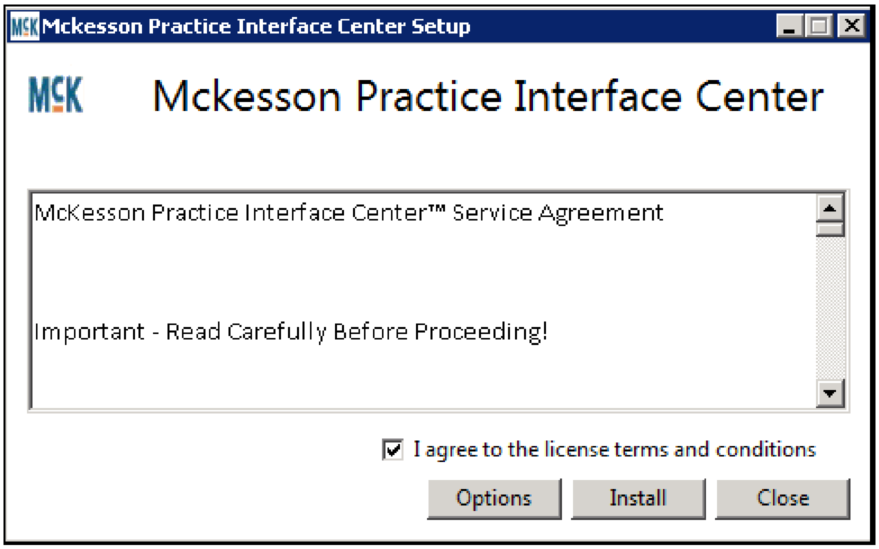

Figure 2. McKesson Practice Interface Center Setup screen

3. Select the **I agree to the license terms and conditions** check box.

   If you want to change the default location on the hard drive for the files, click **Options**.

Note: if you already have applications like .NET Framework 4.0 installed, you might not see all of the screens in this installation.

4. Click the **Install** button. Allow the installer to complete its operation. The Junction License Agreement screen appears.
5. Click the **Agree** button. The Setup Successful screen appears.
6. Click the **Close** button.

This installation will install SQL 2008 R2 Express SP1 with presettings. If you need to access the database and configuration, the default password is $Mpic2012.

Configuration and launching

Database creation

1. On the desktop, double-click the McKesson Practice Interface Center icon. You will see the following message.:

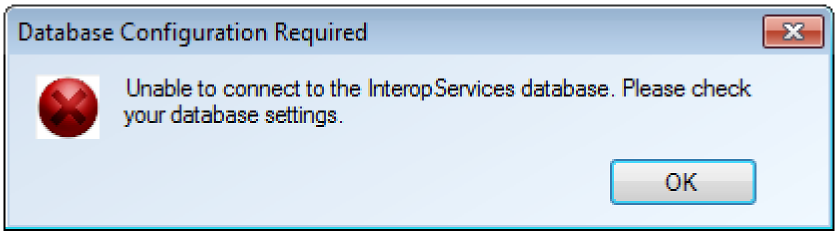

Figure 3. Error message

2. Click the **OK** button. The MPIC Database Settings screen appears. For more information on this screen, see "MPIC Database Settings screen" on page 42.

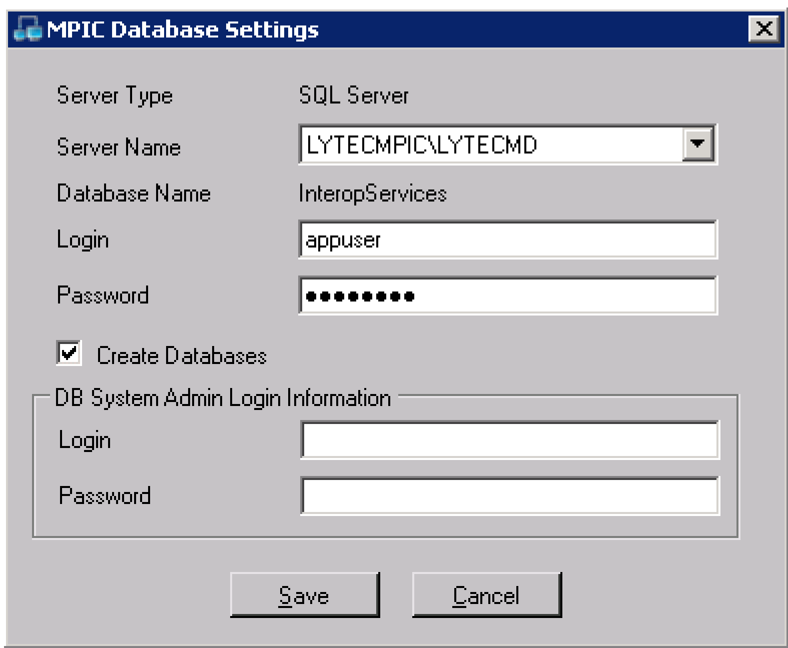

Figure 4. MPIC Database Settings screen

This will display any existing SQL databases in the Server Name and Database Name fields.

3. Select the appropriate database in the Server Name field.
   - If you are using Lytec, the existing Lytec database will appear in the Server Name drop-down field.
   - If you are using Medisoft, you will see the MPIC instance in the Server Name drop-down field.
4. Enter the Login and Password.

- If you are using Lytec, use the login and password that you would use on the Specify Default SQL Credentials screen.
- If you selected the MPIC instance, the default login is sa and the password is $Mpic2012.

5. Click the **Save** button.

The database is selected or created and the McKesson Practice Interface Center Control Panel appears. For more information on the Control Panel and the buttons that are available, see "Viewing the MPIC Control Panel" on page 17.

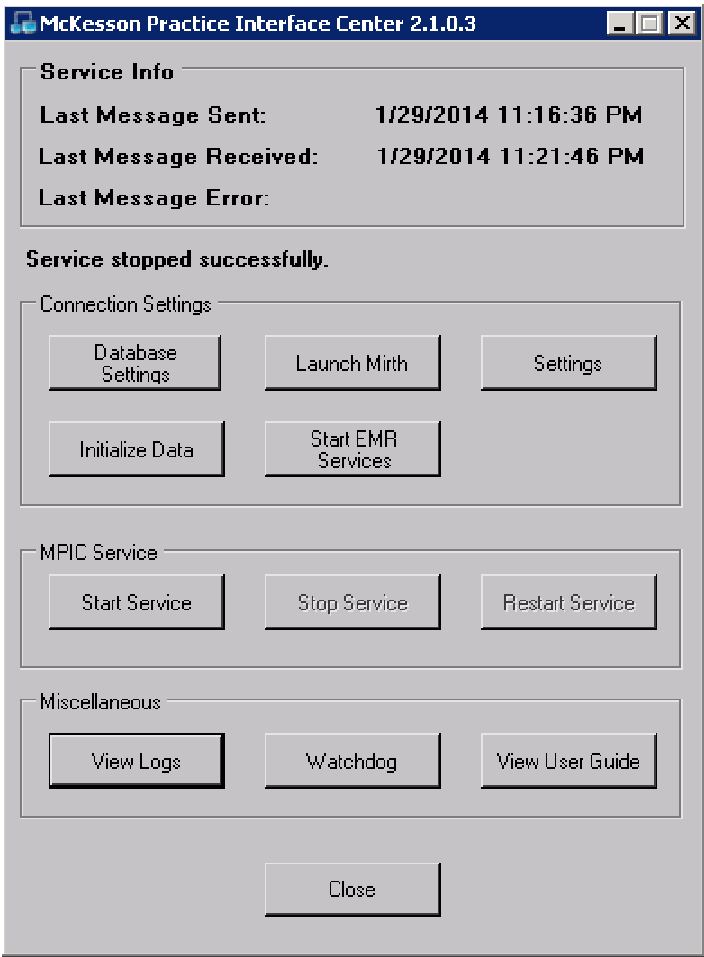

Figure 5. McKesson Practice Interface Center Control Panel

Note: You must have administrator rights on the computer where MPIC is installed to open and use the MPIC Control Panel.

Configuring Mirth

1. Click the **Launch Mirth** button on the MPIC Control panel (see ***Figure*** 5 on page 10). This will start the Mirth Connect Server Manager application.The icon appears in the System Tray.

2. Right-click the Mirth Connect icon in the System Tray and select **Launch Administrator.** A download screen appears. When it is complete, you will see the Mirth Connect Administrator Login screen.

Note: you may need to adjust your browser's security setting to complete the download of any Java updates.

3. Enter **admin** for both the Username and Password.

Figure 6. Mirth Connect Administrator Login screen

4. Click the **Login** button.

5. On the Welcome to Mirth Connect screen, enter your information and set yourself up as a user. Do NOT change the Username or Password. Continue with **admin** for both. Leave the two check boxes selected.

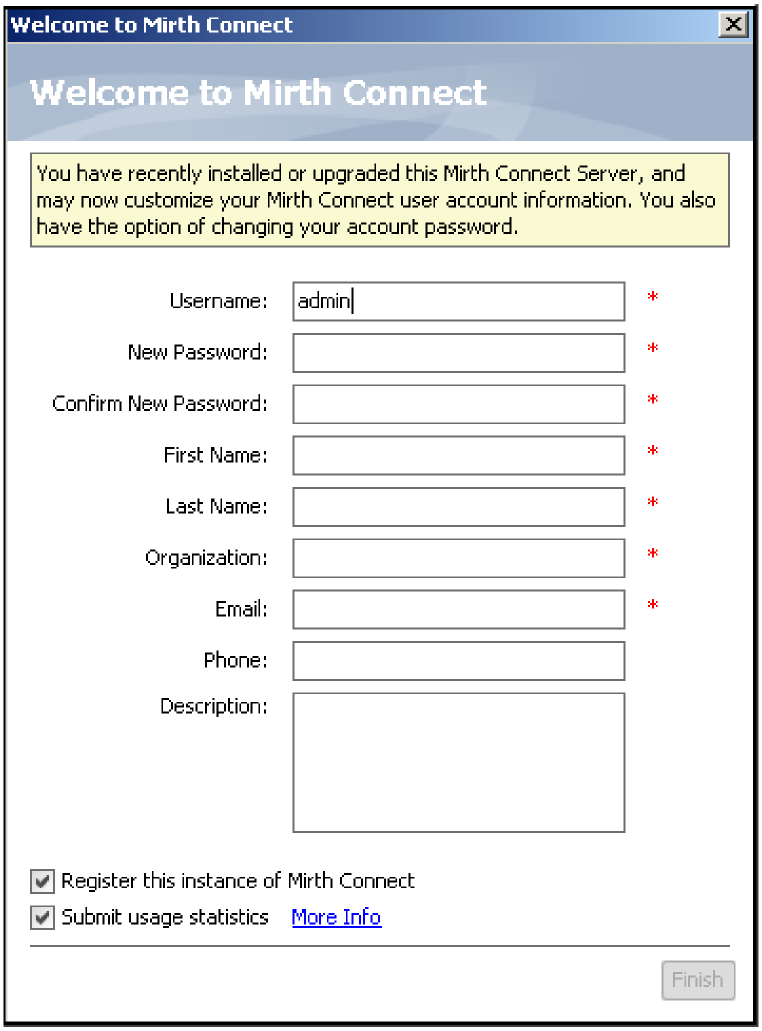

Figure 7. Welcome to Mirth Connect screen

6. Click the **Finish** button. The Dashboard screen will appear.

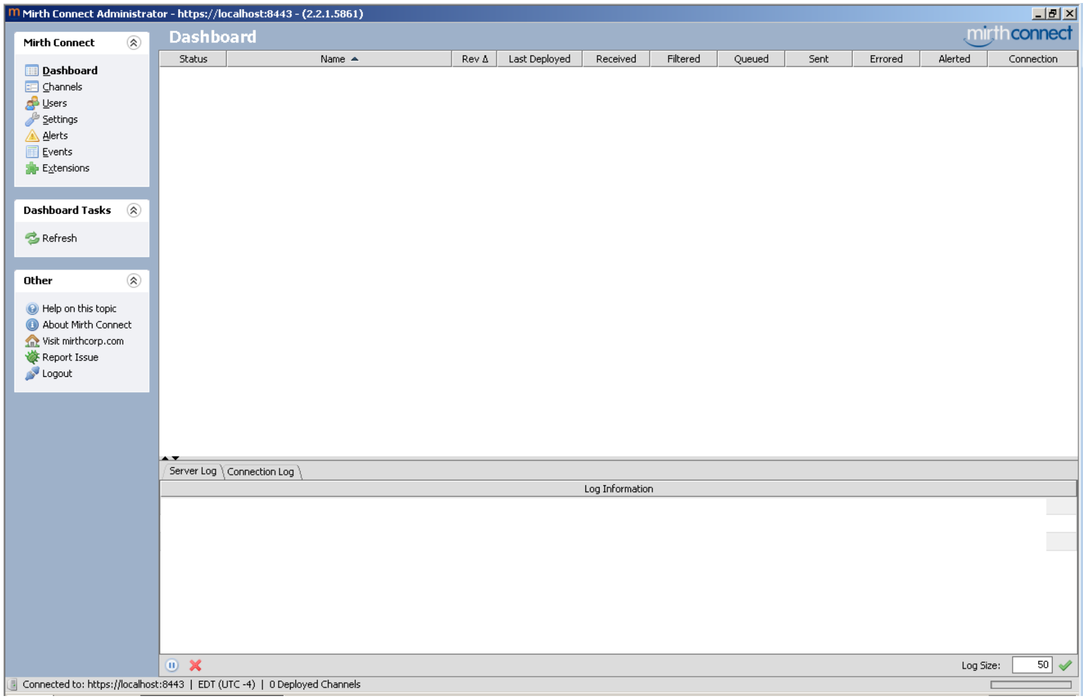

Figure 8. Mirth Connect Dashboard

7. Click **Settings**. The Settings screen appears.

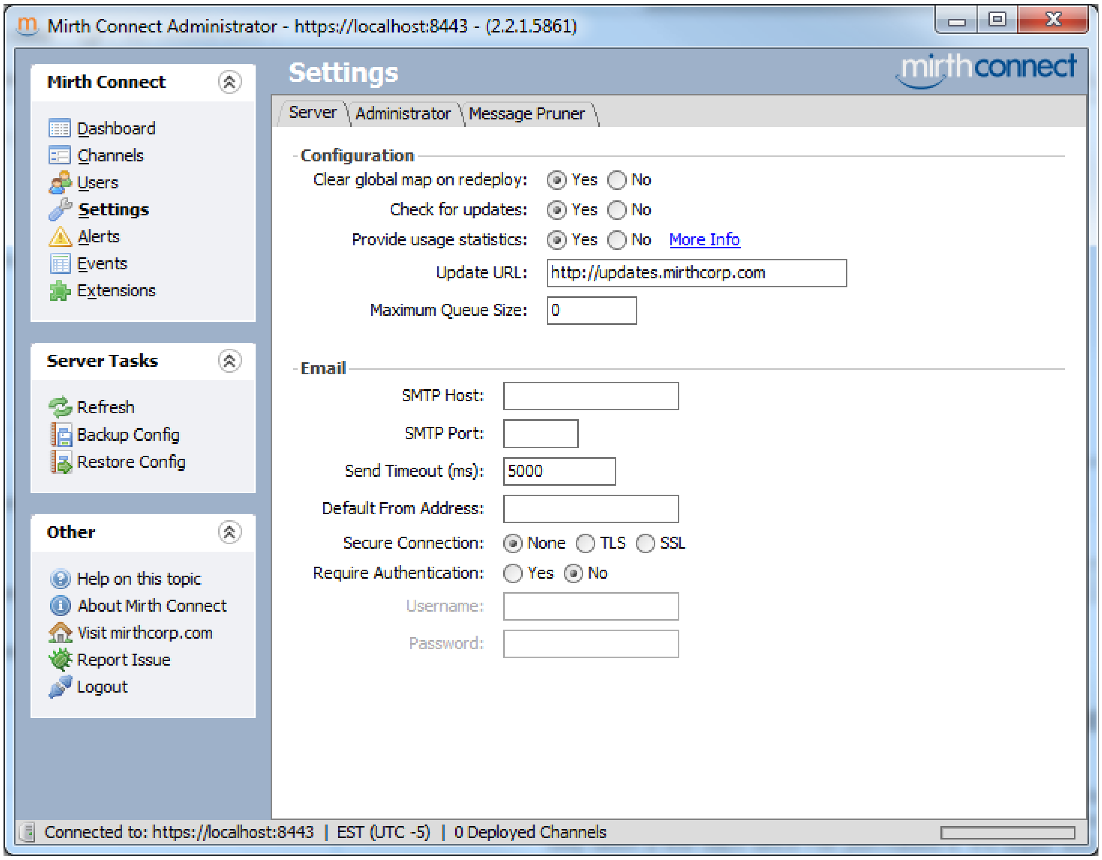

Figure 9. Mirth Settings screen

8. Click **Restore Config** in the Server Tasks section of the screen. The Open screen appears.

Warning: if you are upgrading and have custom channels created, export these channels before restoring the default configurations. Restoring the defaults will overwrite any existing channels. After you restore the defaults, import your custom channels.

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9. Navigate to the C:\Program Files\Mckesson\Mckesson Practice Interface Center\Mirth” folder.

10. Highlight defaultconfig.xml.

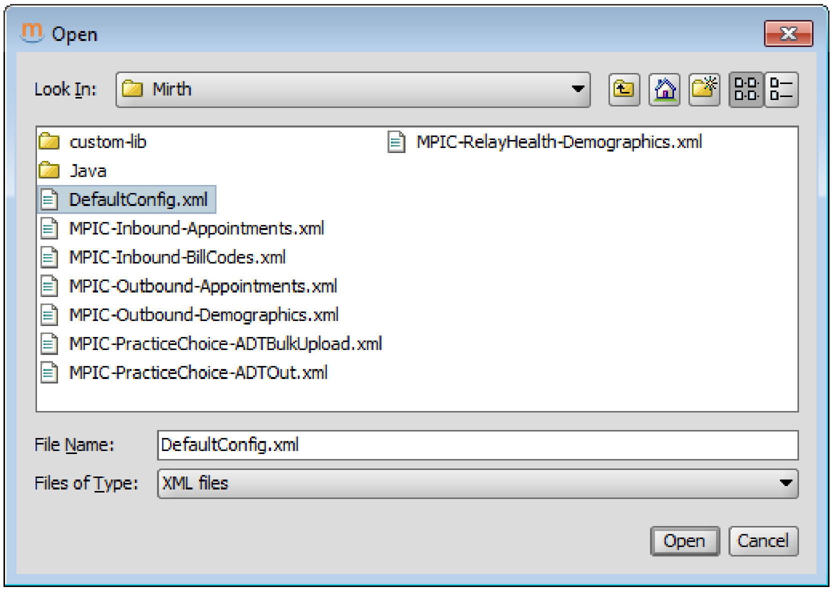


Figure 10. Open screen

11. Click the **Open** button.
12. Click the **Yes** button on the Select an Option screen.
13. Close Mirth Connect Manager.
14. Verify that HL7 triggers are enabled in Medisoft or Lytec.

If you are using...	follow these steps...
Medisoft	1. On the File menu, click **Program Options**. The Program Options screen appears. 2. Click the General tab. 3. Verify that the Enable HL7 Triggers check box is selected on the General tab.
Lytec	1. On the Admin menu, click **Preferences**. The Preferences screen appears. 2. Click the General tab. 3. Verify that the HL7 Trigger Enable check box is selected on the General tab.

15. Continue to “Configuring a connection” on page 21 to complete the configuration.

For issues with troubleshooting, see the MPIC Troubleshooting Guide at https://mckwiki.mckesson.com/pps-var-central/mpic_troubleshooting_guide.

Chapter 3 - Using the MPIC Control Panel

Use the MPIC Control Panel to start and stop the MPIC service, create a new connection, change existing connections, and view any errors that occur.

In this chapter

Viewing the MPIC Control Panel

To view the MPIC Control Panel:

- On the Desktop, double-click the MPIC - McKesson Practice Interface Center icon. The MPIC

Control Panel appears.

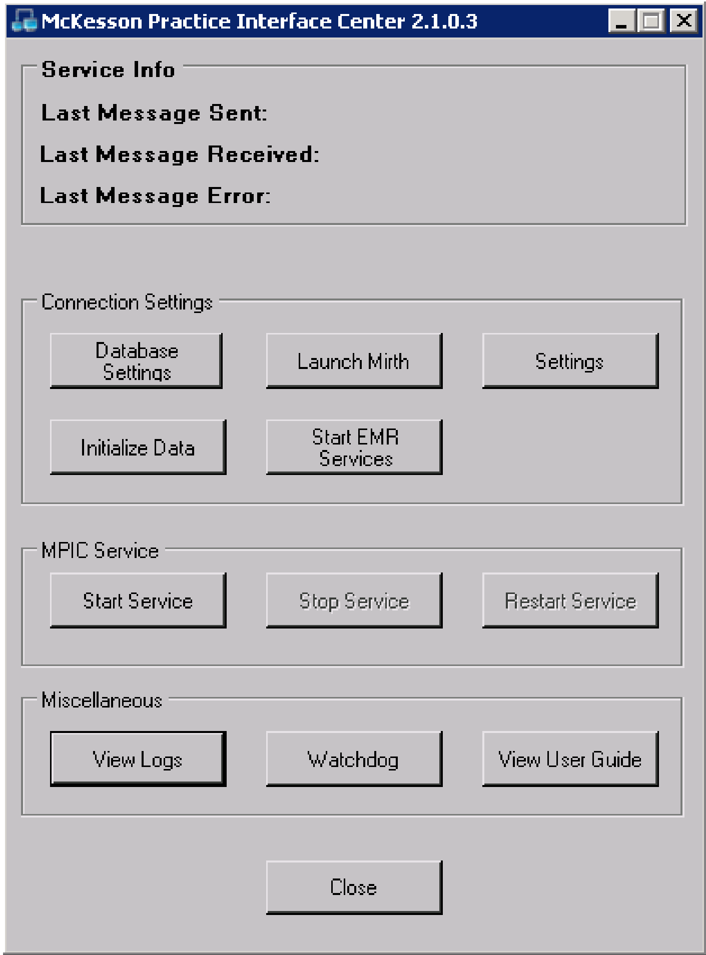


Figure 11. MPIC Control Panel

Note: You must have administrator rights to the computer on which MPIC is installed to open and use the MPIC Control Panel

The following table summarizes the fields and buttons that are available.

Field/Button/Link	Description
Last Message Sent	This reflects when the last message (data transfer) was sent from the practice management application to the EMRs for all connections. If messages have not been sent for some time, there is likely an error. You can use the logs to identify and correct the error. For more information on the logs, see "Viewing logs" on page 32.

Field/Button/Link	Description
Last Message Received	This reflects when the last message (data transfer) was received from the EMRs by the practice management application for all connections. If messages have not been received for some time, there is likely an error. You can use the logs to identify and correct the error. For more information on the logs, see “Viewing logs” on page 32.
Last Message Error	This reflects when the last error message occurred for all connections. Types of errors include lost connectivity in the network and invalid data. If there is an error, use the logs to identify the error so you can fix it. For more information on the logs, see “Viewing logs” on page 32.
Database Settings	Click to open the Database Settings screen. Use this screen to create a new SQL database for MPIC to use. Lytec users may use this screen to use the existing Lytec database for MPIC. For more information, see “MPIC Database Settings screen” on page 42.
Launch Mirth	Click to launch the Mirth Connect Server Manager. The icon for this application will appear in the System Tray. For more information on the Mirth Connect Server Manager, see “Configuration and launching” on page 9.
Settings	Click to open the Settings screen. For more information on this screen, see “Settings screen” on page 22. This button will be disabled if there is no MPIC Database. You will create this database using the MPIC Database Settings screen. For more information, see “MPIC Database Settings screen” on page 42.
Initialize Data	Click to open the Initialize Data screen on which you can change the settings for the types of practice records that will be transferred when you create the connection and perform the initial data transfer. For more information on this screen, see “Initialize Data screen” on page 26. This button will be disabled until there is a connection type.
Start EMR Services	Click to launch the Demographics/Scheduling Interface, which imports demographic and appointment scheduling data from the practice management system to the EMR. as well as the BillCodes application. If these applications are already running, MPIC will stop them and then restart them. Clicking this button will start the interface only for the computer on which MPIC is installed. If you have connections to remote servers, you must manually start the EMR services from those servers. This button will not launch either application until you have created a connection, In addition, it will be disabled unless your connection is for Medisoft Clinical or Lytec MD.

Field/Button/Link	Description
Start Service	Click to start the MPIC service for all connections. When the service is started, data transmission between applications will begin. Data will be transmitted behind the scenes. Once the service is started, this button will be disabled.
Stop Service	Click to stop the service for all connections. This will stop data transmission.
Restart Service	Click to restart the service after you manually stop it. If you make changes to the settings while the service is running, the service will automatically stop and restart when you are finished making changes.
View Logs	Click to open the View Logs screen. For more information on the logs, see “Viewing logs” on page 32.
Watchdog	Click this button to launch Watchdog, an application that monitors processes and services running on the server for Medisoft Clinical and Lytec MD. If Watchdog is not installed, you will receive a message. To learn more about Watchdog, see the Watchdog User’s Guide at https://mckwiki.mckesson.com/pps-medisoft-central/documentation for Medisoft or https://mckwiki.mckesson.com/pps-lytec-central/documentation for Lytec. Value-Added Resellers can use the following link to access documentation: Medisoft: https://mckwiki.mckesson.com/pps-var-central/Medisoft%20Documentation Lytec: https://mckwiki.mckesson.com/pps-var-central/Lytec%20Documentation
View User Guide	Click to view the McKesson Practice Interface Center Installation and User’s Guide. You must have Adobe Reader installed to view the guide.
Close	Click to close the MPIC Control Panel screen.

Configuring a connection

Initial configuration of an interface connection involves several steps: create the connection, select applications and types of data to transfer, and start the service. You can create multiple connections with MPIC. Use the table as an overview of the steps to take.

Action	Processes to complete
Create an interface connection	Create the connection (see “Creating a connection” on page 21) Initialize Data (see “Initializing data” on page 26).
Update an existing interface connection	Click Settings and update the connection (see “Creating a connection” on page 21. The MPIC service will stop and restart automatically.
Add another connection	Click Settings and then the New button. Enter a new Connection Name and then complete the fields on the Settings screen (see “Adding another connection” on page 30).
Update Xfire, “library” files (providers, facilities, procedure codes, diagnosis codes)	Initialize Data (see “Initializing data” on page 26).

Creating a connection

Use these steps to create a connection, specifying the applications for the interface, entering basic practice information, and selecting what types of data will be transmitted behind the scenes.

1. Double-click the MPIC icon on the desktop. The MPIC Control Panel appears.

2. Click the **Settings** button. The Settings screen appears. Initially, the screen will be blank.

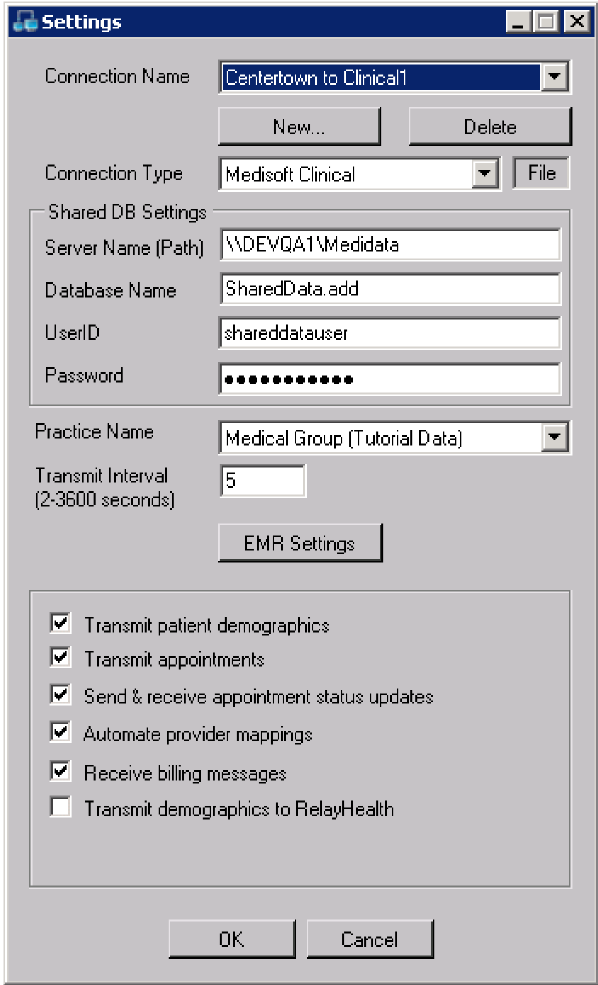


Figure 12. Settings screen

Field/Button/Link	Description
Connection Name	Use this drop-down list to select a connection. Connection Names are added when you click the New button and add a new connection.
New	Click this button to open the Create New Connection screen on which you can add a new connection. For more information, see “Create New Connection screen” on page 40.

Field/Button/Link	Description
Delete	Select this button to delete the existing connection and all background information on the connection. You will receive a warning prior to the deletion of the connection. This button will be disabled if there is no existing connection. Note: You must click the OK button on the Settings screen to complete the deletion of the connection.
Connection Type	Select a connection type from the drop-down list. The list will include all types currently available. What you select here depends on what two applications you want to connect. The connection contains hard-coded information specifically designed to enable the two applications to transmit data to one another.
Server Name (Path)	Enter the path of the server that MPIC is installed on.
Database Name	Use this to enter the name of the database.
User ID	Enter the ID of the administrative user.
Password	Enter the Password of the administrative user.
Practice Name	Select the appropriate practice from the drop-down list.
Transmit Interval (2-3600 seconds)	Use these fields to specify the amount of time in between transmissions of data. The default, recommended value is 30. The transmitting features use this option but the syncing features do not.
EMR Settings	Use this to open the Folders screen or the Practice Choice Settings screen. You must set up folders before you can perform a sync. For more information, see “Folders screen” on page 40. If you are setting up a connection, you will need to complete the fields on the Practice Choice Settings screen. For more information, see McKesson Practice Choice Demographic and Billing Interface Guide for VAR at https://mckwiki.mckesson.com/pps-var-central/Medisoft%20Documentation.
Transmit patient demographics	Select this check box if you want to transmit demographic information for new patients or changed information from the practice management system to the EMR. This includes all information that is common to the practice management system and EMR. For more information on what data is transmitted for each connection, see “Transmitted Information” on page 55. Selecting this check box will enable the transmission of patient demographics behind the scenes after you click Start Services on the MPIC Control Panel. Before you start the service, perform the initial synchronization (load) on the Initialize Data screen (see “Initialize Data screen” on page 26).

Field/Button/Link	Description
Transmit appointments	Select this check box to transmit appointment information from the practice management system to the EMR. This includes all pertinent information for the appointment, such as date, time, and length. Selecting this check box will enable the transmission of appointments behind the scenes after you click Start Services on the MPIC Control Panel. Before you start the service, perform the initial synchronization (load) on the Initialize Data screen (see “Initialize Data screen” on page 26).
Send and receive appointment status updates	Select this check box if you want to transmit changes to the status of appointments that are made in your applications. This is a bi-directional transfer.
Automate provider mappings	Select this check box if your providers do not exist in the EMR and you want their information transmitted to the EMR. CLEAR this check box if either of the following situations exist: • You have a one-to-many relationship for your providers. That is, you have a single record for a particular provider in the practice management system but have more than one record for the same provider in the EMR (for instance, that provider works out of several locations). If you enable this feature and use it in this situation, you jeopardize accuracy of appointments sent from the practice management system to the EMR, the provider associated with a patient, and possibly the provider assigned to charges coming in from the EMR. For more information on provider mapping, see “Automate Provider Mapping” on page 71.
Receive billing messages	Select this check box to receive transactions/charges from the EMR application. For Medisoft, transactions received will appear on the Unprocessed Charges screen. For Lytec, charges received will appear on the Pending Transactions screen.

Field/Button/Link	Description
Transmit Demographics to RelayHealth	Select this check box if you are going to use MPIC to send demographic information for new patients or edited patient records to RelayHealth. When you select this check box, the RelayHealth Settings button appears. You can set up the RelayHealth connection at the same time that you create your connection for Medisoft or Lytec or you can return to this screen later to set it up. For detailed instructions on setting up the connection to RelayHealth, see “RelayClinical eScript Connection” on page 45.
RelayHealth Settings	Use this button to open the RelayHealth Settings screen. For more information, see “RelayHealth Settings screen” on page 41.
OK	Use this to save changes to the Settings screen and close the screen.
Cancel	Use this to cancel any changes made to the Settings screen.

3. Click the **New** button. The Create New Connection screen appears.

Figure 13. Create New Connection screen

4. Enter the name for your new connection.
5. Click the **OK** button.
6. On the Settings screen, select a connection type option from the drop-down menu. The interface contains various default settings used for the starting point for a connection. These settings help establish settings for one or more connections. When you select the interface many of the fields on this screen will be filled automatically.
7. Complete the other fields on this screen as necessary, making sure that you select the correct Practice Name.
8. If you are setting up a connection to RelayHealth at this time, select the Transmit Demographics to RelayHealth check box.
9. If you are setting up a connection to RelayHealth at this time, click the **RelayHealth Settings** button and enter the information you received from RelayHealth on the RelayHealth Settings screen. For more information, see “RelayHealth Settings screen” on page 41. Make sure you enter the correct Source Provider IDs and RelayHealth Provider IDs for each of your

providers. You can find your provider IDs in Medisoft or Lytec and RelayHealth will provide your Relay Health Provider IDs when you sign up.

10. Click the **OK** button.

Initializing data

Use these steps to perform an initial synchronization of up to four different types of records, as well as an initial “load” of patients and appointments for a new EMR.

This screen is only for an initial data transfer or occasional transfers of data if you add new providers, facilities, procedure codes, or diagnosis codes. In addition, it is only for an initial, one time transfer of patient and/or appointment records from the practice management system to the EMR. Once this initial “load” is made, MPIC will automatically transfer appointments and patients behind the scenes after you click Start Services on the MPIC Control Panel. Just make sure you have selected the **Transmit patient demographics** and **Transmit appointments** check boxes on the Settings screen (see “Settings screen” on page 22).

1. On the MPIC Control Panel, click the **Initialize Data** button. The Initialize Data screen appears.

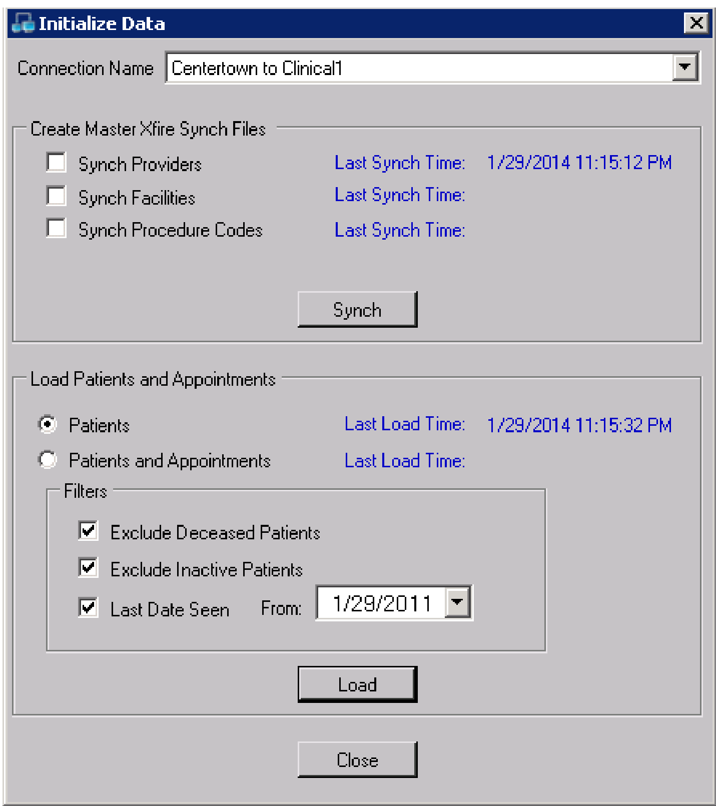


Figure 14. Initialize Data screen

Field/Button/Link	Description
Connection Name	Select the connection that you want to synch data for.

<table>
<tr><th>Field/Button/Link</th><th>Description</th></tr>
<tr><td>Synch Providers</td><td>Select this check box if you want to send provider information from the practice management application to the EMR.

If Automate Provider Mapping is selected on the Settings screen, MPIC will attempt to find a provider record in the EMR that matches the one being sent. If it does, it will automatically map the providers. If not, it will create a new provider record in the EMR.

If Automate Provider Mapping is cleared on the Settings screen, MPIC will create a new provider record in the EMR for new providers being sent. In addition, this check box will be disabled.

This field applies only if you are connecting to Practice Partner.</td></tr>
<tr><td>Synch Facilities</td><td>Select this check box if you want to send facility information from the practice management application to the EMR.

This field applies only if you are connecting to Practice Partner.</td></tr>
<tr><td>Synch Procedure Codes</td><td>Select this check box if you want to send procedure code information from the practice management application to the EMR.

This field applies only if you are connecting to Practice Partner.</td></tr>
<tr><td>Synch DX codes</td><td>Select this check box if you want to send diagnosis code information from the practice management application to the EMR.

This check box applies to versions prior to Medisoft v19 SP1 and Lytec 2014 SP1.

This field applies only if you are connecting to Practice Partner.</td></tr>
<tr><td>Last Synch Times</td><td>These date and time stamps show the last synch time for all connections for each type of information.</td></tr>
</table>

Field/Button/Link	Description
Synch	Clicking this will launch XFire Demographics to send the data from the practice management application to the EMR based on the settings you selected. If the folders for this connection are located on a remote server, MPIC will display the Enter Remote Login Information screen and prompt you for credentials for the remote server, and attempt to launch XFire Demographics on the remote server. For more information on the Enter Remote Login Information screen, see “Enter Remote Login Information screen” on page 44. Use this only if any of this information has changed in the practice management system and you need to update the EMR. The EMR will check each record. If it does not exist in the EMR, it will be added. If it does exist, it will not be duplicated. This field applies only if you are connecting to Practice Partner.
Patients	Select this button if you want to send the demographic data on all patients to your EMR. This will include both active and inactive patients, unless you chose to use the Exclude Inactive Patients filter.
Patients and Appointments	Select this button if you want to send all patient and appointment data to your EMR.
Exclude Deceased Patients	Select this check box if you want to exclude deceased patients from your initial transfer of data. MPIC will look for a date in the date of death field in the patient’s record. If the field is populated, the record will not be transferred to the EMR.
Exclude Inactive Patients	Select this check box if you want to exclude patients who have been marked inactive in the practice management application.
Date Last Seen	Select this check box if you want to limit the transfer of patient records based on the last seen date. The date is based on either the appointment date or the last Date of Service. If you select this option, enter a date in the From field.
From	Specify a beginning appointment date for patient records to transfer. Records of patients who had an appointment after this date will be sent in the initial transfer of data.

Field/Button/Link	Description
Load	Clicking this will send the patient and/or appointment records to the EMR. Use Load only to perform an initial “load” of patient and/or appointment data into a new EMR, one that has no patient or appointment records in it. This initial load is one time only. When you start the service, patient and appointment records will be updated behind the scenes. Note: when you click Load, MPIC will clear the HL7trigger table.
Close	Use this to close the Initialize Data screen. Your changes will be saved.

2. Select the connection you want to initialize data for in the Connection Name field.
3. Select the check boxes for the options in the Create Master Xfire Load Files section.
4. Click the **Synch** button. An hourglass will appear showing the progress of the sync. When the sync is complete, the Last Synch time fields will be updated.

   This will send the types of data you selected to the EMR. Records that do not exist in the EMR will be added. Those that exist will be updated during the synchronization.

   You must sync providers before loading patients.

5. If the EMR is new and there are no patient or appointment records, select any filters you want to use when the initial transfer of patient and/or appointment data takes place.
6. Select either **Patients** or **Patients and Appointments**.
7. Click the **Load** button. The Send All Records screen appears, showing you the progress in transferring patients and/or appointments.

   When the process is complete, all patients and/or appointments will be sent to the EMR. Depending on the number of patients and appointments, as well as your filter selections, this transmission could take some time. The Last Load Time will be updated on the Initialize Data screen.

   Clicking View Log will open the log. For more information, see “Viewing logs” on page 32.

8. Close the Initialize Data screen.
9. Double-click the MPIC icon on the desktop. The MPIC Control Panel appears.
10. Click **Start Services**. Now, MPIC will continually monitor changes in patient information and appointments and transmit these changes between applications behind the scenes.

Adding another connection

You can have multiple connections for MPIC, but only one connection per practice. Once you have created your first connection, follow the steps to create additional connections.

1. Follow the steps for "Configuring Mirth for a Remote Server" on page 75 to set up a user account on the remote server. Since Mirth and MPIC are not installed on the same computer as the server for Practice Partner, you must create this account so that Mirth can access the server.
2. On the MPIC Control Panel, click the **Settings** button. The Settings screen appears.
3. Click the **New** button. The Create New Connection screen appears.
4. Enter a Connection Name.
5. Click the **OK** button.
6. Click the **EMR Settings** button. The Folders screen appears.
7. Be sure to enter unique paths each field. You must enter the UNC path to the server on these fields (for example: \\abcdefg\program files\medisoft\pm).
8. Click the **OK** button.
9. Complete the fields on the Settings screen, making sure to select the correct Connection Type and the correct Practice Name.
10. Click the **OK** button.
11. On the MPIC Control Panel, click the **Initialize Data** button. The Initialize Data screen appears.
12. Select the connection and select the check boxes for the types of data you want to synch.
13. Click the **Synch** button. The Enter Remote Login Information screen appears.

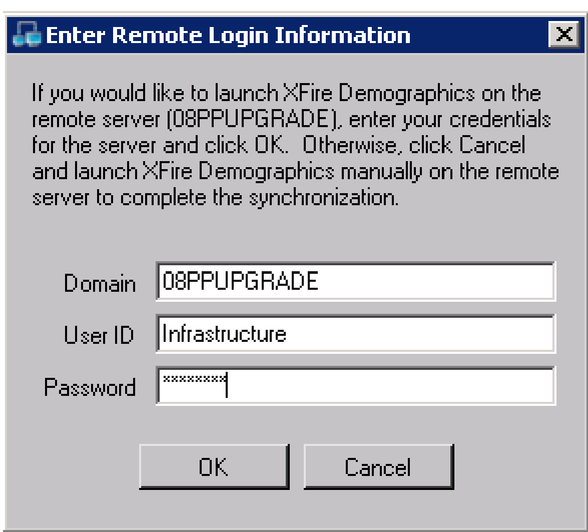


Figure 15. Enter Remote Login Information screen

14. Enter the information for the remote server.
15. Click the **OK** button. The data is synched.
16. Select either **Patients** or **Patients and Appointments**.
17. Click the **Load** button. The Send All Records screen appears, showing you the progress in transferring patients and/or appointments.

    When the process is complete, all patients and/or appointments will be sent to the EMR. Depending on the number of patients and appointments, as well as your filter selections, this transmission could take some time. The Last Load Time will be updated on the Initialize Data screen.

    Clicking View Log will open the log. For more information, see “Viewing logs” on page 32.
18. Close the Initialize Data screen.
19. Double-click the MPIC icon on the desktop. The MPIC Control Panel appears.
20. Click **Start Services**. Now, MPIC will continually monitor changes in patient information and appointments and transmit these changes between applications behind the scenes.

Viewing logs

MPIC creates logs as it processes transactions. These logs show you what data has transferred and what errors, if any, have occurred.

To view logs:

1. On the MPIC Control Panel, click the **View Logs** button. The View Logs screen appears.

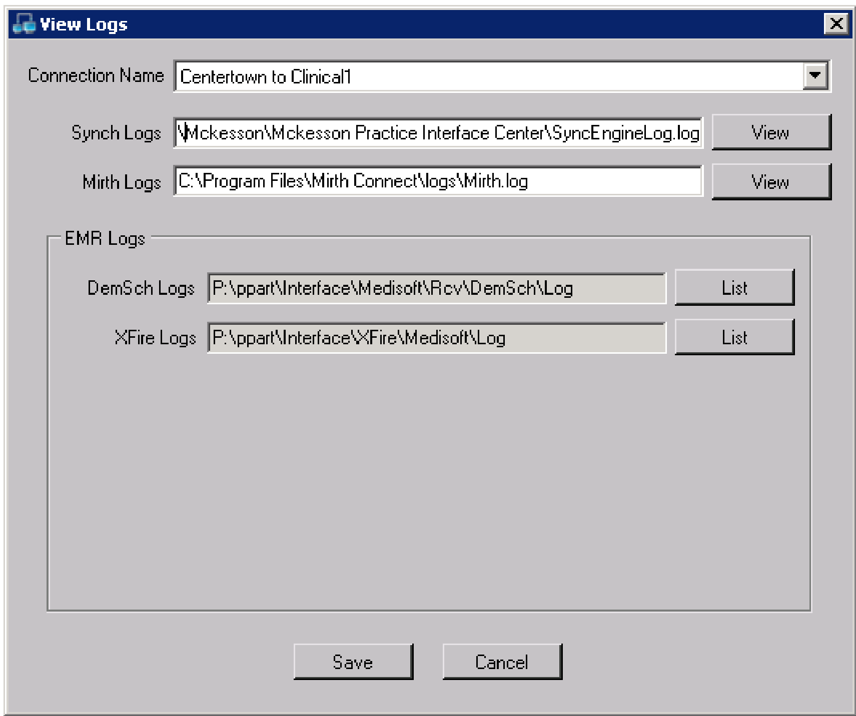


Figure 16. View Logs screen

This screen shows you the available logs and their location on the disk.

2. Select the Connection Name that you want to see logs for.
3. Click the **View** or **List** button next to each log to view the log.

Log	Description
Synch Logs	Use this to see the folder where this log is stored. For more information, see "Synch logs" on page 33.
Mirth Logs	Use this to see the folder where this log is stored. For more information, see "Mirth Log" on page 35.
DemSch Logs	Use this to see the folder where this log is stored.
XFire Logs	Use this to see the folder where this log is stored. For more information, see "EMR Logs" on page 35.
View	Use this to open the log in Notepad.

Log	Description
List	Use this to see the log in the list section of the screen below the XFire Logs field.

Synch logs

The Synch logs show you the activity of the McKesson Practice Interface Service itself, that is, the service that controls the real-time transfer of all data between the practice management application and the EMR. It will show you the date and time of the transfer, the practice, and what data was transferred. Both real-time transfers of data, such as changes to appointments and patient demographics, and one-time transfers of data, such as sending providers or initial loads of patient data will appear in the Synch logs.

Figure 17 shows the transmission of a change to a patient record. The log shows the date, the number of triggers, the Event Type (A08, the change of patient information), and the patient ID. For more information on Event Types, see "Transmitted Information" on page 55).

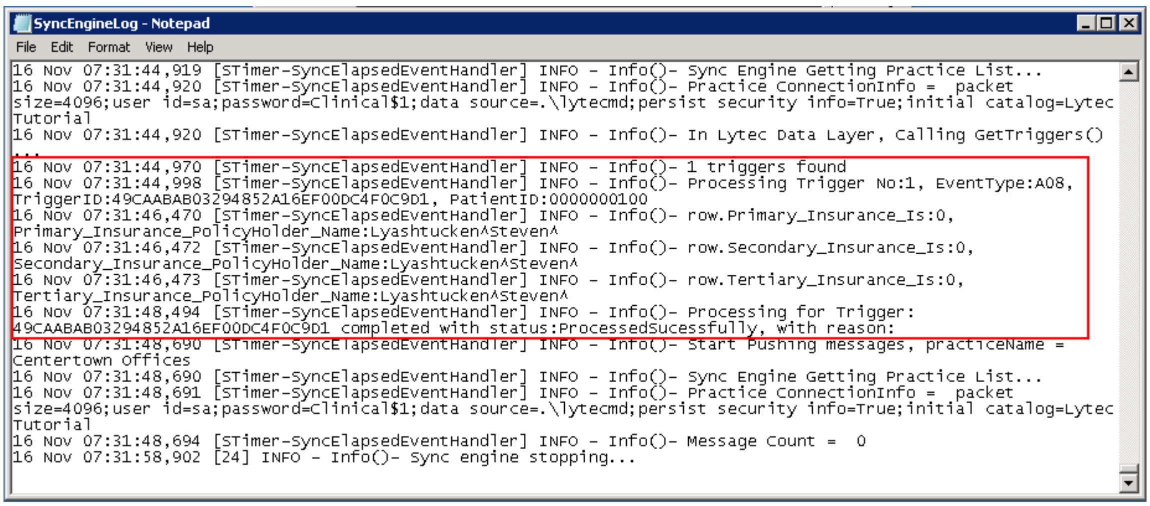


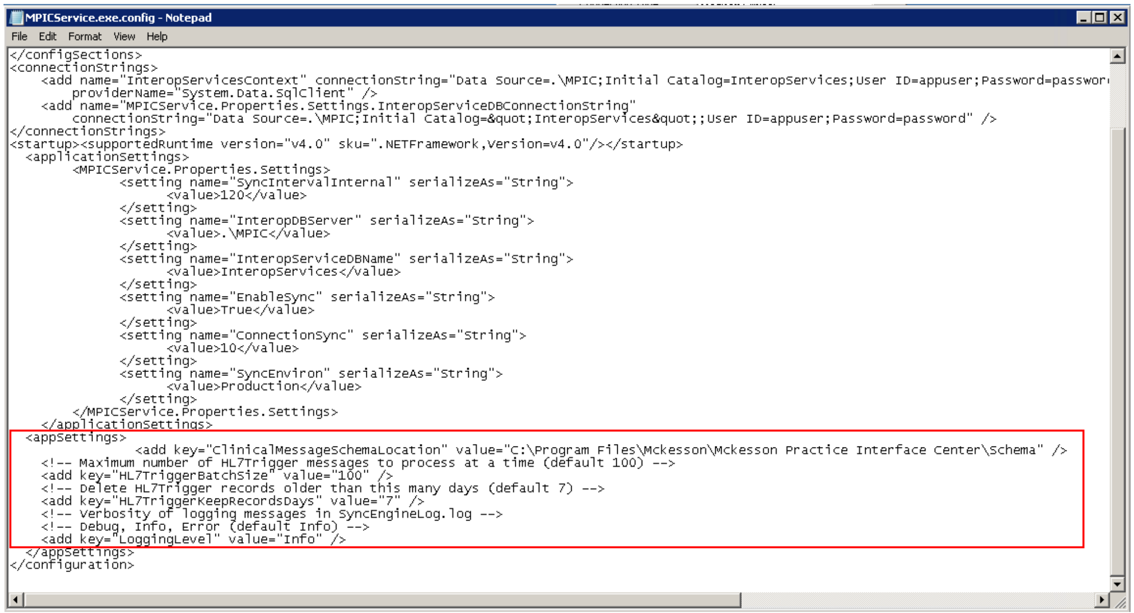
Figure 17. Synch log with trigger highlighted

This size of this log is limited to 10MB. When the file reaches this size, it will be renamed and a second synch log will be created automatically. There is a limit of four synch logs. When a fifth one is created, the oldest one will be deleted and the others will be renamed.

Modifying the Synch Log

You can control which types of information appear in the Synch log by editing the file MPICService.exe,config. This file is located at C:\Program Files\Mckesson\Mckesson Practice Interface Center on your hard drive.

When you open the file in Notepad, it looks like this:




```
</configSections>
<connectionStrings>
    <add name="InteropServicesContext" connectionString="Data Source=.\MPIC;Initial Catalog=InteropServices;User ID=appuser;Password=passwor
        providerName="System.Data.SqlClient" />
    <add name="MPICService.Properties.Settings.InteropServiceDBConnectionString"
        connectionString="Data Source=.\MPIC;Initial Catalog=&quot;InteropServices&quot;;User ID=appuser;Password=password" />
</connectionStrings>
<startup><supportedRuntime version="v4.0" sku=".NETFramework,Version=v4.0"/></startup>
  <applicationSettings>
        <MPICService.Properties.Settings>
              <setting name="SyncIntervalInternal" serializeAs="String">
                    <value>120</value>
              </setting>
              <setting name="InteropDBServer" serializeAs="String">
                    <value>.\MPIC</value>
              </setting>
              <setting name="InteropServiceDBName" serializeAs="String">
                    <value>InteropServices</value>
              </setting>
              <setting name="EnableSync" serializeAs="String">
                    <value>True</value>
              </setting>
              <setting name="ConnectionSync" serializeAs="String">
                    <value>10</value>
              </setting>
              <setting name="SyncEnviron" serializeAs="String">
                    <value>Production</value>
              </setting>
        </MPICService.Properties.Settings>
    </applicationSettings>
  <appSettings>
              <add key="ClinicalMessageSchemaLocation" value="C:\Program Files\Mckesson\Mckesson Practice Interface Center\Schema" />
    <!-- Maximum number of HL7Trigger messages to process at a time (default 100) -->
    <add key="HL7TriggerBatchSize" value="100" />
    <!-- Delete HL7Trigger records older than this many days (default 7) -->
    <add key="HL7TriggerKeepRecordsDays" value="7" />
    <!-- Verbosity of logging messages in SyncEngineLog.log -->
    <!-- Debug, Info, Error (default Info) -->
    <add key="LoggingLevel" value="Info" />
  </appSettings>
</configuration>
```

Figure 18. MPICService.exe.config

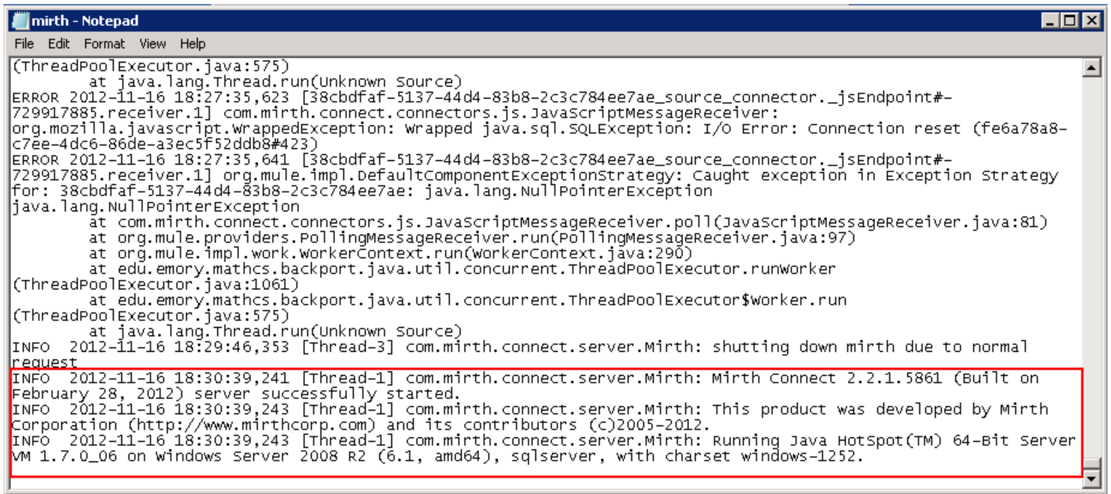
Scroll to the section highlighted in Figure 18 and you have three options you can edit.

Option	Description
HL7TriggerBatchSize	This option controls how many triggers are in a batch for transmission. Setting this value allows MPIC to process batches of triggers more quickly.
HL7TriggerKeepRecordsDays	This option controls how many days that triggers will be kept in the table. Limiting the number of days will keep the trigger table smaller.
LoggingLevel	This option controls which items appear in the Synch log. Choices are: • Error: Entering Error will limit the items in the Synch log to errors. • Info: Entering Info will limit the items in the Synch log to errors and informational entries (processing messages). • Debug: Entering Debug will include errors, informational messages, and debugging messages.

If you make any changes to this file, be sure to save them. In addition, you must restart the service from the MPIC Control Panel after changing this file.

Mirth Log

The Mirth log shows you activity in Mirth Connect, such as a successful connection to the database and number of records transferred. Real-time transfers of appointments, changes to patient demographics, and transfers of transactions all use Mirth Connect and appear in the Mirth log. One-time transfers of data from the Initialize Data screen do NOT use the Mirth log. Figure 19 shows the successful start of Mirth Connect.



mirth - Notepad

File Edit Format View Help

```
(ThreadPoolExecutor.java:575)
        at java.lang.Thread.run(Unknown Source)
ERROR 2012-11-16 18:27:35,623 [38cbdfaf-5137-44d4-83b8-2c3c784ee7ae_source_connector._jsEndpoint#-
729917885.receiver.1] com.mirth.connect.connectors.js.JavaScriptMessageReceiver:
org.mozilla.javascript.WrappedException: Wrapped java.sql.SQLException: I/O Error: Connection reset (fe6a78a8-
c7ee-4dc6-86de-a3ec5f52ddb8#423)
ERROR 2012-11-16 18:27:35,641 [38cbdfaf-5137-44d4-83b8-2c3c784ee7ae_source_connector._jsEndpoint#-
729917885.receiver.1] org.mule.impl.DefaultComponentExceptionStrategy: Caught exception in Exception Strategy
for: 38cbdfaf-5137-44d4-83b8-2c3c784ee7ae: java.lang.NullPointerException
java.lang.NullPointerException
        at com.mirth.connect.connectors.js.JavaScriptMessageReceiver.poll(JavaScriptMessageReceiver.java:81)
        at org.mule.providers.PollingMessageReceiver.run(PollingMessageReceiver.java:97)
        at org.mule.impl.work.WorkerContext.run(WorkerContext.java:290)
        at edu.emory.mathcs.backport.java.util.concurrent.ThreadPoolExecutor.runWorker
(ThreadPoolExecutor.java:1061)
        at edu.emory.mathcs.backport.java.util.concurrent.ThreadPoolExecutor$Worker.run
(ThreadPoolExecutor.java:575)
        at java.lang.Thread.run(Unknown Source)
INFO  2012-11-16 18:29:46,353 [Thread-3] com.mirth.connect.server.Mirth: shutting down mirth due to normal
request
INFO  2012-11-16 18:30:39,241 [Thread-1] com.mirth.connect.server.Mirth: Mirth Connect 2.2.1.5861 (Built on
February 28, 2012) server successfully started.
INFO  2012-11-16 18:30:39,243 [Thread-1] com.mirth.connect.server.Mirth: This product was developed by Mirth
Corporation (http://www.mirthcorp.com) and its contributors (c)2005-2012.
INFO  2012-11-16 18:30:39,243 [Thread-1] com.mirth.connect.server.Mirth: Running Java HotSpot(TM) 64-Bit Server
VM 1.7.0_06 on Windows Server 2008 R2 (6.1, amd64), sqlserver, with charset windows-1252.
```

Figure 19. Mirth log

EMR Logs

These logs show you data that was transmitted to and from the EMR. You can see successful transmissions as well as errors that you can use to correct information in records.

DemSch Logs

Clicking the View button for DemSch Logs will display a list of logs in the View Logs screen:

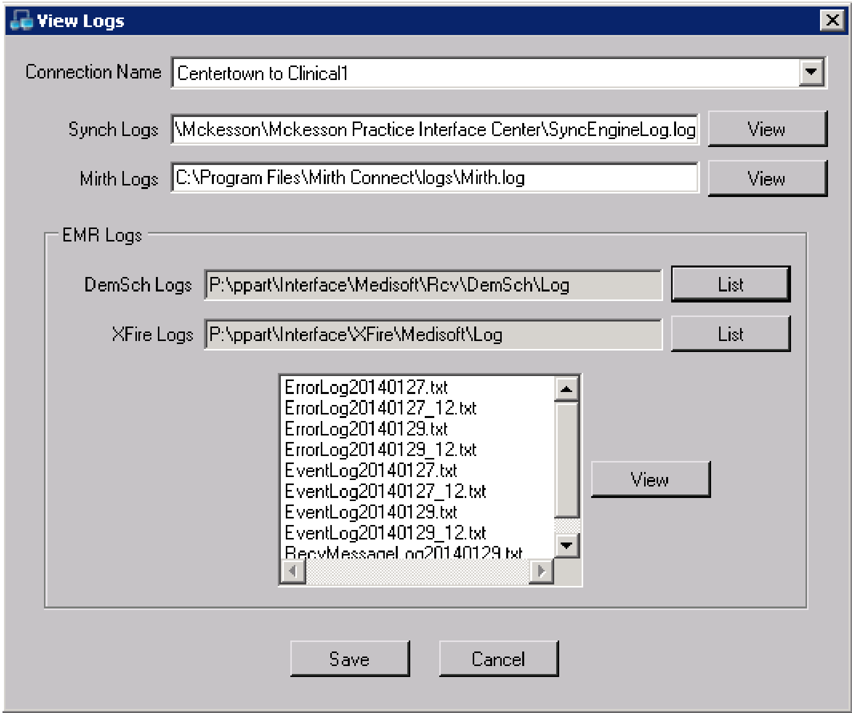


Figure 20. View Logs screen with DemSch Logs

In turn, clicking one of the event logs will open the log in Notepad. This log will show you information that is being transmitted from the practice management application to the EMR. This includes real-time transfers of data, such as appointments and changes to patient demographics.

Figure 21 shows an example of the DemSch log with a message of a real-time transfer of data. It shows the date of the transfer, the practice, the type of transfer, and patient demographics.

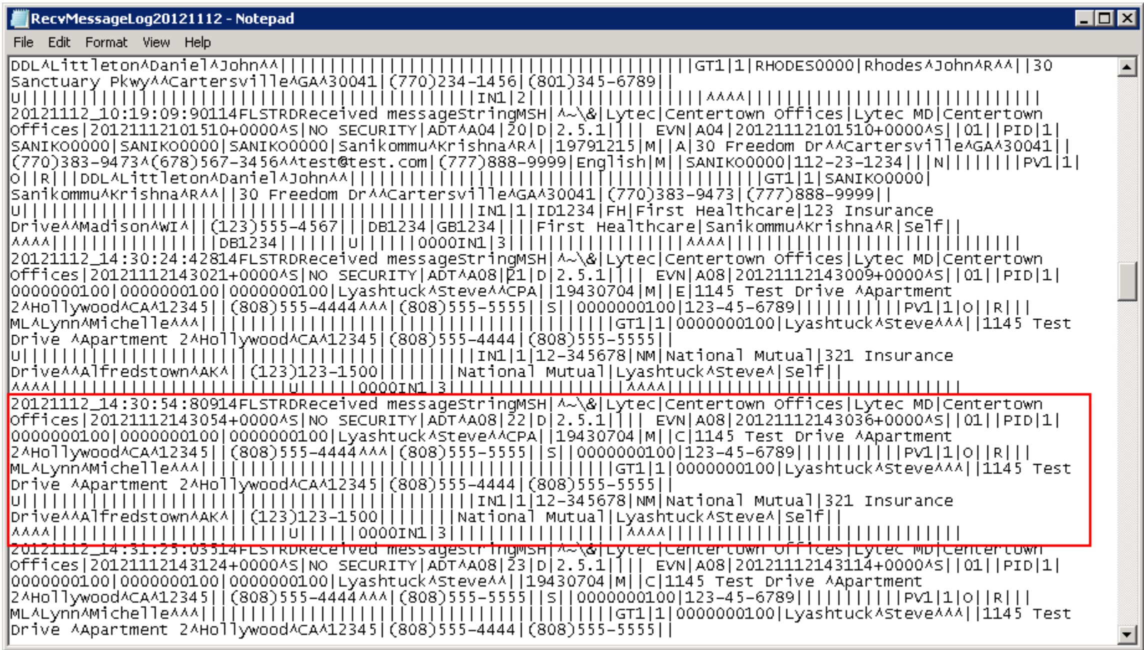


Figure 21. DemSch log

XFire Logs

Clicking the View button for XFire Logs will display a list of logs in the View Logs screen:

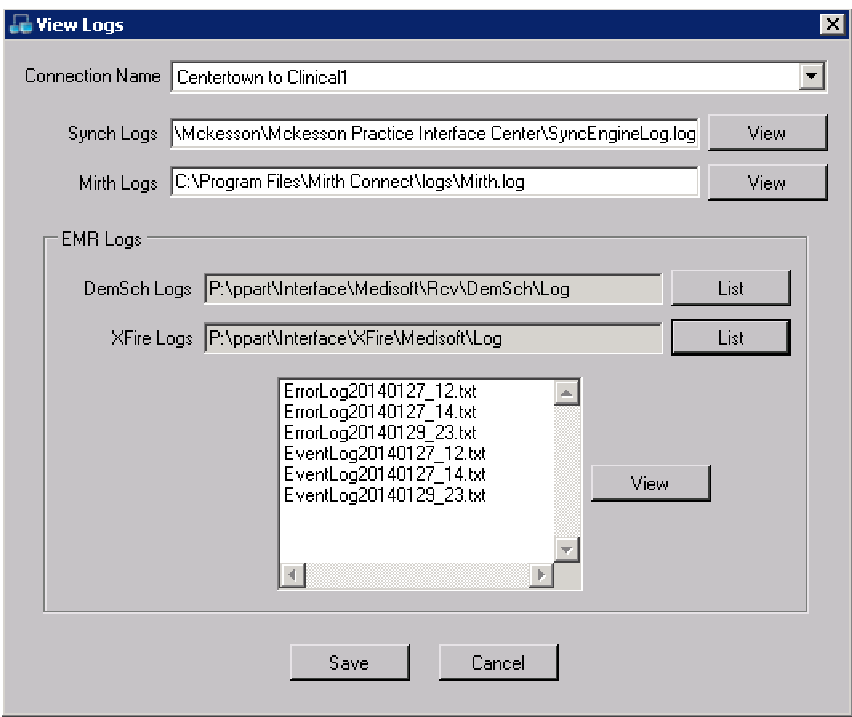
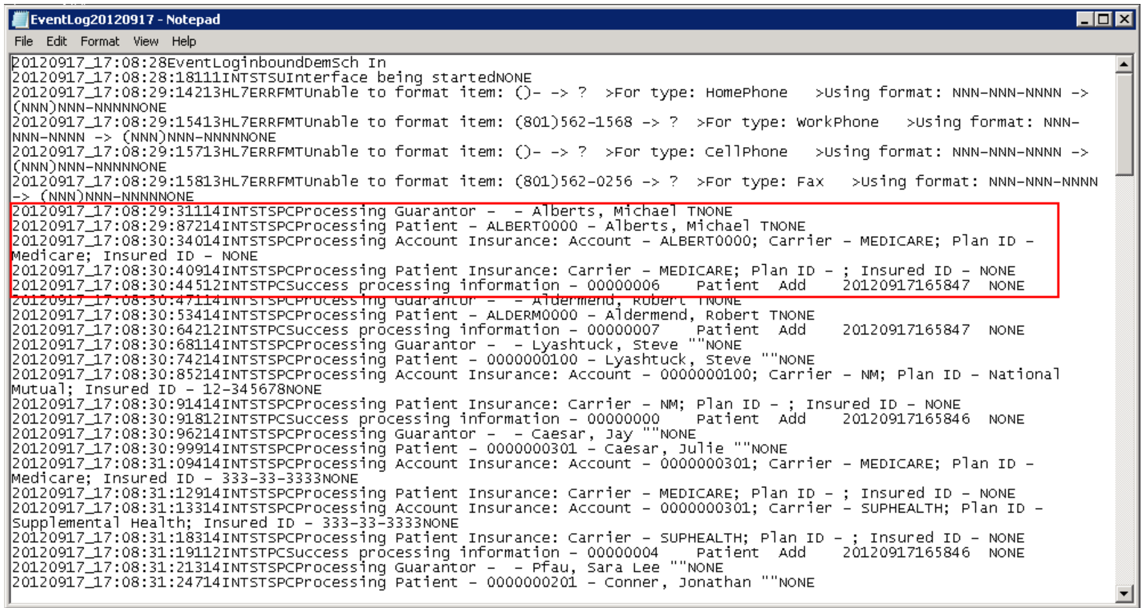


Figure 22. View Logs screen with XFire Logs

In turn, clicking one of the event logs will open the log in Notepad. The XFire log shows you data that is sent to the EMR using the Initialize Data screen, such as sending Providers and Facilities, or loading patients and/or appointments. Any errors in the transmission of this data will appear in the XFire log.

Be sure to enter valid paths in these fields or you will receive an error.

Figure 23 shows an example of the processing of a patient record. The log shows the patient name, ID, and insurance carriers.



EventLog20120917 - Notepad

File Edit Format View Help

```
20120917_17:08:28EventLoginboundDemSch In
20120917_17:08:28:18111INTSTSUInterface being startedNONE
20120917_17:08:29:14213HL7ERRFMTUnable to format item: ()- -> ?  >For type: HomePhone   >Using format: NNN-NNN-NNNN ->
(NNN)NNN-NNNNNONE
20120917_17:08:29:15413HL7ERRFMTUnable to format item: (801)562-1568 -> ?  >For type: WorkPhone   >Using format: NNN-
NNN-NNNN -> (NNN)NNN-NNNNNONE
20120917_17:08:29:15713HL7ERRFMTUnable to format item: ()- -> ?  >For type: CellPhone   >Using format: NNN-NNN-NNNN ->
(NNN)NNN-NNNNNONE
20120917_17:08:29:15813HL7ERRFMTUnable to format item: (801)562-0256 -> ?  >For type: Fax   >Using format: NNN-NNN-NNNN
-> (NNN)NNN-NNNNNONE
20120917_17:08:29:31114INTSTSPCProcessing Guarantor -  - Alberts, Michael TNONE
20120917_17:08:29:87214INTSTSPCProcessing Patient - ALBERT0000 - Alberts, Michael TNONE
20120917_17:08:30:34014INTSTSPCProcessing Account Insurance: Account - ALBERT0000; Carrier - MEDICARE; Plan ID -
Medicare; Insured ID - NONE
20120917_17:08:30:40914INTSTSPCProcessing Patient Insurance: Carrier - MEDICARE; Plan ID - ; Insured ID - NONE
20120917_17:08:30:44512INTSTPCSuccess processing information - 00000006    Patient  Add    20120917165847  NONE
20120917_17:08:30:47114INTSTSPCProcessing Guarantor -  - Aldermend, Robert TNONE
20120917_17:08:30:53414INTSTSPCProcessing Patient - ALDERM0000 - Aldermend, Robert TNONE
20120917_17:08:30:64212INTSTPCSuccess processing information - 00000007    Patient  Add    20120917165847  NONE
20120917_17:08:30:68114INTSTSPCProcessing Guarantor -  - Lyashtuck, Steve ""NONE
20120917_17:08:30:74214INTSTSPCProcessing Patient - 0000000100 - Lyashtuck, Steve ""NONE
20120917_17:08:30:85214INTSTSPCProcessing Account Insurance: Account - 0000000100; Carrier - NM; Plan ID - National
Mutual; Insured ID - 12-345678NONE
20120917_17:08:30:91414INTSTSPCProcessing Patient Insurance: Carrier - NM; Plan ID - ; Insured ID - NONE
20120917_17:08:30:91812INTSTPCSuccess processing information - 00000000    Patient  Add    20120917165846  NONE
20120917_17:08:30:96214INTSTSPCProcessing Guarantor -  - Caesar, Jay ""NONE
20120917_17:08:30:99914INTSTSPCProcessing Patient - 0000000301 - Caesar, Julie ""NONE
20120917_17:08:31:09414INTSTSPCProcessing Account Insurance: Account - 0000000301; Carrier - MEDICARE; Plan ID -
Medicare; Insured ID - 333-33-3333NONE
20120917_17:08:31:12914INTSTSPCProcessing Patient Insurance: Carrier - MEDICARE; Plan ID - ; Insured ID - NONE
20120917_17:08:31:13314INTSTSPCProcessing Account Insurance: Account - 0000000301; Carrier - SUPHEALTH; Plan ID -
Supplemental Health; Insured ID - 333-33-3333NONE
20120917_17:08:31:18314INTSTSPCProcessing Patient Insurance: Carrier - SUPHEALTH; Plan ID - ; Insured ID - NONE
20120917_17:08:31:19112INTSTPCSuccess processing information - 00000004    Patient  Add    20120917165846  NONE
20120917_17:08:31:21314INTSTSPCProcessing Guarantor -  - Pfau, Sara Lee ""NONE
20120917_17:08:31:24714INTSTSPCProcessing Patient - 0000000201 - Conner, Jonathan ""NONE
```

Figure 23. XFire log

Flow of information

Real-time transfers

Data that is transmitted in real-time, such as changes to patient demographics, appointments, and transactions will flow between applications in this order:

1. McKesson Practice Interface Center Service
2. Mirth Connect
3. DemSch Interface

Real-time transfers of data will flow in both directions: demographics and scheduling information will flow from the practice management system to the EMR and billcode information will flow from the EMR to the practice management system.

One-Time transfers

Data that is transmitted as part of a one-time transfer, such as sending providers and facilities, will flow between applications in this order:

1. McKesson Practice Interface Center Service
2. Crossfire (XFire)

One-time data transfer is one way only: from the practice management system to the EMR.

Log summary

Each log corresponds to the activity of one of the applications used in real-time or one-time transfer of data:

Application	Associated Log	Time of transfer
McKesson Practice Interface Center Service	Synch	Real-time/one-time
Mirth Connect	Mirth	Real-time
DemSch Interface	DemSch	Real-time
Crossfire (XFire)	XFire	One-time

If there is a problem with data transfer, you can check the logs in the order of the flow of information and find where the problem occurred. Each log will show you errors in transmission.

For more help troubleshooting issues with MPIC, see https://mckwiki.mckesson.com/pps-var-central/mpic_troubleshooting_guide.

Create New Connection screen

Use this screen to enter a Connection Name for a new connection.

Figure 24. Create New Connection screen

Folders screen

Use the Folders screen to specify where HL7 messages will be stored when you select a Lytec MD or Medisoft Clinical connection type. The folders will be set up automatically based on the interface you select. Once the data in these folders has been processed, it will be deleted.

You will see this screen when you click the EMR Settings button from the Settings screen and you are configuring a Lytec MD or Medisoft Clinical connection.

For all connections to remote servers, you must enter the UNC path to the server folder. You cannot use a mapped network drive. If you click the Browse button and select a mapped network drive, it will be changed automatically to the correct UNC path.

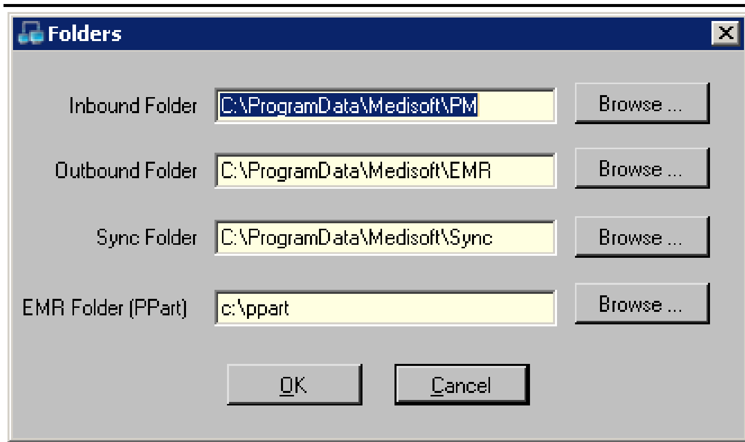


Figure 25. Folders screen

Folder	Description
Inbound Folder	Use this to select the folder for the inbound HL7 file. This folder will hold the files that come from the EMR to the practice management system.

Folder	Description
Outbound Folder	Use this to select the folder where the outbound HL7 file will be deposited. This folder will hold the files that come from the practice management system to the EMR.
Sync Folder	Use this to select the folder where the updated library files (updates to providers, facilities, procedure codes, and diagnosis codes) will be placed for synchronization.
EMR Folder (PPart)	Use this to select the folder where Practice Partner is installed.

RelayHealth Settings screen

Use the RelayHealth Settings screen to enter information that you received from RelayHealth. This information will enable MPIC to send your patient demographic information to the correct practice at RelayHealth. Also, specify the folder where data will be stored.

You will see this screen when you click the EMR Settings button from the Settings screen and you are configuring a Relay Health connection. You will also see it when configuring a Lytec MD or Medisoft Clinical connection and you click the Relay Health Settings button.

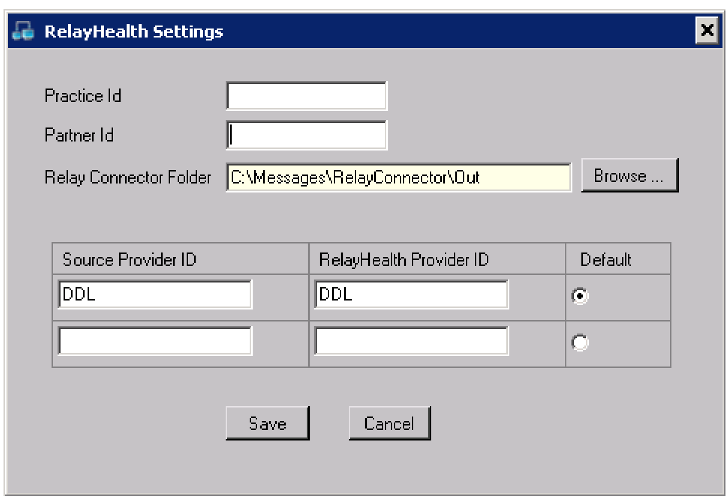


Figure 26. RelayHealth Settings screen

Folder	Description
Practice Id	Use this field to enter the Practice ID you received from RelayHealth. This is the Practice ID that RelayHealth has in its database.
Partner Id	Use this field to enter the Partner ID you received from RelayHealth. This value denotes the Sending Facility.

Folder	Description
Relay Connector Folder	Use this field to specify the folder where demographic information will be stored before it is sent to RelayHealth. Data transfers will be placed as files in this folder. The RelayConnector Configuration Utility will then send the information in these files to RelayHealth. The files will then be deleted. You will need to know this path when you set up the RelayConnector Configuration Utility. For more information, see "Configure the Relay Connector Configuration Utility" on page 51. In addition, if you have more than one connection, you must enter a UNC path in this field for all connections except the first one you created.
Browse	Click this button to look for the folder you want demographic information to be stored in.
Source Provider ID	Enter the ID of your provider from Medisoft or Lytec. Use these fields for each of your providers. Enter a Source Provider ID value and a RelayHealth value for as many providers as you have set up in RelayHeatlh. The screen will expand so you can enter more providers.
RelayHealth Provider ID	Enter the corresponding ID for your provider in RelayHealth. This field, coupled with the Source Provider IDs field, enables MPIC to know which provider in Medisoft or Lytec to match to which provider in RelayHealth. RelayHealth will send you a list of your provider IDs when you sign up.
Default	Select this button for the provider that will be your default provider.

MPIC Database Settings screen

Use this screen to create a new SQL database for MPIC.

Warning: creating a new MPIC database will cause MPIC to lose all existing settings and configuration options and return it to its installation state.

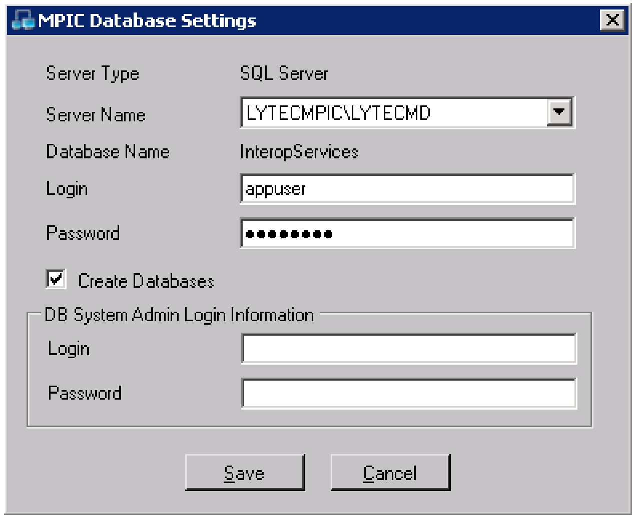


Figure 27. MPIC Database Settings screen

Field	Description
Server Type	This field displays the type of server.
Server Name	Use this field to select the database. For Lytec users who want to use the same database as Lytec, use the value in the Server field on the Specify Default SQL Credentials screen. Medisoft users will use the MPIC instance.
Database Name	This field displays the database name.
Login	Use this to enter the login name for the database.
Password	Use this to enter the password for the login.
Create Databases	Select this check box to display the login fields for the database system administrator login information. Select this option if you want to create a new MPIC Interop database on the database you selected in the Server Name field. You will need to do this if you are installing MPIC for the first time. Note: Creating a new database will result in the loss of all existing configuration settings.
Login	Enter the login for the system administrator.
Password	Enter the password for the system administrator.
Save	Click this button to save the settings.
Cancel	Click this button to cancel any changes to settings.

For issues with troubleshooting, see the MPIC Troubleshooting Guide at https://mckwiki.mckesson.com/pps-var-central/mpic_troubleshooting_guide.

Enter Remote Login Information screen

Use this screen to enter login credentials for XFire Demographics when MPIC is trying to start it on a remote server.

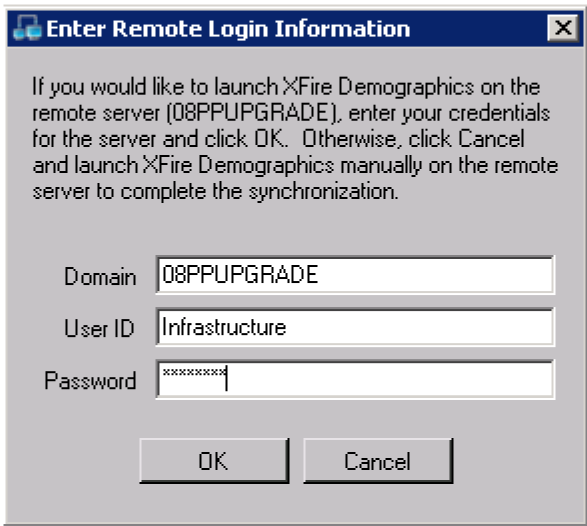


Figure 28. Enter Remote Login Information screen

Field	Description
Domain	Enter the server name or IP address in the Domain field. The user account you enter must have administrative rights on the remote server.
User ID	Enter the ID of the user for the remote server.
Password	Enter the password of the user for the remote server.

Chapter 4 - RelayClinical eScript Connection

You can use MPIC to transmit patient demographic information from Medisoft or Lytec to RelayHealth for ePrescribing purposes. This is a single direction transfer of data only and only sends demographic information. No scheduling data is transferred. The MPIC connection uses the RelayHealth Relay Connector to send data to RelayHealth. For more information on what information is transferred, see "Medisoft or Lytec to RelayHealth" on page 69.

Sign up with RelayHealth

To begin the process of signing up a practice for the RelayHealth connection, visit Forms Central at https://mckwiki.mckesson.com/pps-var-central/forms%20central%20vars. Here, you will find the forms you need to enroll a practice. Send these forms to relayhealthagreements@mckesson.com when your customer has completed them.

Download and install the Relay Connector Configuration Utility

Install the Relay Connector Configuration Utility on your server computer. This must be the same computer that MPIC is installed on.

To download and install Relay Connector, use the Installation Guide for Relay Connector. You can find this guide at https://mckwiki.mckesson.com/pps-var-central/forms%20central%20vars. Select the link for Relay Connector Install Guide.

You can obtain the zipped file to install Relay Connector here: https://mckwiki.mckesson.com/pps-var-central/forms%20central%20vars. Click the link for Relay Connector Setup Guide. You will need to unzip the program file.

McKesson highly recommends that you use a static IP address for this connection.

Configure MPIC

You can set up this connection either in conjunction with a connection to Medisoft Clinical or Lytec MD or you can set it up as a stand alone connection. Use the table below to find the steps to set up MPIC according to your need.

Stand alone connection?	Follow these steps:
Yes	"Configuring MPIC for RelayHealth with Medisoft Clinical or Lytec MD" on page 49
No	"Configuring MPIC while configuring Medisoft or Lytec" on page 49

Configuring MPIC with RelayHealth as a stand alone connection

Use these steps if you want to use MPIC only to send data from Medisoft or Lytec to RelayHealth.

Creating the connection

Use these steps to create the connection.

1. Double-click the MPIC icon on the desktop. The MPIC Control Panel appears.

2. Click the **Settings** button. The Initialize Interface Settings screen appears.

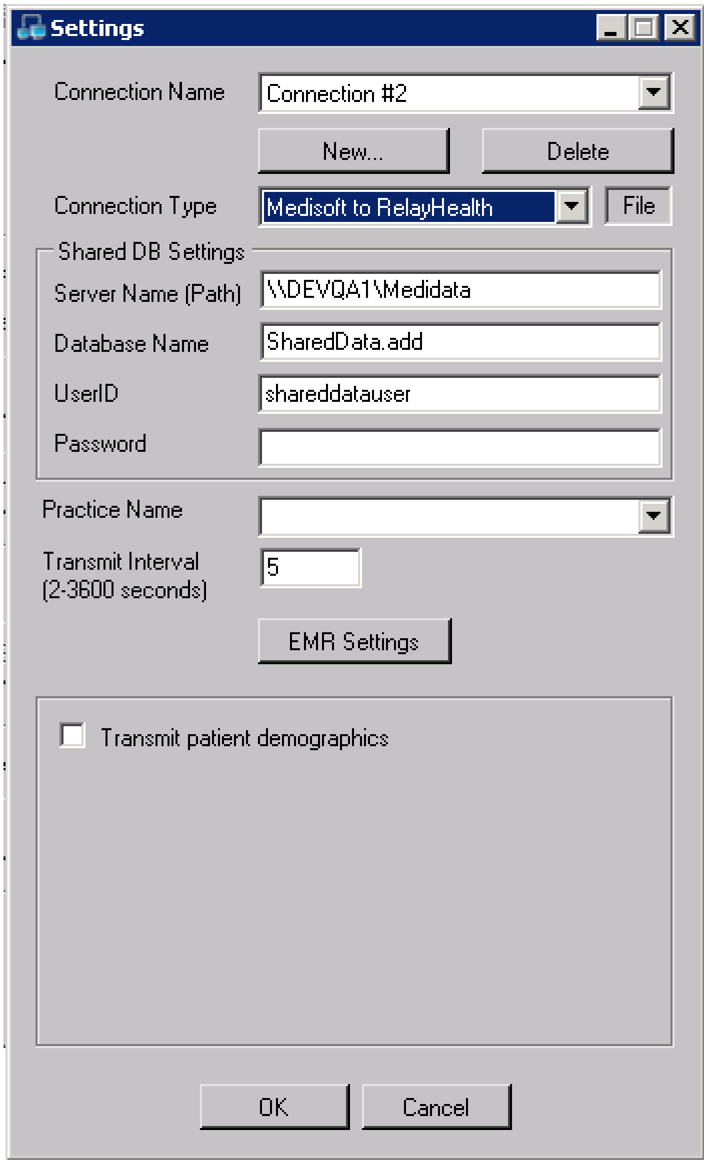


Figure 29. Interface Settings screen

Field/Button/Link	Description
Connection Name	Use this drop-down list to select a connection. Connection Names are added when you click the New button and add a new connection.
New	Click this button to open the Create New Connection screen on which you can add a new connection. For more information, see "Create New Connection screen" on page 40.

Field/Button/Link	Description
Delete	Select this button to delete the existing connection and all background information on the connection. You will receive a warning prior to the deletion of the connection. This button will be disabled if there is no existing connection. Note: You must click the OK button on the Settings screen to complete the deletion of the connection.
Connection Type	Select a connection type from the drop-down list. The list will include all types currently available. Select either Lytec to RelayHealth or Medisoft to RelayHealth. The connection contains hard-coded information specifically designed to enable the two applications to transmit data to one another.
Server Name (Path)	Enter the path of the server that MPIC is installed on.
Database Name	Use this to enter the name of the database.
User ID	Enter the ID of the administrative user.
Password	Enter the Password of the administrative user.
Practice Name	Select the appropriate practice from the drop-down list.
Transmit Interval (30-3600 seconds)	Use these fields to specify the amount of time in between transmissions of data. The default, recommended value is 120. The transmitting features use this option but the syncing features do not.
EMR Settings	Click this button to open the RelayHealth Settings screen, on which you can enter data that RelayHealth sent you for your connection.
Transmit patient demographics	Select this check box if you want to transmit demographic information for new patients or changed information from the practice management system to RelayHealth.
Save	Use this to save changes to the Settings screen.
Delete	Select this button to delete the existing connection and all background information on the connection. You will receive a warning prior to the deletion of the connection. This button will be disabled if there is no existing connection.
Cancel	Use this to cancel any changes made to the Settings screen.

3. Click the **New** button. The Create New Connection screen appears.
4. Enter a Connection Name.
5. Click the **OK** button.
6. On the Settings screen, select a connection type option from the drop-down menu. The interface contains various default settings used for the starting point for a connection. These

settings help establish settings for one or more connections. When you select the interface many of the fields on this screen will be filled automatically.

7. Complete the other fields on this screen as necessary.
8. Click the **EMR Settings** button. The RelayHealth Settings screen appears.
9. Complete the fields on this screen and click the **Save** button. For more information, see “RelayHealth Settings screen” on page 41. Make sure you enter the correct Source Provider IDs and RelayHealth Provider IDs for each of your providers.You can find your provider IDs in Medisoft or Lytec, and RelayHealth will provide your Relay Health Provider IDs when you sign up.
10. On the Settings screen, select the Transmit Patient Demographics check box.
11. Click the **OK** button.
12. Go to “Configure the Relay Connector Configuration Utility” on page 51.

Configuring MPIC for RelayHealth with Medisoft Clinical or Lytec MD

Use the table below to determine which configuration steps to use.

Have you already configured MPIC for Medisoft or Lytec?	Follow these steps:
No	“Configuring MPIC while configuring Medisoft or Lytec” on page 49.
Yes	“Configuring MPIC after configuring Medisoft or Lytec” on page 49.

Configuring MPIC while configuring Medisoft or Lytec

If you have all of the information at hand to set up your connection to RelayHealth at the same time that you want to set up your connection with Medisoft or Lytec, simply follow the normal set up procedure. See “Configuring a connection” on page 21. Be sure to perform the steps provided for the RelayHealth connection.

Configuring MPIC after configuring Medisoft or Lytec

Configuring the Settings screen

If you have already set up your connection for Medisoft or Lytec, follow these steps to set up the connection for RelayHealth.

1. Double-click the MPIC icon on the desktop. The MPIC Control Panel appears.
2. Click the **Stop Service** button.
3. Click the **Settings** button. The Settings screen appears.

4. Select the Transmit demographics to RelayHealth check box. The RelayHealth Settings button appears.

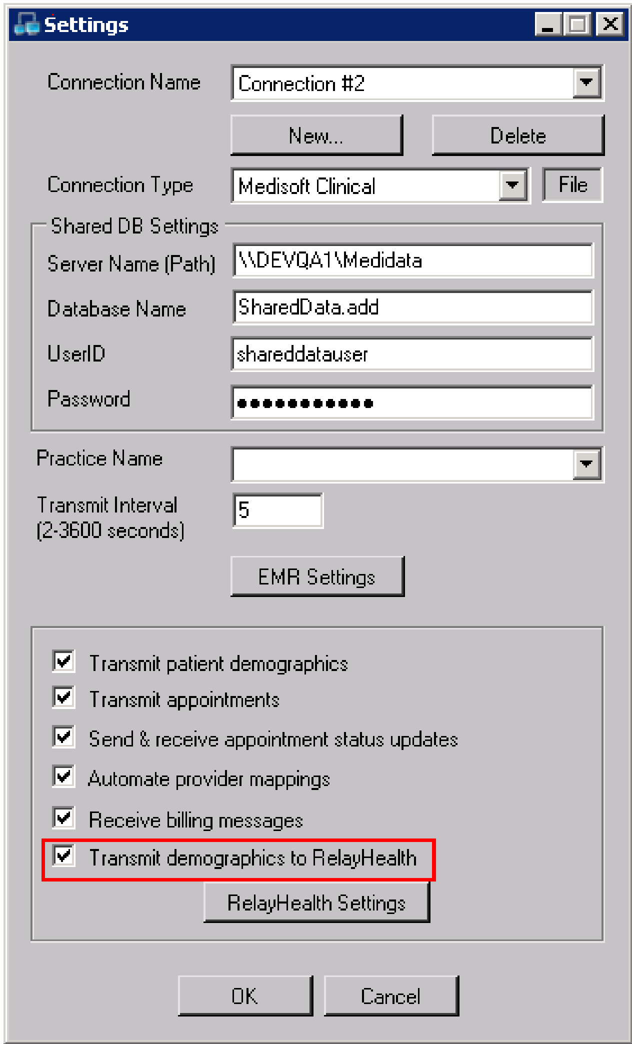


Figure 30. Settings screen

5. Click the **RelayHealth Settings** button. The RelayHealth Settings screen appears. For more information on this screen, see “RelayHealth Settings screen” on page 41.
6. Enter the Practice ID and Partner ID information you obtained from RelayHealth.
7. Select a folder for the data. Take note of the path for this folder because you will need it when you configure the Relay Connector Configuration Utility.
8. Enter the provider ID values.
9. Click the **Save** button.
10. Leave all of the remaining options on the Settings screen as they are.
11. Click the **Save** button on the Settings screen.

Configure the Relay Connector Configuration Utility

Once the connection in MPIC is created, configure RelayHealth using the Relay Connector Configuration Utility.

1. Launch the Relay Connector Configuration Utility.

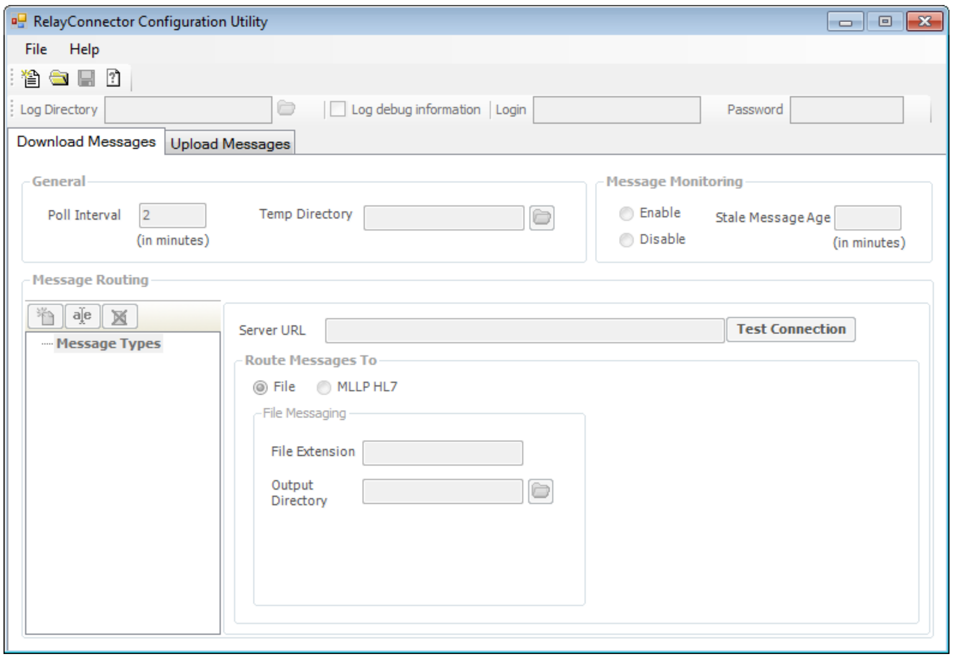


Figure 31. Relay Connector Configuration Utility

2. On the File menu, click **New Configuration**.

3. Click the **Upload Messages** tab.

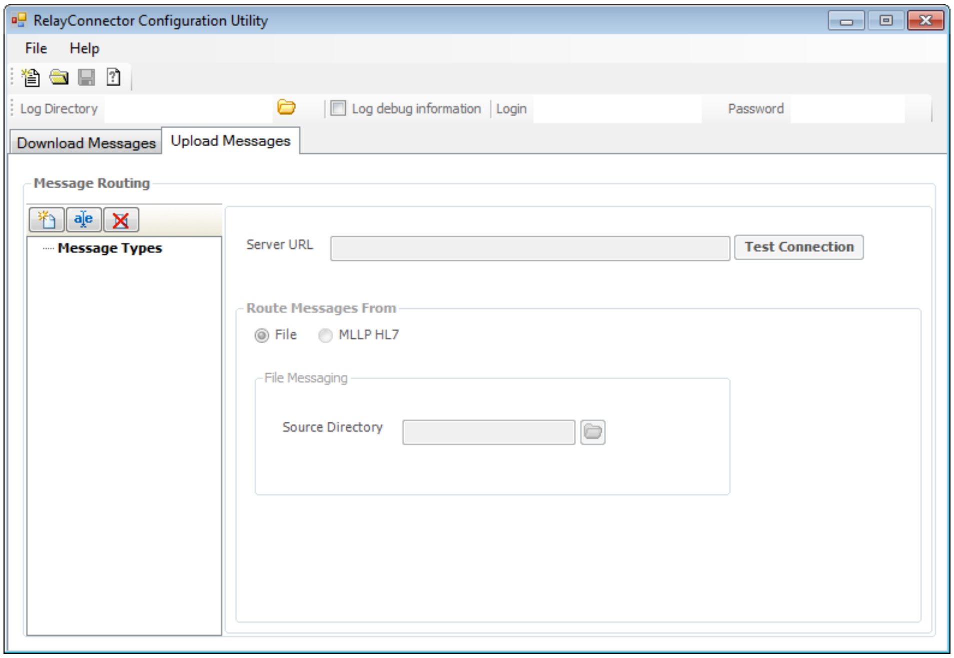


Figure 32. RelayConnector Configuration Utility - Upload Messages tab

4. Right-click Message Types in the Message Routing section of the screen and click **New**.
5. Enter a name for the Message Type.
6. In the Route Messages From section, select **File**.

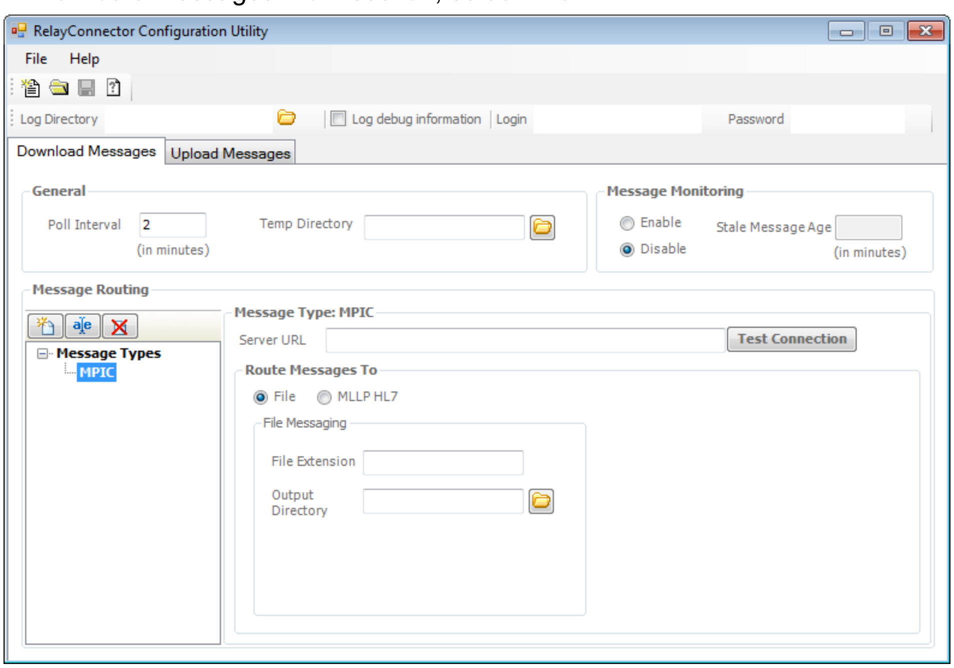


Figure 33. RelayConnector Configuration Utility

7. Enter or browse for the same path that you entered in the Folder field of the RelayHealth Settings screen in MPIC.
8. Click the **Save** icon.

Start the MPIC service

1. On the computer desktop, double-click the MPIC - McKesson Practice Interface Center icon. The MPIC Control Panel appears.
2. Click the **Start Service** button. If MPIC had been running before you added the RelayHealth connection, click the **Restart Service** button.

Appendix A - Transmitted Information

In this appendix are lists of the data that is transferred for the different Connection Types in MPIC.

In this chapter

Medisoft to Practice Partner

Message description

Message Type	Description
ADT A04	An ADT^A04 messages is created in response to a new patient event within the practice management System.
ADT A08	An ADT^A08 message is created in response to an update of patient information event within the practice management System.
ADT A40	An ADT^A40 message is not supported in Medisoft or Medisoft Clinical.

Exported segments

The detail for each segment follows this table.

Segment	Description
MSH	Message Header
EVN	Event Type
PID	Patient Identification
PV1	Patient Visit
IN1	Insurance (up to 3) (Optional)

MSH segment

Field	Included	Notes
1	X	“^~\&”
2	X	Sending Application – Use Practice ID
3	X	Sending Facility.
4	X	Receiving Application
5	X	Receiving Facility
6	X	Date/Time of Message
7	X	Security
8	X	Message Type

EVN segment

Field	Included	Notes
1	X	Event Code
2	X	Recorded Date Time
3		Date Time of Planned Event
4	X	Event Reason Code
5		Operator ID
6		Date Time that Event Occurred

PID segment

Field	Included	Notes
1	X	Set ID (always 1)
2	X	Patient ID
3	X	Patient Identifier List
4	X	Alternate Patient ID
5	X	Patient Name
6		Mother’s Maiden Name
7	X	Date Time of Birth
8	X	Sex
9		Patient Alias
10		Race
11	X	Patient Address
12		County Code

13	X	Home phone number ^ Cell Phone Number^<Spacer>^Email Address
14	X	Business phone number
15		Primary Language
16	X	Marital Status (Concept Only)
17		Religion
18	X	Patient account Number (Patient ID is used. Duplicate of field 2)
19	X	Patient SSN Number
20		Patient Drivers License Number
21		Mother’s Identifier
22		Ethnic Group
23		Birth Place
24		Multiple Birth Indicator
25		Birth Order
26		Citizenship
27		Veterans Military Status
28		Nationality
29	X	Patient Death Date Time (Concept Only)
30		Patient Death Indicator

PV1 segment

Field	Included	Notes
1	X	Set ID Always 1
2	X	Patient Class – Use “O”
3		Assigned Patient Location
4		Admission Type
5		Pre-admit Number
6		Prior Patient Location
7	X	Attending Doctor
8	X	Referring Doctor
9		Consulting Doctor
10		Hospital Service
11		Temporary Location
12		Pre-admit Test Indicator
13		Re-admission Indicator
14		Admit Source
15		Ambulatory Status
16		VIP Indicator
17		Admitting Doctor
18		Patient Type
19	X	Visit Number (Case number if available)
20		Financial Class
21		Charge Price Indicator
22		Courtesy Code
23		Credit Rating
24		Contract Code
25		Contract Effective Dat - Blank e
26		Contract Amount
27		Contract Period
28		Interest Code
29		Transfer to Bad Debt Code
30		Transfer to Bad Debt Date
31		Bad Debt Agency Code
32		Bad Debt Transfer Amount

33		Bad Debt Recovery Amount
34		Delete Account Indicator
35		Delete Account Date
36		Discharge Disposition
37		Discharged to Location
38		Diet Type
39		Servicing Facility
40		Bed Status
41		Account Status
42		Pending Location
43		Prior Temporary Location
44		Admit Date/Time
45		Discharge Date/Time
46		Current Patient Balance
47		Total Charges
48		Total Adjustments
49		Total Payments

IN1 segment

Field	Included	Notes
1	X	Set ID - IN1 – Use “1” for Insurance carrier # 1, “2” for carrier 2 etc. “1” represents the primary insurance carrier.
2	X	Insurance Plan ID – This is the Policy ID.
3	X	Insurance Company ID
4	X	Insurance Company Name
5	X	Insurance Company Address
6	X	Insurance Co Contact Person
7	X	Insurance Co Phone Number – Use blank string if only phone formatting found.
8	X	Group Number
9	X	Group Name
10	X	Insured’s Group Emp ID (Policy Number)
11		Insured’s Group Emp Name
12	X	Plan Effective Date
13	X	Plan Expiration Date

14		Authorization Information
15		Plan Type
16	X	Name Of Insured
17	X	Insured's Relationship To Patient
18	X	Insured's Date Of Birth
19	X	Insured's Address
20		Assignment Of Benefits
21		Coordination Of Benefits
22		Co-ord Of Ben. Priority
23		Notice Of Admission Flag
24		Notice Of Admission Date
25		Report Of Eligibility Flag
26		Report Of Eligibility Date
27		Release Information Code
28		Pre-Admit Cert (PAC)
29		Verification Date/Time
30		Verification By
31		Type Of Agreement Code
32		Billing Status
33		Lifetime Reserve Days
34		Delay Before L.R. Day
35		Company Plan Code
36	X	Policy Number
37		Policy Deductible
38		Policy Limit - Amount
39		Policy Limit - Days
40		Room Rate - Semi-Private
41		Room Rate - Private
42		Insured's Employment Status
43	X	Insured's Sex
44		Insured's Employer's Address
45		Verification Status
46		Prior Insurance Plan ID
47		Coverage Type

48		Handicap - Blank
49		Insured's ID Number

Lytec to Practice Partner

Message description

Message Type	Description
ADT A04	An ADT^A04 messages is created in response to a new patient event within the practice management System.
ADT A08	An ADT^A08 message is created in response to an update of patient information event within the practice management System.
ADT A40	An ADT^A40 message is not supported in Lytec or Lytec MD.

Exported segments

The detail for each segment follows this table.

Segment	Description
MSH	Message Header
EVN	Event Type
PID	Patient Identification
PV1	Patient Visit
IN1	Insurance (up to 3) (Optional)

MSH segment

Field	Included	Notes
1	X	“^~\&”
2	X	Sending Application – Use Practice ID
3	X	Sending Facility.
4	X	Receiving Application
5	X	Receiving Facility
6	X	DateTime of Message
7	X	Security
8	X	Message Type

EVN segment

Field	Included	Notes
1	X	Event Code
2	X	Recorded Date Time
3		Date Time of Planned Event
4	X	Event Reason Code
5		Operator ID
6		Date Time that Event Occurred

PID segment

Field	Included	Notes
1	X	Set ID (always 1)
2	X	Patient ID
3	X	Patient Identifier List
4	X	Alternate Patient ID
5	X	Patient Name
6		Mother's Maiden Name
7	X	Date Time of Birth
8	X	Sex
9		Patient Alias
10		Race
11	X	Patient Address
12		County Code
13	X	Home phone number ^ Cell Phone Number^<Spacer>^Email Address
14	X	Business phone number
15		Primary Language
16	X	Marital Status (Concept Only)
17		Religion
18	X	Patient account Number (Patient ID is used. Duplicate of field 2)
19	X	Patient SSN Number
20		Patient Drivers License Number
21		Mother's Identifier
22		Ethnic Group
23		Birth Place
24		Multiple Birth Indicator
25		Birth Order
26		Citizenship
27		Veterans Military Status
28		Nationality
29	X	Patient Death Date Time (Concept Only)
30		Patient Death Indicator

PV1 segment

Field	Included	Notes
1	X	Set ID Always 1
2	X	Patient Class – Use “O”
3		Assigned Patient Location
4		Admission Type
5		Pre-admit Number
6		Prior Patient Location
7	X	Attending Doctor
8	X	Referring Doctor
9		Consulting Doctor
10		Hospital Service
11		Temporary Location
12		Pre-admit Test Indicator
13		Re-admission Indicator
14		Admit Source
15		Ambulatory Status
16		VIP Indicator
17		Admitting Doctor
18		Patient Type
19	X	Visit Number (Case number if available)
20		Financial Class
21		Charge Price Indicator
22		Courtesy Code
23		Credit Rating
24		Contract Code
25		Contract Effective Date - Blank e
26		Contract Amount
27		Contract Period
28		Interest Code
29		Transfer to Bad Debt Code
30		Transfer to Bad Debt Date
31		Bad Debt Agency Code
32		Bad Debt Transfer Amount

33		Bad Debt Recovery Amount
34		Delete Account Indicator
35		Delete Account Date
36		Discharge Disposition
37		Discharged to Location
38		Diet Type
39		Servicing Facility
40		Bed Status
41		Account Status
42		Pending Location
43		Prior Temporary Location
44		Admit Date/Time
45		Discharge Date/Time
46		Current Patient Balance
47		Total Charges
48		Total Adjustments
49		Total Payments

IN1 segment

Field	Included	Notes
1	X	Set ID - IN1 – Use “1” for Insurance carrier # 1, “2” for carrier 2 etc. “1” represents the primary insurance carrier.
2	X	Insurance Plan ID – This is the Policy ID.
3	X	Insurance Company ID
4	X	Insurance Company Name
5	X	Insurance Company Address
6	X	Insurance Co Contact Person
7	X	Insurance Co Phone Number – Use blank string if only phone formatting found.
8	X	Group Number
9	X	Group Name
10	X	Insured’s Group Emp ID (Policy Number)
11		Insured’s Group Emp Name
12	X	Plan Effective Date
13	X	Plan Expiration Date
14		Authorization Information
15		Plan Type
16	X	Name Of Insured
17	X	Insured’s Relationship To Patient
18	X	Insured’s Date Of Birth
19	X	Insured’s Address
20		Assignment Of Benefits
21		Coordination Of Benefits
22		Coord Of Ben. Priority
23		Notice Of Admission Flag
24		Notice Of Admission Date
25		Report Of Eligibility Flag
26		Report Of Eligibility Date
27		Release Information Code
28		Pre-Admit Cert (PAC)
29		Verification Date/Time
30		Verification By
31		Type Of Agreement Code

32		Billing Status
33		Lifetime Reserve Days

Medisoft or Lytec to RelayHealth

PID segment

Field	Included	Notes
1	X	Set ID (always 1)
2	X	Patient ID
3	X	Patient Identifier List
4	X	Alternate Patient ID
5	X	Patient Name
6		Mother’s Maiden Name
7	X	Date Time of Birth
8	X	Sex
9		Patient Alias
10		Race
11	X	Patient Address
12		County Code
13	X	Home phone number ^ Cell Phone Number^<Spacer>^Email Address
14	X	Business phone number
15		Primary Language
16	X	Marital Status (Concept Only)
17		Religion
18	X	Patient account Number (Patient ID is used. Duplicate of field 2)
19	X	Patient SSN Number
20		Patient Drivers License Number
21		Mother’s Identifier
22		Ethnic Group
23		Birth Place
24		Multiple Birth Indicator
25		Birth Order
26		Citizenship
27		Veterans Military Status
28		Nationality
29	X	Patient Death Date Time (Concept Only)
30		Patient Death Indicator

Appendix B - Automate Provider Mapping

Overview

Review this appendix to help determine if using automate provider mapping is appropriate for your facility.

The automate provider mapping feature, when enabled, manages provider updates and replaces the need to manually edit and update cross reference files, as well as enter providers in both the practice management application and the EMR.

Methods of provider mappings

There are two methods for mapping providers between the practice management application and the EMR:

- via manual provider entry in both systems and then updating the cross reference files to map the providers between the systems, or
- via automate provider mapping controlled by the Automate Provider Mapping check box on the Settings screen that manages the process.

You can take advantage of automatic provider mapping if you have a one-to-one relationship in your current provider record mapping between the practice management application and your EMR.

A one-to-one mapping relationship means that you have one provider ID for each provider record in your practice management application mapping to one provider ID in your EMR. If your practice is set up with one-to-one provider mapping, you can use the automatic provider mapping feature.

Provider mapping examples for Practice Partner

One-to-one mapping example

To check the Dem Sch cross reference file, go to [Practice Partner directory folder]\\Interface\BillingBridge\DemSch\CrossRef and open the DemSch_Pvid.ref in NotePad or WordPad. When you open this file, you will see a series of entries, for instance in a three doctor practice:

MM471 | MM4

JM875 | JM8

WW934 | WW9

The first entry for each line is the Provider ID in the practice management system. The second entry for each line is the Provider ID in Practice Partner.

Both items, when combined, create a mapping and this mapping is used by the applications to accurately transfer or map data between the systems. In this example, the relationship is one to one. Each of the three provider IDs in practice management application match a single provider ID in Practice Partner.

Variation of a one-to-one mapping example

Another variation of a one-to-one mapping is the following:

MM471 | MM4

MM571 | MM5

MM671 | MM6

In this example, the provider in the practice has three provider IDs (multiple provider records); however, each of these provider IDs is mapped to a specific provider ID in Practice Partner (also multiple provider records in Practice Partner).

Multiple mappings example

If the cross reference file looks like this example below, the practice is set up using a multiple-to-one mapping:

MM471 | MM4

MM571 | MM4

MM671 | MM4

In this example, there are three provider IDs in the practice management application for a single provider and the IDs are mapped to one provider ID in Practice Partner.

Billing mappings

Check your mappings in the Billing cross reference file (BillCode_Pvid.ref) to determine your mapping status. Your Billing mappings must be the same as your Dem Sch but in reverse order; that is, the Practice Partner provider IDs appear first, followed by the practice management provider IDs.

To check the Billing cross reference file, go to [Practice Partner directory folder]\\Interface\BillingBridge\BillCode\CrossRef and open the BillCode_Pvid.ref in NotePad or WordPad. Compare these mappings to the mappings in the Dem Sch.

If you want to interface Race, Ethnicity, and Relationship to Insured (new for Medisoft 18), you will need to create new cross reference files.

For Race, create DemSch-Race.ref with this configuration:

C | White

B | Black

I | Indian/Alaska

A | Asian

E | Other

P | Pac Isle

D | Declined

For Ethnicity, create DemSch-Ethnicity.ref with the following values:

N | Non-Hispanic

H | Hispanic

D | Declined

For Relationship to Insured, create DemSch_InsRel.ref with a configuration something like the following:

Self | S

Spouse | O

Child | C

Other | O

The following table provides a summary:

Mapping relationship between DemSch and Billing cross reference files	Candidate for automate provider mapping	Description
1 to 1	Yes	Do not modify the DemSch or Billing cross reference files once you have used automate provider mapping. During the initial provider data initialization process, the original cross reference files for DemSch and Billing are renamed as a precaution to the following format: _Original.TXT.
1 to many	no	Do not use automate provider mapping if multiple provider IDs exist and are mapped to one provider ID in the EMR.

Using Automate Provider Mapping

To use this feature to manage your provider updates, follow the steps for configuring your connection (see “Configuring a connection” on page 21), making sure to select the Automate Provider Mapping check box on the Settings screen. When you perform the steps for initializing data (see “Initializing data” on page 26) and send your providers, MPIC will map provider records in the practice management system to those in the EMR.

Alternative to Automate Provider Mapping

If you are not using the automate provider mapping feature, you can still send updates to providers, facilities, diagnosis codes, and procedure codes. To do so, follow the steps for initializing data (see “Initializing data” on page 26). In this case, when you send providers, MPIC will not attempt to map the new providers in the practice management application to providers that already exist in the

EMR. It will create new records in the EMR for the new records in the practice management application.

Appendix C - Configuring Mirth for a Remote Server

For those who are using Medisoft Clinical or Lytec MD and are configuring a connection to a remote server so that Mirth needs to access the EMR/RelayHealth folders over the network (Medisoft Clinical/Lytec MD running on a different server than Mirth/MPIC), you must configure the Mirth service to run under a user account that has access to the folders on the remote server.

To set this up:

1. From the computer where Mirth is running (normally the computer where MPIC is installed) click Start, point to All Programs, point to Administrative Tools, and select Services.
2. Double-click Mirth Connect Service. The Mirth Connect Service Properties screen appears.
3. Click the Log On tab. The Log On tab appears.
4. Select the This account option.
5. Enter a user account and password that has access to the folders on the remote server. The account can be a domain account or a local account on the remote server. To use a local account, you must create an identical user ID and password on both the Mirth server and the remote Medisoft Clinical/Lytec MD server where the folders reside.

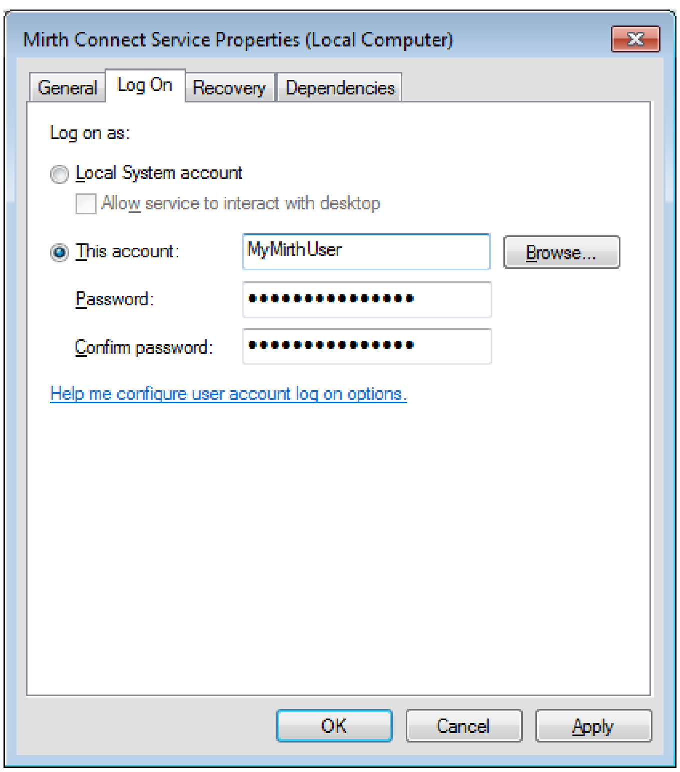


Figure 34. Mirth Connect Service Properties (Local Computer) screen

6. Click the **OK** button.
7. Restart the Mirth Connect service.

Appendix D - Installing SQL Server Express manually

If you are installing MPIC on a domain controller, you must install SQL Server Express manually prior to installing MPIC. To install SQL manually, follow these steps.

1. To extract SQL Server Express from the MPIC download, download and install 7-Zip from http://www.7-zip.org.
2. Launch 7-Zip File Manager.
3. Extract MPIC-Setup32.exe or MPIC-Setup64.exe, depending on whether you are installing on a 32-bit or 64-bit computer.
4. Double-click SQLEXPR_x64_ENU.exe or SQLEXPR_x86_ENU.exe to start the installation of SQL Server Express.
5. Select New installation or add features to an existing installation.

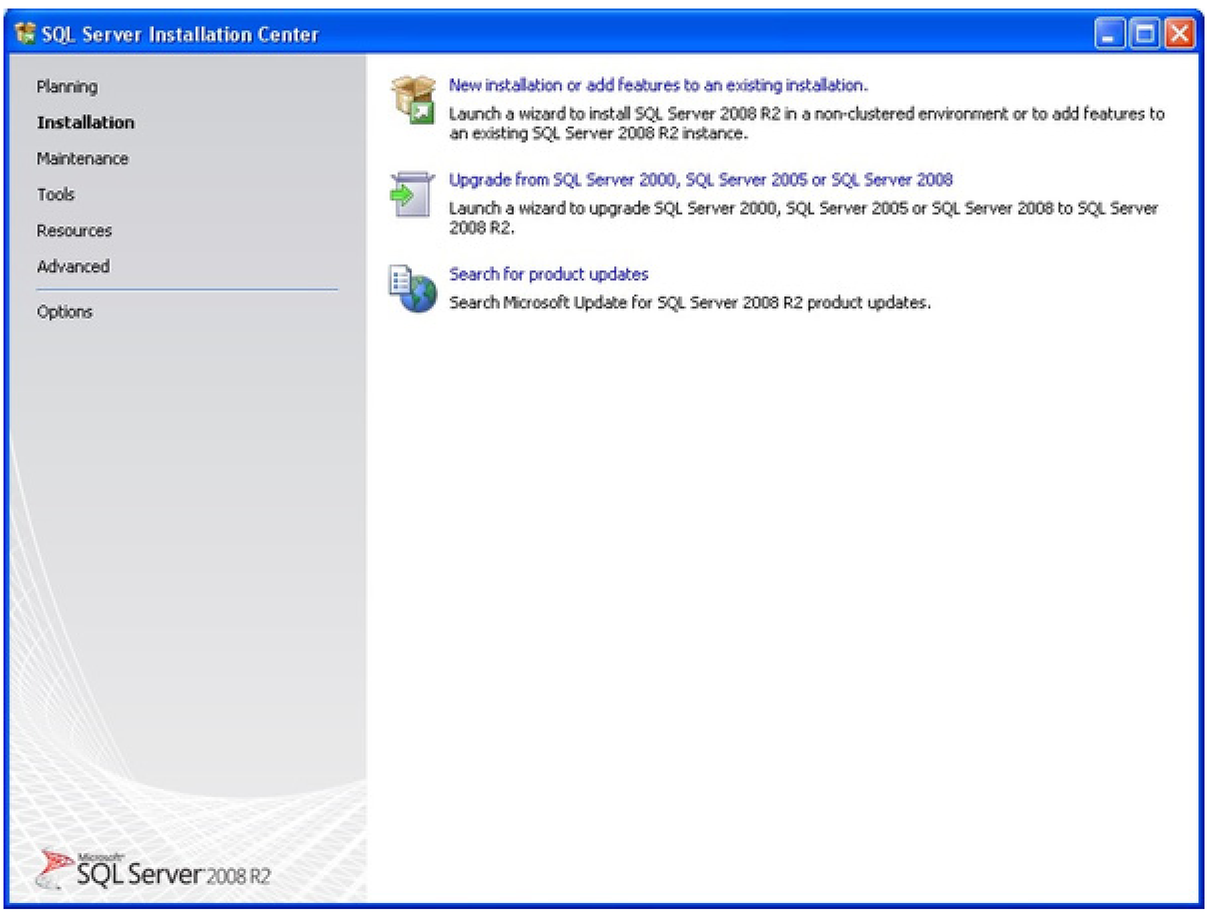


Figure 35. SQL Server Installation Center screen

6. Click the **Next** button. The License Terms screen appears.

7. Select the I accept the license terms check box
8. Click the **Next** button. The Feature Selection screen appears.
9. Select all options except SQL Server Replication.

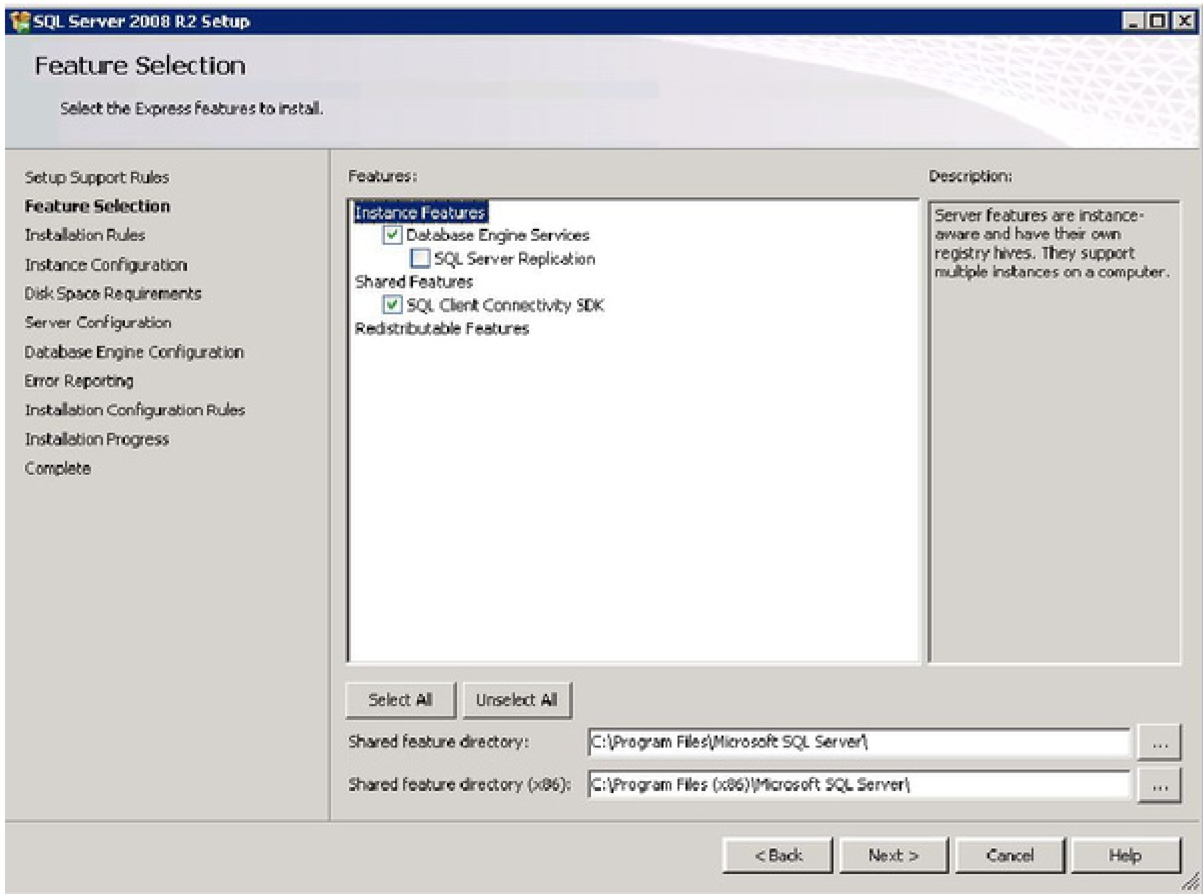


Figure 36. Feature Selection screen

10. Click the **Next** button. The Instance Configuration screen appears.
11. Select **Named instance**.

12. Enter MPIC in the Named Instance and Instance ID fields.

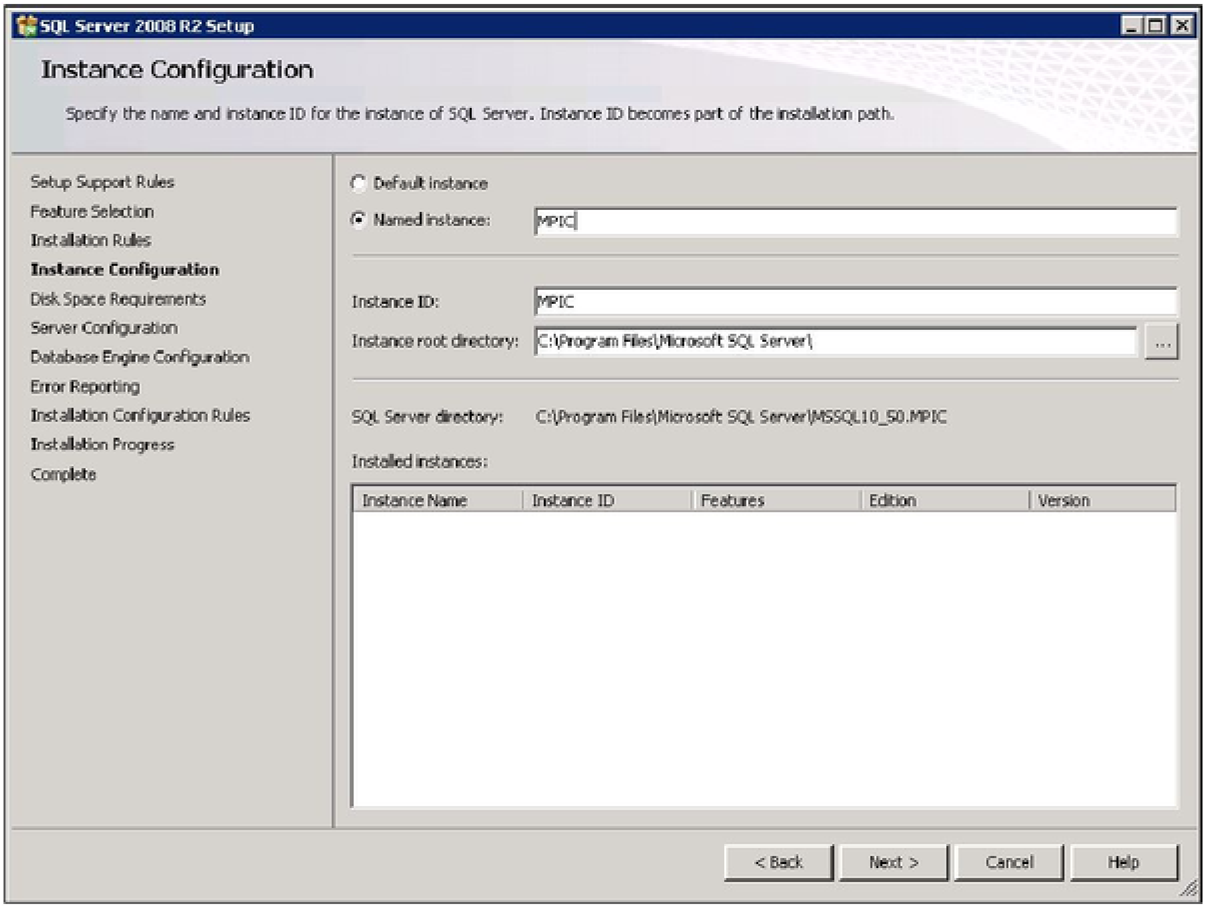


Figure 37. Instance Configuration screen

13. If MPIC is listed in the Installed instances, you do not need to continue with this installation. Click the **Cancel** button.

14. Click the **Next** button. The Server Configuration Screen appears.

15. In the Account Name field, select the local or NT Authority System user.

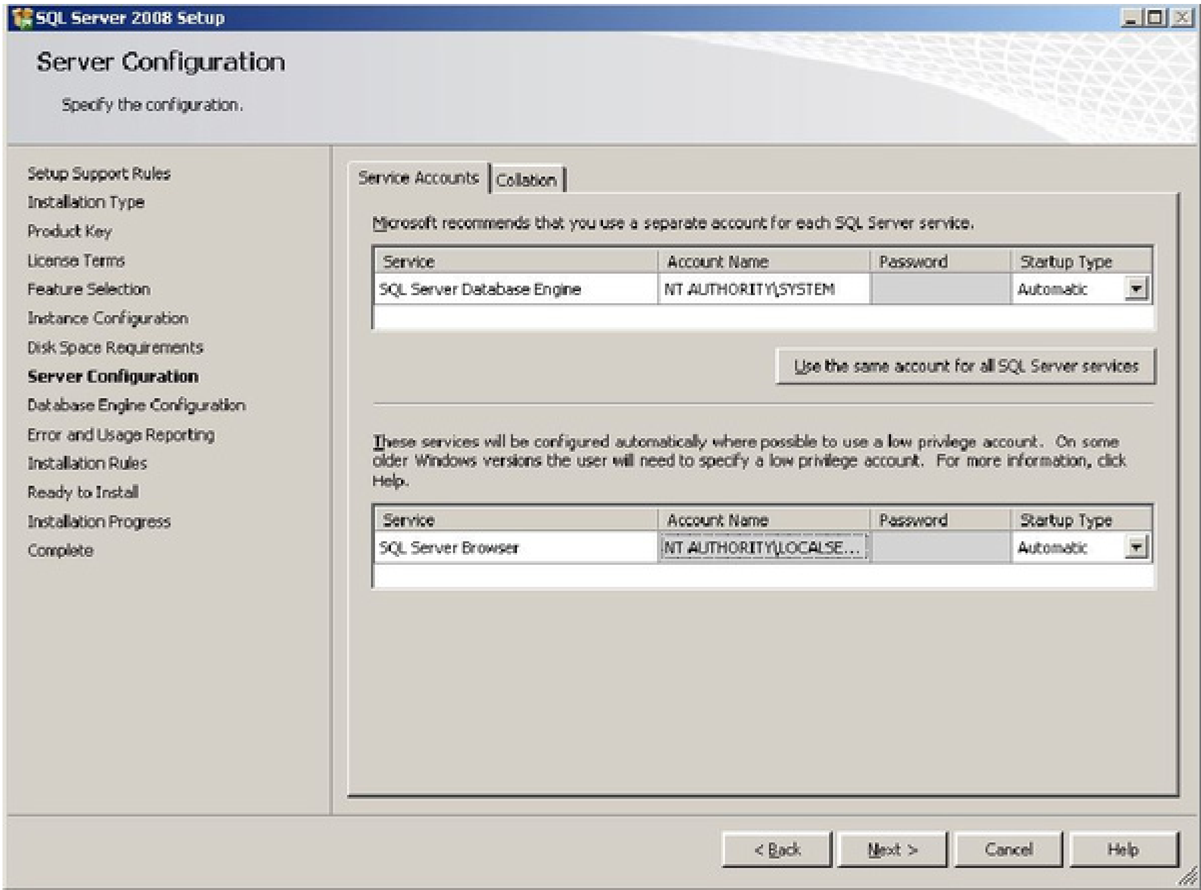


Figure 38. Server Configuration screen

16. Change Local to Automatic.
17. Click the **Next** button. The Database Engine Configuration screen appears.
18. Select Mixed Mode (SQL Server authentication and Windows Authentication).
19. Enter a password in the Enter password field.
20. Enter the same password in the Confirm password field.

21. Click the **Add Current User** button.

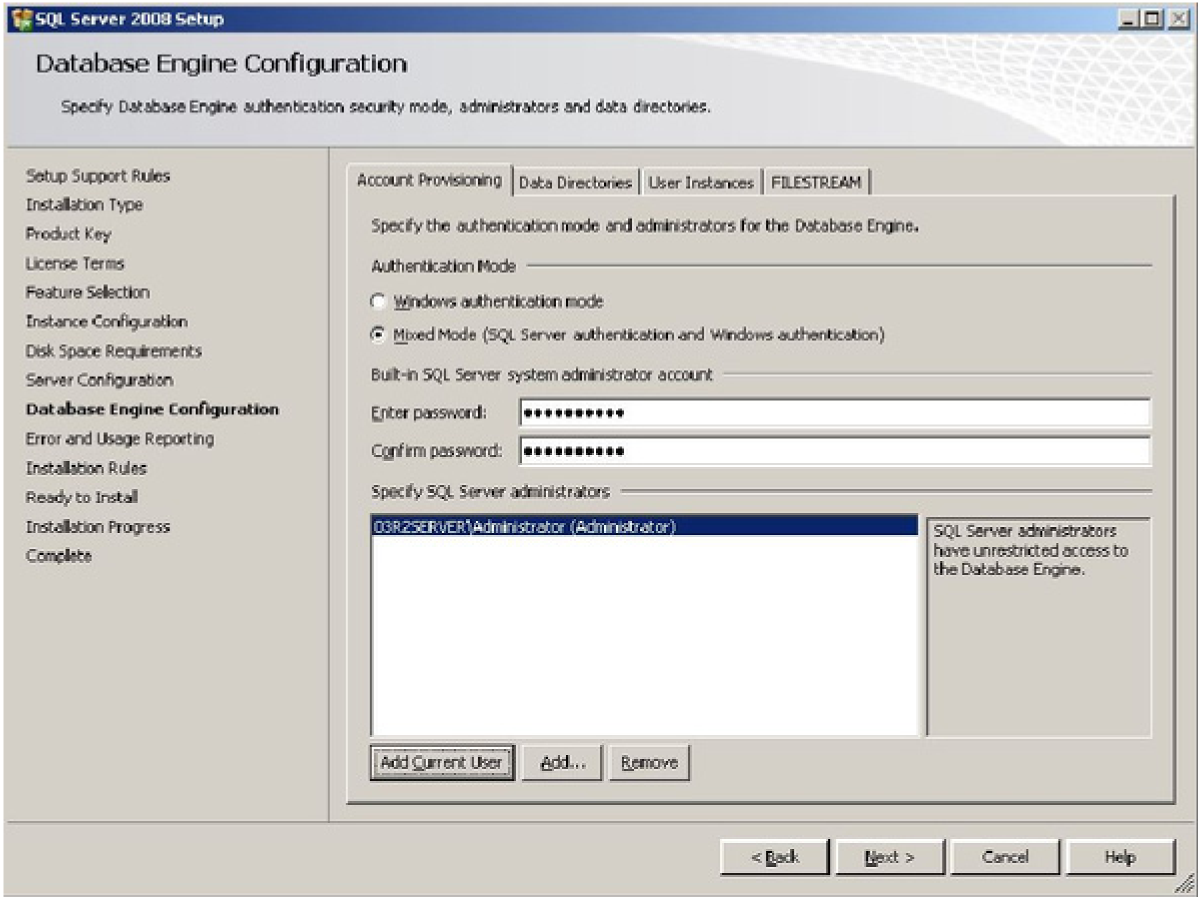


Figure 39. Database Engine Configuration screen

22. Data Directories Tab – Change Data root directory to what you desire.
23. Click the **Next** button. The Error Reporting screen appears.
24. Click the **Next** button. Allow the installation to complete the installation. This will take some minutes. The Complete screen appears.
25. Click the **Close** button.
26. Close any other open SQL Server screens. The setup process continues.
27. When the installation is complete, the Setup Successful screen appears.
28. Click the **Close** button.
29. Once SQL Server is installed, MPIC can be installed successfully. Go to “Installing McKesson Practice Interface Center” on page 7.

Glossary

This section defines terms used in the Installation and User's Guide.

Automate Provider Mapping

This feature allows for automatic mapping of providers in the practice management application to those in the EMR, so there is no need to manually update cross reference files.

EMR

Electronic Medical Record. This is the application that a physician's office uses to record the results of treating patients. It may include encounter notes, allergies listed, medications prescribed, and so on.

HL7

Health Level 7 is the standard format for transmitting medical data electronically.

Interface

An interface is the connection that is created on the Settings page. It is the collection of settings that controls what data is transmitted between the two applications (practice management system and EMR) that were specified when it was selected.

Launch

In McKesson Practice Interface Center this means to start an application.

Mirth Connect

This is an application that is installed with McKesson Practice Interface Center that controls and manages the data that is transmitted between applications.

MPIC Service

The MPIC service is the application that runs in the background on your server and transmits data between the two applications (practice management system and EMR) that were specified when the interface was selected.

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