

Horizon SIP2 Responder 1.0

Installation Guide

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This document is compatible with Horizon SIP2 Responder 1.0, NCIP Responder Setup Utility 1.0, and Horizon 7.4.1. Information in this document may also be compatible with later versions.

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About this guide

Horizon SIP2 Responder 1.0 allows users to perform circulation tasks between disparate applications using SIP2.



The 3M™ SIP2 (Standard Interface Protocol version 2.00) has become the standard for the exchange of circulation transaction data between integrated library systems and external circulation or authentication systems.

Horizon SIP2 Responder consists of a server and a setup utility. Together, these help you to connect various self-check and circulation applications to your Horizon™ server. For example, you can set up a responder configuration for Horizon PocketCirc and another responder configuration for a self-check machine (or, you may need to set up a separate responder instance for each one, depending on your Horizon configuration and your needs. For more information about configuration needs, see the Horizon SIP2 Responder Setup Utility help.)

The Horizon SIP2 Responder Server works as a running instance of the program. It monitors a port that is set up to receive requests from a SIP initiator (such as PocketCirc), checks to make sure that the message is formatted correctly, processes the message according to rules you configure in the Horizon selfcheck_control table, and then sends it on to the Horizon server. When Horizon creates a response to a request, a message is sent to the Horizon SIP2 Responder Server, which processes and sends the message to the initiating application.

The Horizon SIP2 Responder Setup Utility creates and manages the configurations that tell the server where to look for incoming messages, how to connect to the ILS database, and how to process the SIP messages.

This *Installation Guide* explains how to set up your system and install the Horizon SIP2 Responder server and the Horizon SIP2 Responder Setup Utility.

This guide is intended for system administrators who must set up Horizon SIP2 Responder.



It is helpful to have some knowledge of the SIP protocol and an understanding of the initiators who will be talking to your responder.

For more information about this guide, see these topics:

- [Summary of contents](#) on page iv
- [Conventions used in this guide](#) on page iv
- [Software basics](#) on page vii
- [Possible differences between the software and this guide](#) on page vii
- [Documentation updates](#) on page viii
- [Comments and suggestions](#) on page viii

Summary of contents

This guide contains these major sections:

- [Chapter 1, “Installing Horizon SIP2 Responder,”](#) on page 1



This chapter explains how to prepare for and install the software necessary to run the Horizon SIP2 Responder. It also includes an overview of how the Horizon SIP2 Responder works.

Conventions used in this guide

This guide uses terms, typefaces, and symbols to denote different kinds of information. Understanding these conventions can help you recognize the information you need more quickly.

Symbols

This guide uses these symbols:

Symbol	Description
	Tip This symbol indicates additional notes or helpful tips.
	Important This symbol indicates important information or warnings.

Mouse conventions

The following terms are used in this guide to describe actions you do with a mouse.

Term	Definition
Click	To place the mouse pointer on an icon, command, or button and quickly press and release the primary (usually the left) button once.
Double-click	To place the mouse pointer on an icon, command, or button and quickly press and release the primary mouse button twice.
Right-click	To place the mouse pointer on an icon, command, or button and quickly press and release the secondary (usually the right) button.
Drag	To press and hold the primary mouse button while moving the mouse.
Choose	To click a button or an option from a menu, group of options, or list.
Select	To click once on an option in a list so that the option is highlighted. In a field, you may drag the mouse over text to select that text.

Keyboard conventions

This guide refers to keys following the standard convention of 101-key keyboards. For example, Ctrl is the control key, Alt is the alternate key, Enter is enter or return.

When you need to press two or more keys at the same time to do an action, the keys are connected with a plus sign (+). For example, **Alt+H** means to press and hold the **Alt** key while you also press **H**.

Keys you press appear in bold type in steps. Text or numbers that you need to enter using the keyboard also appear in bold (for example, “Type **main** in the **Location** field”).

Other conventions

In step-by-step instructions, the names of menus, buttons, fields, and other options appear in bold type (for example, “the **OK** button” or “the **Title** field”).

When you are instructed to choose an option from a menu, the menu and menu options are separated by the greater-than symbol (>). For example, “choose File > Save” means to choose the File menu then choose the Save option from the menu. This convention is also used to show the sequence of items you use on the navigation bar to open a form.

Text in italics shows general information that you must replace with information that is specific to your system. For example, you would replace *password* with a specific password, such as **123gr@ndma**.

File and directory names, code examples, and computer output appear in *Courier*.

Software basics

This guide assumes that you have a basic knowledge of your workstation operating system and of working with software that presents information in windows. At a minimum, you should know how to:

- Use a mouse or keyboard to do basic tasks, such as choosing menu options and buttons.
- Work with windows (selecting, moving, minimizing, restoring, maximizing, sizing, scrolling, closing, and so on).
- Work with dialog boxes.
- Log in to the software, change operators, and log off the software.
- Search for records in the software.
- Work in software list and edit windows.



If you do not know how to do these tasks, refer to the documentation for your workstation operating system and to the *Basics Guide*.

For more information on working with the software, see the *Basics Guide*.

Possible differences between the software and this guide

The names, labels, and sample windows in this guide reflect the default settings that are delivered with most new installations. The settings on your system may be different from these defaults, depending on your library's implementation choices and the way your system administrator sets up your system. (For example, your system administrator can change labels and set up security to limit access to certain features.)

Additionally, as you use the software, you can resize windows or customize your workspace. Consequently, your software environment may look and function differently than the environment described in the tasks in this guide. (For information about customizing and restoring window size or the Launcher workspace, see the *Basics Guide*.)

Documentation updates

Updates to this guide are posted to the customer support website between releases, as necessary. These updates provide corrections to unclear, incorrect, or incomplete information. They also provide documentation for enhancements that were not complete at the time the guide was first published.

You may access the customer support website at <http://clientcare.sirsidynix.com>.



The customer support website requires a user name and password. If you do not already have a user name and password, contact your system administrator to receive one.

Documentation updates are available as a PDF (Portable Document Format) file or as JavaHelp archives.

To view a PDF file, you must install Adobe's Acrobat Reader on your workstation. You can download Acrobat Reader free of charge at Adobe's web site, <http://www.adobe.com>.

Comments and suggestions

SirsiDynix welcomes and appreciates your comments on its documentation. We want to know what you think about our manuals and how we can make them better. If you have comments about this guide, please send them to docs@sirsidynix.com.

Be sure to include the title and version number of the guide and tell how you used it. Then tell us your feelings about its strengths and weaknesses and any recommendations for improvements.

Chapter 1: Installing Horizon SIP2 Responder

The process of installing Horizon SIP2 Responder includes some preliminary tasks that prepare your computer to connect with the Horizon database and for Horizon to process SIP2 messages. After you have prepared the computer and Horizon, the Horizon SIP2 Responder Installer guides you through the installation steps, including the process of setting up the server configuration in the Horizon SIP2 Responder Setup Utility.

This section explains these topics:

- [Accessing help from within Install](#) on page 1
- [Accessing help from within the SIP Responder Setup Utility](#) on page 2
- [System requirements](#) on page 2
- [Before installing](#) on page 3
- [Setting up the Horizon SIP2 Responder software](#) on page 8
- [Options: Horizon SIP2 Responder Installer Menu](#) on page 14

Accessing help from within Install

The install includes documentation that explains the procedures for installing the responder and other programs.

To open help in the install

- 1 Go to the CD Browser program for the install and go to the main menu.

Note: You may need to choose **Back** one or more times to get to the main menu.

- 2 Choose the **SIP Responder Install Guide** option.

This opens a PDF of the guide.

Note: You must have Adobe Acrobat Reader installed to view the PDF. If you do not have it installed already, it is available on the Installation CD-ROM, in the **Third Party Products** section.

Related topics

- [Starting the Horizon SIP2 Responder Setup Utility on page 13](#)
- [Accessing help from within the SIP Responder Setup Utility on page 2](#)

Accessing help from within the SIP Responder Setup Utility

The Horizon SIP2 Responder Setup Utility includes documentation that explains the procedures for setting up the Horizon SIP2 Responder parameters.

To open help in the SIP Responder Setup Utility

- Choose the **Help** button.

Related topics

- [Accessing help from within Install on page 1](#)

System requirements

The software requires the following hardware and software.

Minimum Hardware requirements

- 1.2 Ghz or greater CPU
- 512 MB of RAM

- 140 MB free disk space
- 10/100 Mbps NIC
- SVGA monitor
- Mouse or track ball
- Keyboard

Operating System requirements

Your computer must be running one of the following operating systems in order to run this software:

- Microsoft Windows Server® 2000
- Windows Server® 2003
- Windows® XP
- Windows Vista® 32 bit or 64 bit

Minimum Software requirements

Your computer must have Java 1.6 installed to run the Horizon SIP2 Responder.

Minimum Horizon requirements

- Horizon 7.4.1 or greater

Before installing

Before you install the Horizon SIP2 Responder and Setup utility, it is helpful to have your system prepared for the Horizon SIP2 Responder. This section describes the tasks you should perform before you install the responder.

This section explains these topics:

- [Starting the Horizon SIP2 Responder Installer menu](#) on page 4
- [Installing the database client](#) on page 4
- [Updating the Horizon database](#) on page 5
- [Setting up a SIP ACS profile in Horizon](#) on page 6

Starting the Horizon SIP2 Responder Installer menu

When you insert the SIP2 Responder Installation CD-ROM, the Installer should open automatically.

To start the Horizon SIP2 Responder Installer

- If the installer doesn't start automatically, initiate the **SIP.exe** program at the root of the CD-ROM. (For more information, see [Options: Horizon SIP2 Responder Installer Menu](#) on page 14.)

Installing the database client

Before you can use the Horizon SIP2 Responder Server on the current machine, you must have installed the database client that works with your Horizon database. Horizon does not need to be installed on the same computer as the Horizon SIP2 Responder Server, but the machine must have the database client that works with the Horizon database.



If a Horizon Client or Horizon SIP2 Responder has already been installed on this computer, you do not need to install the database client.

To install the database client

- 1 From the Horizon SIP2 Responder Installer menu, choose **Install Database Clients**
- 2 Choose either the **Sybase Client** or **MSSQL Client**.

The Install Wizard for the selected database client begins. Follow the directions and provide the information as requested in the wizard.

- 3 Run the database client configuration tools for the database client you installed.
 - For Sybase clients, run the **DSedit Utility (Start > All Programs > Sybase > DS Edit Utility)**.
 - For MSSQL clients, run the **CLICONFG.EXE** file from the install directory (by default, it is C:\WINDOWS\system32 directory).

Note: Write down the server name (Sybase) or server alias (MSSQL Client) you assign during configuration. You will need it when you set up the Horizon SIP2 Responder configuration in the Horizon SIP2 Responder Setup Utility.

Updating the Horizon database

A number of updates have been made to the Horizon database to allow the Horizon SIP2 Responder integration to function properly. If you are running Horizon 7.4.1 or 7.4.2, you will need to upgrade and update the Horizon database.



Although you can set up multiple Horizon SIP2 Responder Servers, you only need to run the Database Upgrade once. However, no harm will be done if you run it more than once.

If you are running Horizon 7.5, you do not need to upgrade the database. Therefore, you do not need to complete the following steps.

To update the Horizon database

- 1 From the Horizon SIP2 Responder Installer menu, choose **SIP**. (For more information, see [Starting the Horizon SIP2 Responder Installer menu on page 4](#).)
- 2 Choose **SIP Database Upgrade**.

The Install Wizard displays the Welcome screen.

- 3 Choose **Next**.
- 4 Type the directory path (or click **Browse** to locate the directory) where you want to install the scripts that will update the Horizon database.

The default directory is C:\SirsiDynix\NCIPDBUpgrade.

- 5 Choose **Next**.
- 6 Select the database server type for your Horizon database.
- 7 Choose **Next**.
- 8 Enter the authentication information for logging in to the Horizon database.

- 9 Choose **Next**.

The Install Wizard displays an overview of the selections you made.

- 10 Choose **Next**.

The Install Wizard installs and runs the upgrade scripts to upgrade the database.

- 11 Choose **Finish**.

Setting up a SIP ACS profile in Horizon

The Horizon SIP2 Responder Server communicates with Horizon through the ACS interface, which requires an ACS profile that is configured specifically for Horizon SIP2 Responder.

To set up a SIP2 ACS profile in Horizon

- 1 In Horizon, open the selfcheck_control view in the Table Editor.
- 2 Select the selfcheck profile that corresponds to the ACS server profile for Horizon SIP2 Responder or create a new ACS server profile.

If you already have a profile that has the circulation rules you want to use for this responder, you can select that existing profile to use.

If you need a different set of circulation rules for this responder than anything you already have, then you need to create a new profile.

Write down the Profile code and Location code for the ACS profile. You will need these in the Horizon SIP2 Responder Setup Utility when you set up the configuration.

The following table describes only the settings that are specifically set for the Horizon SIP2 Responder ACS profile when using PocketCirc. See below for other setting information..

Field	Setting
CKO Offline	<p>Specifies that offline checkout operations are allowed, and will be honored when the transaction is uploaded. This allows the due date to be set by the offline device.</p> <p>Important: If you do not select this check box, when the device is used in Offline mode for checkout, and then the transaction is uploaded, the system may reject the transaction based on checkout rules, yet the item will have already been checked out to the patron and the transaction will not be logged in the Horizon server. Or, even if the system accepts the checkout, the due date may be changed.</p>
CKI Offline	<p>Specifies that offline checkin transactions are allowed, and will be honored when the transaction is uploaded.</p> <p>Important: If you do not select this check box, when the device is used in Offline mode for checkin, and then the transaction is uploaded, the system may reject the transaction based on checkin rules, yet the item will have already been checked in and the transaction will not be logged in the Horizon server.</p>

Field	Setting
Renew Offline	<p>Specifies that offline renewal operations are allowed, and will be honored when the transaction is uploaded. This allows the renewal due date to be set by the offline device.</p> <p>Important: If you do not select this check box, when the device is used in Offline mode for renewal, and then the transaction is uploaded, the system may reject the transaction based on renewal rules, yet the item will have already been renewed for the patron and the transaction will not be logged in the Horizon server. Or, even if the system accepts the renewal, the due date may be changed.</p>

Any other settings can be configured as you need for your system.

Setting up the Horizon SIP2 Responder software

The software needed to install and run the Horizon SIP2 Responder is included on the Horizon SIP2 Responder CD-ROM, including the following:

- Horizon SIP2 Responder installation program
- Horizon database upgrade for Horizon version 7.5
- Database clients
- Adobe Acrobat
- Java (SE) Runtime Environment (JRE) version 6 update 12

Note: Horizon SIP2 Responder will not run on the 64-bit version of Java.

Each of these programs are accessible from the SIP Installer menu program. (For more information, see [Options: Horizon SIP2 Responder Installer Menu](#) on page 14.)

This section explains these topics:

- [Installing Horizon SIP2 Responder](#) on page 9
- [Uninstalling the Horizon SIP2 Responder Responder](#) on page 14

Installing Horizon SIP2 Responder

You can install Horizon SIP2 Responder on any Microsoft Windows computer that has network access to your ILS database. You install it as a Windows service that runs in the background. The Install program installs both the Horizon SIP2 Responder Setup Utility and the Horizon SIP2 Responder. The Setup Utility runs as part of the installation process so you can configure the responder. The following is a list of some of the information you will need to know in order to set the configuration:

- The general information about the Horizon SIP2 Responder and your library.

This includes the port number the server monitors and a unique name for the responder.

Note: Remember to set up your firewall to allow access to the port so initiators outside your firewall can send messages to and receive messages from the responder.

- The server name, alias, or IP address from the database client, the database name and login credentials to the ILS database, and the Profile code and Location code of the Horizon SIP ACS profile.

This is the information that allows the Horizon SIP2 Responder Server to connect to Horizon.

- The SIP messages that the SIP initiator requires.

You may need to contact the administrator of the initiator program to determine what messages will be sent to the responder. However, SirsiDynix recommends that you leave all of them enabled.

- The field configuration settings for select messages.

Some messages must be configured in order to work with Horizon. (For more information, see the Supported Messages section in the Horizon SIP2 Responder Setup Utility online help.)

(For more information about these options, see the Horizon SIP2 Responder Setup Utility online help.)

To install the software

- 1 From the SIP2 Installer menu, choose **SIP**.

- 2 Choose **SIP Server Install**.

The Install Wizard displays the License Agreement.

- 3 Read the agreement and then select **I accept the terms of the license agreement**.

- 4 Choose **Next**.

The Install Wizard displays the Welcome screen.

- 5 Choose **Next**.

The Install Wizard searches for an installation of JRE version 6 or higher on the computer.

Note: The Horizon SIP2 Responder will not run on the 64-bit version of Java.

- 6 Depending on the results of the search, do one of the following:

- If the Install Wizard finds a supported version, it displays the directory where the program was found and prompts you to do one of the following:
 - To use the version of Java found in the directory, choose **Yes**.
 - To continue searching, choose **No**.
 - To cancel the search so you can browse for Java, choose **Cancel Search**.
- If the Install Wizard does not find a supported version, or if you canceled the search, do one of the following:
 - Choose **Browse for installation directory**, click **Next** and select the installation folder.
 - Choose **Install Java now** and choose **Next**.

The Java Install Wizard opens. Follow the directions in the wizard. After Java is successfully installed, the SIP Install Wizard looks for the newly created Java directory. When the wizard finds the directory, a message opens. Choose **Yes** to accept the version of Java in the directory and continue the SIP installation.

During the Java installation, you may be prompted to close the SIP Install Wizard. If that happens, close the wizard and then continue with the Java installation. When the Java installation is complete, start the SIP Install Wizard again. The wizard should find the Java directory. Accept the installation and continue with the Horizon SIP2 Responder installation.

- 7 When you have completed locating or installing Java, choose **Next**.

The Install Wizard displays the default directory where the Horizon SIP2 Responder program files will be installed.

- 8 Choose the **Browse** button to specify a different installation directory.

Note: You can install more than one instance of the Horizon SIP2 Responder, but each instance must be installed in a separate directory. We suggest that you install all instances in their own directory under C:\SirsiDynix\sip.

- 9 Choose **Next**.
- 10 Select the Horizon version being used with Horizon SIP2 Responder.
- 11 Choose **Next**.
- 12 Type an install name.

This is the name used for the Horizon SIP2 Responder Windows service and for uninstalling this instance of the Horizon SIP2 Responder. If you are installing multiple instances of the Horizon SIP2 Responder, this name will need to be unique each time.

The default name is **SirsiDynix Horizon SIP2 Responder**.

- 13 Choose **Next** to accept the **Default Language** and **Default Country** for the Horizon SIP2 Responder.
- 14 Verify that the installation settings are correct.
- 15 Choose **Next**.

A status bar indicates the progress of the install. When the installation process is complete, the Horizon SIP2 Responder Setup Utility opens.
- 16 In the Horizon SIP2 Responder Setup Utility, set the configuration for the Horizon SIP2 Responder to use. (You can get more information about the Horizon SIP2 Responder Setup Utility in the Online Help; see [Accessing help from within Install on page 1.](#))
- 17 After you have finished setting up the configuration, close the Horizon SIP2 Responder Setup Utility by choosing **Exit**.

The Install Wizard remains open.
- 18 After the Install Wizard has completed the Horizon SIP2 Responder installation, choose **Finish**.

Starting the Horizon SIP2 Responder service

The Horizon SIP2 Responder is installed as a Microsoft Windows service to let it run in the background. When the Horizon SIP2 Responder is first installed, it is set up to begin automatically when you start the computer; however, it is not started as part of the installation process. If you completed the configuration in the Horizon SIP2 Responder Setup Utility as part of the installation, you can start the service manually.

To start the Horizon SIP2 Responder service

- 1 Choose **Start > Control Panel > Administrative Tools > Services**.
- 2 In the Services list, select the service name you assigned to the Horizon SIP2 Responder Server during installation.

Note: The default name for the service is **SirsiDynix SIP Responder**.

3 Choose **Start the service**.

Windows will start the Horizon SIP2 Responder service.

Installing multiple instances of Horizon SIP2 Responder

Installing an additional instance of the Horizon SIP2 Responder is the same as installing the first instance. However, because each instance runs as a separate Windows service you must give each instance a unique name during installation and install each new instance in a separate directory. (For more information, see [Installing Horizon SIP2 Responder on page 9](#).) When installed, each instance runs independently of the others and is configured using the Horizon SIP2 Responder Setup Utility in its respective install directory. (For more information, see [Starting the Horizon SIP2 Responder service on page 12](#).)

Starting the Horizon SIP2 Responder Setup Utility

After you have installed Horizon SIP2 Responder, you can use the Setup Utility at any time to create and manage server configurations.



Whenever you make changes to the Horizon SIP2 Responder Server configuration, you must stop and restart the Responder service before the settings will take effect.

To start the Horizon SIP2 Responder Setup Utility

- From the directory where you installed Horizon SIP2 Responder, run **\bin\setup.bat** from a command prompt.

Uninstalling the Horizon SIP2 Responder Responder

The uninstaller removes the Windows Services and most of the program files used by Horizon SIP2 Responder. However, because some files are created after the installation process, some files will need to be removed manually.

To uninstall Horizon SIP2 Responder

- 1 Choose **Start > Control Panel > Add or Remove Programs**.
- 2 Choose the program name that you gave to Horizon SIP2 Responder during installation. The default is **SirsiDynix SIP Responder**.

Note: If you installed multiple instances of Horizon SIP2 Responder, there will be an individual program listed for each instance you created.

The utility uninstalls the files that were installed with the Responder and removes all of the services that were created for the server.

Options: Horizon SIP2 Responder Installer Menu

The PocketCirc for Horizon installation menu includes a number of options to help you install the Horizon SIP2 Responder software. These sections describe each menu and submenu in the Horizon SIP2 Responder installation utility.

Main Menu

The main Horizon SIP2 Responder menu lists the submenus available. These submenus are listed in the table:

Option	Description
SIP	Lists the Horizon SIP2 Responder installation program and database upgrade installs.

Option	Description
Install Database Clients	Lists the database clients you can install.
Third Party Products	Lists products not produced by SirsiDynix that may be necessary or helpful to install, run, or manage the other products included on the CD.
SIP Install Guide	Opens this guide in Adobe Acrobat Reader. This guide is included for your convenience and may be helpful as you install. The guide requires Adobe Acrobat Reader. See the Third Party Products section. You can save the guide PDFs to your computer using the Adobe Acrobat Reader Save option.
Contact Information	Lists the address and phone numbers you can use to contact SirsiDynix.
Exit	Closes the Horizon SIP2 Responder Install menu.

SIP

The SIP Installation wizards are described in the table:

Option	Description
SIP Server Install	Installs the Horizon SIP2 Responder and Setup Utility. (For more information, see Installing Horizon SIP2 Responder on page 9)
SIP Database Upgrade	Installs and runs the scripts that update the Horizon database. (For more information, see Updating the Horizon database on page 5).
Back	Opens the main menu.

Install Database Clients

The database clients are included for your convenience. They must be installed on the computer where the SIP Responder is installed. (For more information, see [Installing the database client on page 4](#)).

The database options are described in the table:

Option	Description
Sybase 12.5 Client	Install the Sybase 12.5 Client application.
MSSQL Client	Install the Microsoft SQL Client application.
Back	Opens the main menu.

Third Party Products

The third party products are included for your convenience and may be helpful as you install or review the documentation. The options described in the table:

Option	Description
Adobe Acrobat 8.0	Installs Adobe Acrobat version 8.0 so you can read documents in PDF format, such as this Installation Guide.
Java version 6	Installs the Java Runtime Environment.
Back	Opens the main menu.