

Agilent 10 Libraries Suite 15.5 or higher



**Installation and Configuration
Instructions for use with the
Agilent ChemStation Rev.
B.04.03 or higher**



Agilent Technologies

Notices

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Manual Part Number

G2170-90139

Edition

09/2010

Printed in Germany

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Software Revision

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In This Guide ...

This manual describes how to install and use the IO Libraries Suite 15.5.

1 Installing the Agilent IO Library Suite and Drivers

This chapter outlines the installation of the IO Library Suite which is necessary to control 82350 A/B GPIB cards as well as 82357 A/B USB-GPIB Interfaces. Secondly it outlines the installation and the configuration of these Cards and Interface Drivers.

2 Upgrading Existing IO Libraries

This chapter explains how to upgrade from existing IO Libraries to IO Libraries Suite

3 Additional Information regarding the Agilent IO Library Suite

This chapter outlines the changes made by the installation, and lists IO Services and Processes.

4 Installation troubleshooting

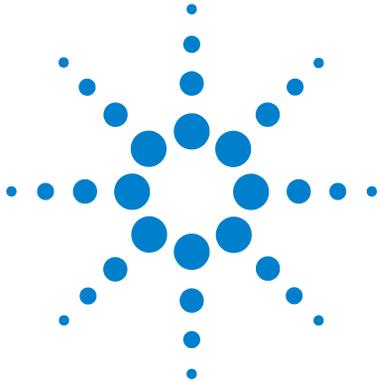
This chapter gives support in case of installation problems. In addition it gives instructions how to change or remove your installation.

5 Agilent IO Libraries Suite 15.5 Documentation

Instructions on how to access additional documentation

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1 Installing the Agilent IO Library Suite and Drivers

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Install the GPIB Cards / USB-GPIB Interfaces Drivers 11

Configure the 82350 A/B GPIB Card or the 82357 A/B USB-GPIB
Interface 14

This chapter outlines the installation of the IO Library Suite which is necessary to control 82350 A/B GPIB cards as well as 82357 A/B USB-GPIB Interfaces. Secondly it outlines the installation and the configuration of these Cards and Interface Drivers.



Prerequisites

To use the GPIB 82350A or 82350B Card, or the 82357 A/B USB-GPIB Interface, it is necessary to install or upgrade the corresponding driver and configuration software, located in the \IO_Libs directory on the Agilent ChemStation DVD or the Agilent GPIB Libraries for Instrument control CD-ROM. To install IO Libraries suite 15.5 proceed according to the steps described in this manual.

The Agilent ChemStation B.04.03 and greater requires version 15.5 of IO Libraries Suite. These libraries are supported under Windows XP Professional, Windows Vista and Windows 7.

Be sure to follow the correct installation description.

NOTE

Before installing the GPIB Interface Driver, verify that this communication component is supported for your instrument in use. Refer to the table below.

Table 1 Supported devices with the 82350 A/B GPIB Card

Instrument	Supports 82350A GPIB Card	Supports 82350B GPIB Card
1600 Capillary Electrophoresis	Yes	Yes
7100 Capillary Electrophoresis	No	No
Agilent 1200/1100 modules	No	No
Agilent 1120/1220 Systems	No	No
Agilent 1260 Modules	No	No
Agilent 1290 Modules	No	No
Agilent 4890 D GC	No	Yes
Agilent 5890 II GC	No	Yes
Agilent 6850 GC	No	No
Agilent 6890A / 6890 Plus GC	No	Yes

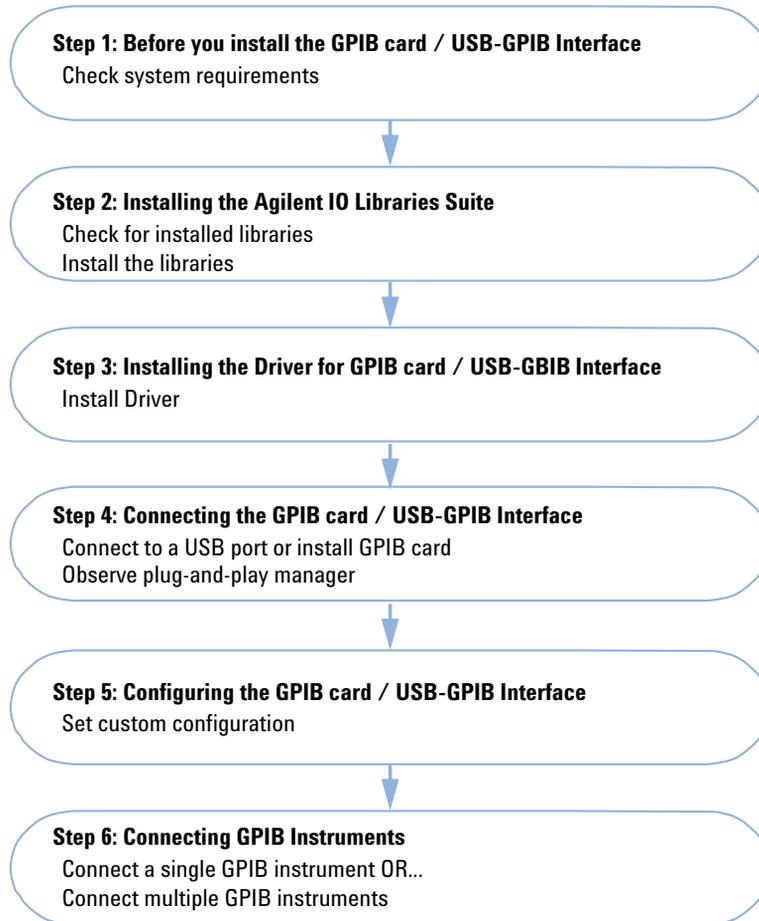
Table 1 Supported devices with the 82350 A/B GPIB Card

Instrument	Supports 82350A GPIB Card	Supports 82350B GPIB Card
Agilent 6890N / 7820 / 7890A GC	No	No
Agilent A/D Systems	No	No
Agilent LC/MS Systems	No	No
Agilent GC/MS Systems	No	No

Table 2 Supported devices with the 82357 A/B GPIB Interface

Instrument	Supports 82357A GPIB Interface	Supports 82357B GPIB Interface
1600 Capillary Electrophoresis	Yes	Yes
7100 Capillary Electrophoresis	No	No
Agilent 1200/1100 modules	No	No
Agilent 1120/1220 Systems	No	No
Agilent 1260 Modules	No	No
Agilent 1290 Modules	No	No
Agilent 4890 D GC	No	Yes
Agilent 5890 II GC	No	Yes
Agilent 6850 GC	No	No
Agilent 6890A / 6890 Plus GC	No	Yes
Agilent 6890N / 7820 / 7890A GC	No	No
Agilent A/D Systems	No	No
Agilent LC/MS Systems	No	No
Agilent GC/MS Systems	No	No

Installing the IO Library Suite 15.5



To establish the communication to your instrument using the IO Library suite, you need to perform the following steps:

- 1 Install IO Library Suite *before* connecting any USB-GPIB Interface or installing any new GPIB card. Otherwise disconnect your devices and remove the USB-GPIB Interfaces from your PC.

- 2 Re-connect your device and initialize/install your GPIB card/ USB-GPIB Interface Drivers.
- 3 Start the Agilent Connection Expert to configure your connection see “Configure the 82350 A/B GPIB Card or the 82357 A/B USB-GPIB Interface” on page 14.

NOTE

You must have administrator privileges to install the IO Library Suite and to run the Agilent Connection Expert later for configuration.

NOTE

IO Libraries Suite 15.5 requires Microsoft Visual C++ Redistributable, VISA Shared Components and IVI Shared Components to be installed prior the installation of the application. If these components are not present, they will be installed by the IO Library Suite automatically, before starting the IO Library Suite installation.

NOTE

IO Libraries Suite 15.5 requires Microsoft Framework to be installed prior the installation of the application. If the needed Microsoft Framework is not present, it will be installed by the IO Library Suite automatically, during the IO Library Suite installation. You will only need to install the .NET Framework once, even if you remove and reinstall or upgrade your 15.5 later.

- 1 Disconnect any USB/GPIB interface connected to your PC. Do not install any 82350A/B GPIB card prior the installation of the IO Library Suite.
- 2 Close all other applications on your PC.
- 3 Using the Windows Explorer, locate and start IOLibSuite_15_5_MR_EXE.exe in the IO_Libs directory of your ChemStation DVD. If Microsoft C++ Redistributable, VISA Shared Components and IVI Shared Components are not present, the InstallShield comes up and will list the application as requirement. Press **Install** to start the installation of the Microsoft C++ Redistributable, VISA Shared Components and IVI Shared Components. The IO Suite InstallWizard Welcome Screen is displayed afterwards.
- 4 Click **Next** and on the upcoming License Agreement Screen, accept the License Agreement and then click **Next** to continue the upgrade.
- 5 Select **Typical** for the installation type and press **Next** to continue.
- 6 On the upcoming window, verify the path statements for the installation and press **Install** to start the installation process. The system will start now installing the files to your disk.

1 Installing the Agilent IO Library Suite and Drivers

Installing the IO Library Suite 15.5

- 7 The 15.5 have been successfully installed now. Leave the screen with **Finish**. You will see the IO Control icon  in the taskbar notification area of your PC screen. (The taskbar notification area is where the clock is usually displayed).



Figure 1 Finish Device Driver Installation in Windows XP

- 8 Reboot your PC.

Install the GPIB Cards / USB-GPIB Interfaces Drivers

This section outlines the initialization and installation of the various drivers in use with Agilent ChemStation.

- 82350 A/B GPIB cards (only driver installation necessary): see [Figure 2](#) on page 11.

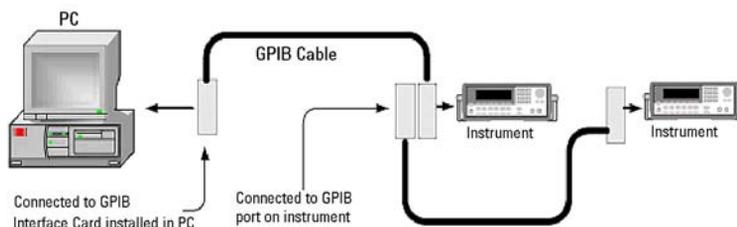


Figure 2 Connection of 82350 A/B GPIB card

- 82357 A/B USB-GPIB Interfaces (initialization and installation necessary): The USB Interface device needs to be plugged into the GPIB connector (see [Figure 3](#) on page 11)

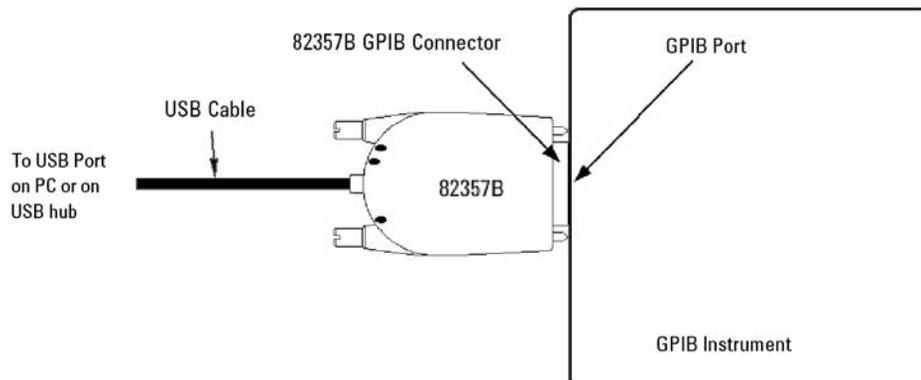


Figure 3 Single Instrument Connection of 82357A/B

1 Installing the Agilent IO Library Suite and Drivers

Install the GPIB Cards / USB-GPIB Interfaces Drivers

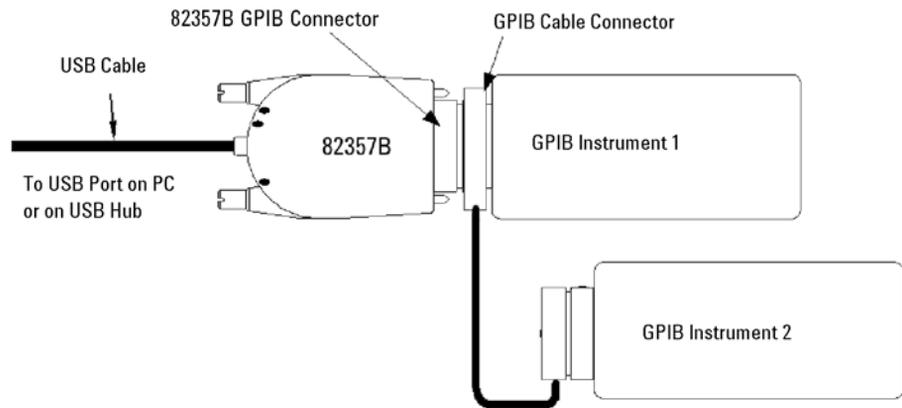


Figure 4 Multi Instrument Connection of 82357A/B

NOTE

Depending on your PC and previously installed software/hardware, the driver initialization and installation procedure may slightly differ compared to the outline in this document. Please compare the screens carefully.

- 1 Connect your 82357A/B USB-GPIB Interface or built-in the 82350 A/B GPIB card into your PC. Leave your instrument switched off.
- 2 As the operating system starts after power cycling, a tool tip will notify about new hardware (GPIB card or USB-GPIB Interface) (see [Figure 5](#) on page 12).

Now running the installation, the system will

- 1 Find the new hardware



Figure 5 Found New Hardware

2 Recognize the 82350A/B or 82357A/B



Figure 6 Recognize New Hardware

3 Initialize the new hardware



Figure 7 Initialize New Hardware

The hardware wizard can detect the following hardware:

- Agilent Technologies 82350 PCI GPIB
- Agilent Technologies 82357 USB- GPIB Interface

Please wait till the initialization went through. The tool tip will inform you that the hardware is ready to use.

1 Installing the Agilent IO Library Suite and Drivers

Configure the 82350 A/B GPIB Card or the 82357 A/B USB-GPIB Interface

Configure the 82350 A/B GPIB Card or the 82357 A/B USB-GPIB Interface

The Agilent Connection Expert is a software utility that helps you to quickly get your instruments connected to your PC and troubleshoot connectivity problems. You can use Connection Expert to:

- Configure instrument I/O interfaces
- Automatically discover instruments that are connected to your PC or to your local area network (not recommended for ChemStation Instruments)
- Browse the structure and connections of your test system (including your PC, instruments, and interfaces)
- Detect and troubleshoot connectivity problems in your system

NOTE

Starting the Agilent Connection Expert the system autodetects all available devices. This can lead to connection issues using the Electrophoresis System. Please follow the outline steps in this document and do not use the available **Refresh all** function.

- 1 Start the Connection Expert by clicking the IO Control (IO icon  in the Windows notification area), and click **Agilent Connection Expert** (see [Figure 8](#) on page 14).



Figure 8 Run Connection Expert

- 2 Close the Welcome Screen of the Connection Expert.

The Connection Expert automatically detects most interfaces and instruments, and will assign names and other default configuration settings. You can click on them to see their properties (displayed in the right-hand pane). In order to use it with ChemStation controlled instruments, the interfaces and devices need to be configured manually for proper communication.

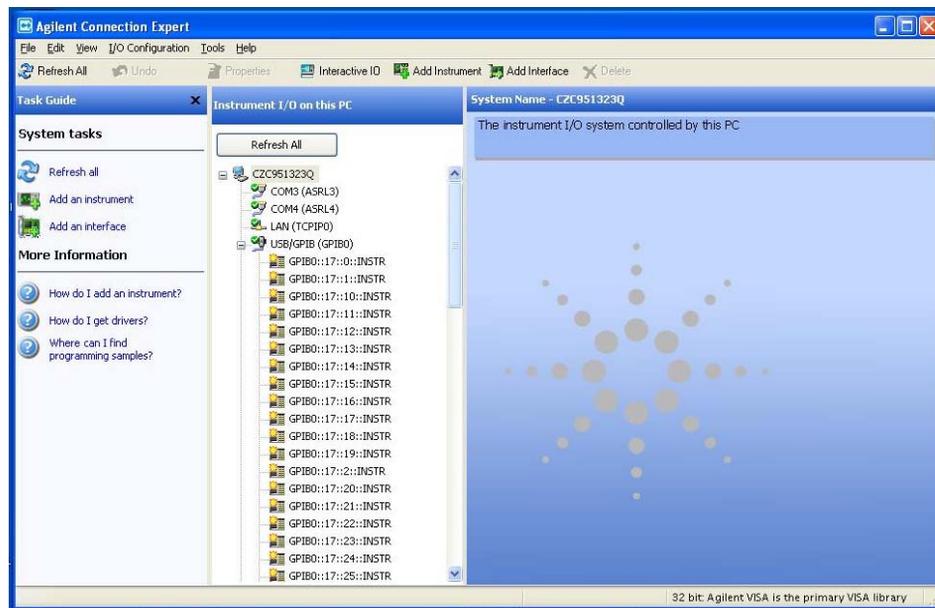


Figure 9 Connection Expert with online instrument automatically configured

If your GPIB Instrument is switched on, the Connection Wizard automatically detects the online instrument and assigns the default configuration.

NOTE

In case of the Capillary Electrophoresis, this assignment is not correct. The connection needs to be established manually. Leave this instrument turned off! This prevents the assignment of incorrect default configuration.

- 3 In the section **Instrument I/O of this PC** all currently available communication ports are listed. Select the first port, e.g. COM 1 and press delete (using the Task Guide, Menu Bar or the right mouse-click function). Please remove ALL available ports one after the other.

1 Installing the Agilent IO Library Suite and Drivers

Configure the 82350 A/B GPIB Card or the 82357 A/B USB-GPIB Interface

4 In the section **System Task** select **add an Interface**.

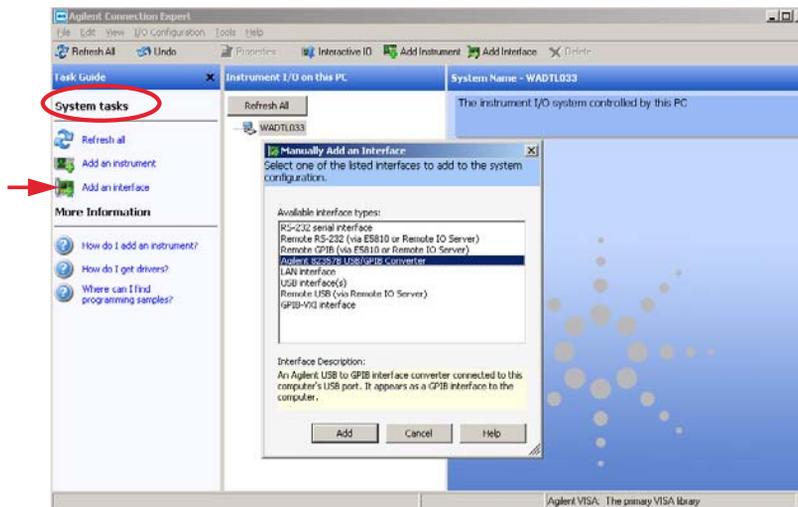


Figure 10 Connection expert: Manually Add an Interface

5 Select your interface type from the list of available interface types and press **Add**. Using ChemStation Instruments the following interface types are supported:

- Agilent 82357A USB/GPIB Converter
- Agilent 82357B USB/GPIB Converter
- Agilent 82350A GPIB Card
- Agilent 82350B GPIB Card

NOTE

If you are not sure, if your instrument supports the mentioned interfaces, please consult Chapter 1.

The next window allows to modify the configuration of the chosen interface.

6 Continue with option a) below for the 82350A/B GPIB cards, and with option b) for the 82357A/B USB-GPIB Interface.

a For the 82350A/B GPIB cards, see [Figure 11](#) on page 17.

- Set the **GPIB address** to

30

Configure the 82350 A/B GPIB Card or the 82357 A/B USB-GPIB Interface

- set the **SICL Interface ID** to **hp82341**
- check the **System controller** box
- deselect the **Auto-discover instruments connected to this interface** option
- press **OK** to finish the configuration.

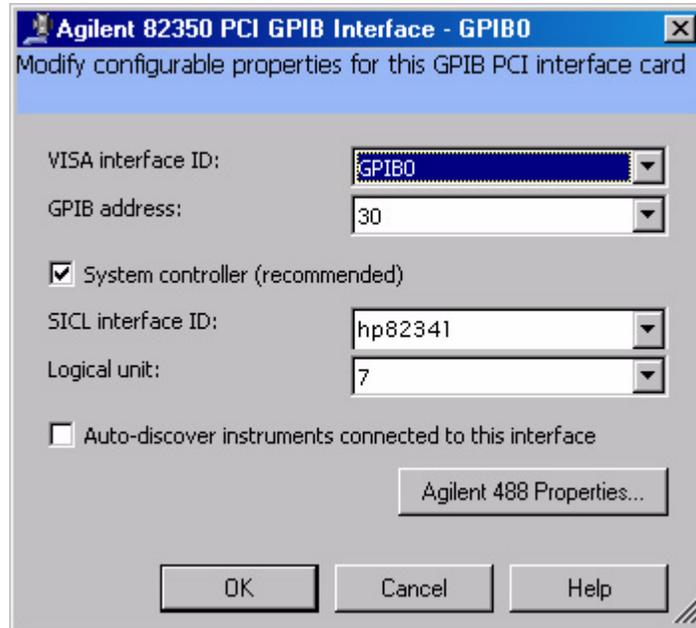


Figure 11 Configuration Parameter 82350A/B GPIB Card

- b** For the 82357A/B USB-GPIB Interface, see [Figure 12](#) on page 18.
- Set the **GPIB address** to **30**
 - set the **SICL Interface ID** to **hp82341**
 - deselect the **Auto-discover instruments connected to this interface** option
 - press **OK** to finish the configuration.

1 Installing the Agilent IO Library Suite and Drivers

Configure the 82350 A/B GPIB Card or the 82357 A/B USB-GPIB Interface

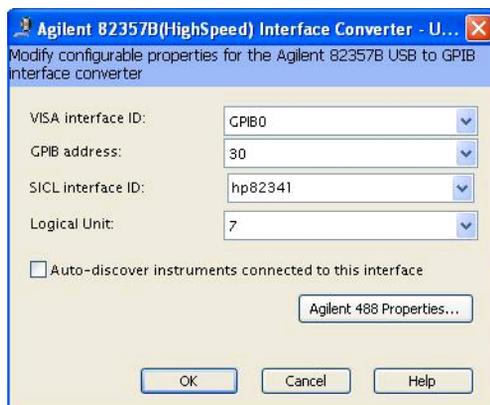
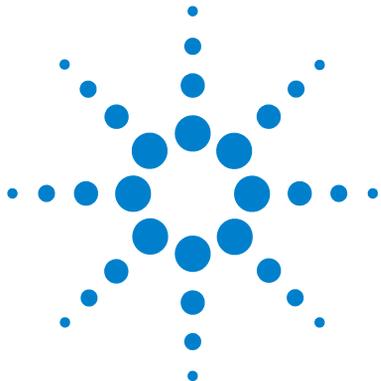


Figure 12 Configuration Parameter 82357A/B USB/GPIB Interface

- 7 Locate your interfaces and GPIB cards in the explorer pane. You can click on them to see their properties. It is possible to rename the labels of the interfaces and GPIB cards. You can observe their state, and it is also displayed in the right-hand pane if communication to the interface or instrument has been successfully established, it will be in the *Verified* state, denoted by a green check mark.
- 8 The configuration of your interfaces or GPIB card is now finished. Exit or close **Agilent Connection Expert** and reboot your PC.
- 9 Switch your instrument on, and configure your Instrument using the ChemStation Configuration editor, as described in the manual *Installing your ChemStation*, before starting the Agilent ChemStation Program.



2 Upgrading Existing IO Libraries

Upgrading IO Libraries to the IO Library Suite 20

This chapter explains how to upgrade from existing IO Libraries to IO Libraries Suite



Upgrading IO Libraries to the IO Library Suite

You can check the existence of an previous version of IO Libraries either by the IO icon in the left-hand site in the task bar, or click **Start > Programs** and look for the **Agilent IO Libraries** or **Agilent IO Libraries Suite** program group. If this group is displayed, click **Agilent IO Libraries > IO Control** to display the IO icon. Click the icon and click **About Agilent IO Libraries Control** to display the installed version. Before you are upgrading to IO Libraries Suite from a previous version of IO Libraries, you must remove the instruments and interfaces listed below. This step is necessary in order for these devices to obtain the correct drivers to work with Agilent IO Libraries Suite.

- Disconnect any Agilent 82357 USB/GPIB interfaces from your PC
- GPIB cards can remain installed on your PC

After disconnecting your devices, please follow the outlined steps like listed below.

NOTE

The IO Library Suite requires Microsoft Visual C++ Redistributable, VISA Shared Components and IVI Shared Components to be installed prior the installation of the application. If these components are not present, they will be installed automatically, before starting the IO Library Suite installation.

NOTE

The IO Library Suite requires Microsoft Framework to be installed prior the installation of the application. If the needed Microsoft Framework is not present, it will be installed automatically, during the IO Library Suite installation.

- 1 Close all other applications on your PC.
- 2 Using the Windows Explorer, locate and start IOLibSuite_15_5_MR_EXE.exe in the IO_Libs directory of your ChemStation DVD. If Microsoft C++ Redistributable, VISA Shared Components and IVI Shared Components are not present, the InstallShield comes up and will list the application as requirement. Press **Install** to start the installation of the Microsoft C++ Redistributable, VISA Shared Components and IVI Shared Components. The IO Suite InstallWizard Welcome Screen is displayed afterwards.

- 3 Click **Next** and on the upcoming License Agreement Screen, accept the License Agreement and then click **Next** to continue the upgrade.
- 4 Select **Typical** for the installation type and press **Next** to continue.
- 5 On the upcoming window, verify the path statements for the installation and press **Install** to start the installation process.
- 6 During the installation process the InstallWizard will check for older versions of the IO Library or IO Library Suite. If older versions are present, the older version will be de-installed automatically. The user will be notified on the screen and the installation of the IO Library Suite will proceed immediately.
- 7 When the installation is complete, leave the screen with **Finish**.

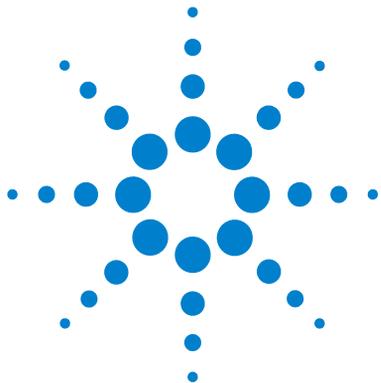


Figure 13 Finish Device Driver Installation in Windows XP

- 8 Reboot your PC to initialize the IO Libraries Suite 15.0 with the GPIB card, or USB/GPIB Interface. Please follow the initialization steps and configuration steps listed in “Upgrading Existing IO Libraries” on page 19.

2 Upgrading Existing IO Libraries

Upgrading IO Libraries to the IO Library Suite



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This chapter outlines the changes made by the installation, and lists IO Services and Processes.



3 Additional Information regarding the Agilent IO Library Suite

What has been changed by the Installation?

What has been changed by the Installation?

ChemStation requires a full installation of the IO Libraries Suite, therefore the whole library packages including SICL and VISA were installed and several program icons were created. In addition, an Agilent IO Control was created.

During installation, the Agilent IO Libraries Suite program group was created (see [Figure 14](#) on page 24).

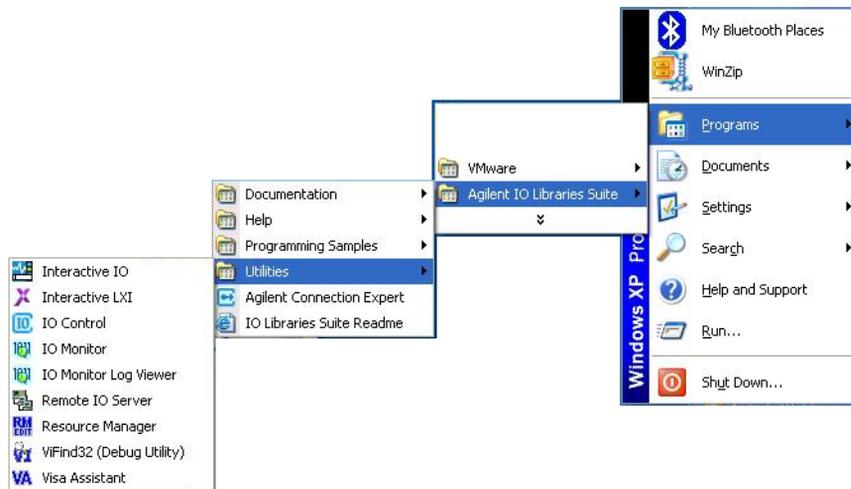


Figure 14 Agilent IO Libraries Suite program group

Table 3 Agilent IO Libraries Suite Program Items

Program item	Contains / opens
Documentation	PDF User Guides etc. for SICL, VISA, etc.
Help	Help Files for all Program items
Programming Samples	Programming examples for Excel, Visual Basic 6, Visual Basic .NET, etc.
Agilent Connection Expert	Opens the Agilent Connection Expert. Use to configure your connection interface
IO Libraries Suite Readme	Opens IO Libraries Suite Readme
Utilities	Lists the available IO Libraries Suite Utilities

IO Control Services and Processes

NOTE

The services and processes listed below are present for plain ChemStation configuration. Additional services and processes (Agilent.TMFFramework) are present depending on your configuration (e.g. remote Services).

The following table lists the IO Control related services and processes,
The following table lists the IO Control related services and processes,

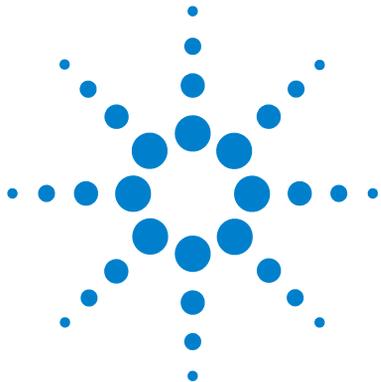
- present after the installing the IO Control
- present during online connection to a GPIB Interface
- present during online connection to a USB/GPIB Interface

Table 4 IO Control Services

Service	Present after/during
Agilent IO Libraries Service	after installation

Table 5 IO Control Processes

Process	Present after/during
Agilent.TMFramework.Connectivity. AgilentIOLibrariesService.exe	after installation
Agilent.TMFramework.Connectivity. AgilentNkoServer.exe	after installation
Agilent.TMFramework.Connectivity. AgilentIOServer.exe	after installation
hsictsk.exe	Online Session of ChemStation for GPIB and USB/GPIB



4 Installation troubleshooting

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This chapter gives support in case of installation problems. In addition it gives instructions how to change or remove your installation.



Installation Troubleshooting

If you encounter problems while installing the IO Libraries Suite, the following steps may help.

- 1 Close or cancel all **InstallShield Wizard** and other *Agilent IO Libraries Suite* windows. Exit any other applications on your system.
- 2 Browse to the IO_Libs folder of your ChemStation DVD and double-click to run IOLibSuite_15_5_MR_EXE.exe.

This restarts the installation process.

- 3 If you see the standard **InstallShield Wizard**, step through the installation process as described in this chapter.
- 4 If you see **Modify**, **Repair**, and **Remove** options, select **Repair**.
This will reinstall all installed features of IO Libraries Suite.
- 5 If this does not solve the problem, restart the installation again, select **Remove**, and then reinstall the product.

Problems with Plug and Play option GPIB cards

Operation systems using Plug and Play may show problems during the installation of the appropriate drivers for the GPIB (PCI) cards.

In order to overcome plug and play related problems please follow the steps below to install the card successfully.

- 1 If already installed, uninstall the Agilent IO Libraries Suite 15.5 from **Control Panel > Add/Remove Programs**.
- 2 Remove the GPIB Interfaces (if installed) listed under the Device Manager and shut down the computer. For Windows XP: in the Control Panel, double-click **System > Hardware Tab > Device Manager > GPIB Interfaces**
- 3 Physically remove the GPIB card from the computers PCI interface.
- 4 Restart the computer and log on to the system. Install the Agilent IO Libraries Suite 15.5. Do not configure the card this time and shut down your computer.
- 5 Re-insert the GPIB card and boot the computer.
The **New Hardware Found** wizard will indicate that a PCI card is found.
- 6 In the New Hardware Found window, select the second choice to search from a list of known devices. In this list, select the option for Agilent Technologies, since the IO Libraries Suite 15.5 is already installed.

NOTE

If the **New Hardware Found** wizard does not run, check the device manager to verify that the GPIB interface is listed and installed correctly.

- 7 To configure the GPIB card please follow the instructions stated in [“Configure the 82350 A/B GPIB Card or the 82357 A/B USB-GPIB Interface”](#) on page 14 of this booklet.
- 8 Click the icon  to start the Agilent IO Control and choose **Agilent Connection Expert**.

Problems with Plug and Play option using 82357A/B USB-GPIB Interface

Operating systems using Plug and Play may show problems during the installation of the appropriate drivers for the USB-GPIB Interface.

In order to overcome problems related to Plug and Play, please follow the steps to install the card successfully.

- 1 Verify the status of the USB-GPIB Interface in the Device Manager: **Start > Settings > Control Panel**, double-click **System > Hardware Tab > Device Manager > GPIB Interfaces**.

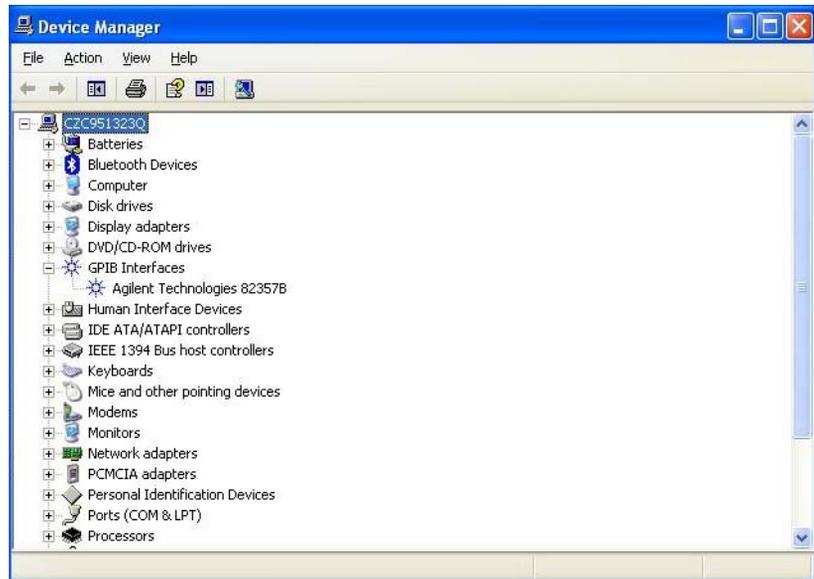


Figure 15 Device Manager Windows XP USB-GPIB Interface, correctly installed

- 2 If a yellow exclamation mark is attached to the USB-GPIB Interface (see [Figure 16](#) on page 31) the driver needs to be installed a second time as in “[Install the GPIB Cards / USB-GPIB Interfaces Drivers](#)” on page 11.

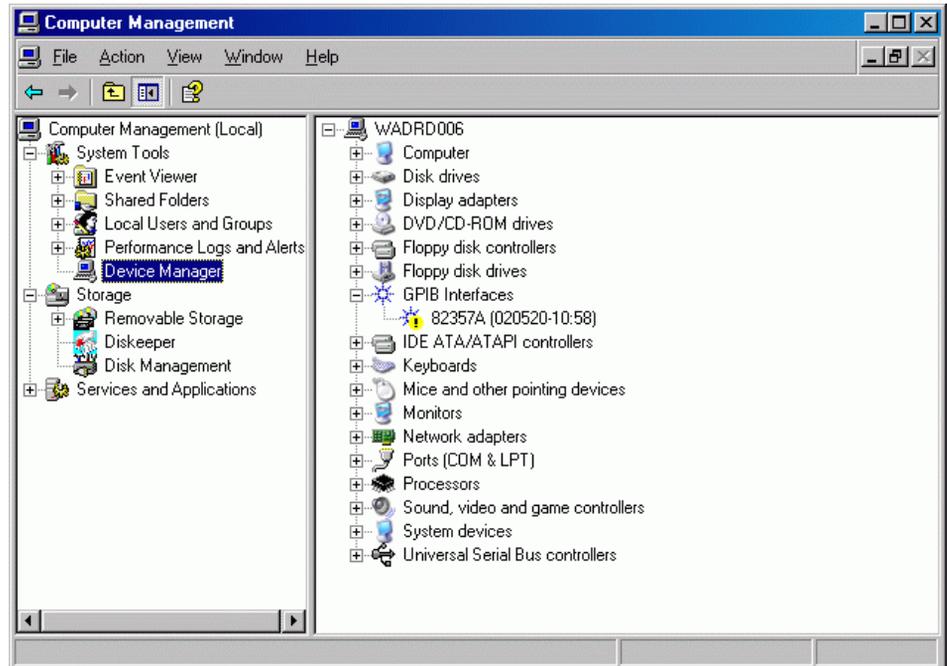


Figure 16 Device Manager Windows XP after first installation of USB-GPIB Interface

- 3 After the second installation, the system detects the USB device automatically and allows you to configure the device properly. Start the **Agilent Connection Expert** to configure your GPIB connection.
- 4 Start the IO Config Utility by clicking on the Icon , and choose **Agilent Connection Expert** to configure your GPIB Interface (see “[Configure the 82350 A/B GPIB Card or the 82357 A/B USB-GPIB Interface](#)” on page 14).
- 5 From the list of available interface types, choose the **82357 USB to GPIB**.

Changing Your Installation or Removing IO Libraries Suite

- 1 Click **Start > [Settings] > Control Panel > Add or Remove Programs**
- 2 Select **Agilent IO Libraries Suite**
- 3 Click **Change/Remove**
- 4 Select the action you want to take:
 - **Modify:** Adds, replaces, or removes selected features. You can change your installation from primary to side-by-side or from side-by-side to primary by using this option. You can also use this to install manuals or sample code if you did not initially install them.
 - **Repair:** Reinstalls all features.
 - **Remove:** Removes the product from your PC.



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Instructions on how to access additional documentation



Agilent IO Libraries Suite 15.5 Documentation

Online Help is easily available whenever you use the Connection Expert software. Just click **Help > Help Topics** or press the F1 key. To access the online

help without running Connection Expert, click the **IO Control** , click **Documentation** and then **IO Libraries Suite Help**. The online help will appear on your screen in a new window.

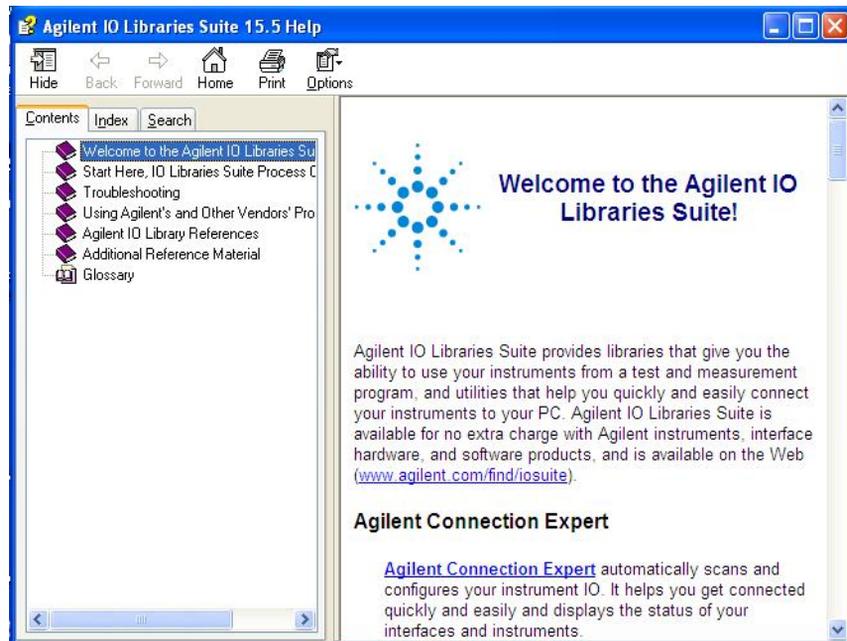


Figure 17 Agilent IO Libraries Suite 15.5Help

The Task Guide

The *Connection Expert task guide* appears in the left-most pane of the **Connection Expert** window. The choices listed in the task guide are based on what you have selected in the explorer pane (the middle pane of the Connection Expert window). The purpose of the task guide is to point you to common tasks and useful information.

Other Documentation

The table below lists documentation that may be helpful to you as you connect and control your instruments.

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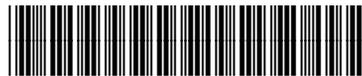
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In This Book

This manual describes how to install and use the IO Libraries Suite 15.5.

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Printed in Germany
09/2010



G2170-90139