

Welch Allyn Service Tool

Installation and configuration guide

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Welch Allyn, Inc. 4341 State Street Road Skaneateles Falls, NY 13153 USA

baxter.com



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1 Introduction

Product overview

This guide describes how to install the **Welch Allyn** Service Tool, a software application that clinicians and technical service personnel can use to manage and maintain supported Welch Allyn products.

This guide is written for system administrators and others with a background in information technology.

Editions

The service tool is available in the following editions:

- Standard unlicensed: Accompanies your monitor. This edition provides basic access to device information and firmware updates.
- Licensed (Gold): Required to perform complete functional verification and calibration. This edition requires a license. For more information about acquiring this license, contact Welch Allyn.



NOTE To qualify for the Gold license, you must attend a Welch Allyn technical training course or complete online training for your devices.

Purpose

You can use the service tool to do the following:

- Install updates and upgrades. The service tool can read the firmware version for each module and check for available updates or upgrades.
- Review monitor information. When connected to the monitor, the service tool lists installed modules, installed firmware and hardware versions, warranty and repair information, status, and usage history.
- Receive notifications when periodic maintenance is needed. The service tool can help you manage and maintain your entire inventory

of supported Welch Allyn products. Through the remote service function, the service tool can connect to Welch Allyn Customer Service. With this functionality you can automatically receive firmware updates and feature upgrades for your supported products, including software upgrades for the service tool.

- Create a work list. The work list provides information about service actions—referred to as work orders—that are waiting for you to perform on your maintained devices. Work orders may include periodic calibrations, upgrades, or license installations.
- Schedule periodic maintenance. You can use the service tool to set the service interval for each maintained device.
- View and save logs. You can download and save log files from the device for analysis to help diagnose and identify reported issues.
- Create user accounts. Administrators can create user accounts and set permission levels to control access to the features, allowing one group to perform administrative tasks and another to perform service tasks. Restricting access prevents the service tool from being used to make unauthorized changes on a connected device.
- Perform functional verification. You can use the service tool to test
 each component of the system to ensure that its performance meets
 design specifications. Functional verification is required to meet the
 periodic maintenance requirements. This feature is not supported for
 all products and requires the service tool Gold edition for each
 supported product.
- Perform calibration verification. The service tool can check any
 system requiring calibration and, if necessary, calibrate the monitor to
 match the design specifications. Calibration verification is required to
 meet the periodic maintenance requirements. This feature is not
 supported for all products and requires the service tool, Gold edition,
 for each supported product.
- Recover devices. In the rare case where a device can no longer boot because of corrupted firmware, the service tool can connect the device to Welch Allyn Technical Support to reinstall the firmware.
- **Extensible.** The service tool accepts new plug-ins to support future Welch Allyn products.

2 Installation

This chapter explains how to install the service tool and the other programs included with the service tool: USB driver.

System requirements

- Supported operating systems: Windows 10, 64 bit
- Supporting software: .NET Framework 3.5; .NET Core 3.1 Runtime
- Processor: 400 MHz Pentium processor or equivalent (minimum);
 1GHz Pentium processor or equivalent (recommended).
- RAM: 1 GB (minimum); 2 GB (recommended).
- **Hard disk**: Up to 10 GB of available space may be required.
- Display: 800 x 600, 256 colors (minimum); 1024 x 768 high color, 32bit (recommended)
- **USB**: 2.0 (minimum)
- Internet connection: Required to download files.

Network requirements

When you use the service tool to license or download firmware, network traffic travels over non-registered ports. You must open these ports for TCP/IP and UDP traffic on your PC or network firewall.

Ports	Description
5093, 5094	Welch Allyn licensing server



NOTE To open these ports, consult the Service software IT setup table below and your network administrator.

Service software IT setup

Table 1.

Installed Welch Allyn service component	Required outbound network Domain name IP address Port	Service feature description
Welch Allyn Service Tool	IP:12.38.86.181 TCP port: 5094	Used to activate the Service Tool and enable device feature licenses. (This IP address does NOT respond to "ping.")
Teamviewer Host	IP: multiple depending on geographic location Default TCP port: 80/443 (can be configured to use TCP port 5938)	Used by Welch Allyn service personnel to access a customer's machine (with customer's consent/ permission) to address device issues.

Table 1.

Installed Welch Allyn service component	Required outbound network Domain name IP address Port	Service feature description
RNDIS Driver	TCP: 139 UDP: 137, 138, 1900, 5353, 51996, 51997	Port configuration for RNDIS private networks.
File outbound types	.log, .xml, .zip, .txt	
File inbound types	.tar.gz, .tar, .seq, .wsf, .pim, .xml, *.txt, *.pdf	_

Before you begin

All users must complete the following tasks before starting:

- Verify that this computer meets the hardware and software requirements listed in System requirements.
- Verify that you have administrator rights for the computer. The operating system will prompt you for Administrator credentials.

Installation overview

The installation download for the service tool, which supports a full suite of functional tests, consecutively installs the following programs:

USB driver

This program allows Welch Allyn devices to connect to a PC for testing.

RNDIS driver (Connex Spot Monitor only)

The **Connex** Spot Monitor and the **Welch Allyn** Service Tool interact via Ethernet over USB technology. This creates a network interface that can be assigned an IP address and otherwise treated as ordinary Ethernet hardware. This interface is used for the **Connex** Spot Monitor firmware upgrades.

Download and install the service tool

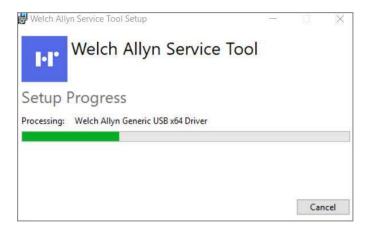
- 1. Log in as Administrator.
- Navigate to the Welch Allyn Service Tool website: https://www.hillrom.com/en/services/welch-allyn-service-tool/.
- Scroll to the bottom of the screen and click **DOWNLOAD ZIP** under Service Tool Software.
- 4. Navigate to your Downloads folder and extract the WAST download.
- 5. Right-click and select **Run as administrator**.



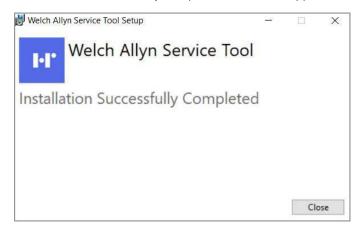
NOTE If a **Windows** security warning notifies you that the publisher cannot be verified, confirm that you want to run the installation program. This security warning displays while opening the zip file as an administrator.



Accept the license terms and conditions and click Install. The Setup screen appears. Setup installs the Service Tool and displays a progress bar during installation.



7. The Installation Successfully Completed screen then appears.



8. Click **Close**. Service tool installation is complete.

Install/Uninstall PartnerConnect software

Visit https://www.hillrom.com/content/dam/hillrom-aem/us/en/sap-documents/LIT/80016/80016392LITPDF.pdf

3 Operation

This chapter describes how to operate the service tool.

Starting the service tool

To start the service tool, go to the **Windows** Start menu, and select **All Programs > Welch Allyn > Welch Allyn Service Tool.** Either the simple user interface screen (page 10) or the main screen (page 11) appears, depending on the configuration.

Activating a feature or license

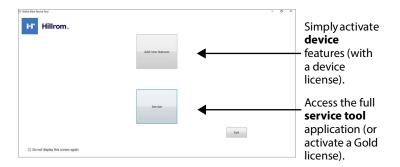
When you purchase a licensed upgrade or option for a supported product, you also receive an authorization code from Welch Allyn. Use this code to activate the new feature(s). You can activate features through the simple user interface or through the Administration menu.

Before you begin, make sure you have the following:

- · Computer (see System requirements).
- Welch Allyn medical device requiring a license upgrade.
- USB 2.0/5-pin Mini-B cable, gold, 6 feet.

Activate through the simple user interface

 Go to the Windows Start menu, and select All Programs > Welch Allyn > Welch Allyn Service Tool. The simple user interface appears:





NOTE If this is not the screen you see, go to <u>"Activate through the Administration menu"</u> on page 11.

- 2. Click Add new features.
- 3. Follow the instructions on the screen. If activation fails, see <u>"Troubleshoot the activation"</u> on page 12.
- 4. When activation is complete, disconnect the USB cable from the device, and power down the device as described in its documentation.

Activate through the Administration menu

 Go to the Windows Start menu, and select All Programs > Welch Allyn > Welch Allyn Service Tool. The main screen appears.





NOTE If this is not the screen you see, go to <u>"Activate</u> through the simple user interface" on page 10.

- 2. If prompted, log on. For details, see <u>"Log on for the first time"</u> on page 12.
- 3. Click **Administration** > **Install license**. The Install license screen appears.
- 4. Select Medical device license.
- 5. Connect the USB cable to the mini-B USB port on the Welch Allyn device and the opposite end of the USB cable to the PC.
- 6. If the device is powered down, power it up.
- 7. If more than one device is connected, select the device you want to license from the list.
- 8. Under Connected and maintained devices, click the device and then click **Select**.
- Enter the authorization code and then click **Activate**. The service tool displays a message verifying a successful activation.
 If activation fails, see <u>"Troubleshoot the activation"</u> on page 12.

10. Power down the device as described in its documentation.

Troubleshoot the activation

If the activation does not succeed, check the following, and try again:

- Make sure that you rebooted the device. A new license takes effect only after the device reboots.
- Confirm that you entered the correct authorization code.
- Check your Internet connection.
- Verify that the proper ports are open, as described in <u>"Network requirements"</u> on page 4.

If activation still does not succeed, contact Welch Allyn Technical Support for assistance.

Accessing the service tool Log on for the first time

- Go to the Windows Start menu and select All Programs > Welch Allyn
 Welch Allyn Service Tool.
- 2. Click **Service**. The Login dialog displays, with ADMIN as the user ID.
- 3. Click Change Password.
- 4. Set a password for the ADMIN account:
 - a. The **Change Password** dialog will be displayed, notice the complexity requirements listed in the top portion of the window.
 - b. Leave the "Old password" field blank.
 - c. Enter a password in the Enter new password box, then confirm the password by entering it again in the Re-enter password box.
 - d. Click Save.

You can now use the service tool. For information about creating more user accounts, select **Help > Service Tool help > Menu options > Administration menu**.

Configuring the service tool Disable the simple user interface

You can configure the service tool to bypass the simple user interface when starting. If this interface is disabled, users must activate licenses from the Administration menu.

To disable the simple user interface, do one of these:

- On the simple user interface, select the **Do not show this screen again** check box.
- On the service tool's main screen, select Administration > Settings, and clear the Simple user interface check box.

Enable clinician access without logon

You can configure the service tool to allow Clinician functionality without logging on. (Biomed and Admin functionality always requires a log on.)

- 1. Log on as ADMIN.
- 2. Go to the service tool's main screen.
- 3. Select Administration > Settings.
- 4. Select the Admin tab.
- 5. Clear the Require clinical log on check box.
- 6. Click Save.
- 7. Restart the service tool.



NOTE This setting takes effect only after the service tool restarts.

Running the service tool

Before you begin, make sure you have your user ID and password.



NOTE The system administrator responsible for the service tool can provide the user ID and password. If you don't have an account, the administrator can create one.

Your account may not require a log in. Accessing Admin or Biomed functions always require a log in.

- Go to the Windows Start menu and select All Programs > Welch Allyn
 > Welch Allyn Service Tool.
- 2. (Optional) Click Service. The Login dialog displays.
- 3. Enter your user ID and password, and then click **Log on**.
 - Standard unlicensed edition features are now available.
 - Licensed (Gold) edition features are available, provided you have the following:
 - An installed Gold license.
 - A user account with the Biomed attribute.

Getting additional information

The service tool includes help that you can use to learn more about the tool's features and functionality.

To access help, log in and select Help > Service Tool help.

4 Uninstalling applications

This chapter explains how to uninstall the service tool and the other programs included with the service tool.

Removing service tool software

You must have administrative privileges to uninstall service tool software.

Remove service tool software on Windows 10

- Right-click and select Apps and Features.
 Windows lists the programs on this computer in Apps & Features.
- Remove the service tool programs one at a time—Welch Allyn USB driver, PartnerConnect (RSDS), and the Welch Allyn RNDIS driver.
 - a. Select the program.
 - b. Click the **Uninstall** option.
 Windows launches the Uninstall program.

To verify that the programs you deleted are removed:

1. Navigate to the uninstall screen.

Windows lists the programs on this computer.

2. Visually inspect to make sure that the programs you deleted no longer appear in the list of programs.

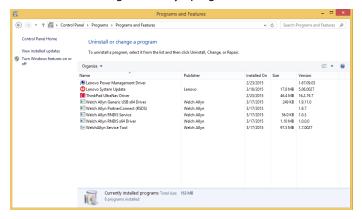
If the programs still appear in the program list, contact your IT department or workstation support and ask if there is anything on the network that prevents program removal.

In certain situations, programs external to Welch Allyn software may block uninstallation. If this is a possibility in your IT

environment, contact your IT department to verify whether additional steps are required.

Remove service tool software on Windows 7

- - The Control Panel appears.
- 2. Select **Uninstall a program** in the Programs section.
- 3. Scroll to the following Welch Allyn programs.



- 4. Remove the programs, starting with **Welch Allyn** RSDS:
 - a. Select the program.
 - b. Click the uninstall option.

Windows launches the uninstall program.

c. Follow the prompts to remove the program.



NOTE Accept the default values on the Select Options screen.

To verify that the programs you deleted are removed:

1. Navigate to the uninstall screen.

Windows lists the programs on this computer.

2. Visually inspect to make sure that the programs you deleted no longer appear in the list of programs.

If the programs still appear in the program list, contact your IT department or workstation support and ask if there is anything on the network that prevents program removal.

In certain situations, programs external to Welch Allyn software may block uninstallation. If this is a possibility in your IT environment, contact your IT department to verify whether additional steps are required.