



Windows 10 Professional for MassHunter Workstation

Setup Guide

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Before you can install MassHunter software on Windows 10 Professional, you need to set up the operating system.

Note that installations on computers not supplied by Agilent are supported on a best-effort basis only. Additional support can be purchased from the Agilent field support team.

This guide assumes the computer has just been imaged using the Agilent branded PC Emergency Recovery Disk produced specifically for and supplied with your bundled Hewlett-Packard computer. Do not use the standard Windows 10 media or PC settings can differ from the parameters that are optimal for your Agilent MassHunter software.



Minimum Requirements

The minimum computer specifications to run MassHunter programs on Windows 7 Professional (64-bit) are:

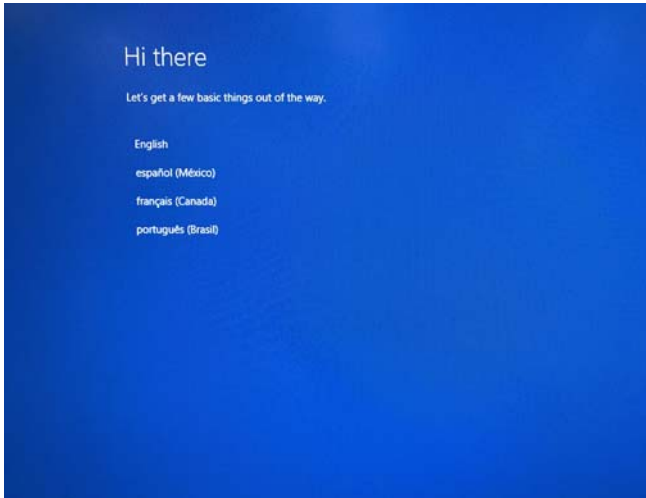
- HP Z440 w/ Intel Xeon E5-1620v3 (3.50 GHz, 10 MB cache, 4 cores)
- 16 GB of DDR4-2133 Registered ECC RAM
- 500 GB of available HDD space

For MassHunter Acquisition:

- For Q-TOF instruments: 4× 500 GB 7200 RPM SATA HDDs in a RAID 1+0 configuration (mirrored and striped)
- For Triple Quadrupole instruments: 2× 500 GB 7200 RPM SATA HDDs in a RAID 1 configuration (mirrored)
- For all GC Single Quad computers: 1× standard (100BASE-TX) Ethernet adapter (2nd optional adapter for site LAN connection)
- For all LC/MS and GC/MS: 1× standard (100BASE-TX) Ethernet adapter (2nd optional adapter for site LAN connection)
- For 7250 GC/Q-TOF only: 1× standard (100BASE-TX) Ethernet adapters and 1× IEEE 802.3an compliance (10GBASE-T) Ethernet adapter, (2nd optional 100BASE-TX adapter for site LAN connection)

Step 1. Set up Windows 10

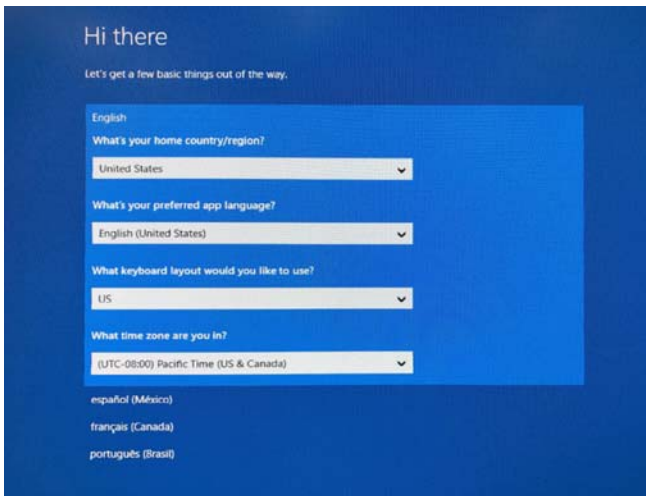
The first time that Windows 10 Professional starts up after installation, you are prompted for setup information.



1 When prompted, select your language, then your region, preferred language, keyboard, and time zone.

Only these operating systems are supported:

- English (United States)
- Japanese (for MassHunter Qualitative Analysis and Quantitative Analysis programs)
- Simplified Chinese (for MassHunter Qualitative Analysis and Quantitative Analysis programs)



Step 1. Set up Windows 10

The screenshot shows the Windows 10 setup process. The top section is titled "Create an account for this PC" and includes instructions: "If you want to use a password, choose something that will be easy for you to remember but hard for others to guess." Below this, there is a form for "Who's going to use this PC?" with a text input field containing "user1". Underneath, there are three password fields: "Make it secure." (with a strength indicator), a password field (with a strength indicator), and a "Password hint" field. The bottom section is titled "Here's the legal stuff" and contains the "MICROSOFT SOFTWARE LICENSE TERMS" for the "WINDOWS OPERATING SYSTEM". It includes a "Last updated July 2015" note and a warning: "IF YOU LIVE IN (OR IF YOUR PRINCIPAL PLACE OF BUSINESS IS IN) THE UNITED STATES, PLEASE READ THE BINDING ARBITRATION CLAUSE AND CLASS ACTION WAIVER IN SECTION 10. IT AFFECTS HOW DISPUTES ARE RESOLVED." The text continues with "Thank you for choosing Microsoft!" and a detailed license agreement. At the bottom right, there is a blue "Accept" button.

- 2 Create a user name and password for a user that will be a member of the Administrators group.

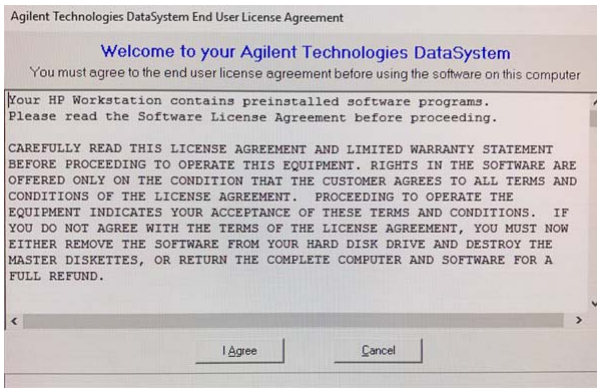
For Agilent bundle computers, create a new user other than “admin.” The user name “admin” with password “3000hanover” is already created when the Emergency Recovery Disk is used.

- 3 Read Microsoft’s license terms for Windows 10 Professional. Click **Accept**.
- 4 Log out of the user you just created, and log in to the Admin account using password 3000hanover.

The license agreement from Agilent appears.


Step 1. Set up Windows 10

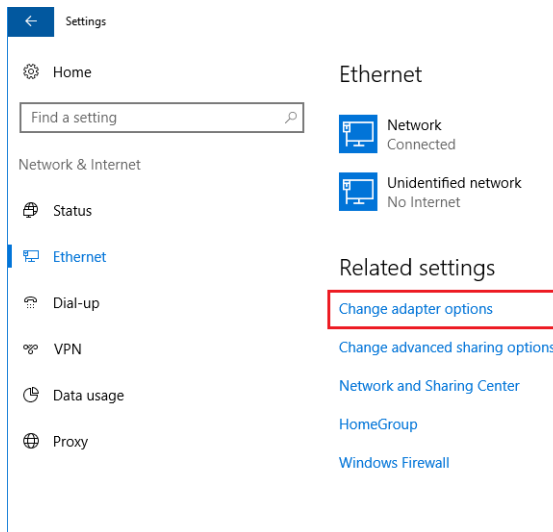
- 5 Click **I Agree** to accept the Agilent Software License Terms as the administrator.



Step 2. Rename the network adapters

Step 2. Rename the network adapters

- 1 Select **Start > Settings** ().
- 2 Select **Network & Internet > Ethernet (from the left side menu) > Change adapter options**.
- 3 Under **Related settings**, select **Change adapter settings**.



You will see one, two, or three network connections. (Some instruments require a third 10 Gb network adapter.)

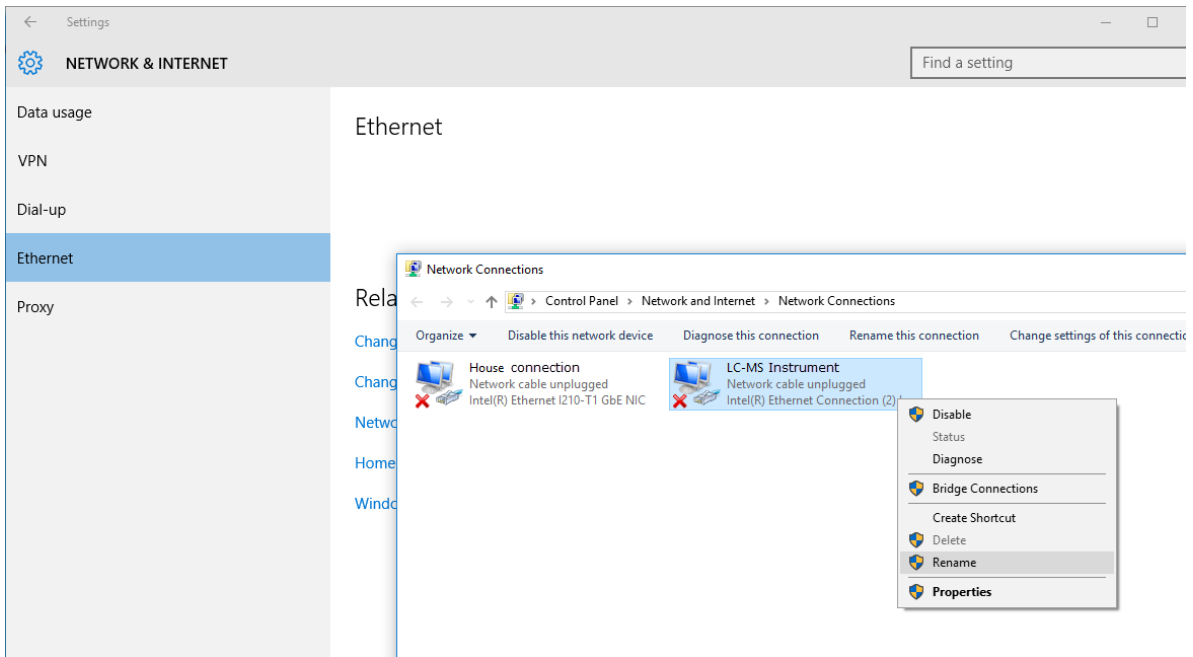
- 4 Disconnect all network cables from the computer.
- 5 *Optional.* Connect the in-house network:
 - a Connect a network cable for the in-house network to the port labeled **House**.
 - b Right-click the newly enabled network adapter and select **Rename**. Change the name to House connection.
- 6 For 7250 GC/Q-TOF only:
 - a Connect a network cable from the MS LAN port to the network adapter on the back of the computer that is labeled **MS**.
 - b Right-click the name of the connected main-board network adapter and select **Rename**. Change the name to MS Instrument.

Step 2. Rename the network adapters

7 Connect the Ethernet switch:

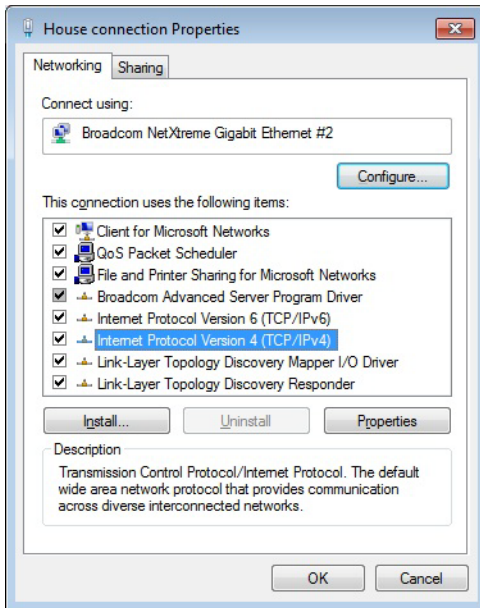
- a Connect a network cable from the Ethernet switch to the network adapter on the back of the computer that is labeled **LC-MS** or **GC**.
- b Right-click the name of the connected network adapter and select **Rename**. For LC/MS instruments, change the name to **LC-MS Instrument**. For GC/MS instruments, change the name to **GC Instrument**.

Refer to the installation guide for your GC/MS or LC/MS instrument to connect instruments and modules to the Ethernet switch.

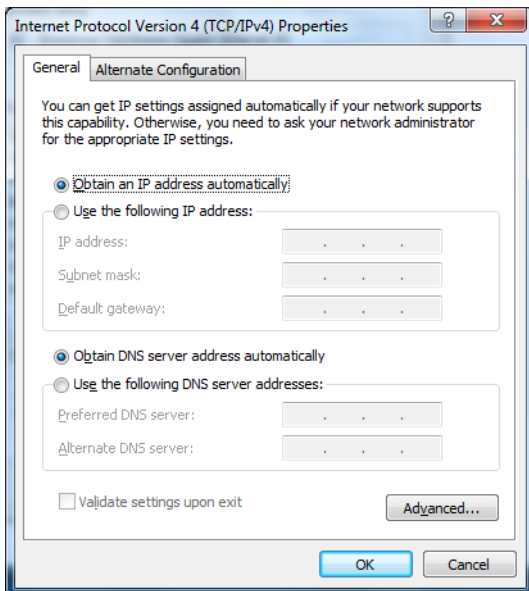


Step 3. Set the network adapter IP addresses

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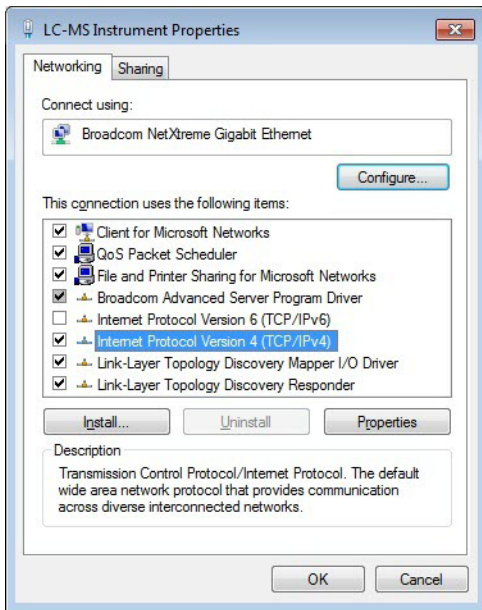


- 1 Right-click **HOUSE connection** and select **Properties**.
- 2 Double-click **Internet Protocol Version 4 (TCP/IPv4)**.

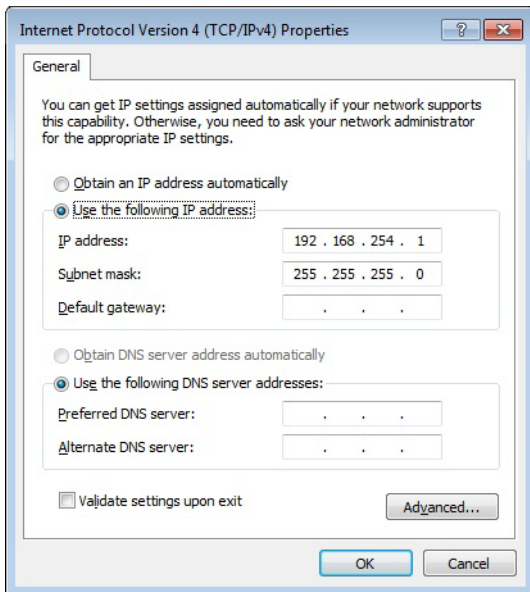


- 3 In the General tab:
 - a If the IT department for your organization requires specific network settings, select or type the settings. Otherwise, select **Obtain an IP address automatically**.
 - b Click **OK** twice to return to the Network Connections dialog box.

Step 3. Set the network adapter IP addresses



- 4 Right-click **LC-MS Instrument** or **MS Instrument** and select **Properties**.
- 5 Clear the check box for **Internet Protocol Version 6 (TCP/IPv6)**. This protocol is not supported by Agilent instruments.
- 6 Double-click **Internet Protocol Version 4 (TCP/IPv4)**.



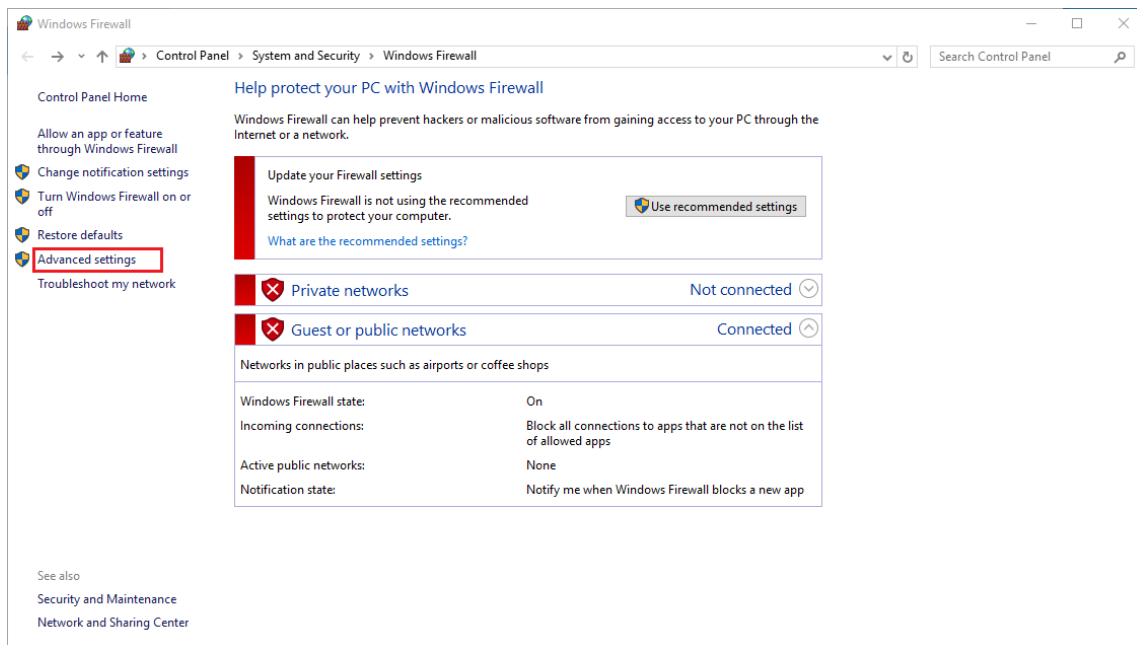
- 7 In the **General** tab:
 - a Select **Use the following IP address**.
 - b For **IP address**, type 192.168.254.1.

The Subnet mask automatically populates as 255.255.255.0. Leave the Default Gateway and DNS Server lines empty.
 - c Click **OK** twice to return to the Network Connections panel.
- 8 Repeat **step 4** through **step 7** for **GC Instrument** with this exception:
 - For **IP address**, type 192.168.253.1.

Step 4. Change firewall settings for the instrument network adapter

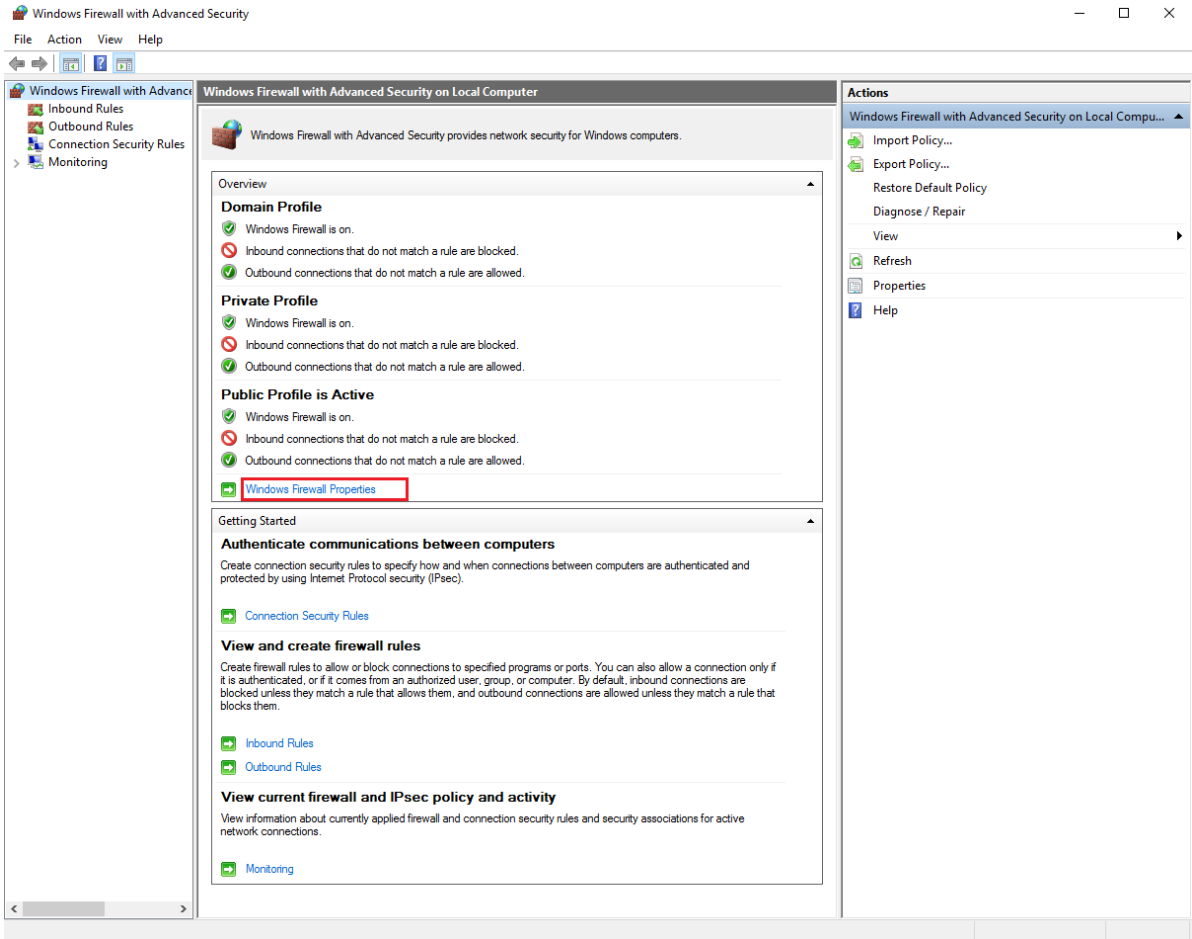
Step 4. Change firewall settings for the instrument network adapter

- 1 Close the network connections window and return to the **Settings, Network & Internet** view.
- 2 Under **Related Settings**, click **Windows Firewall**.
- 3 In the navigation pane, click **Advanced settings**.



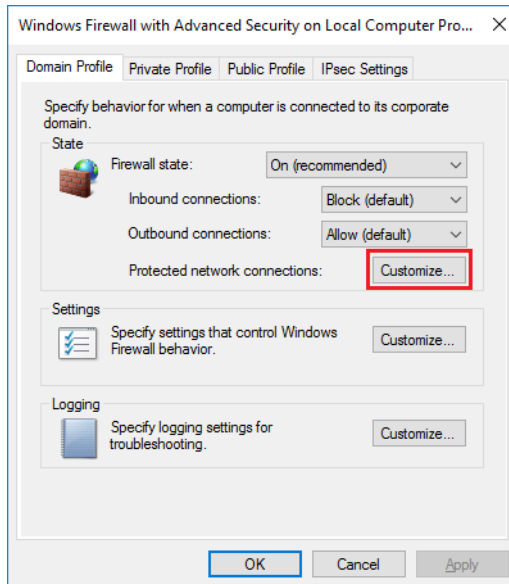
Step 4. Change firewall settings for the instrument network adapter

4 Under Overview, click **Windows Firewall Properties**.

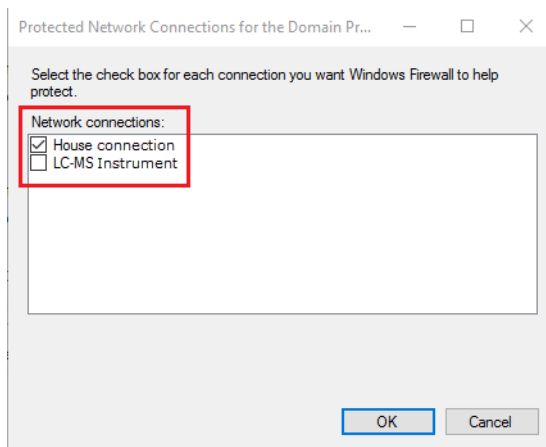


Step 4. Change firewall settings for the instrument network adapter

- 5 In the **Domain Profile** tab, next to **Protected network connections**, click **Customize**.



- 6 Clear all check boxes except **House connection**, and then click **OK**.

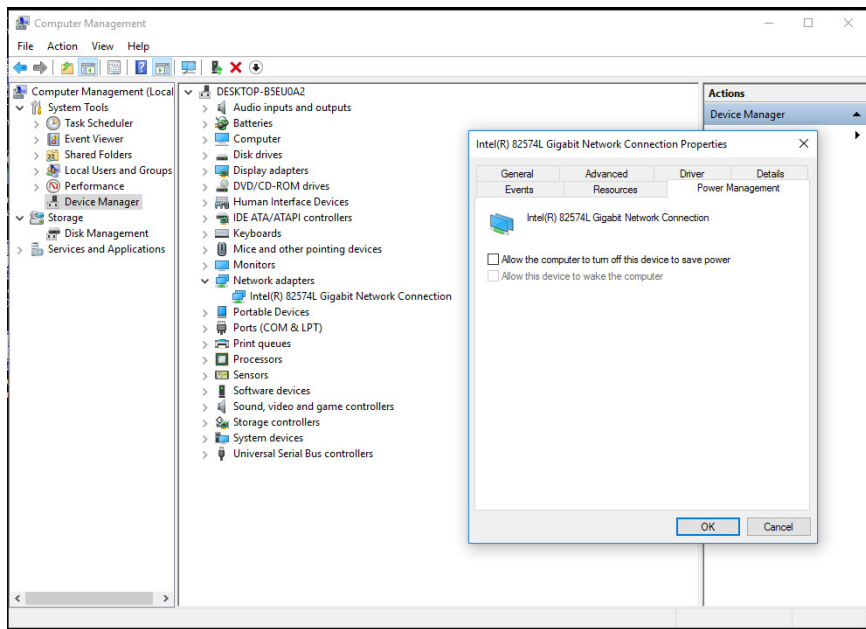


Step 5. Turn off Power Management for all Network Cards

- 7 Repeat the [step 5](#) and [step 6](#) for the **Private Profile** and **Public Profile** tabs.
- 8 Click **OK** to close the Windows Firewall with Advanced Security on Local Computer Properties dialog box.
- 9 Close the Windows Firewall with Advanced Security window.

Step 5. Turn off Power Management for all Network Cards

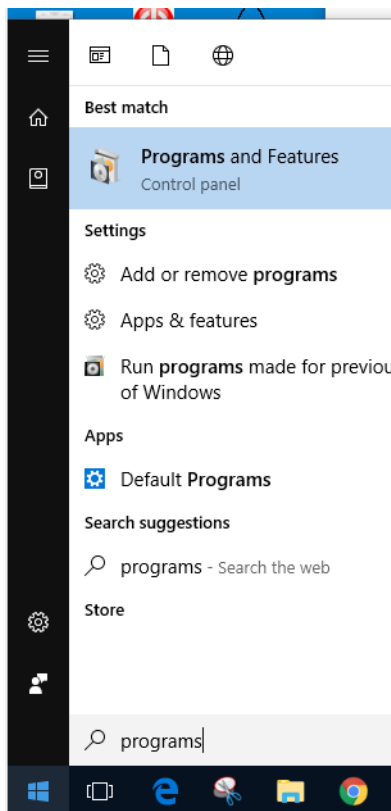
- 1 Right-click the **Start** menu and click **Computer Management**.
- 2 Under **System Tools**, click **Device Manager**.
- 3 Expand **Network adapters**.
- 4 For each network adapter:
 - a Right-click the adapter and click **Properties**.
 - b In the **Power Management** tab, *clear* the check box for **Allow the computer to turn off this device to save power**.
 - c Click **OK** and then close the Computer Management window.



Step 6. Confirm that Telnet Client and TFTP Client are enabled

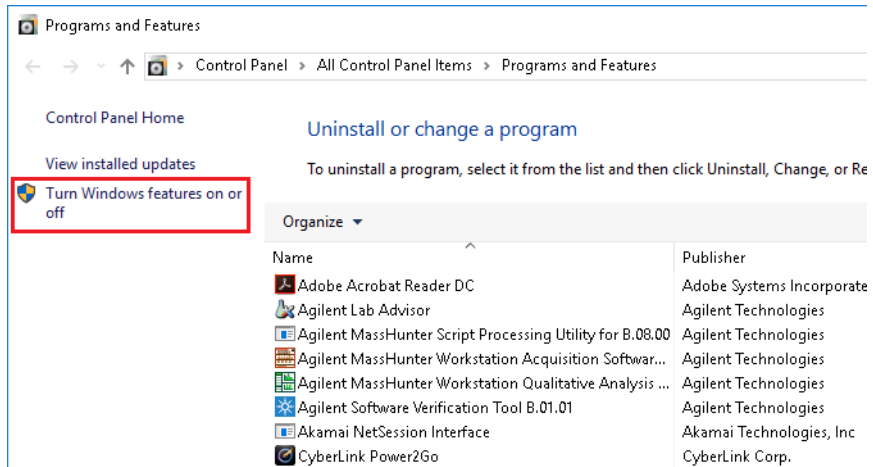
Step 6. Confirm that Telnet Client and TFTP Client are enabled

- 1 Click the **Start** button and then type `programs`.
- 2 Click **Programs and Features**.



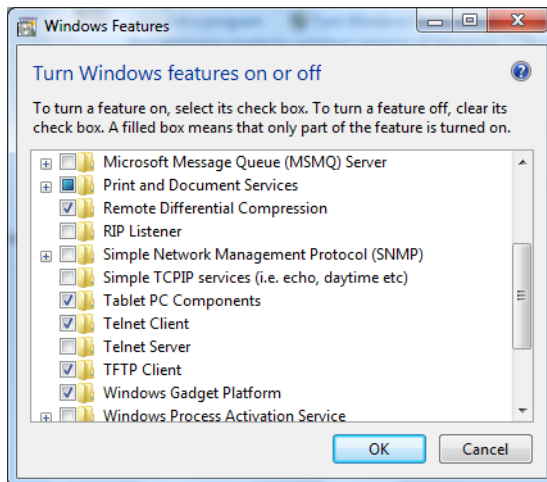
Step 6. Confirm that Telnet Client and TFTP Client are enabled

3 Click **Turn Windows features on or off**.



4 Verify that the **Telnet Client** and **TFTP Client** check boxes are selected.

These clients are required for the LC/MS Firmware Update Tool and for GC/MS instruments.



5 Press **OK** and close the Control Panel.

Step 7. Install MassHunter programs

- Install MassHunter programs.

Follow the appropriate installation or upgrade guide.

Step 8. Configure Microsoft Update and run on a regular basis

- On a regular basis, run Windows Update. Make sure to always install Windows Security Updates.

CAUTION

Do not schedule, download, or install any Windows Update while an Agilent instrument is acquiring data. Do not allow the computer to automatically download or install any Windows Update.

By default, your computer will not download or install Windows updates automatically. If your computer is connected to the Internet, you will be notified when updates are available.

CAUTION

Some Windows Feature Updates will change the group policy setting on your computer to allow the computer to automatically download and install Windows Updates, or to automatically reboot. For more information on how to control how and when Windows Updates are run, see

<https://docs.microsoft.com/en-us/windows/deployment/update/waas-restart>.

Third-party Software Security Programs

Agilent does exhaustive testing on a variety of software and hardware configurations to ensure that every configuration that Agilent sells works as designed.

However, Agilent is not able to test every combination of 3rd party computer security (antivirus, anti-malware, and firewall) programs for compatibility.

The customer is responsible for determining the compatibility of any 3rd party software that runs with an Agilent product.

Step 8. Configure Microsoft Update and run on a regular basis

If a 3rd party computer security program causes problems for an Agilent product, Agilent can request that such program be disabled or removed before Agilent provides support.

Windows Firewall

By default, the Windows firewall is enabled on the (main-board) network adapter that connects the computer to the House LAN. For network adapters that connect to Agilent instruments, keep the firewall disabled.

Windows Defender

By default, Windows Defender anti-malware service is enabled and must be updated on a regular basis. No special exclusions are required for the Windows Defender service to operate with Agilent products, except where otherwise indicated.

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In This Book

This guide describes how to set up Windows 10 Professional for MassHunter Workstation, to prepare for MassHunter software installation.

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