



Administrator Guide

HP USB Port Manager 2.0

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User input syntax key

Text that you must enter into a user interface is indicated by `fixed-width font`.

Item	Description
Text without brackets or braces	Items you must type exactly as shown
<Text inside angle brackets>	A placeholder for a value you must provide; omit the brackets
[Text inside square brackets]	Optional items; omit the brackets
{Text inside braces}	A set of items from which you must choose only one; omit the braces
	A separator for items from which you must choose only one; omit the vertical bar
...	Items that can or must repeat; omit the ellipsis

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1 Getting started

HP USB Port Manager allows you to manage USB device access on the thin client. Features include the ability to block or allow only certain USB devices, and set access to USB mass storage devices as read-only.

Supported operating systems

The following table lists the operating systems supported by HP USB Port Manager.

Item	Description
Operating systems	Windows® 10 IoT Enterprise
	Windows Embedded 8 Standard
	Windows Embedded Standard 7

Downloading HP USB Port Manager

HP USB Port Manager is typically preinstalled on HP thin clients. It can also be downloaded or updated via HP ThinUpdate.



NOTE: If the Control Panel app HP USB Storage Local Security Options is preinstalled on the thin client, you do not need to uninstall it. The installer for the latest version of HP USB Port Manager uninstalls it automatically during the installation process.

Opening HP USB Port Manager

- ▲ In Control Panel, select **HP USB Port Manager**.


2 Configuration

To configure USB device access:

1. Select the desired option:

Option	Description
Mode	Select one of the following modes: <ul style="list-style-type: none">• Off—Turns off USB Port Manager and allows access to all USB devices.• Whitelist—When whitelist mode is enabled, all devices are blocked except the items listed in the whitelist.• Blacklist—When blacklist mode is enabled, all devices are allowed except the items listed in the blacklist. <p>NOTE: To switch between modes, turn off USB Port Manager and then restart the thin client.</p>
Read-only USB mass storage	Sets access to USB mass storage devices as read-only.
Enable logs	Enables the capture of detailed USB connected device information such as vendor ID, product ID, and class ID to assist with configuration and debugging. <p>NOTE: Select View Log to view the log. If the log file does not exist, try restarting the thin client.</p>


2. Restart the thin client for the changes to take effect.


 **NOTE:** If you want to deploy the same configuration to other thin clients, see [Exporting the configuration for deployment on page 4](#).

Managing USB device access


You can control which specific USB devices have access to the thin client by using whitelist mode to ensure that they have access, or blacklist mode to block access.


In whitelist mode, HP USB Port Manager includes some predefined items (see [Predefined whitelist items on page 3](#)).


 **TIP:** The whitelist predefined **USB Input Devices** will allow the use of all input devices, however, if this entry is disabled, make sure that your mouse and keyboard are actively listed on the whitelist before turning on Whitelist Mode. Do not add your keyboard or mouse to the blacklist.

 **NOTE:** The predefined entry **USB Mass Storage Devices** must be disabled in order to specify which USB storage drives are allowed. When this entry is enabled, all USB input devices are allowed whether or not they are added to the whitelist.

To add devices:


 **NOTE:** If you have already created a whitelist or blacklist and need to add another device, you must first turn off USB Port Manager, restart, then follow the steps to add devices.

1. Select the desired mode.
2. There are two ways to add devices.
 - To add by USB device information:
 - ▲ Input the device **Name**, **Vendor ID**, **Product ID**, and then select the **Class ID** from the drop-down menu. Select the add icon  to add to list.
 - To add USB devices currently connected to the thin client:
 - ▲ Select **Devices**; all currently connected USB devices that are not already added to the whitelist or blacklist will be shown in the dialog box. Select the check box next to the name of the USB devices you want to add. Select **OK** to add the item(s).
3. Find the device on the list and then select the check box next to the item.
4. Restart the thin client for the changes to take effect.

 **NOTE:** After restart, the ability to add devices will be disabled. To reactivate, turn off USB Port Manager by selecting **Off** and then restart thin client.

Accessing USB storage devices

Settings configured in USB Port Manager will affect all accounts including the Admin account. However, user profiles might not be able to access the content in USB storage devices even if the device has been enabled on the whitelist. To control which drives are visible or hidden, open **Local Group Policy Editor > Administrative Templates > User Configuration > Windows Components > File Explorer > Hide these specific drives in My Computer**.

 **NOTE:** Changes made to Group Policy affect all accounts including the Admin and all user accounts.


Editing USB device information

Name, **Vendor ID**, **Product ID**, and **Class ID**, can be modified while either mode is enabled.

1. Select the desired item category within the list. Input the desired changes.
2. Restart the thin client for the changes to take effect.

Removing devices from the list

You can either remove a device or deactivate its listing from the whitelist or blacklist.

1. Follow the steps outlined below:
 - To deactivate an item, clear the check box next to the name of the desired device.
 - To remove an item from the list, select the trash icon  located to the right of the listed device.

 **NOTE:** This will completely delete the entry for the selected device. If you wish to re-add a deleted device follow the procedures in [Managing USB device access on page 2](#).

2. Restart the thin client for the changes to take effect.

Predefined whitelist items

The following table describes the USB devices and USB device categories that are predefined in the whitelist.

Item	Description
USB Hub	USB hubs with the class ID 0x09
USB Input Devices	USB input devices, such as mice and keyboards, with the class ID 0x03
USB Mass Storage Devices	USB mass storage devices with the class ID 0x08
HP USB Slim Keyboard – Skylab (Liteon)	A specific HP keyboard identified by its vendor ID, product ID, and class ID
HP Wireless Slim Keyboard – Skylab (Liteon)	A specific HP keyboard identified by its vendor ID, product ID, and class ID

Exporting the configuration for deployment

You can configure USB Port Manager once and deploy the same configuration to multiple thin clients.

▲ Select **Export**.


The configuration exports as a .txt file that can be used for deploying the configuration to other thin clients.

Use command line to import a configuration. For more information see [Command-line options on page 5](#).

3 Command-line options

See the following table for a list of command-line options for HPUSBPortMgr.exe which is located in the System32 folder.

After making changes using the command line, you must restart the thin client for changes to take effect.

 **TIP:** Options are not case sensitive.

Option	Description
<code>/USBF/{Enable Disable} {Whitelist Blacklist}</code>	Allows use of USB Filter with either whitelist or blacklist mode enabled. Only one mode can be enabled at a time; enabling one mode will automatically disable the other.
<code>/{Whitelist Blacklist}</code>	Selects which list will be affected.
<code>/{Whitelist Blacklist}/Add "VendorID=<VendorID>;ProductID=<ProductID>;ClassID=<ClassID>;Enable=0x01;Name=<Device Name>"</code>	Adds device to list. NOTE: Enable=0x01.
<code>/{Whitelist Blacklist}/[Delete Enable Disable]"VendorID=<VendorID>;ProductID=<ProductID>;ClassID=<ClassID>;Name=<Device Name>"</code>	Specifies action to perform: <ul style="list-style-type: none">• [Delete] Deletes a device from the list.• [Enable] Enables a device from the list.• [Disable] Disables a device from the list.
<code>/USBStor-ReadOnly</code>	Sets access to USB mass storage devices as read-only.
<code>/[Export Import] <file path></code>	Performs one of the following: <ul style="list-style-type: none">• [Export] Exports HP USB Port Manager configuration settings to a .txt file.• [Import] Imports HP USB Port Manager configuration settings from a .txt file.
<code>/Show</code>	Displays the current configuration information for HP USB Port Manager.
<code>/Help</code>	Displays command-line help.
<code>- or -</code>	
<code>/?</code>	

Examples:

To add a device to the whitelist: `HPUSBPortMgr.exe /Whitelist /Add "VendorID=0x03F0;ProductID=0x0324;ClassID=0x03;Enable=0x01;Name=HP Basic USB Keyboard"`

To disable a device from the blacklist: `HPUSBPortMgr.exe /Blacklist /Disable "VendorID=0x03F0;ProductID=0x0036;ClassID=0x00;Name=HP USB CCID Smartcard Keyboard"`

To use USB Filter with Whitelist Mode enabled: `HPUSBPortMgr.exe /USBF /Enable Whitelist`

4 Tips and best practices

Consider the following information when using HP USB Port Manager:

- In addition to viewing device information by selecting the **Devices** button, you can use the USBView app from Microsoft to determine USB device information (go to <https://msdn.microsoft.com/en-us/library/windows/hardware/ff560019%28v=vs.85%29.aspx?f=255&MSPPErr=-2147217396>).
- A USB 3.0 hard drive might have a different product ID when attached to a USB 2.0 port. Be sure to add the allowed USB device twice, using both product IDs.
- If you uninstall and then reinstall HP USB Port Manager, the read-only access to USB mass storage devices setting is not preserved.