

Software Release Notes

AnywhereUSB Manager for Linux

Version 1.3 (May 2026)

Manager version 3.1.39.4

INTRODUCTION

These are the release notes for AnywhereUSB Manager for Linux.

AnywhereUSB® Plus is a Remote USB 3.1 Hub that implements USB over IP® technology over Gigabit Ethernet networks. The Hub enables communication with USB-enabled devices from virtualized systems and from remote host computers. You can securely deploy AnywhereUSB® Plus Remote USB 3.1 Hubs in non-secure environments, making it ideal for point-of-sale, kiosks, surveillance, industrial automation, or any mission-critical enterprise application. This Gigabit Ethernet-attached solution provides 2, 8, or 24 USB 3.1 ports to connect a wide range of peripheral devices such as USB license dongles, scanners, printers, cameras, storage media, or other USB devices. The 8- and 24-port models provide support for 10 Gigabit Ethernet and include SFP+ interfaces.

To install, select the appropriate package and install using a package manager provided by your distro. There are DEB and RPM packages, different packages for 32-bit and 64-bit operating systems and headless only packages as well.

The AnywhereUSB Manager supports the AnywhereUSB Plus family of products:

- AnywhereUSB 2 Plus
- AnywhereUSB 8 Plus
- AnywhereUSB 24 Plus

The earlier AnywhereUSB products (AnywhereUSB/2, AnywhereUSB/5, AnywhereUSB/14, and AnywhereUSB TS44) are not supported by Linux. For more information, please refer to the AnywhereUSB product page.

SUPPORTED PRODUCTS

- AnywhereUSB Manager for Linux for 32-bit operating systems.
- AnywhereUSB Manager for Linux for 64-bit operating systems.
- AnywhereUSB Manager for Linux for 64-bit servers (no X11 or Wayland).

TESTED LINUX DISTRIBUTIONS

Distros using RPM or DEB package managers can install the awusbmanager package. The minimum kernel supported is 4.13.

Latest versions of distributions that have been tested:

- RHEL 8.10, 9.7
- Rocky 8.10, 9.7
- AlmaLinux 8.10, 9.7
- OpenSUSE 15.6
- Oracle Linux 8, 9
- Ubuntu/Kubuntu/Xubuntu 18.04 LTS, 20.04 LTS, 22.04 LTS, 24.04 LTS
- Debian 10, 11, 12

Package selection:

- For Ubuntu, Debian and distros with aptitude/apt/apt-get/dpkg package manager, select a deb package. For 64-bit hosts, choose an amd64 package. For 32-bit hosts, choose an i386 package.
- For RedHat, Rocky, AlmaLinux and distros with dnf/yum/zypper/rpm package manager, choose an rpm package. For 64-bit hosts, choose an x86_64 package. For 32-bit hosts, choose an i386 package.
- For 64-bit server systems without X11 or Wayland packages installed, choose a headless package.

KNOWN ISSUES

- Most Linux distributions limit the **total** number of virtual USB devices to a relatively small number. This number is most often **eight**. Such Linux systems are likely to be unable to use devices connected to all ports of an AnywhereUSB 24 Hub, for instance.
All known Ubuntu and RedHat variants and derivatives at the time of this release are known to have this limitation.
Debian 11 and newer are known to support significantly more virtual USB devices.
- RedHat and similar distros do not provide the vhci_hcd kernel module. Suitable binaries may be available in El Repo or other extra package repositories. See the procedure below for installing this module.
- Running awusbmanager in a VirtualBox VM. Using remote USB 3.X devices may require choosing the USB 3.0 (xHCI) Controller configuration option in the VirtualBox Settings -> USB menu.
- If you receive an “ERROR: Invalid access for action” message, this typically indicates that the Manager is already running and the current user does not have permission to control the running Manager. A running Manager can only be controlled by the user that started it or the root user.
- ARM processors are not currently supported.
- If installing a Debian-style package and one encounters a message such as the following, the package is installed properly, and the notice can be ignored:

```
Download is performed unsandboxed as root as file 'awusbmanager_1.0_amd64.deb'
couldn't be accessed by user '_apt'. - pkgAcquire::Run (13: Permission denied)
```

For more information: <https://askubuntu.com/questions/908800/what-does-this-apt-error-message-download-is-performed-unsandboxed-as-root>

INSTALLATION PROCEDURE

This is the procedure to install the awusbmanager package. If it has been previously installed, please use the Manager Update Procedure.

NOTE: For RPM and DEB packages 1.0 or newer, you can install over versions 1.0 or newer freely. For downgrading to packages older than 1.0, Digi recommends uninstalling the newer package first.

1. Install the selected Digi AnywhereUSB Manager package.

- On RedHat and similar distros (dnf/yum/zypper/rpm):

```
$ sudo dnf install ./SELECTED.RPM
```

Note the ./ which is required to install a file.

NOTE: If using the “zipper” tool, it may be necessary to explicitly allow unsigned RPM packages, as with:

```
$ sudo zypper install --allow-unsigned-rpm ./SELECTED.RPM
```

- On Debian, Ubuntu, Kubuntu and similar distros (aptitude/apt/apt-get/dpkg):

```
$ sudo apt install ./SELECTED.DEB
```

or on some distros you may need to use dpkg:

```
$ sudo dpkg -i SELECTED.DEB
```

Note the ./ which is required to install a file.

2. Reboot the PC to ensure that the user becomes a member of the new awusb group. On some distros, log out and log back in is not enough. Being a member of the awusb group allows that user to successfully use the Manager for configuration and monitoring.
3. Install vhci_hcd if necessary.

- Oracle provides a repository of packages for Oracle Linux distributions. See <https://yum.oracle.com/> to get started. You will likely need the kernel-uek-modules-extra package that matches your distribution to provide the necessary kernel modules for AnywhereUSB.
- Some distributions (e.g: RHEL/Rocky/AlmaLinux/CentOS) do not provide the vhci_hcd kernel module. They are available in the kmod-usbip package from the add-on El Repo (<http://elrepo.org>) repository.

To verify that they are not already available on your system:

```
$ modinfo vhci-hcd
```

```
modinfo: ERROR: Module vhci-hcd not found.
```

This means they must be installed manually. You can install the El Repo versions with:

```
$ sudo rpm --import https://www.elrepo.org/RPM-GPG-KEY-elrepo.org
$ sudo yum install https://www.elrepo.org/elrepo-release-
8.el8.elrepo.noarch.rpm
```

NOTE: the release chosen must match the release version of the OS, elrepo-release-8.el8 for RHEL 8, elrepo-release-9.el9 for RHEL 9, etc.
\$ sudo yum --enablerepo=elrepo install kmod-usbip

NOTE: For RPM distributions like Rocky/AlmaLinux, sometimes there isn't an exact matching kmod-usbip module. A workaround to try is to allow the closest one El Repo has available:
\$ sudo yum --enablerepo=elrepo install --nobest kmod-usbip

After installation, re-running the above modinfo command should confirm the presence of the vhci-hcd driver.

- See /usr/share/doc/awusbmanager/README after installation for more information about this topic.
4. Run the Manager with this command:
\$ awusbmanager
Note, the Manager is not normally run as root on Linux systems.
 5. Choose a client ID for this PC and enter it into the Manager when prompted.
 6. Look for the Hub in the Manager. If it does not appear, use the Configure->Known Hubs menu item to add the IP address of the Hub to the Manager.
 7. Add this client ID to the AnywhereUSB Hub client ID list. An easy way to do this is right click on the AnywhereUSB Hub in the AnywhereUSB Manager and select the Open Web UI menu item to bring up the Hub Web UI in your browser, log in, and then go to System->AnywhereUSB Configuration. In Client Settings, click the Add Client button, then enter your client ID and the desired group access, e.g. **1-8**, and Apply. Then, in the Manager, wait for the Manager to connect to the Hub, or select File->Refresh to have the Manager retry immediately.
 8. Insert a USB memory stick into port 1 of the Hub, see it appear in the Manager. Connect to the Group with **double-click** on the Group. Look for the inserted notification or find the USB device as /dev/sd*. Also note whether both the Group and the device are noted as "In use by you"; if the Group and/or device are not claimed, it may indicate that the current user is not in the "awusb" group and a reboot may fix it.
 9. See the [AnywhereUSB User Guide](https://www.digi.com/anywhereusbplus/start) (https://www.digi.com/anywhereusbplus/start) for details of operation.
 10. See documentation in /usr/share/doc/awusbmanager/ for next steps, advanced topics, troubleshooting information and notes for various distributions.

MANAGER UPDATE PROCEDURE

The following procedure must be used to update to this version of the Manager:

1. Updates from the previous release to this release are expected to work on most distros (except for installations using the rpm -i, see README.) If the update does not appear

- to be installed correctly, Digi recommends removing and then installing the awusbmanager.
2. If any version older than 1.0 of the AnywhereUSB Manager is currently installed on your PC, Digi recommends uninstalling any old awusbmanager package before installing this version.
 - a. On RedHat and similar distros:
\$ sudo dnf remove awusbmanager
 - b. On Debian, Ubuntu, Kubuntu and similar distros:
\$ sudo apt remove awusbmanager
 3. Now you can install the Digi AnywhereUSB Manager as described above.
 4. The awusbmanager and awusbmanager-headless packages can be installed over each other and will replace the previously installed package.

UPDATE BEST PRACTICES

Digi recommends the following best practices:

1. Test the new release in a controlled environment with your application before you update production devices.
2. Unless otherwise noted, apply updates in the following order:
 - a. Device firmware
 - b. Modem firmware
 - c. Configuration
 - d. Application

TECHNICAL SUPPORT

Get the help you need via our Technical Support team and online resources. Digi offers multiple support levels and professional services to meet your needs. All Digi customers have access to product documentation, firmware, drivers, knowledge base, and peer-to-peer support forums. Visit us at <https://www.digi.com/support> to find out more.

CHANGE LOG

VERSION 40003060_F (May 2026)

Package version	1.3
Manager version	3.1.39.4

Software Packages P/N's

40003060_F (tarball of all packages)	
MD5:	EC7CE92E84C12F0D8D780E48A4DFCE60
SHA256:	50B6FCAA8840E8597CFE00FF061A031B232A691EC9EA23056C10F6B43F619453

ENHANCEMENTS

- [AWG3-3437] Add “LIST JSON” command to the command-line interface. Generates the same output as “LIST FULL”, but in JSON form.
- [AWG3-3467] Always report the device speed in “LIST FULL” and “LIST JSON” output if known. With Hub firmware 26.x and newer, the speed is available when the device is first reported. With older firmware, the speed is available when bound to the Manager.
- [AWG3-3427] In conjunction with Hub firmware 26.x and newer, add “Power Cycle Group” item to the Group menu, and the following new “POWER CYCLE” command-line commands:
 - `POWER CYCLE GROUP,<group address>` e.g. `AW24-000001.10`
 - `POWER CYCLE PORT,<front panel port>` e.g. `AW24-000001.22`
- [AWG3-3445] Increase the default Manager log file size.
- [AWG3-3267] BULK device speed optimization.
- Support file collection improvements.

SECURITY FIXES

- [AWG3-3399] Update OpenSSL to 3.5.5 LTS series.
- [AWG3-3473] General security improvements, including:
 - Remove static libexpat and zlib from Manager in favor of OS shared library.
 - Remove expat, zlib, regex, png, tiff, and jpeg library dependencies from the headless Manager.

BUG FIXES

- None in this release.

VERSION 40003060_E (October 2025)

Package version 1.2
Manager version 3.1.38.1

Software Packages P/N's

40003060_E (tarball of all packages)

MD5: 926F6534A8DFD8C6F5B0B398FFE55144

SHA256: 6D4ABFB2681231A305D164A583C2FA7261119D3AD573F1B152A2BC1BFFAE8540

ENHANCEMENTS

- [AWG3-3349] Linux Manager fixes to unbind properly on exit.
- [AWG3-3387] Show .crt files in Manage Hub Credentials certificate selection.
- [AWG3-3389] Hub credentials columns are sortable.
- [AWG3-3398] Report speed for all devices when provided by Hub.
- [AWG3-2929] Add syslog to support_file.

SECURITY FIXES

- [AWG3-3399] Update OpenSSL to 3.0.17.

BUG FIXES

- [AWG3-3396] Fixes for issues related to restarting headless Manager.

VERSION 40003060_D (June 2025)

Package version 1.1
Manager version 3.1.37.3

Software Packages P/N's

40003060_D (tarball of all packages)

MD5: E6099FDDDD11E45D44683C76036732EC

SHA256: ED94C3B96EEEF38899AC5DF495692EF50A36F41FF93EB481C7DBD8E541DD912A

NEW FEATURES

- [AWG3-3350] Check Hub certificate expirations at startup of Manager or service. Pop up message box, or write to Manager log if no GUI, indicating certificates that are expired or will expire soon, and days remaining.
- Collect and display speed and USB path of devices bound to Host.
- [AWG3-3330] Add REFRESH HUBS command, which will attempt to refresh the Hub connections if not already in progress.
- [AWG3-3314] Manage Certificates from command line with new commands: CERTIFICATE LIST, CERTIFICATE REMOVE.
- Add SUPPORT FILE command.

ENHANCEMENTS

- [AWG3-3278] Improvements for Cameras, Mics, Webcams and other Isochronous USB devices. Better support for multiple webcams and higher resolutions. Digi recommends plugging cameras into every 4th port (1, 5, ...) on AW24 products and every other port (1, 3, 5, 7) on AW08 products to avoid USB bandwidth limits.
- [AWG3-3324] Improve reporting of various device types in Manager:
 - Add modem icon for Modem class USB devices.
 - Recognize Class 0xA as communications devices.
 - Change question mark to a USB icon to avoid concern for unknown devices.
- [AWG3-3350] Add certificate expiration dates to Manage Hub Credentials feature. Manage Hub Credentials window now displays and checks certificate NotAfter dates. If the expiration date is within CertExpirationWarningDays (default 90) from today, then the line in the window is shown in Yellow to identify a pending issue. If the Hub certificate is expired or unreadable, the line is shown in Red.
- Add "Expired Hub Cert" to list of displayed errors on failed connection attempts.
- [AWG3-3308] Add version and clientId to LIST command output.
- [AWG3-3329] Logfile wrap size can be set by a cmdline option at startup.
 - -S N or --logsize=N sets the logfile size to N in KiB. Default is 32 KiB.
- [AWG3-3373] If the Manager is not being run by the root user, advise the user at startup if they are not a member of the linux awusb group. This could indicate that the user needs to completely log out before trying to use AnywhereUSB, or that the PC needs a reboot.
- [AWG3-2929] Enhance the Manager support file to improve ability for Digi personnel to remotely diagnose installation issues.

SECURITY FIXES

- OpenSSL updated to version 3.0.16.

BUG FIXES

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- [AWG3-3278] Fix some composite USB devices such as some webcams.
- [AWG3-3278] Recommend customers try High Performance Isoch enabled in the Manager File->Preferences->Performance tab with this new Manager release. If an isochronous device is still not working, please contact Support, and deselect it as a workaround.
- [AWG3-3297] Change the Help->Online Manual link to [awusbmanager/start](https://www.digi.com/anywhereusbmanager/start). New landing page is <https://www.digi.com/anywhereusbmanager/start>.
- [AWG3-3223] Remove temporary files used to create support-file.
- [AWG3-3195] Fix Aixpi webcam

VERSION 40003060_C (July 12, 2024)

Package version	1.0
Manager version	3.1.33.3

Software Packages P/N's

40003060_C (tarball of all packages)

MD5: 2543791FAD7CCDA26F8065F505F55BD7

SHA256: 93876BA27A9BF7864BBE01F693370247ED24DB0B43E8DFB92EFBB12841E1F82D

NEW FEATURES

- [AWG3-3185] Reporting of temporarily blocked client IDs (in conjunction with Hub firmware 24.6.x.x) has been added. Prior revisions of the Manager are compatible with the new temporarily blocked client feature, but do not display the proper status if blocked.
- [AWG3-2567] Added a feature to the Help Menu: “Create Support File”

ENHANCEMENTS

- AnywhereUSB Plus 24 and 24W are now supported, with some known limitations. Depending on the kernel config of the Linux distro, the number of supported USB devices will be limited. Some distros such as Debian 12.5 provide 64 virtual USB devices, while many others provide only 8 virtual USB devices.
- Automatic discovery of AnywhereUSB® Plus Hubs (Autofind) is now available in this release of the Manager. Autofind is enabled by default, and will find any Hubs on the local network. Note that mDNS multicasts will likely not transit routers and through NAT'ed interfaces. Once you find the Hubs of interest, Digi recommends adding them to the Known Hubs list, and then disabling Autofind for network efficiency.
- The Autofind (mDNS discovery) feature enhanced to be case-insensitive for qualified names, and a new configuration option added to conditionally enable the collection of IPv6 addresses.
- Initial support for IPv6 addresses has been added. Requires a Hub with firmware 24.6.x.x (minimum) to allow an IPv6 connection.
- [AWG3-3175] To allow suppression of all popup messages, the “-q” switch can be supplied. Note that some warnings and errors will not be delivered if this switch is used.
- This release supports the X Windowing system and Wayland.
- A “SET KEEPALIVES” command has been added to the command line options of the

Manager, allowing that configuration parameter to be changed without invoking the GUI.

- Detection of HID-style smartcards, in conjunction with a blue smartcard icon instead of a question mark has been added. CCID mode continues to be indicated with a black smartcard icon.
- A headless (non-GUI) binary of the AnywhereUSB Plus Manager for Linux is available. The headless version is installed as /usr/bin/awusbmanager-headless. It is available in the standard packages and also in separate 64-bit DEB and RPM packages. It does not have dependencies on any windowing system, perfect for servers. Configuration and monitoring are done via the same command line parameters as the standard Windows and Linux Managers.
- To improve clarity, added the Client ID to the title bar of the Manager.
- Improved logging.
- [AWG3-2959] Improved performance and robustness under high load.
- To improve consistency and reliability of the port power cycling feature, the Manager now sends a power cycle command to the AnywhereUSB Hub instead of controlling the state directly with power off and on commands.

NOTE: The Manager “off-time” configuration is no longer used if a 3.1.33.1 or newer Manager is used with a Hub running firmware 22.11.x.x or newer.

- [AWG3-2730] Enforce minimums for certain configuration items. Ensure that minimums are enforced for config items in File->Preferences Advanced tab. This limits cpu/memory runaway of the Manager if timeouts are too short. Config items are set to minimum if value is lower than minimum.
- Increase Manager keep alive timeout for connection robustness
- Log improvements.
- Compression and Encryption speed improvements
- [AWG3-2560] Added a checkbox to decrease Hub discovery time: “Use All Hub Addresses”. The AnywhereUSB Plus Hubs provide multiple default IPV4 addresses in addition to the primary IP addresses. These extra IPV4 addresses are used for configuration and other purposes and may not allow the Manager to connect to the Hub. The discovery process will report all of the IPV4 addresses to the manager. By default, this checkbox is unchecked, thus ignoring the extra addresses. If checked, the Manager will attempt to connect using all Hub addresses provided which will slow the connection to Hubs due to round-robin cycling through all the extra IP addresses.
- [AWG3-2492] Use address for Local Name if USB device does not have a USB serial number. If a device does not contain a USB serial number, and you assign a Local Name, It will use the USB address of the device to distinguish identical devices.
- [AWG3-2325] Added feature to Hub Right Click Menu “Add to Known Hubs”
- [AWG3-2428, AWG3-2298, AWG3-2239]
 - Add power cycle action to device menu and CLI command: POWER CYCLE,address
- [AWG3-2382, AWG3-2541] Add SET CLIENTID command to CLI

SECURITY FIXES

- [AWG3-3003] Update the Manager to use OpenSSL 3.0.12.
- [AWG3-3150] Add a new configuration mechanism to specify the minimum TLS version for AnywhereUSB connections. The default is now TLS 1.3, but TLS 1.2 may be selected. This feature is intended to be used in conjunction with similar configuration in the

AnywhereUSB Hub.

- AWG3-2608: TLS Cipher cleanup 2024
 - Remove insecure ciphers from AnywhereUSB connections

BUG FIXES

- Minor memory leaks removed.
- [AWG3-2988] Improve reliability when using some USB API libraries.
- [AWG3-3159] Remove unsupported *password* option from the “CONNECT DEVICE” command in the Manager.
- [AWG3-2745, AWG3-2793] Fix network connection and disconnect issues in the Manager. Restructured the secure network communication layer to improve connection robustness. Environments with unexplained network disconnect messages in the Manager logs may benefit from this fix.

VERSION 40003060_B (August 31, 2021)

Package version 0.6

Manager version 3.1.20.1

ENHANCEMENTS

- Add RPM distribution package.

VERSION 40003060_A (January 12, 2021)

Package version 0.2

Manager version 3.1.20.1

This is the initial release of AnywhereUSB Manager for Linux by Digi International.