

LinkStation Firmware Updater Version 1.84

Name LinkStation Series Firmware Updater
Version 1.84
File ls400-184.zip
Size 202,687,049 Bytes
Date February 1, 2018
Platform Windows PC
OS Windows XP, Windows Vista (64-bit or 32-bit), Windows 7 (64-bit or 32-bit), Windows 8 (64-bit or 32-bit), Windows 8.1 (64-bit or 32-bit), Windows Server 2008 / Server 2012
Models LS410D, LS420D, LS421DE, LS441D, LS441DE Series
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Distribution ZIP archive by WinRAR
Condition Re-distribution is not allowed.
Manuals Quick Setup Guide, Reference Guide

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[Software Description]

This software updates the LinkStation firmware to version 1.84. If your firmware is already version 1.84 or later, you do not need this update. Note: If your LinkStation is in EM mode, this firmware update might recover it.

[How to Check Your Firmware Version]

Select your LinkStation from the NAS Navigator2 window. The firmware version is displayed in the bottom right corner of the screen. If the name is in the form LS-***-EM***, the LinkStation is in EM (emergency) mode.

[Notes]

- Please consult technical support or your local representative if the firmware update causes unexpected problems.
- Do not turn the unit off until the update is finished. The update takes several minutes.
- Newer LinkStation firmwares may cause the following message to appear in NAS Navigator2:
"I52:Unknown error occurred"
If this message appears, update NAS Navigator2 to the latest version.

[How to Update the Firmware]

1. Connect the LinkStation properly and configure the LinkStation and a computer to run the updater on the same network subnet. The subnet masks should be the same and the first three numbers of the IP addresses should be the same. The last number of the IP addresses should be different.

For example, if the IP address and subnet mask of the computer are

" 192.168.0.10 , 255.255.255.0 "

and the IP address and subnet mask of the LinkStation are

" 192.168.1.150 , 255.255.255.0 "

then the updater will not work properly.

In this case, reconfigure the LinkStation's IP address and subnet mask to

" 192.168.0.150 , 255.255.255.0 ".

Then they will be on the same subnet and the updater will work properly.

2. Close all applications. Also, stop or exit any firewall software.
3. Extract the downloaded file and run "LSUpdater.exe". When a LinkStation is detected, an update window will open.
4. Select the LinkStation to update if multiple LinkStation are connected.
5. Click "Update" and enter the LinkStation's admin password.
6. Click "OK".
7. Transferring and updating the firmware will start. Wait until it finishes. The info LED will blink during the update.
8. When the update is complete, a message will be displayed.

[Version History]

Version 1.84

Bug Fixes

[SMB]

- Modified to deal with a Samba programming vulnerability (CVE-2017-15275).

Version 1.83

[SMB]

- Modified to deal with a Samba programming vulnerability (CVE-2017-7494).

Version 1.81

Added and Modified Features

- Improved recognition accuracy when connecting USB drives.

Bug Fixes

- Modified to deal with Samba programming vulnerabilities (CVE-2014-0178 and CVE-2015-0240)
- Fixed a bug where a backup job could not be added if the backup target folder contains full-width spaces in its name.
- Fixed a bug where a shared folder, user, or group could not be created if its name contains specific symbols.
- Fixed a bug where an invalid default gateway is configured when changing the IP address on NAS Navigator2.

Version 1.80

Added and Modified Features

- Settings is now supported for mobile devices.
- Modified so that the RAID array is rebuilt after a complete drive format.

Bug Fixes

- Fixed a bug where the email notification did not work properly during RAID scanning.
- Fixed a bug where NAS did not respond during a disk check if the unit contained too many files.
- Fixed a bug where changing recycle bin settings took a long time.
- Fixed a bug where some help text on Settings were not displayed correctly.
- Fixed a bug where the DLNA sever did not start on LS421DE and LS441DE models.

Version 1.34

Bug Fixes

- Modified to deal with the OpenSSL programming vulnerabilities (CVE-2014-3567 and CVE-2014-0224) that are also known as the POODLE (SSL 3.0) vulnerability.
- Modified to deal with the OpenSSL programming vulnerability (CVE-2014-0224) that is also known as the "CCS Injection" vulnerability.
- Modified to deal with the Samba security vulnerabilities which the service was blocked by a CPU loop and CPU resource consumption, and a denial of service may be effected because the CPU utilization will go up to 100% (CVE-2014-0244 and CVE-2014-3493).

Version 1.33

Bug Fixes

- Improved Samba stability.

Version 1.32

Bug Fixes

- Modified to deal with vulnerabilities of Bash programming which allows remote attackers to execute arbitrary commands (CVE-2014-6271 and CVE-2014-7169).

Version 1.31

Added and Modified Features

- The iTunes server now supports shared folders up to five levels deep.
- Added SSL certification installation.

Bug Fixes

- Fixed user management problems.
- NAS Navigator2 can now detect this LinkStation.
- Fixed the problem with logging into Settings after some operations.
- Fixed the problem where collapsed files were saved in the trash when files shared with SMB were removed by Mac OS 10.6.8.
- Fixed the problem of files intermittently changing their permissions to read-only.
- Fixed problems with backing up a large number of files.
- Fixed the problem with quotas where only 2047 GB was assigned when more than 3 TB of drive space was available.
- Fixed the problem where the LinkStation would go into sleep mode after a complete backup when sleep mode was not configured.
- Fixed the sleep timer priority.
- Fixed a shared folder vulnerability.
- Fixed the problem where external drives with two or more internal drives were not detected.
- Fixed the email notification header to include the date.
- Fixed the access errors with HFS+ formatted external drives after a disk check.
- DLNA clients can now find files on the LinkStation.

Version 1.30 [2013.11.5]

Added and Modified Features:

- Sleep timer is now supported.
- Direct Copy is now supported.
- Isochronous transfer-compatible devices are now supported by the USB device server. (The USB 3.0 port on LS421DE models doesn't support it.)
- APC SMT series UPSs now work without the Legacy Communications SmartSlot Card. The following models are supported: SMT500J, SMT750J, SMT1000J, SMT1500J, SMT2200J, SMT3000J, SMT1500RMJ2U
- The option to clear firmware update notifications is now available.

Bug Fixes

- Fixed the bug where files larger than 4 GB were not displayed via FTP connections.
- Fixed the bug where multi-byte characters were not supported on FTP clients with UTF-8 character encoding.
- Fixed the bug where files could not be shared from USB drives via DLNA.
- Fixed the bug where the initial setup wizard in LinkNavigator was not available after initializing the NAS from Settings.
- Fixed the bug where BuffaloNAS.com keys of incorrect length were generated for WebAccess.
- Fixed the bug where NAS Navigator couldn't change the LinkStation's IP address.
- Fixed the bug where RAID scanning didn't work on the first day of each month.
- Fixed the bug where unaccessible folders were created after a "complete" format.

Version 1.10 [2013.6.19]

Added and Modified Features:

- UPS synchronization is now supported.
- LS420D and LS421DE drive LEDs are now supported. They flash when a drive fails.
- The DLNA server now supports DSD files.
- Changed the default settings for the DLNA server and print server.
- Only LinkStations and TeraStations can be external authentication servers.
- Improved the WebAccess settings in Easy Admin.

Bug Fixes

- Fixed the security vulnerability issue in Settings.
- Fixed the bug where the LinkStation couldn't link to an external authentication server with SMB2 enabled.
- Usernames can now have up to 128 characters instead of 20.
- Fixed the bug where the admin user is added to the "hdusers" group when it's edited.
- Fixed the bug where users belonging to the "power user" group have administrator authority.
- Fixed the bug where users are no longer listed in the user list when their group ID is changed.
- Fixed the bug where WebAccess settings were corrupted when the BuffaloNAS.com key was changed in Advanced Settings.
- Fixed the bug where new users created through "Easy NAS Setup" in SmartPhone Navigator were not actually created.
- Fixed the error when users who don't belong to the "hdusers" or "admin" groups log in to WebAccess.
- Fixed the "Please wait..." bug in Easy Admin when shared folders were not public.
- Improved the icon that is displayed when connecting from DLNA clients.
- Fixed the bug where the BitTorrent port number couldn't be changed.
- Fixed the complete format bug on LS420D and LS421DE devices with a single drive.

Version 1.01 [2013.6]

- The power LED now gives better notification of errors and messages.
- Fixed the bug where no shared folder was available after initial setup of a LS421DE with a single hard drive.

- Fixed the bug where AFP could not be enabled or disabled if Time Machine was enabled.

Version 1.00 [2012.5]

- First release.