

QTS4.2.0

[Changes & Enhancements]

Web Server

Change

- Upgraded PHP to version 5.5.25 in Web Server (before upgrading to QTS 4.2.0, please make sure your applications are compatible with the new version of PHP.)
- Upgraded from MySQL to MariaDB version 5.5.40 (before upgrading to QTS 4.2.0, please make sure your applications are compatible with the new version of MariaDB.)
- The WebDAV's default setting has been changed to "enabled" (in "Control Panel" > "Applications" > "Web Server".)
- Changed from apache2handler to fpm-fcgi for PHP in Web Server.

Backup Station

Change

- Symform is now supported through the Symform app instead of being an option in Backup Station (the app can be installed from the "App Center".)
- Elephant Drive is now supported through the Elephant Drive app instead of being an option in Backup Station (the app can be installed from the "App Center".)

Enhancement

- Added support for Incoming List in Backup Station ("Backup Station" > "RTRR Server" > "Incoming List".)
- Increased the number of supported folder pairs to 16 per RTRR backup task in Backup Station.
- Added Folder Versioning support for RTRR in Backup Station (create a replication job in "Backup Station" and tick the "Configure policies, filters and Version Control" option in the wizard; The "Backup Versioning" app must be installed before using this feature.)
- Added Snapshot support for RTRR/Rsync in Backup Station (the system will first take a volume snapshot before running backup tasks.)
- Added remote replication support for the CIFS protocol in Backup Station (in "Backup Station" > "Remote Replication" > "RTRR" > "Create a Replication Job" > "Windows Share (CIFS/SMB)" in "Server type".)
- Added RTRR support for Time Machine backup in Backup Station (in "Backup Station" > "Remote Replication" > "RTRR" > "Create a Replication Job" > "Select Folder Pair".)

DDNS

Enhancement

- Added support for the DDNS service provider Oray.com (in "Control Panel" >

"System Settings" > "Network" > "DDNS Service".)

Download Station

Change

- Download Station is now available for all NAS users (enable Download Station's application privilege for users first.)

Enhancement

- Download Station has been redesigned and the BT library has been updated to reduce system resource usage and to increase BT download speed.
- Added support for FlashGet, QQDL and Xunlei (Thunder) download protocols in Download Station.
- Added Bttiantang as a download search site in Download Station.
- Added support for Baidu Cloud download in Download Station (paste a post URL from the Baidu Cloud in the "Create Task" dialog window.)
- Added support for assigning a different folder to each download task in Download Station (create a download task and then assign a folder to that task.)

File Station

Enhancement

- Added the "Share to NAS user" option in File Station (right click on a file in "File Station" > "Share" > "To NAS user".)
- Added the "Share with me" item in the left panel in File Station for a list of links shared with the logged-in user.
- Added the "Share space with a user" option in File Station (the "+" button > "Share space with a user".)
- Added support for sharing links using CloudLink in File Station.
- Added support for opening and editing office documents in File Station (the "Office Editing for Docs, Sheets & Slides" Extension must be installed in Google Chrome to use this feature.)
- Added support for opening documents with Google docs and Office Online in File Station (users must have a myQNAPcloud account and have "CloudLink" enabled before using this feature.)
- Added support for remote connections to connect to remote/cloud storage and added the "connection record" and "Current connection status" options in File Station (to establish a remote connection, click the "Remote connection" icon > "Create remote connection"; The "Cloud Drive" app needs to be installed first; Supported cloud storage services: Box, Dropbox, Google Drive, Microsoft OneDrive, Yandex Desk and Amazon Cloud Drive; Supported protocol: Microsoft Networking (SMB/CIFS), FTP and WebDAV.)
- Added the ability to set an image as QTS wallpaper from the Media Viewer in File Station (in "File Station" > "Media Viewer" > "More Action" icon > "Set as QTS Wallpaper".)
- Allows users to have early access* to the new multi-zone controls in File Station (in "File Station" > right click a file > "Streaming to"; The "Multimedia Extension Pack" app must be installed before using multi-zone controls; *This feature is still under development.)
- Added the volume level on the tree menu on the left panel in File Station.
- Added the media and auto transcoding options in shared folder properties in File Station (right click on a shared folder in "File Station" > "Properties".)
- Added support for pausing or postponing background transcoding tasks (the

- "background task" icon on the QTS Desktop.)
- Increased the number of supported share links to 2048.

FTP

Enhancement

- Added support for the latest version of ProFTP (v.1.3.5).

Music Station

Enhancement

- Added support for DSD Audio Passthrough in Music Station (switch from "Streaming Mode" to "Audio Passthrough" on the player panel; for USB DAC only.)
- Added support for uploading images or searching the Internet for specific artist and album covers in Music Station (click "Artist" or "Album" on the left panel in "Music Station" > right click on the artist or album > "Change cover".)
- Allows users to have early access* to the new multi-zone controls in Music Station, Photo Station, Video Station, and File Station (the "Multimedia Extension Pack" app must be installed before using multi-zone controls; *This feature is still under development.)

myQNAPcloud

Change

- The "Auto router configuration", "DDNS", "Publish service" and "CloudLink" options are now open for user selection in myQNAPcloud Wizard in myQNAPcloud.
- Added support for QID access control in myQNAPcloud (in "myQNAPcloud" > "Access Control" > select "Customized" in "Device access controls" and add QID account holders.)

Enhancement

- Added SSL certificate support on the myQNAPcloud website and the myQNAPcloud app in QTS.

Network

Change

- The default gateway is now not required for settings in Network (in "Control Panel" > "System Settings" > "Network" > "Network Parameters".)

Enhancement

- Added support for only resetting the NIC instead of all related network services when changing the IP address (in "Control Panel" > "System Settings" > "Network".)

Network Recycle Bin

Enhancement

- Added support for a unified Network Recycle Bin (where every deleted file is listed according to their respective folders.)
- Added Frameless mode (toolbar option ":" > "Desktop Preferences" > "Frameless Mode (For Browser)".)
- Added support for files deleted via FTP to be moved to a Network Recycle Bin.

Notification

Enhancement

- Added support for Push Notifications in the Control Panel (in "Control Panel" > "System Settings" > "Notification" > "Push Service"; Use Qmanager to receive the notifications.)

Photo Station

Enhancement

- Added the "Folder" category (and the corresponding folder view) on the left panel in Manage mode in Photo Station 5.
- Added Quick Start in Photo Station 5 (":" > "Quick Start".)
- Added support for directly converting subfolders into smart albums in Photo Station 5 (switch to "Folder" on left panel in "Manage mode" > right click a folder > "Convert subfolder to Smart Album".)
- Added the ability to search for specific camera brands in Photo Station 5 (click the "Search" icon in "Photo Station".)
- Added support for Face Detection in Photo Station 5 (To tag a face, switch to "Manage mode" > click a photo to open it in "Media Viewer" > click the "Face Detection" icon > directly tag a face if it is recognized, or drag to highlight the face and tag it; The "Photo Station Extension" pack must be installed before using this feature.)
- Added support for sharing links using a personal email account in Photo Station 5 (a personal email must be set up in "Admin" > "Options" > "E-mail Account"; To create a sharing link, first select photos in "Manage mode" > "Sharing" icon > "Sharing Link".)
- Added period support for the smart album in Photo Station 5 (click "Smart Album" in "Manage mode" > select "Period" and specify the start and end date of the period.)
- Added support for managing (pause and cancel) background photo upload tasks in Photo Station.
- Added support for uploading photos to Picasa, Flickr and Weibo in Photo Station 5 (right click a photo > "Share" > "Social Network".)
- Added support for Sharing Cart in Photo Station 5 (right click a photo > "Share" > "Email".)
- Added support for Gallery mode (with three hot keys: Display, Music and Browsing mode) in Photo Station 5.
- Added support for converting an album to a pdf file in Photo Station 5 (right click on a PDF file > select "add to album"; the "Photo Station Extension" pack must be installed before using this feature.)
- Allows users to have early access* to the new multi-zone controls in Photo Station (the "Multimedia Extension Pack" app must be installed before using multi-zone controls; *This feature is still under development.)

Qsync

Enhancement

- Added support for centralized management in Qsync Central Station 2.0 (1. set user privileges in "Control Panel" > "Privilege Settings" > "Users"; 2. set devices in "Qsync Central Station 2.0" > "Devices"; 3. set management settings in "Qsync Central Station 2.0" > "Management settings".)

- Added shared folder synchronization management support in Qsync Central Station 2.0 (to use this feature: 1. grant folder permissions for users, and 2. go to Qsync Central Station 2.0 > "Shared Folders" > grant permissions for the folder to be synced.)
- * To ensure continued synchronization following an upgrade to QTS 4.2, the Qsync Client on your local PC also requires an upgrade. The latest version for Windows is 2.0, for Mac, 1.2.
(Please get the utilities from the link below:
<http://download.qnap.com/Storage/Utility/QNAPQsyncClientMac-1.2.0.0618.dmg>
<http://download.qnap.com/Storage/Utility/QNAPQsyncClientWindows-2.0.0.0617.exe>)
- * Following the upgrade Qsync will perform a scan of the Qsync Client folder. The time required for the scan depends on the size of the Qsync Client folder.

QTS App

Enhancement

- Added support for the OAuth2 protocol in Gmail Backup.
- Added support for the Gmail Backup app.
- Added support for the QNAP Diagnostic Tool app (NAS diagnostic tool.)
- Added support for the QNAP vSphere WebClient plug-in.

QTS General

Enhancement

- Added the option to hide Internet links (myQNAPcloud, QNAP Utility and Feedback) on the QTS login page (in "Control Panel" > "System Settings" > "Login Screen".)
- Redesigned user interface for the QTS Desktop and login screens.
- Added 2-step Verification.
- Added support for emailing share links using personal email accounts in Music Station, Photo Station, Video Station and File Station (users must first create a personal email account in QTS Desktop > "admin" > "options" > E-mail Account".)
- Added support for Kernel 3.12.6 for x70, x79 and x80 NAS series models.
- Added USB JBOD and SAS JBOD support for the TVS-x71 series.
- Added the "Feedback" link in QTS Desktop (":" > "Feedback".)

Shared Folders

Enhancement

- Added folder encryption support in QTS (set encryption for a shared folder in "File Station" > create a shared folder > enable "Folder Encryption"; Manage encryption settings in "Control Panel" > "Privilege Settings" > "Shared Folders".)

Storage Manager

Enhancement

- Added RAID expansion support for sizes over 16TB.
- Added support for SSD cache mode selection in Storage Manager (in "Storage

- Manager" > "STORAGE" > "Cache Acceleration" > "Create".)
- Added support for the VSS Snapshot Agent.
- Added Snapshot support in Storage Manager (in "Storage Manager" > "STORAGE" > "Storage Space" > "Snapshot".)
- Added support for an IOPS test in Storage Manager (in "Storage Manager" > "STORAGE" > "Disks" > the "List View" icon > "Performance test".)
- Added support for R/O and R/W caches in Storage Manager.
- Added support for expansion roaming.
- Added support for the QNAP SMI-S Provider.
- Added support for SSD TRIM schedule in Storage Manager (click the "Global Settings" icon on top right corner in "Storage Manager" > "SSD Trim" > "Edit".)
- Added support for clustering access option to iSCSI targets in Storage Manager (in "Storage Manager" > "iSCSI" > "iSCSI Storage" > "Create" > the "Enable clustering access to the iSCSI target from multiple initiators" option in "Quick configuration Wizard".)
- Added support for the QNAP SnapAgent in Storage Manager (in "Storage Manager" > "iSCSI" > "iSCSI Storage" > "Snapshot" > "SnapAgent".)
- Added schedule support for the HDD test in Storage Manager (in "Storage Manager" > "STORAGE" > "Disks" > the "List View" icon > "Weekly Test".)
- Added the inode size support in Storage Manager (in "Storage Manager" > "STORAGE" > "Storage Space" > "Create" > "New Volume" > "File system option" in "Detailed Settings".)
- Added the application consistent option in Schedule Snapshot in Snapshot Manager (in "Storage Manager" > "STORAGE" > "Storage Space" > the down arrow key in front of a storage pool > click a volume or LUN > "Snapshot" > "Snapshot Manager" > "Schedule".)
- Added support for manually ordering enclosure IDs in Storage Manager (in "Storage Manager" > "STORAGE" > "Disks" > the "tree view" icon > select an enclosure > "Action" > "Rename Enclosure".)
- Added support for Smart Snapshots in Storage Manager (in "Storage Manager" > "STORAGE" > "Storage Space" > the down arrow key in front of a storage pool > click a volume or LUN > "Snapshot" > "Snapshot Manager" > "Schedule" > "Enable smart snapshot".)
- Added preview support for the Snapshot Vault in Storage Manager (in "Storage Manager" > "STORAGE" > "Snapshot Vault".)
- Added volume size support for single volumes over 16TB in size for TS-x31 series models.

System Status

Enhancement

- Added system hardware details such as CPU and RAM in System Information (in "Control Panel" > "System Settings" > "System Status" > "System information"; This feature is for HAL-based NAS models only.)
- Added support for detecting physical cable connections in a trunking group (in "Control Panel" > "System Settings" > "System Status" > "Network Status".)

Time

Enhancement

- "Added the following time zones (in "Control Panel" > "System Settings" > "Time"):
- UTC-09:30 Marquesa Island

- UTC+08:45 Eucla
- UTC+10:30 Lord Howe Island
- UTC+11:30 Norfolk Island
- UTC+12:45 Chatham Island
- UTC+13:00 Phoenix Island
- UTC+13:00 Tokelau
- UTC+13:00 Samoa
- UTC+14:00 Line Island"

Video Station

Enhancement

- Added support for more subtitle encoding formats in Video Station.
- Added support for searching IMDB for movie information in Video Station (click the "Movies" category on the left panel in "Video Station" > right click a title > "Movie Information" > click the "Edit" icon on top right corner.)
- Added support for changing movie posters by either uploading an image or adding a link to an image in Video Station (click the "Movies" category on the left panel in "Video Station" > right click on a movie title > "Movie Information" > click the "Edit" button on the movie thumbnail.)
- Added support for changing subtitle styles, including font, size, color and background effects in Video Station (play a video in "Video Station" > click "cc" on the player panel > "Adjust subtitles"; This option is only available when subtitles are available for a video file.)
- Added keyboard support for video playback control (fast forward, rewind, volume adjustment, pause and play) in Video Station.
- Added support for importing subtitles during video playback in Video Station (play a video in "Video Station" > click "cc" icon > "Import subtitles".)
- Added support for searching OpenSubtitles and Shooter for subtitles in Video Station (play a video in "Video Station" > click "cc" icon > "Search for subtitles".)
- Added support for *.ass and *.ssa subtitle formats in Video Station.
- Added the option to log in with a Facebook account (account binding) in Video Station ("Settings" icon > "Social Network Binding".)
- Allows users to have early access* to the new multi-zone controls in Video Station (right click on a video in "Video Station" > "Streaming to" > "DLNA & Airplay"; The "Multimedia Extension Pack" app must be installed before using multi-zone controls; *This feature is still under development.)
- Added support for adding personalized video categories in Video Station ("Settings" icon > "Video Classification" > "Manage Custom Classification".)

VPN Server

Enhancement

- Added support for L2TP/IPsec in VPN Server (the "L2TP/IPsec VPN Service" app must be installed before using this feature.)

Virtualization Station 2.0

Enhancement

- Added support for Virtual Switches and replaced the VM dedicated network.
- Supports Virtual Switches sharing the network interfaces of the NAS.
- Supports a port-trunking interface for Virtual Switches, with Active Backup, IEEE

- 802.3ad, and Balance-tlb.
- Supports internal data transfer between VM and NAS through Virtual Switches.
- Added Device Management (every device on a VM can be centrally managed including changing controllers, adding/removing device, etc.)
- Added support for VM backup and restore.
- Supports backing up active VMs.
- Supports scheduled backup and restore for VMs.
- Improved the import speed for VMs by up to 30%.

Container Station


- Supports LXC and Docker.
- Built-in Linux distributions and popular applications.
- Supports CPU/Memory management.
- Download applications from the built-in Docker Hub Registry.
- Supports one-click installation.
- Supports container export/import.
- Supports console mode.
- Supports mounting NAS shared folders and data-only containers.
- Supports auto port forwarding.
- Supports auto-start containers.
- Supports downloading Docker certificates.

[Bug fixes]

- The iSCSI service crashes during high IO load.
- The system fails to log the removal of hard drives during boot-up.
- The Turbo NAS as a domain member (DC: Windows Server 2008) fails to authenticate domain member PCs that are trying to access it using Samba or via the Web UI.
- The system increases the system reserved size when creating hard links.
- The supported domain name becomes too short when it contains more than 32 characters.
- The system fails to detect progress while performing a file system check (remains at 0% until it is complete.)
- The file sizes detected are different between a shared folder mounted using the NAS IP address and a shared folder mounted using the NAS domain name.
- The system fails to adjust its internal clock for daylight saving time.
- The LDAP user permissions are automatically revoked after LDAP server connection settings are changed on the NAS (as a LDAP member.)
- Users are unable to create a media folder when there is less than 5% free space.
- The system fails to generate thumbnails for .dng files in Photo Station and both .dng and .nef files in File Station.
- The power indicator keeps flashing green after the system wakes up from S3 sleep mode.
- The system fails to remove symbolic links for team folders after users leave them in "Qsync Central Station" > "Team Folder".
- The system fails to apply user permissions for "@Recycle".
- Surveillance Station 5.0.2 fails to attach alarm screenshots to emails sent after alarm events are triggered.
- RTRR jobs disappear after qsync.conf and ghost.conf are modified.

- Shared folder permissions on the NAS are automatically changed after user permissions are changed in Windows ACL.
- The system incorrectly removes an UPS device when a Logitech wireless mouse is plugged or unplugged.

Note:

1. If you come across an issue that you feel needs addressing, please send your report directly to us using the "Feedback" function in QTS. (Please log into your NAS, and go to "More"  > "Feedback" in the upper-right corner of the QTS Desktop).
2. The Beta Test Program is confidential. Do not install the Beta Edition on any systems you do not directly control or that you share with others. Do not blog, post screen shots online, tweet, or publicly post information about the edition.
3. QNAP is not responsible for copyright or other legal issues that may arise while the Program lasts.
4. QNAP is not responsible for loss or damage of the data pertaining to participation of the Program. You are advised to backup critical data in advance.
5. QNAP is not responsible for damage to your product during the Beta Program.
6. If the participants are using Firmware version 3.8 or earlier, please upgrade the firmware to version 3.8 first.
7. Please note that since the Beta edition has not yet been commercially released by QNAP, it may contain errors or inaccuracies and may result in data loss or cause issues of system reliability. If such problems arise, you may need to reinitialize your system to resume normal operation.