These release notes provide information on the My Cloud Mirror Gen2 storage device.

Information on the firmware is provided below:

Firmware Release:
- **Firmware Version 2.31.174**
- **Firmware Version 2.31.163**
- **Firmware Version 2.31.149**
- **Firmware Version 2.30.196**
- **Firmware version 2.30.193**
- **Firmware version 2.30.181**
- **Firmware version 2.30.172**
- **Firmware version 2.30.165**
- **Firmware version 2.21.126**
- **Firmware version 2.21.119**
- **Firmware version 2.21.111**
- **Firmware version 2.11.140**
- **Firmware Version 2.11.133**
- **Firmware Version 2.10.310**
- **Firmware Version 2.10.301 – Initial Release**
- **Firmware Installation Procedure**
Important:
Before updating to the latest firmware, it is recommended that you’ve installed the most recent updates and service pack on your computer.
  • For Windows®, go to the Start menu and select Windows Update
  • For Mac®, go to the Apple® menu and select Software Update

Firmware Version 2.31.174 (03/26/2019)

Resolved Issues:

Security Fixes
  • Resolved Authentication bypass vulnerability (CVE-2019-9950).
  • Resolved Unauthenticated file upload vulnerability (CVE-2019-9951).

Other Bug Fixes
  • Resolved remote backup issue when selecting multiple folders.
  • Resolved empty zip file issue in Webfile Viewer.

Firmware Version 2.31.163 (01/08/2019)

Resolved Issues:

Security Fixes
  • Added brute force attack mitigation.
  • Removed non-production testing information.

Components Updated
  • Rsync – v3.0.7

Other Bug Fixes
  • Added warnings when enabling remote dashboard.

Firmware Version 2.31.149 (10/18/2018)

Resolved Issues:

Security Fixes
  • Resolved multiple command injection vulnerabilities including CVE-2016-10108 and CVE 2016-10107.
• Resolved multiple cross site request forgery (CSRF) vulnerabilities.
• Resolved a Linux kernel Dirty Cow vulnerability (CVE-2016-5195).
• Resolved multiple denial-of-service vulnerabilities.
• Improved security by disabling SSH shadow information.
• Resolved a buffer overflow issue that could lead to unauthenticated access.
• Resolved a click-jacking vulnerability in the web interface.
• Resolved multiple security issues in the Webfile viewer on-device app.
• Improved the security of volume mount options.
• Resolved multiple security issues in the EULA onboarding flow.
• Resolved leakage of debug messages in the web interface.
• Improved credential handling for the remote MyCloud-to-MyCloud backup feature.
• Improved credential handling for upload-logs-to-support option.

Components Updated
• Apache - v2.4.34
• PHP - v5.4.45
• OpenSSH - v7.5p1
• OpenSSL - v1.0.1u
• libupnp - v1.6.25 (CVE-2012-5958)
• jQuery - v3.3.1 (CVE-2010-5312)

Other Bug Fixes
• Resolved high CPU utilization with ufraw-batch process.
• Improved remote host port handling.

Firmware Version 2.30.196 (09/21/2018)

Resolved Issues:
• Resolved authentication bypass vulnerability (CVE-2018-17153).

Firmware Version 2.30.193 (05/08/2018)

Resolved Issues:
• Updates to enable compliance with EU privacy regulations.

Firmware Version 2.30.181 (01/12/2018)
**Resolved Issues:**

- Resolved security vulnerability (CVE-2017-17560) - Unauthorized access to multipart upload functionality.

**Firmware Version 2.30.172 (11/16/2017)**

**Resolved Issues:**

- Resolved SMB server (samba) security vulnerability (CVE-2017-7494) - Malicious clients can upload and cause the SMB server to execute a shared library from a writable share.
- Resolved critical security vulnerabilities that potentially allowed unauthorized file deletion, unauthorized command execution and authentication bypass.
- Improved Cloud Access connectivity from the device.

**Firmware Version 2.30.165 (04/12/2017)**

**Resolved Issues:**

- Redesigned MyCloud App Store to include native and 3rd party apps for better user experience.
- Enhanced dashboard to fit all top menu items on one screen without scroll bar.
- Enhanced SMB server (samba) to support Apple Time Machine protocol extensions.
- Enhanced SMB server (samba) to operate using SMB-3 protocol by default.
- Resolved critical security vulnerabilities.
- Improved MyCloud Cloud connectivity across MyCloud web, mobile & client apps.
- Improved efficiency of internal MyCloud flash.
- Improved directory browsing latency over AFP when device wakes up from standby.
- Improved latency of displaying thumbnails on mobile & web app.
- Added analytics for network connection configuration.
- Resolved issue where analytics logs were not updated as expected.
- Enhanced UPnP support to pass updated UPnP certification tests
- Resolved issue of unable to connect macOS Sierra (v10.12) ssh client.
- Resolved issue where extra shares were created on system restore.
- Updated native Elephant Drive app to v3.0.24.
- Elephant Drive & Amazon S3 can now be updated without updating firmware via App Store.
- Improved dashboard network graph's X-Axis to be at least 125 MB/s.
Firmware Version 2.21.126 (12/13/2016)

Resolved Issues:
- Resolved security vulnerability related to remote access.
- Improved MyCloud Cloud connectivity across MyCloud web, mobile & client apps.

Firmware Version 2.21.119 (09/20/2016)

Resolved Issues:
- Resolved issue where macOS-10.12 user is unable to create a new Time Machine backup.

Firmware Version 2.21.111 (07/18/2016)

Resolved Issues:
- Improved overall Onboarding experience on Dashboard.
- Resolved issue where administrator device username is not displayed on dashboard login.
- Resolved multiple security vulnerabilities in image decoder (CVE-2016-3714).
- Resolved Twonky Security Vulnerability (CVE-2015-6505) - Failure to verify HTTP parameter allows writing of arbitrary files on host running Twonky Server.
- Improved USB detection performance.
- Improved automatic firmware update process.
- Improved overall localization support on Dashboard.
- Improved localization support for Online Help.
- Resolved issue where alert icon on dashboard does not turn Red or Yellow when system has critical/warning alerts.
- Resolved issue of files missing when copied to NTFS USB drive via AFP on OSX.
- Resolve issue where NFS clients would disconnect with "Stale NFS file handle" when copying files to NTFS USB drive.
- Resolved issue where device would crash under heavy load in JBOD configuration.
• Resolved multiple issues where SMB/AFP/NFS clients get disconnected under heavy load.
• Resolved issue where onboarding & access across mycloud.com would fail due to incorrect network interface registered with Cloud services.
• Resolved issue where device disappears from Windows 7 Network Explorer.
• Resolved multiple issues where analytics logs were not updated as expected.
• Resolved issue where encrypted USB dongle can't be recognized.
• Resolved issue where Acronis True Image 2016 backup would fail over SMB share.
• Resolved issue where device disappears from Windows 7 Network Explorer.
• Resolved multiple issues where analytics logs were not updated as expected.
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• Resolved issue where device disappears from Windows 7 Network Explorer.
• Resolved multiple issues where analytics logs were not updated as expected.
• Resolved issue where encrypted USB dongle can't be recognized.
• Resolved issue where Acronis True Image 2016 backup would fail over SMB share.

Firmware Version 2.11.140 (03/29/2016)

Resolved Issues:
• Resolved issue of device to USB backup failure
• Improved fan control
• Improved analytics logging support

Firmware Version 2.11.133 (01/27/2016)

Resolved Issues:
• Resolved issue of unable to connect to device while syncing/uploading files from multiple clients
• Resolved issue of unable to access dashboard
• Resolved issue of media crawler crash during resizing certain 1024x1024 images
• Resolved issue of incorrect credential message when opening dashboard after onboarding from mycloud.com
• Resolved issue of misleading Power Supply “Failure” alert text on the WebUI
• Improved analytics logging support

**Firmware Version 2.10.310 (10/21/2015)**

**Resolved Issues:**

• Resolved issue of Network connection failure on Android after firmware update
• Resolved issue of My Cloud device unable to reconnect to the new relay servers after relay fall over
• Resolved issue of Apache fail to start due to corrupted SSL keys
• Improved analytics support
• Supports Software Developer Kit (SDK) enabling enhanced app integration
• Resolved issue of cloud access lost after firmware update
• Updated help files

**Firmware Version 2.10.301 - (9/10/2015)**

**Initial Release:**

• Supports My Cloud OS 3 operating software
• Supports WD Sync™ which syncs data across multiple PCs, notebooks and Mac computers
• Supports MyCloud.com – web access portal and Learning Center (replacement for WD2go.com)
• Supports My Cloud mobile app with sharing and Automatic Camera Roll Backup
• Supports NAT-PMP that allows automatic port forward connection on Apple routers
• Web user management interface
• User access control
• Automatic firmware update
• Twonky DLNA® Media server
• iTunes® server support
• Apple Time Machine® support
• WD My Cloud™ mobile app support
• WD My Cloud™ desktop app support
• WD Photos™ app support
• Robust disk management: RAID 0, 1, JBOD, spanning
• Hot Swappable, RAID roaming, disk roaming, RAID migration
• Support for multiple RAID volumes
• Network recycle bin
• Remote backup to another My Cloud Mirror on the LAN or WAN
• Full-feature FTP services
• Jumbo frame support
• Real time resource monitor
Installing the Firmware Update

Firmware is an important set of instructions that tells your My Cloud Mirror how to operate and what the interactive screens should look like, as well as ensures accurate functionality. Updating the firmware enables you to take advantage of improvements to the operation and performance of your My Cloud Mirror.

Important: Make sure the AC power adapter remains connected during the firmware update. A power disruption during the update process can corrupt the system firmware.

To update the firmware: Automated

1. In Windows XP, Windows Vista®, Windows 7, Windows 8, or Windows 10, type the device’s IP address or http://wdmycloudmirror in the URL. For MAC, type http://wdmycloudmirror.local in the URL.
2. If you have secured your device previously with a password, enter your password and click the Login button on the main login screen.
3. Click Settings located on the main dashboard screen.
4. Click Firmware Update to open this section.
5. Click the Check for Updates button.
6. If new firmware is available, an Update Firmware pop up message will appear.
7. Click the Install & Reboot button to automatically download the firmware.
8. Once the firmware has been downloaded, the update process will begin, followed by a reboot of the device. This process will take a few minutes.

To update the firmware: Manual

2. In Windows XP, Windows Vista®, Windows 7, Windows 8, or Windows 10, type the device IP address or http://wdmycloudmirror in the URL. For MAC, type http://wdmycloudmirror.local in the URL.
3. If you have secured your device previously with a password, enter your password and click the Login button at the main login.
4. Click Settings located on the main dashboard screen.
5. Click Firmware Update to open this section.
6. Click the Update from File button.
7. Browse to the location where you saved the firmware file and select it.
8. When the Update Firmware pop-up window appears, click the OK button to proceed with the firmware update. Once the process is complete, the device will reboot. This process will take a few minutes.
Important product update notes:

1. Do not interrupt the firmware upgrade process. Doing so may cause the device to malfunction or render it unable to boot.
2. If you are using the manual update method, do not rename the firmware file. Doing so will cause the manual update to fail.