# Release notes

## Install and maintain

NetApp
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# Release notes

## What's new for ONTAP hardware systems

Learn what's new for ONTAP hardware systems. For additional support information, see ONTAP hardware and software compatibility and hardware no longer supported.

### January 2026

#### I/O module hot-swap procedures

Hot-swap procedures are now available for select I/O modules across multiple ONTAP hardware platforms and ONTAP versions.

**Supported with ONTAP 9.18.1 GA or later:**

You can hot-swap a failed Ethernet I/O module in any slot, provided its ports are used for cluster, HA, or client connections. This procedure is supported on systems with any number of nodes.

> You cannot hot-swap Ethernet I/O modules that have ports assigned to storage or MetroCluster connections.

The following platforms are supported:

- AFF A-Series: A1K, A20, A30, A50, A70, and A90
- ASA r2: A1K, A20, A30, A50, A70, A90, and C30
- AFF C-Series: C30, C60, and C80
- FAS: FAS50, FAS70, and FAS90
- AFX: AFX 1K

**Supported with ONTAP 9.17.1 or 9.18.1RC:**

To avoid an outage in a two-node cluster, you can hot-swap a failed cluster and HA I/O module in slot 4 only if the impaired controller (the one with the failed module) has already taken over the healthy partner. This is the only supported recovery method that does not require downtime.

The following platforms are supported:

- AFF A-Series: A20, A30, and A50
- ASA r2: A20, A30, A50, and C30
- AFF C-Series: C30 and C60
- FAS: FS50

#### AFF C800 end of availability

The AFF C800 system has been moved to the end-of-availability list and is no longer available for new orders.

View end-of-availability hardware.

## 2025 releases

### October 2025

#### AFX storage system

The new NetApp AFX storage system provides a disaggregated solution engineered to meet the rigorous requirements of high-performance NAS and S3 workloads, including AI/ML applications. AFX systems deliver specialized capabilities for customers requiring scalable, high-throughput file and object storage.

Learn more about the AFX system.

#### New drive shelves for AFX

The new NXS224 storage shelves for AFX uses Non-volatile Memory Express over Fabrics (NVMe-oF) to connect high-density SSDs. The disks communicate over an ultra-low latency fabric using RDMA over Converged Ethernet (RoCE). The storage shelves, including the I/O modules, NICs, fans, and power supplies, are fully redundant with no single point of failure. Self-managed technology is used to administer and control all aspects of the RAID configuration and disk layout.

#### New switches for AFX

The Cisco 9364D-GX2A switch and the Cisco 9332D-GX2B switches connect the AFX controller nodes with the storage shelves. These new switches allow you to build ONTAP clusters with more than two nodes. Advanced protocols are used to optimize performance. The design is based on VLAN tagging with multiple network paths, as well as tech-refresh configurations, to ensure continuous operation and ease of upgrade.

### September 2025

#### Platform specifications

The ONTAP hardware systems documentation now includes specifications also found in Hardware Universe. For example, Key specifications for AFF A1K.

#### Replacement reference by platform family

The ONTAP hardware systems documentation now provides replacement procedures for your NetApp storage system organized by platform family.

Find replacement procedures for your storage system's field replaceable units (FRUs).

### May 2025

#### ASA C30

The new ASA C30 system extends high-performance, intelligent, and comprehensive data management capabilities to more customers and workloads.

Learn more about the ASA r2 systems.

### April 2025

#### FAS50

The FAS50 system offers the lowest cost per Gigabyte for secondary storage and secure cyber vault, plus increased performance for secondary workloads with faster backups, higher IOPS, and low latency of 5–10ms.

Learn more about FAS systems.

### February 2025

#### ASA A20, ASA A30, and ASA A50

The entry-level ASA A20 and midrange ASA A30 and A50 systems make block storage available to companies of every size for mission-critical apps like databases and virtual machines.

Learn more about the ASA r2 systems.

## 2024 releases

### December 2024

#### AFF A20, AFF A30, and AFF A50

The new AFF A20, A30, and A50 hardware systems extend high-performance, intelligent, and comprehensive data management capabilities to more customers and workloads.

The systems offer real-time ML-based ransomware detection, seamless cloud integration, and unmatched performance for mission-critical workloads including AI, VMware, databases, and analytics with support for block, file, and object storage.

Learn more about AFF A-Series systems.

#### AFF C30, AFF C60, and AFF C80

The new AFF C30, AFF C60, and AFF C80 hardware systems make the performance and efficiency gains of flash more accessible to businesses by providing an industry-leading 1.5PB of storage capacity in two-rack deployments.

The solution offers exceptional density with 60TB drives, increased performance, and improved I/O flexibility.

Learn more about AFF C-Series systems.

#### NS224 drive shelf with NSM100B shelf modules

Enhance your data center capabilities with the NS224 and the new NSM100B NVMe storage expansion module. Designed as a direct replacement for the NSM100 module, the new NSM100B shelf module integrates seamlessly into your existing setup. It supports both direct-attached and switch-attached configurations of NS224 shelves, offering exceptional flexibility to optimize your storage system's efficiency and scalability.

**September 2024**

**ASA r2 systems**

The new ASA r2 hardware systems (ASA A1K, ASA A70, and ASA A90) deliver a unified hardware and software solution that creates a simplified experience specific to the needs of SAN-only customers.

Learn more about the ASA r2 systems.

**FAS70 and FAS90**

The new FAS70 and FAS90 hardware systems deliver affordable, yet high-performing backup storage, enabling a secure cyber vault for recovery from ransomware attacks.

Learn more about FAS systems.

# ONTAP hardware and software compatibility

ONTAP storage systems are compatible with several versions of ONTAP software. Learn about the ONTAP versions that your storage systems and drive shelves support.

Full configuration support and limitations for ONTAP hardware systems are available in NetApp Hardware Universe. Details about known issues, limitations, and upgrade cautions in ONTAP 9 software are available in the ONTAP 9 Release Notes.

**AFF systems**

The AFF A-Series and AFF C-Series systems provide a robust, scale-out platform tailored for virtualized environments. They can be deployed as standalone systems or as high-performance tiers in NetApp ONTAP configurations. Learn more about AFF A-Series systems and AFF C-Series systems.

AFF A-Series and AFF C-Series systems are supported beginning in the following ONTAP releases.

**ONTAP 9.16.1**

- AFF A20
- AFF A30
- AFF A50
- AFF C30
- AFF C60
- AFF C80

**ONTAP 9.15.1**

- AFF A1K
- AFF A70
- AFF A90

**ONTAP 9.12.1P1**

- AFF A150
- AFF C250
- AFF C400
- AFF C800

**ONTAP 9.10.1**

- AFF A900

**ONTAP 9.8**

- AFF A250

**ONTAP 9.7**

- AFF A400
- AFF A800

**AFX systems**

AFX systems provide a disaggregated solution engineered to meet the rigorous requirements of high-performance NAS and S3 workloads, including AI/ML applications. Learn more about the AFX system.

AFX systems are supported beginning in the following ONTAP release.

**ONTAP 9.17.1**

- AFX 1K

**ASA r2 systems**

ASA r2 systems deliver a unified hardware and software solution that creates a simplified experience

specific to the needs of SAN-only customers. Learn more about the ASA r2 systems.

ASA r2 systems are supported beginning in the following ONTAP releases.

**ONTAP 9.16.1**

- ASA A20
- ASA A30
- ASA A50
- ASA C30

**ONTAP 9.16.0**

- ASA A1K
- ASA A70
- ASA A90

**ASA systems**

ASA A-Series and ASA C-Series systems deliver a simplified and dedicated SAN experience that provides continuous data availability for enterprise mission critical databases and other SAN workloads using FCP or iSCSI protocol. Learn more about the ASA systems.

ASA systems are supported beginning in the following ONTAP releases.

**ONTAP 9.13.1P1**

- ASA C250
- ASA C400
- ASA C800

**ONTAP 9.13.1**

- ASA A150
- ASA A250
- ASA A400
- ASA A900

**ONTAP 9.8**

- ASA AFF A250
- ASA AFF A800

**ONTAP 9.7**

- ASA AFF A400

**FAS systems**

FAS systems deliver efficient and secure secondary storage - the ultimate solution for tiering, backup, and disaster recovery. Learn more about FAS systems.

FAS systems are supported beginning in the following ONTAP releases.

**ONTAP 9.16.1**

- FAS50

**ONTAP 9.15.1**

- FAS70
- FAS90

**ONTAP 9.13.1**

- FAS2820

**ONTAP 9.11.1**

- FAS9500

**ONTAP 9.10.1P3**

- FAS9500

**ONTAP 9.7**

- FAS2750
- FAS8300
- FAS8700

**Drive shelves**

Drive shelves are specifically designed for NetApp AFF, AFX, ASA, and FAS systems and help deliver the performance, resiliency, and flexibility your digital transformation needs.

Drive shelves are available beginning with the following ONTAP releases.

**ONTAP 9.17.1**

- NSX224 shelf for AFX systems

**ONTAP 9.16.1**

- DCM3 for SAS-3 shelves
- NS224 with NSM100B modules

**ONTAP 9.6**

NS224 shelf with NSM100 modules

# Hardware no longer supported

The following systems, shelves, and switches are no longer supported as of the specified version of ONTAP.

For current unsupported hardware, see NetApp Hardware Universe .

## ONTAP hardware systems

| System | Support discontinued from… |
| --- | --- |
| • AFF A300<br>• FAS8200 | ONTAP 9.17.1 |
| • AFF A320<br>• AFF A700s | ONTAP 9.15.1 |
| • AFF A200<br>• FAS2650<br>• FAS2620 | ONTAP 9.12.1 |
| • AFF AFF8020, AFF8040, AFF8060, AFF8080<br>• FAS8020, FAS8040, FAS8060, FAS8080<br>• FAS2520, FAS2552, FAS2554 | ONTAP 9.9.1 |

## Shelves

| Shelf module | Support discontinued from… |
| --- | --- |
| IOM6 6Gb/s SAS module, used in:<br>• DS2246<br>• DS4246<br>• DS4486 | ONTAP 9.16.1 |

## Switches

| Switch | Support discontinued from… |
| --- | --- |
| Cisco Nexus 3232C | ONTAP 9.18.1 |
| Cisco Nexus 3132Q-V | ONTAP 9.17.1 |
| Cisco Nexus 92300YC | ONTAP 9.16.1 |
| NetApp CN1610 | ONTAP 9.13.1 |
| • Cisco Nexus 5596UP<br>• Cisco Nexus 5596T | ONTAP 9.11.1 |

## Related information

- Supported Cisco Ethernet Switches
- Supported NetApp Ethernet Switches
- End of Availability Platforms

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