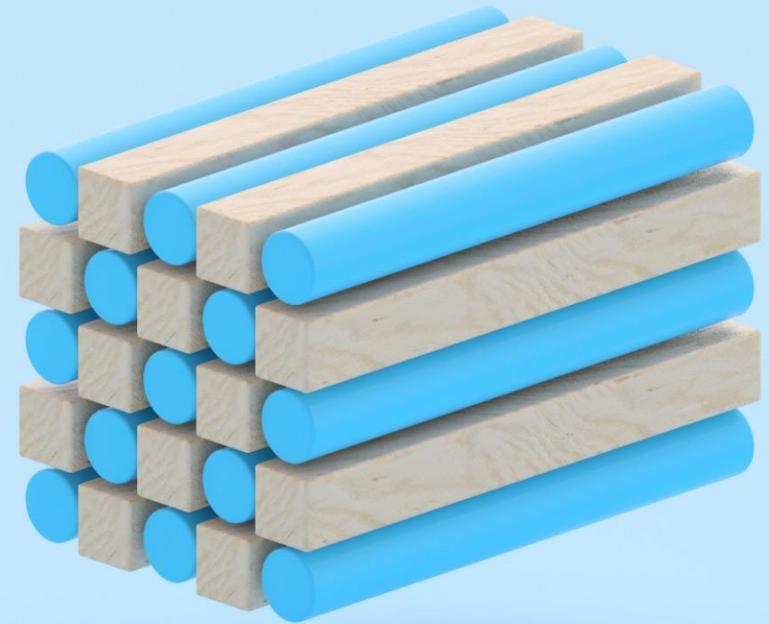


NetApp ASA all-flash systems

Simple and powerful dedicated SAN storage



May 2023

You have enough to worry about

Global macro trends are wreaking havoc on IT budgets and plans



Untenable IT complexity and skills shortages



Deepening of unsettled macroeconomic climate



Urgent focus on energy cost and sustainability



Exponential increase in cyberthreats

NetApp's innovation priorities are aligned to address macro trends

Driving data storage that's ready for the modern world, with proven technologies and innovations



Simplicity

Unified, consistent operations;
same experience everywhere;
run apps anywhere



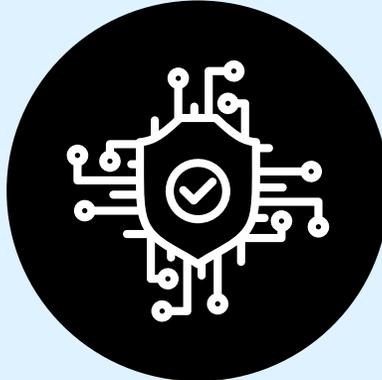
Savings

Continuous optimization: Cost
visibility and savings; storage as
a service anywhere



Sustainability

Services to monitor, manage,
and optimize carbon footprint
across hybrid multicloud



Security

Complete integrated cyber
resilience; unified and integrated
data protection, security,
governance, and compliance

NetApp is the leader in NAS and Unified Storage



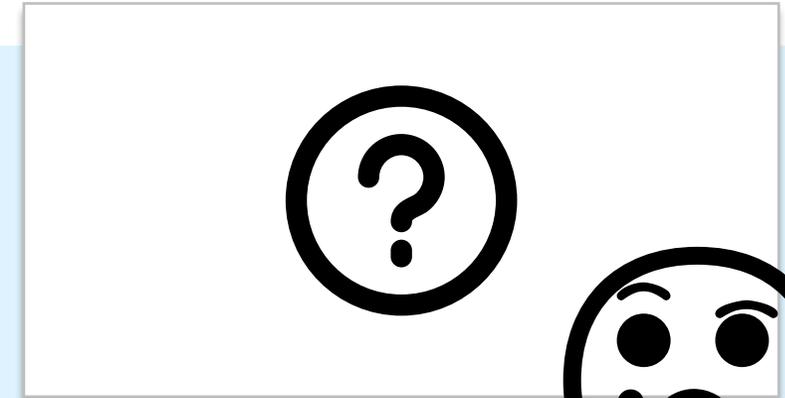
Leader in NAS

- Analysts recognize NetApp for NAS leadership.
- NetApp is trusted by customers for NAS.
- NetApp® ONTAP® offers the most comprehensive data services.



Leader in Unified

- Analysts recognize NetApp for unified leadership.
- Only unified solution with file, block, and object.



Storage area networks (SANs)

- What about SAN?

Customers trust NetApp with their SAN workloads



Over **20,000** customers across
50,000 storage arrays trust
NetApp with their SAN workloads.



Over **5,000** customers use
NetApp[®] controllers for **SAN-only**
workloads.

Introducing NetApp ASA



Availability Performance Efficiency

- The all-flash block storage for mission-critical applications
- Simple, dedicated SAN storage that delivers high **availability, performance, and efficiency.**
- Enhancements to NetApp® ONTAP® and new additions to NetApp Advance, our portfolio of simplified buyer programs and guarantees.

Why NetApp ASA

Modern all-flash SAN storage family ideal for VMware and database applications

- **Modern.** Active-Active. All-NVMe. Comprehensive data services. Cloud connected. Future-proof ownership experience.
- **High-availability – guaranteed.** Comes with a 99.9999% data availability guarantee.
- **Efficiency – guaranteed.** Comes standard with a 4:1 storage efficiency guarantee. Leading raw-to-effective capacity.
- **Secure and Protected.** Recover rapidly from Ransomware attacks. Protect against disasters with business continuity across sites.
- **Sustainable.** Up to 50% lower emissions relative to competing all flash arrays.



**NetApp is trusted and proven by over
20,000 customers for their SAN
workloads**

ASA systems are ideal for VMware and database workloads

vmware®

ORACLE

Microsoft®
SQL Server®

SAP®

- App & VM integrated snapshot backups
- 99.9999% availability for critical infrastructure
- Instantly create thin clones of VMs and DBs
- Native integration with VMware vSphere and Cloud Foundation



A deeper look at NetApp ASA A-Series

A wide range of performance and capacity offerings



ASA A150

ASA A250

ASA A400

ASA A800

ASA A900

HA system

- 15.2TB – 547TB raw
- Up to 2.1PB effective
- 2U base w/ 24 drives

- 15.2TBs – 1.1PB raw
- Up to 4.4PB effective
- 2U base w/ 24 drives

- 15.2TB – 14.6PB raw
- Up to 58.6PB effective
- 4U base + 2U24 drive shelf

- 22.8TB – 6.6PB raw
- Up to 26.3PB effective
- 4U base w/ 48 drives

- 22.8TB – 14.6PB raw
- Up to 58.6PB effective
- 8U Base + 2U24 shelf

Cluster

- 91.2TB – 3.3PB Raw
- Up to 13.1 PB effective

- 91.2TB – 6.6PB raw
- Up to 26.4PB effective

- 91.2TB – 87.6PBs raw
- Up to 351.6PB effective

- 136.8TB – 39.6PB raw
- Up to 157.8PB effective

- 138TB – 87.6PB raw
- Up to 351.2PB effective

Protocols

NVMe/FC, NVMe/TCP, FCP, iSCSI

Highly available and highly resilient

Ensuring that your mission-critical apps are always online

- Symmetric active-active pathing to applications for highly resilient data access
- NetApp® ASA storage is designed to deliver the availability you need to run your business
 - **6 nines** (99.9999% uptime)
- We are so confident in our ability to deliver this availability to you that we guarantee it
 - If you experience an unplanned data availability downtime event in excess of 31.56 seconds per year (99.9999% uptime), NetApp will issue you a credit.



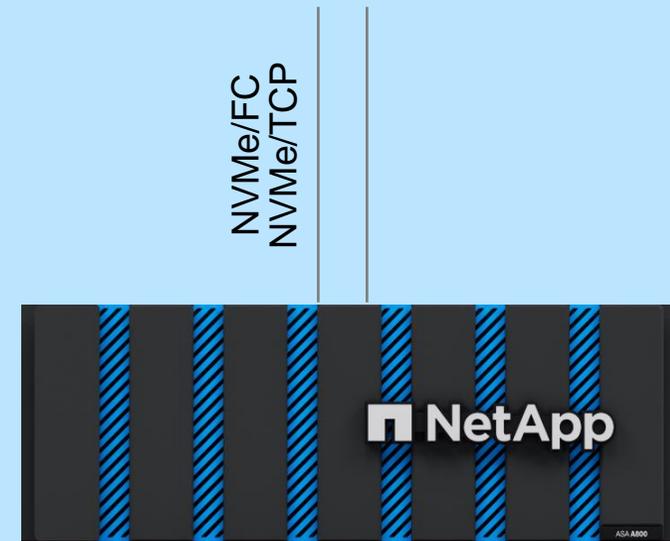
6 Nines Data Availability Guarantee

ASA systems are powerful

For your most demanding workloads

- Accelerate enterprise apps with end-to-end NVMe storage
 - Extremely low latency (as low as 100μs)
 - Millions of IOPS in a cluster
- Future-proof with NVMe-oF technology, high-bandwidth network connectivity
 - NVMe/FC
 - NVMe/TCP
- Reduce data center costs by consolidating workloads on high-performance and high-density storage

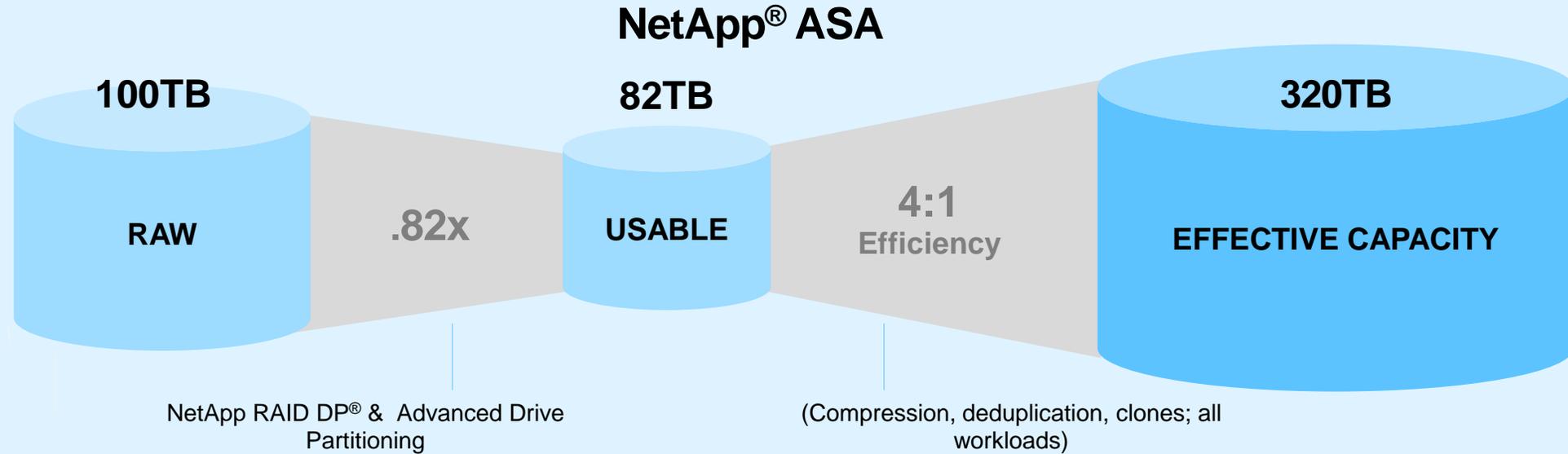
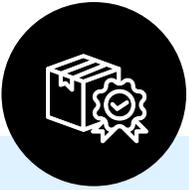
To host servers



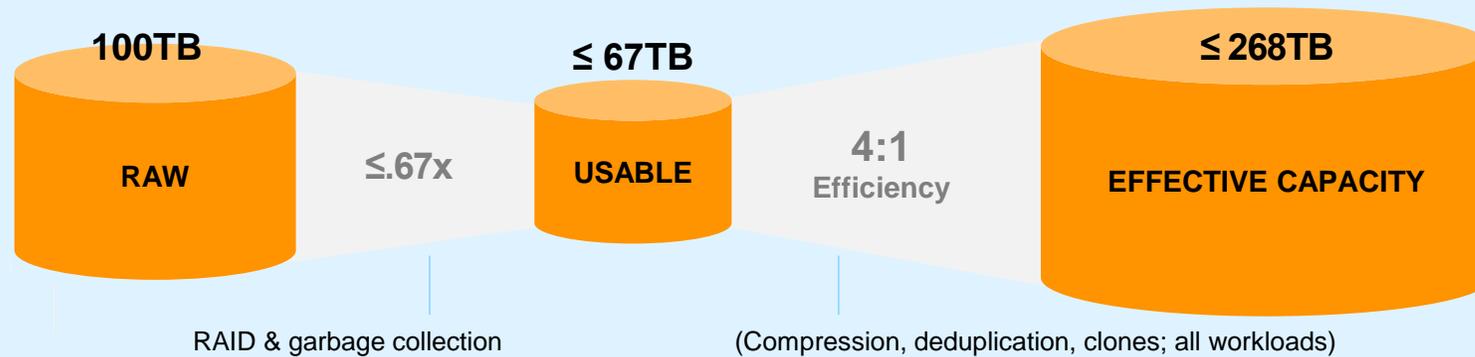
NVMe SSD + NVMe-oF

ASA systems are efficient

Industry-leading efficiency over the competition



Other leading all-flash storage



Even 5:1 storage efficiency would barely break even in some cases.

Storage Efficiency Guarantee

The simplest effective guarantee in the industry.

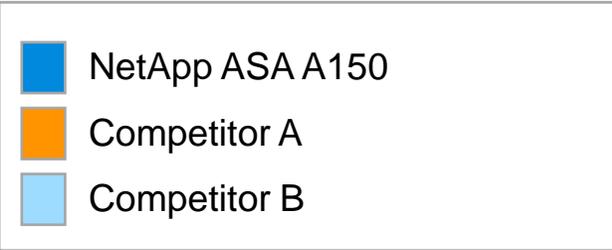
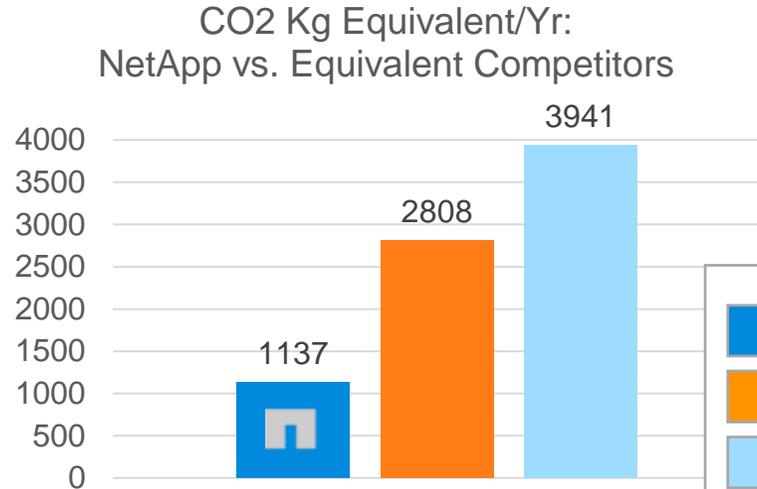
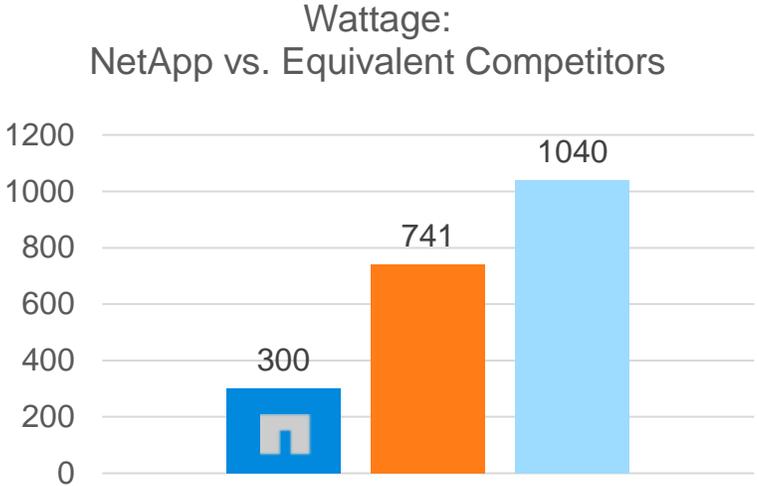
- **Standard 4:1 Storage Efficiency Guarantee** available for customers using SAN protocols
- A risk-free approach to more storage, more value, and more efficiency
- Our guarantee: If we don't meet your workload efficiency goals, we'll make it right at no cost to you
- Available for AFF and now for the new ASA systems



Storage Efficiency Guarantee
on all ASA systems

NetApp All-Flash is more sustainable than major competitors

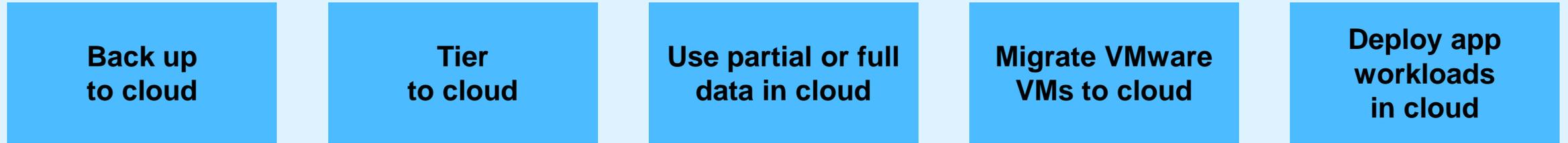
Lower power consumption by design



- **NetApp all-flash arrays deliver significantly lower power usage and equivalent emissions vs. major competitors.**
- Many vendors make outrageous sustainability claims. **Always check the datasheets.**

- Competitor data is based on their publicly published *nominal power value* which is assumed to be typical wattage.
- NetApp AFF/ASA wattages based on the median wattage of *actual customer power consumption* across entire population of systems reporting to NetApp ActiveIQ.
- Carbon emissions equivalents were calculated via the U.S. EPA calculator here: <https://www.epa.gov/energy/greenhouse-gas-equivalencies-calculator>

ASA systems are cloud connected



ASA on premises



Public cloud

- ✓ Consistent performance
- ✓ Consistent management and automation
- ✓ Consistent data protection

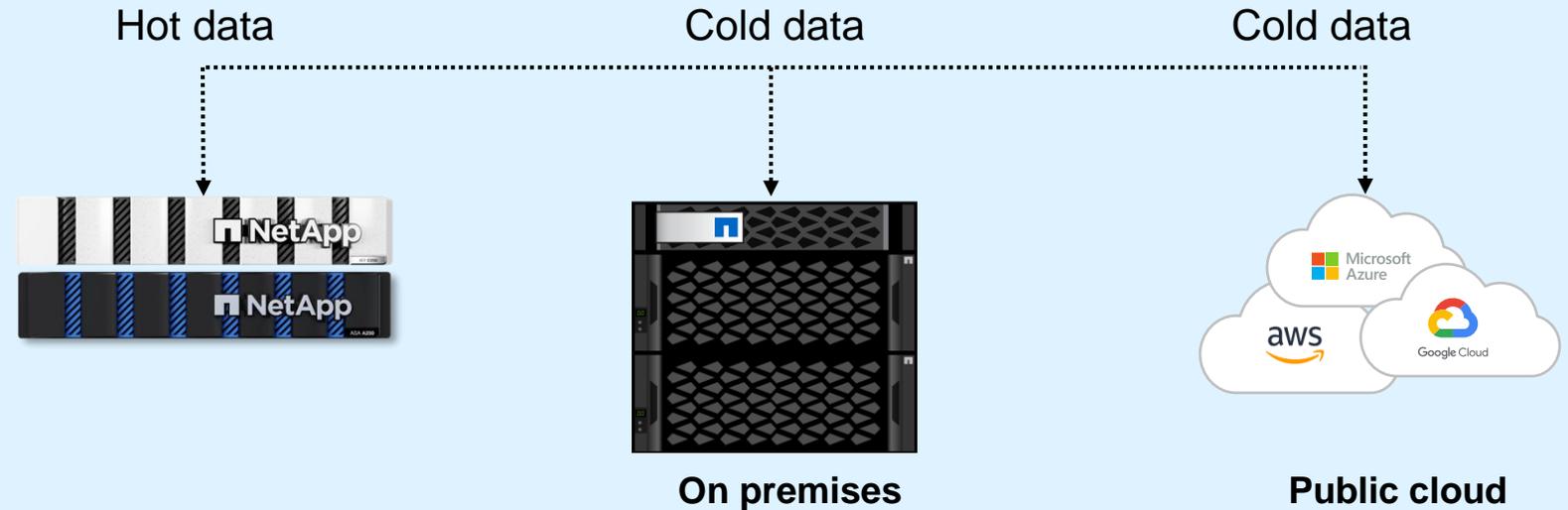
Better outcomes and economics with simplicity at scale

Customer outcomes and ROI limited by silos



Hewlett Packard Enterprise

Customer outcomes and ROI accelerated with automated data tiering



- ✓ Consistent management and automation
- ✓ Consistent data services
- ✓ Better performance

Ransomware Recovery Guarantee

NetApp can help. And now we guarantee it.



NetApp will warrant snapshot data recovery in the event of a ransomware attack.



If you can't recover your data copies with help from NetApp or partner assistance, NetApp will offer compensation.



The NetApp Ransomware Recovery Guarantee

FOR ENTERPRISE
PRIMARY STORAGE

Deployed NetApp ASA or AFF C-Series storage according to NetApp ransomware protection best practices, with support from NetApp PS.

Warranty includes both technology deployment and PS engagement. Terms and conditions apply.

ONTAP One for SAN

Comprehensive software for ASA systems

NetApp® ONTAP® One for SAN, available exclusively with the NetApp ASA family, is included software that provides comprehensive capabilities relevant for SAN workloads

Including

- Block protocols
 - NVMe/FC, NVMe/TCP, FCP, iSCSI
- Data protection
- Security and compliance
- Hybrid cloud

Simplified ordering

- One line item; one price; no add-ons

ONTAP One for SAN



Descriptions on this slide are an overview only. Encryption software not available in all countries. Certain metered services are at a separate cost per TB through NetApp BlueXP™.

ASA systems are future-proofed with Storage Lifecycle Program



NetApp® ASA systems



Free controller every 3 years

Cloud Advantage

Capacity refresh

Support-managed software updates

Premier-level support services

Future proof your storage investment for tomorrow.

NetApp Advance

Portfolio of programs and guarantees to continually evolve your storage environment with confidence



Storage Lifecycle Program with Cloud Advantage

- Eliminate painful and costly refresh.
- Scale out to the cloud to meet changing business needs.

OPTIONAL program



Ransomware Recovery Guarantee

Data loss from ransomware avoided or minimized—we guarantee it.



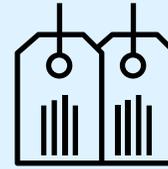
OPTIONAL program¹



6 Nines Data Availability Guarantee

The storage that runs your business will always keep running—we guarantee it.

INCLUDED w/ ASA²



Predictable support pricing

No budget surprises with flat-rate, predictable support pricing across the lifecycle of your ASA, AFF, or FAS systems.

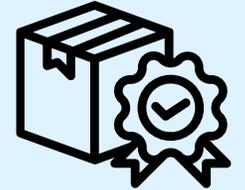
INCLUDED w/ support



Media replacement assurance

Never worry about flash media wear. ONTAP® is designed so that it isn't a factor. And as long as your storage is under support, we've got you covered.

INCLUDED w/ support



Storage Efficiency Guarantee

- 4:1 efficiency for SAN workloads on AFF and ASA, guaranteed or we'll make it right.
- Other guarantees based on workload.

INCLUDED w/ ASA/AFF

Best-in-class ownership experience to accompany NetApp AFF/FAS/ASA solution purchase

Delivering freedom to IT to manage and innovate with data

Leader in NAS



NetApp® AFF and FAS are trusted by tens of thousands of customers for NAS.

Leader in Unified



Only Unified solution with file, block, and object.

Leader in SAN



ASA A-Series

NetApp is already trusted by 20,000 customers for their SAN workloads.

Across any app, any data, any cloud



The modern world with NetApp

Freedom to innovate across any app, any data, and any cloud



Free IT from different silos across structured and unstructured data

Deploy dedicated NAS, dedicated SAN, or unified systems all with the same technology stack.



Modernize data storage affordably

Integrated autonomous tiering makes sure that data is always on the right storage media and at the right cost, with guaranteed storage efficiencies.



Save the planet and shrink your power bill

Dense efficient storage uses less power and creates fewer carbon emissions than other comparable storage.



Turn cyberworry into peace of mind

Autonomous antiransomware technologies and tamper-proof data protection help level the playing field against constant cyberthreats.

Thank you

