



Tributary
SYSTEMS, INC

VITAL® ANDROMEDA

A low cost backup storage appliance for HP NonStop™



ANDROMEDA 900	9 TB usable
ANDROMEDA 2100	21 TB usable
ANDROMEDA 3000	30 TB usable

ANDROMEDA is a low cost, self-contained 3U backup storage appliance for the HP NonStop™ platform. ANDROMEDA is architected and built on the proven VITAL® backup virtualization platform to satisfy the most demanding operational backup and archival requirements for lights-out and multi-platform enterprise computing environments.

- Ability to attach to existing customer de-dupe appliances
- An integrated all-in-one 3U appliance
- Transparent remote backup and restore for off-site requirements and disaster recovery
- Lowest cost backup storage for HP NonStop in the market today
- Ability to eliminate tape or consolidate tape libraries and drives to lower cost
- Improved site-to-site replication to maximize throughput
- User defined policies hold data on disk or direct data migration to any number of back-end devices
- Compression and AES encryption of data at rest and during migration
- LTO 5 back-end tape drive support
- Industry leading reports, monitoring and alerting for lights-out remote data center operations
- Fully automated operation of both virtual front-end and physical back-end devices

LOWEST COST BACKUP STORAGE FOR NONSTOP

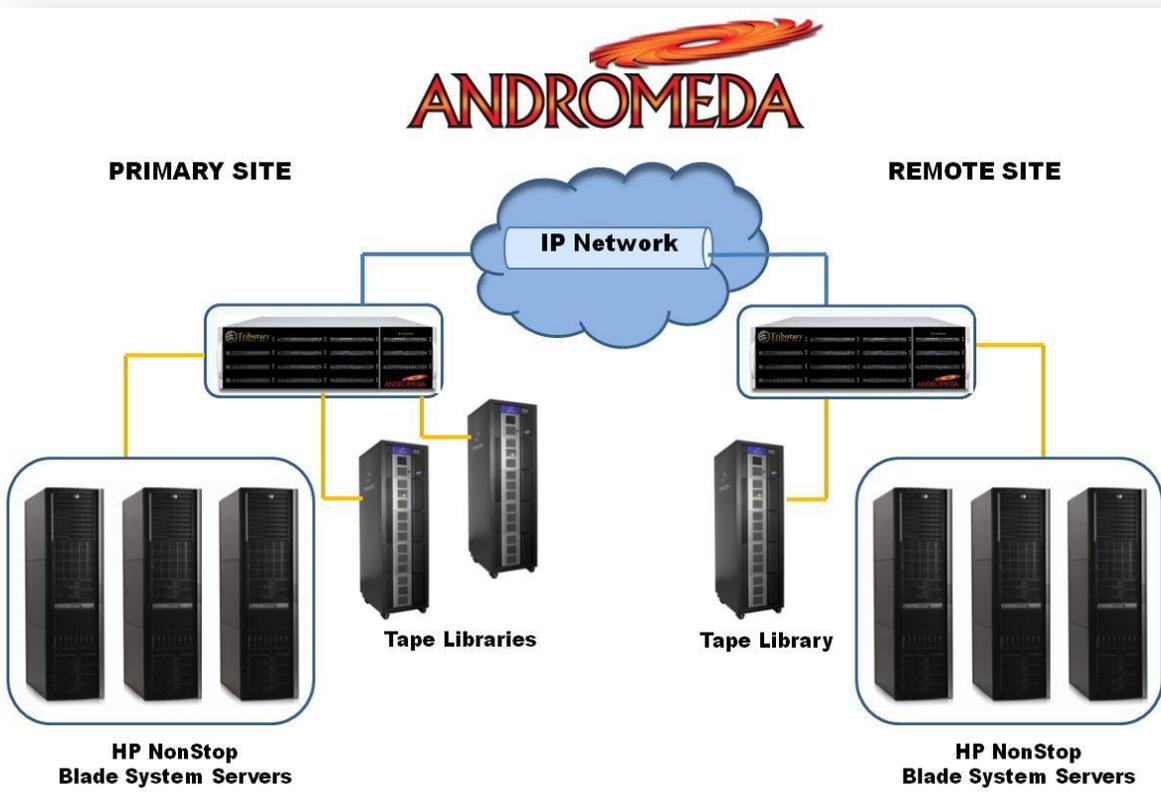
ANDROMEDA offers a state-of-the-art backup storage consolidation appliance which can handle requirements from even the most complex environments. ANDROMEDA provides NonStop backup storage and implements a wide variety of data protection schemes and tape library consolidation, thus eliminating the need to dedicate devices for specific backup purposes.

Fully Automated Backup and Restore Operations

The technology within ANDROMEDA brings a scalable, flexible, and high-throughput solution to backup and restore operations. No longer do operations staff need to monitor data movement. ANDROMEDA provides dynamic drive sharing, customer defined virtual tape policies, backup to local and remote sites, and a performance improvement over current backup methods.

Remote Site Backup and Disaster Recovery

Offsite data storage is often a prerequisite in satisfying complete data backup and security. This can be accomplished by writing data to physical tape and then storing the tapes in an offsite vault. A better and more cost effective approach is to configure ANDROMEDA to electronically transfer encrypted data to and from a remote site. Since the data is readily available at the remote site, restoring using ANDROMEDA at the remote site is an integral part in any disaster recovery plan. ANDROMEDA incorporates enhanced tape replication features and has the option to be ordered with WAN optimization to enhance throughput.



Tape Library Distribution and Consolidation

Existing backup servers can utilize the multiple front-end virtual libraries presented by ANDROMEDA. These backup servers view each connected front-end virtual library as dedicated to its needs. ANDROMEDA, in turn, can consolidate these virtual libraries into one or more physical back-end devices – typically a tape library with drives. The result is a reduction in the number of tape libraries and drives needed as well as reduced maintenance costs.

ANDROMEDA Configurations

ANDROMEDA is architected and built on the proven ViTAL backup virtualization platform and will meet the needs of large data center customers as well as small entry level customers. Andromeda is available as a low cost, self-contained 3U backup storage appliance in the following configurations: ANDROMEDA 900, ANDROMEDA 2100, and ANDROMEDA 3000. Backup sizes, throughput requirements, tape retention policies, availability requirements, as well as future growth rates will determine which model best fits a customer's needs.



ANDROMEDA at a Glance:

Virtual Slot Capacity per Library	Up to 30,000
Virtual Drive Capacity per Library	Up to 50
Virtual Libraries	Up to 100
SERVER NODE:	
Interfaces	Four 4 Gbps FC front-end ports Four 4 Gbps FC back-end ports 1 Gbps Ethernet for iSCSI 1 Gbps Ethernet for management AES 256 Encryption
Storage Capacity (usable)	RAID 6 with hot spare ANDROMEDA 900: 9 TB ANDROMEDA 2100: 21 TB ANDROMEDA 3000: 30 TB
Performance	4 TB / hour per node
Emulations	IBM 3584, HP E-Series, STK L700, ACSLS, proprietary LTO-1, LTO-3, LTO-4, 3592, 9940, T10000, N1525
Physical Specs	Height: 5.2" (132mm) (rack mount 3U) Width: 17.2" (437mm) Depth: 25.5" (648mm) Weight: 72 lbs.
Operating Environment	Temperature: 10-35 C (60-95 F) Humidity: 8-90% non-condensing
Power	Redundant 1200W high-efficiency power supplies 1000W Output @ 100-140V, 11.5-8A, 50-60Hz 1200W Output @ 180-240V, 8-5.5A, 50-60Hz



Tributary Systems, Inc. is a technology solution provider to enterprise computing customers. Tributary develops and sells data protection, backup storage, virtualization, site-to-site replication and disaster recovery solutions. Tributary is an acknowledged global leader in providing backup storage and data protection solutions for fault-tolerant, high availability, enterprise computing environments.

Tributary was founded in 1990 and is a Texas based company with its headquarters, development, integration, and test facilities in Bedford, Texas and software development and test facility in Austin, Texas.

Through its channels and direct sales organization, Tributary has served customers worldwide, predominantly in the banking, financial services, retail, telecom and healthcare industries. Tributary is a HP business partner and OEM supplier, IBM OEM Partner (iOEM), Solution Reseller (ISR) and Business Partner, Quantum® Value-Added Reseller (VAR), and Oracle® OEM partner.



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