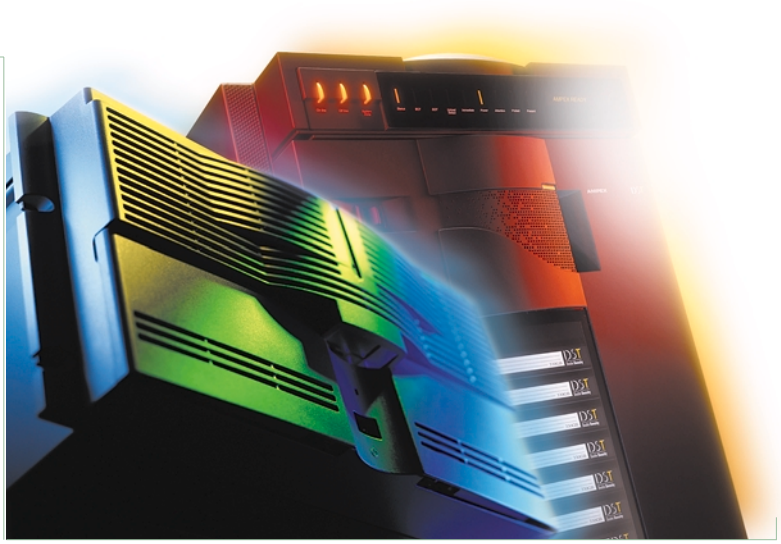
GRASS VALLEY GROUP

PROFILE NETWORK ARCHIVE SYSTEM

SCALABLE, FLEXIBLE, AND AFFORDABLE STORAGE

PRODUCT DATA SHEET

The Profile Network Archive is the next generation archive system that allows a network of Profile video servers to access a central archive system. The Network Archive is based on industry standard platforms, high-speed Fibre Channel networking, and uses the leading archive software system to manage the archive.



KEY FEATURES

- Supports Profile XP PVS & Profile PDR platform family
- Based on EMC's Avalon Archive Manager ™
- Industry standard Solaris operating system
- Fibre Channel networking
- Support for popular tape libraries and drives
- Capacities ranging to 400+ Terabytes
- RAID protected archive database
- Standby servers for redundancy
- Systems consulting and integration services

Architected for Flexibility

Flexibility is key to your ability to manage digital media assets. Grass Valley Group's Profile Network Archive architecture lets you configure your archive system with the optimal amount of capacity and performance. At the heart of Network Archive is an off-the-shelf Intel® Pentium™ server running the Sun® Solaris™ operating system. This server is the gateway to connecting multiple Profile video servers to your tape library. It has the appropriate Fibre Channel and SCSI connections to provide a high-speed link between the network of video servers and the library system. In most configurations, each server supports two tape drives. For larger scale configurations multiple servers can be used to provide as much bandwidth as needed to access multiple tape drives installed in the library.

Advanced Management with EMC's Avalon Archive Manager

To manage your library, the Grass Valley Group uses the most advanced management software available, the Avalon Archive Manager (AAM), from EMC. This software system controls access to the physical components of the library system. The AAM uses a widely adopted application programming interface (API) to allow third party applications to direct the AAM to archive and restore material from any Profile on the Fibre Channel network. AAM, once directed to start an operation, sets up an FTP transfer between the desired Profile and the Network Archive server to complete the transfer. Users have great flexibility in managing the library system through features such as repacking tapes. This AAM feature reclaims lost tape capacity due to fragmentation. When repacking a tape, the AAM will copy all of a tape's data onto temporary disk storage and then rewrite it serially onto the tape, freeing up space previously lost to file deletions that occurred in the middle of the tape.

Support for Popular Automation Systems and Tape Libraries

Profile Network Archive gives you the flexibility to use popular automation systems and tape libraries, today and tomorrow. Among the automation systems supported are Louth, Columbine, Drake, Omnibus, FloriCal, ProBel, and others. Tape libraries from the premier companies in the tape storage industry are supported including most popular products from Ampex, Exabyte and StorageTek. Plus, Grass Valley Group and EMC have a comprehensive program of continuing qualification of automation systems, tape drives, and libraries to ensure that you can select from the most current products available. And if we don't have something you need off-the-shelf, we have a systems consulting organization that can address your needs.

ContentShare Compatible

For manual control of your library system each Profile Network Archive comes with the necessary software to run in a ContentShare environment. ContentShare is Grass Valley Group's software platform for accessing and managing digital assets regardless of their type or location. ContentShare, which is built with Internet-standard technologies, easily links video with its related text, audio, and graphics assets. The ContentShare Explorer application makes accessing and managing storehouses of digital media assets as easy as using the World Wide Web.

Availability through Redundancy

Every Network Archive system includes high-availability features. Most configurations come complete with a standby server. This server is ready to take over in the event of a primary server failure with a minimal of downtime. Redundant power supplies in each server guard against downtime. To protect the AAM database of library contents, Network Archive uses RAID disk array technology. Simplifying failover in the event of a server failure the RAID disks are housed in an external subsystem that is cabled to the backup server. Redundant power supplies are used in the disk subsystem for additional protection.

PROFILE NETWORK ARCHIVE SERVER

System

- Sun Solaris 2.7
- Intel 667 MHz Pentium
- 256 MB Memory
- 9 GB internal disk

Networking

- 100 BaseT Ethernet
- Fibre Channel @ 1 Gb/s
- Media Interface Adapter (MIA) for optical connection

I/O

- PCI RAID controller with SCSI drive connections
- Dual Ultra-2 SCSI connections for tape libraries
- Support for two tape drives per server

External Storage

- Five 18 GB drives
- Two drives configured RAID-1 for Avalon database
- Three drives configured RAID-0 for repack
- Dual SCSI connections
- Redundant power supplies

Server

DIMENSIONS	CM	IN
Height: 6RU	26.7	10.5
Width	48.5	19.0
Depth	59.7	23.5
Weight (max.)	24.9kg	55 lbs.

External Storage

DIMENSIONS	CM	IN
Height: 3RU	13.3	5.3
Width	48.5	19.0
Depth	43.2	17.0
Weight (max.)	34.0 kg	75 lbs.

Power

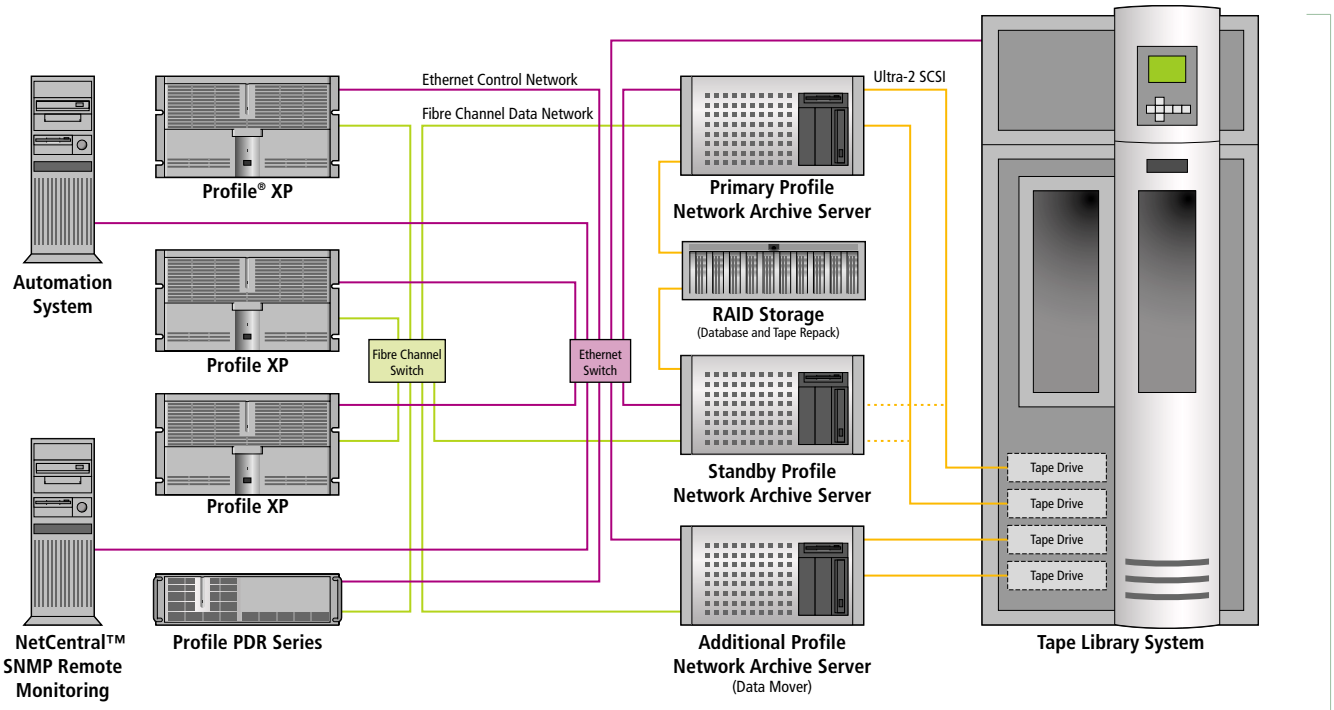
- 110/220 volts
- 330W server power consumption
- 340W (nominal)/460W (peak) external storage power consumption
- Dual, hot-plug redundant power supplies

Environmental

- Operating Temperature: 50-95° F (10 - 35° C)
- Operating Altitude: To 10,000 feet (3048 m)

Certification

- UL, FCC Class B, DOC Class B, CE, CSA



TYPICAL PROFILE NETWORK ARCHIVE SYSTEM

Profile Network Archive's architecture provides users with the flexibility to configure their archive system for optimal performance and cost effectiveness.

Warranty

Products offered by Grass Valley Group are manufactured to provide the highest level of reliability and performance. Grass Valley Group warrants these products against defects in materials and workmanship in accordance with the warranty statement applicable with each product. Grass Valley Group covers all standard PNA systems with a three (3) year System Support Coverage Contract*. This service contract covers:

- Hardware Support – Advanced Exchange of parts to arrive next business day. Factory depot repair is also available.
- Software Support – Automatic shipment of software maintenance releases (fixes to known issues)
- Technical Phone Support – Hardware diagnosis and operational assistance during normal business hours via our 1-800 number.
- After-Hours Emergency Phone Support – Hardware diagnosis for "down" systems
- Technical E-Mail Support
- Web Technical Resources Access

The Pentium server used in the Profile Network Archive is offered with a manufacturer's 3-year extended warranty from Dell Computer Corp. Also included is EMC Corporation's initial 30-day warranty for the Avalon Archive Management software and the first year of a three year software maintenance commitment. EMC also provides two days of maintenance training. Please contact EMC and Dell directly for additional warranty, service contract, and applicable training information for their products.

Complimentary Services

Technical phone support via our 1-800-547-8949 number during regular business hours and technical e-mail support. In addition to our call center, we offer free on-line technical resources and parts ordering via our web site at www.grassvalleygroup.com/support. And to ensure your system gets off on the right foot, we've included two customized service features with your product absolutely free.

- 1-Day On-Site Consulting Service by our Systems Management Group to assist in system design
- 2-Day On-Site Technical SmoothStart to ensure system integrity

*3 Year System Support Coverage does not cover services for new XP's or existing Profile systems; or other GVG and 3rd party equipment connected to PNA systems that were not specified as part of the original PNA system. Each server in the system will be covered by a separate contract (discounts apply for multi-server systems).

Initial Warranty Coverage

Grass Valley Group products are built to exact standards and are backed by an excellent hardware and software warranty – one year or 15 months from date of shipment. Under warranty services you will receive these critical services:

- Technical phone support (regular business hours)
- On-line frequently asked question database
- Emergency "down" service support
- Advance exchange on product modules

Support Packages Available

We have built our support packages around critical product life cycles with a focus on helping reduce the cost of maintenance.

First Time Product Purchaser Discount

Support services that ensure your product gets off on the right foot are offered to first-time product purchasers at reduced package prices.

- Extended Support Contract
- Impak™ Training
- SmoothStart™/Mini SmoothStart

Ongoing Support for All Products

Service Packages designed to make your job easier, and excellent for non-technical staffed sites, or reduced staff facilities. Packages that provide long-term support and more on-site assistance, at reduced package prices.

- SureStep complete on-site package
- NextStep personalized phone training
- Quarterly preventative maintenance
- Remote diagnostic setup services

Other Services Available

- 1-5 year comprehensive contracts
- Advanced exchange contracts
- Customer product training
- Technical support service contracts
- On-site professional services
- Spares kits and repair services
- Software update services
- Customized service contracts
- System network consulting

*Some country and product restrictions apply

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