

The Acopia Adaptive Resource Switch (ARX) 6000 is a high performance, highly available file switching platform that enables enterprises to optimize utilization and simplify management of file storage resources

Acopia ARX6000 Reduces Total Cost Of Ownership and Simplifies Management of File Storage

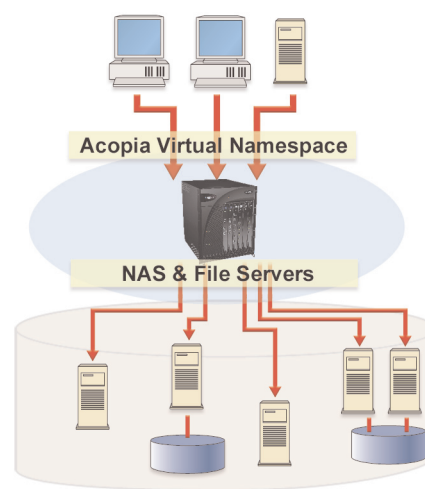
Storage Management Challenges

The rapid growth in the amount of digital information combined with regulatory requirements to store more information for longer periods of time, has fueled an increase in the number of NAS (Network Attached Storage) systems and file servers in today's enterprise. This proliferation in file storage systems has presented IT departments with significant management challenges. Since each system is managed as a separate entity it is operationally costly to provision or consolidate storage, and disruptive to perform simple data migration between systems. In addition each system is limited in terms of scale and performance which often negatively impacts application and user response times. Consequently enterprises are looking for new ways to simplify their file storage environments and reduce the total cost of ownership associated with those environments.

Acopia Virtual Namespace

The Acopia ARX6000 enables companies to more effectively manage multiple file servers and NAS systems and to reduce their storage costs. The ARX6000 provides a virtual namespace that presents a unified logical view of an enterprise's physical file storage systems. The Acopia virtual namespace shields clients (applications and users) from the complexity of the physical storage systems themselves, allowing unified access to heterogeneous (multi-vendor, multi-platform, multi-OS) storage systems irrespective of physical location. Storage adds, moves and changes on the physical storage systems no longer induce service disruption. In addition, since clients access the Acopia virtual namespace rather than the physical storage systems directly, no client reconfigurations are required.

ARX Logical View of File Storage



BENEFITS

- Improve the scale, performance and utilization of NAS systems
- Perform data migration and server consolidation without service disruption or client reconfiguration
- Online storage provisioning
- Automate movement of less frequently used or non-business critical data from tier 1 to tier 2
- Replicate file data for disaster recovery or disk-based backup applications
- Replicate data from multiple locations to a central location for centralized backup
- Provide unified access to file data across heterogeneous file storage systems
- Simplify access to data by eliminating multiple mount points and drive mappings

Hardware

Physical

- 6 Slot Chassis
- Dimensions: 22.75" h x 19" w x 23" d
- Weight: 85lbs to 150lbs
- Temperature: ambient operating, 0-40°C (32-104°F)

Interfaces

- 100/1000BASE-TX, 1000BASE-SX SFP, 1000BASE-LX SFP Gigabit Ethernet

Software

Storage Management Policies

- Data migration by type, access and age
- Capacity load balancing
- Tiered storage
- Large fileset replication

Protocols

- NFSv2 and v3, CIFS
- NT LAN Manager (NTLM), Kerberos
- NFS access control
- TCP, IP, UDP, NTP, ARP, SNMP
- VLANs
- Rapid Spanning Tree

Security

- RADIUS, SSH

Management

- CLI, GUI, SNMPv2

High Availability

- Switch failover
- Hot swappable modules
- Redundant AC-DC power supply modules
- Link Aggregation



Non-disruptive Data Migration

Traditionally moving data between file storage systems, including tasks such as server consolidation, has been a costly and disruptive process. Application and user access is disrupted during migrations and IT administrators have to perform both the migrations as well as client reconfigurations, each of which is time consuming and prone to error. The ARX automates data migration tasks, allowing clients to continue to access data while it is being migrated.

Furthermore, once migrations complete no client reconfiguration is required.

Improved Scale and Performance of NAS

Current NAS systems are limited in terms of scale and performance, yet there are many applications and business processes that would benefit from larger file systems or increased performance across existing file systems. As a purpose-built, in-band device, the Acopia ARX is able to aggregate multiple NAS systems into a single logical file system, providing a larger workspace for applications. The ARX increases aggregate throughput to the physical file systems by distributing load amongst NAS systems which can dramatically improve application performance and business workflow.

Tiered File Storage

Many IT departments are looking to significantly reduce storage capital expenditure by taking advantage of new, cost-effective storage technologies like Serial ATA (S-ATA). The ARX enables IT administrators to identify types of data that are not business-critical, or seldom used, and automatically migrate it off of high-end NAS systems to lower cost storage alternatives from multiple vendors. This process can be automated through Acopia's storage management policies, and takes place without inducing service outages or having to reconfigure clients.

Centralized Data Archiving and Disaster Recovery

A number of companies are consolidating their backup operations into central locations to reduce the cost and risk associated with decentralized backup. The Acopia ARX provides replication technology for large file-sets, using the existing IP infrastructure, to replicate critical data back to central data centers that have backup infrastructures. In addition, the ARX's replication technology can be used to provide cost-effective disaster recovery solutions between sites.



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