





## Federated Data Protection Architecture

Arkeia Software has developed a revolutionary new distributed architecture that allows centralized management of multiple instances of Arkeia Network Backup software. The federated architecture facilitates global backup and recovery policies and provides comprehensive control of remote o ce data.

**Centralized Management** - Centralized management policies can be implemented to ensure that corporate policy and legal or regulatory requirements are being met.



Figure 1. Global Policy screen. Set global, regional, and local policies.

## Integration with EdgeFort

Arkeia Network Backup version 7.0 provides full and seamless integration with EdgeFort appliances. Arkeia EdgeFort is an all-in-one backup and recovery appliance, leveraging Arkeia Network Backup software and a complete backup hardware system, including disk and an optional tape drive.

Integration with Arkeia EdgeFort appliances enables the ideal deployment of hardware, software, and/or appliances from the data center to the remote branch.

## New Web-Based User Interface

A completely redesigned Web-based graphical user interface with online help and wizards simplifies Arkeia Network Backup installation, configuration, and management.



Figure 2. Task Management screen.

## Designed for Speed

Arkeia Network Backup was designed from the ground up to move data quickly across the network and onto disk or tape. This focus on performance has resulted in lightning-fast backups which reduce backup windows and increase productivity. Key performance features include:

**Parallelism** – ANB architecture leverages parallel data streams from both the clients to the backup server (multi-ow) and from the backup server to tape (multiplexing). Parallelism allows for more than 200 simultaneous backup jobs and simultaneously writes on up to 32 tape drives using multiplexed streams.

**Disk Staging Optimization** – ANB does not require writing data to disk on the backup server. The data, when in memory, is never copied between protocol stacks (zero memory copy). This results in faster backups since there is no extra step of reading/writing to disk on the backup server.

**Compression** – Client-side compression reduces network traffic and increases backup throughput.

## Ultimate Flexibility

No two IT infrastructures are exactly the same, so Arkeia Network Backup offers flexible deployment options which allow highly granular and customizable data protection policies. Key features include:

**Implementation Flexibility** – ANB offers an easily customizable and extensible interface that sits on top of the core backup engine, so users can integrate Arkeia into existing data/network management solutions.

**Granularity** – Highly granular point-in-time restoration with simple to use catalog consolidated view. Backups preserve directory structure, registry, symbolic links, and special attributes such as ACLs.

## Deep Open Source Support

Arkeia Network Backup was the first enterprise solution for Linux and is the 'gold standard' for Open Source and Linux data protection. Arkeia Network Backup version 7.0 continues leadership to the Linux and Open Source community with features including:

**Linux Distributions** – ANB supports more than 30 specific packages supporting the most popular Linux distribution / processor combinations.

**Open Source Applications** – Arkeia was the first to market with data protection for open source applications and today offers the broadest support, including MySQL, PostgreSQL, Open-Xchange (including SLOX), and LDAP.

## Single Solution for All Platforms

Arkeia Network Backup has broad support for Windows, Linux, Unix, Netware, and Mac with specific, installable packages designed for the latest operating systems and processors. Additionally, ANB provides support for a wide range of applications and storage devices such as:

**Devices/Libraries** – ANB maintains a huge variety of storage devices, media, and library robotics with more than 600 devices supported.

**Applications & Databases** – ANB supports extensive modules for hot backup of online applications and databases such as DB2, LDAP, Lotus, MS SQL Servers, Open-Xchange, Oracle, and PostgreSQL.

**Bare Metal Restore** – Optional Automatic Bare Metal Restore for Linux and Windows machines for rapid system restores.

**LAN-free Backup** – Media server support allows local data backup (a storage node) and remote hosts to backup to locally and remote attached tape drive or SAN attached device.

## Remote Drive Management

Arkeia Network Backup enables granular tape or disk drive management remotely, including management of VTL and multi-ow/multiplexing of local backups and remote client backups.

## Granular Disk-to-Disk-to-Tape

Arkeia Network Backup enables granular backup of data directly to disk and migration of data to tape based on storage policy.

**Integrated VTL** – Flexible disk-based backup structure to allow faster backups and recovery, with 1 TB of disk capacity included.

**Granular File-level Migration** – Migration and archive policy can be set based on backup job (such as Arkeia Save Packs) or as granular as specially designated files (such as regulatory compliance-related or financial mandated files).

## Arkeia Options

Arkeia Options are available as additions to Arkeia Network Backup. Available options include:

- ( **Disaster Recovery Options**
  - Windows and Linux Server Disaster Recovery
- ( **Application & Database Modules**
  - MS Exchange Server
  - MS SQL Server
  - MySQL
  - Open-Xchange (including SLOX)
  - Lotus
  - Oracle
  - PostgreSQL
  - DB2
  - LDAP
- ( **NDMP**
  - 3-Way NDMP
  - V2 & V3 Supported

## Innovative Data Protection Features

Arkeia Network Backup leads with innovative features which ensure fast, highly reliable data protection for enterprises. Since its launch, ANB has delivered new features such as:

**Triple Backup Verification** – ANB deploys three levels of data consistency checking: read/write verification on the client, checksumming between the client and the backup server processes, and SCSI read/write verification. Multiple backup verification points ensure data backed up is actually backed up.

**Automatic SCSI Detection** – ANB automatically detects SCSI hardware and recognizes tape drive types.

**Client-side Encryption** – ANB encrypts data at the source, the client machine before transversing the network. The data is also encrypted on the storage media. Client-side encryption reduces backup windows by leveraging under-utilized processing of client machines (rather than Backup Server) and reduces the risk of sending unprotected data from client to Backup Server.

**NDMP Option** – Support for NDMP

**Enhanced VTL** – The highest level of granularity on how files, directories, and tapes are managed.

**Cruise Control** – Cruise control limits ANB bandwidth usage to avoid disturbing other network services.

## Optimized for SAN Environments

Arkeia Network Backup comes with an architecture designed for optimizing Storage Area Network (SAN) environments. The three tier storage node architecture enables flexibility to share and optimize SAN-attached storage devices and backup both local data and remote data.

## Highlights of Arkeia Network Backup Version 7.0

Federated Data Protection	Centrally manage multiple instances of ANB software
Integration with EdgeFort	Enable the ideal deployment of software and appliances from the data center to the remote branch
New Web-Based GUI	Online help and wizards make ANB easy to install, configure, and manage
Enhanced VTL	Provides the highest level of granularity on how files, directories, and tapes are managed
Extended Platform Support	Support for Novell OES 2, Mandriva 2008, Windows Server 2008, and Mac OS Leopard on Intel

# ARKEIA NETWORK BACKUP



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