

# eArray Director



## eArray Director™ Software

Managing the SANStor™ FC RAID Array with powerful, easy-to-use tools

eArray Director™ Software brings easy-to-use enterprise level storage management capabilities to the IMPEX SANStor™ Fibre Channel RAID Array

RAID SOFTWARE

## Software for the SANStor™ FC RAID Array

With its ability to manage storage growth, monitor complex storage systems, and maximize the amount of data managed by your staff, eArray Director allows you to realize a significant reduction in the ongoing cost of storage.

With minimal staff training, eArray simplifies the task of managing your system, freeing your IT personnel to address other important tasks. And eArray Director allows you to configure and reconfigure your system from a single site, reducing staffing needs and the expense of traveling to remote locations.

The eArray Director is a browser-based, remote configuration and management tool. The eArray Director uses Java™ technology via an applet running in a supported World Wide Web browser environment. The eArray Director's comprehensive user interface give storage administrators the flexibility to select the optimum balance of capacity, fault tolerance, data availability and I/O performance for their specific applications.

### Manageability

Configure, manage and monitor key elements of your IMPEX SANStor Fibre Channel RAID Array with eArray Director's tools and utilities. Use host-to-LUN mapping to consolidate storage resource pools and help maximize your RAID storage investment by utilizing your total storage capacity across multiple host environments.

### Availability

eArray Director provides uncompromising availability features, including:

- Microsoft clustering MSCS for Windows NT and Windows 2000
- VERITAS Volume Manager (VxVM) including Dynamic Multipathing (DMP), File System (VxFS), and the VERITAS Cluster Server (VCS)
- Transparent failover/failback with path monitoring and error reports
- Support for active/active operation: eArray Director keeps applications running through fault detection, automatic path failover and I/O rerouting. And with load balancing, eArray Director enhances system efficiency. Logical disks are presented in an array to the O/S over multiple fault-tolerant paths for continuous access to critical data.

### eArray Features:

- Centralized management (local or remote) for anywhere, anytime administration of IMPEX SANStor™ Fibre Channel RAID Arrays
- Easy-to-use Java™ based GUI for ease of system management
- Support for out-of-band management: Allows controllers and resources to be managed over IP
- Storage management architecture that scales with your system
- Continuous access to information with features such as rolling upgrades of firmware to allow online capacity expansion without interrupting access to data
- Automatic notification of system status, events, changes and errors

### eArray Director Tools

- The eArray Director has two components: eArray Director Server and eArray Director Client - each handling specific tasks based on a selected function.
- eArray Director for Java enabled browsers - a browser-based Client/Server RAID management solution to simplify remote RAID management, eliminating the need for client application installations.



## About IMPEX Technologies, Inc.

Founded in 1992, IMPEX Technologies, Inc. specializes in custom technology solutions that reduce costs, manage complexity and protect valuable information. With a wealth of in-house expertise and a network of marquee partners, IMPEX delivers end-to-end solutions through a combination of services, hardware and software. The company's clientele includes leading businesses and organizations from a variety market sectors, including finance, legal, government, education, media, telecommunications and healthcare.



SANStor™ FC RAID Array

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## Fault management

- SMART (Self Monitoring Analysis and Reporting Technology) reporting of drive statistics
- SCSI Accessed Fault-Tolerant Enclosures (SAF-TE)
- SCSI Enclosure Services (SES) support

## I/O management

- Multipath management
- Load balancing
- Active/Active configuration
- Configurable event notification and alerts via e-mail, pager, fax and application launch
- Event logging and filtering

## Client features

- Monitor and manage virtually unlimited numbers of server and disk array groups
- Configuration wizard for ease and automation in disk array set up
- M.O.R.E. (Mylex Online RAID Expansion) for increased storage online
- TCP/IP connectivity support
- SNMP-aware design and DMI Agent for compatibility with popular network management suites
- Log-in security based upon system administrator's operating system security settings

## Configuration functions

Configuration functions are easily performed using the Configure Unused Storage with Assistance Wizard, which simplifies the process of setting up or reconfiguring a disk array. This configuration tool provides heterogeneous platform RAID management, plus it gives you more information and control over your arrays, requires less training and provides for faster configuration. Just progress through the tabbed panels and answer a few questions, and the Configure Unused Storage with Assistance wizard does the rest.

## eArray Director requirements

The eArray Director architecture is a client/server relationship. The server and client can be run on the same system. Or, you can use a remote client to manage several servers.

## Server requirements

- eArray Director Server software component (included on CD-ROM)
- A PC with a 500 MHz Pentium® III (or higher) class processor, at least 256 MB of system memory, a CD-ROM drive, and a minimum of 200 MB of available space on a fixed disk And one of the following operating systems:
  - Windows NT® 4.0 with x6A or later; Windows® 2000 SR2 or later
  - Red Hat Linux 7.1 or 7.2 with kernel 2.4.x on x86 platform
  - Solaris 8 on a SPARC platform
  - Either of the following HTTP servers: Apache version 1.3.x or Microsoft® IIS version 5.0 or higher

## Client requirements

- PC with a 500 MHz Pentium III (or higher) class processor, at least 256 MB of system memory, and a minimum of 200 MB of available space on a fixed disk
- Netscape 4.5 or Internet Explorer 5.0 or higher with Java enabled with a 100Base-T or better data transfer rate
- Java 1.4.1 Web browser plug-in (included on CD-ROM)
- Minimum display screen of 800 x 600 pixels recommended
- Display color setting of at least 65,535 colors
- And one of the following operating systems:
  - Windows NT4.0 with x6A or later; Windows 2000 SR2 or later; Windows XP
  - Red Hat Linux 7.1 or 7.2 with kernel 2.4.x on x86 platform.
  - Solaris 8 on a SPARC platform

## Other storage management options:

- Command line interface --- a full featured RAID management product that meets manufacturing and non-GUI platform requirements. It allows configuration and management access to IMPEX SANStor Fibre Channel RAID Array via host operating system command line prompts.