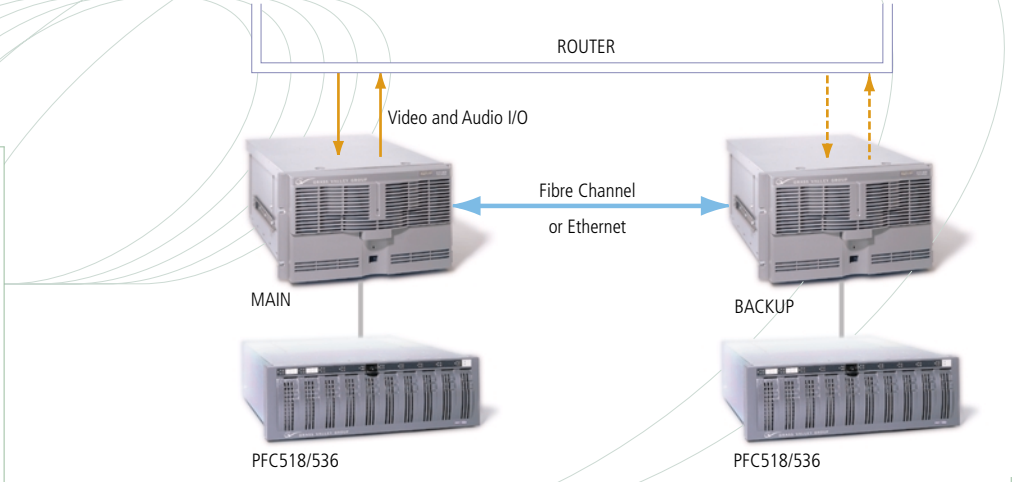
GRASS VALLEY GROUP

INSYNC

AUTOMATIC MIRRORING SOFTWARE FOR PROFILE

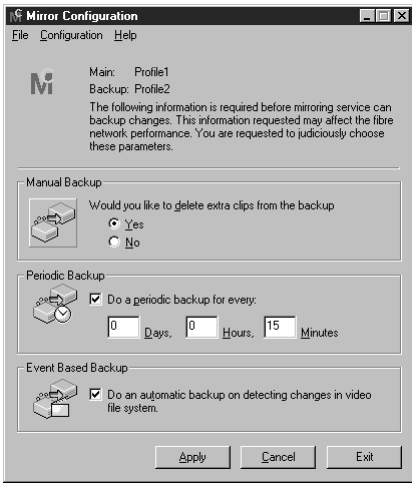
PRODUCT DATA SHEET

InSync automatically keeps two Profile file systems synchronized via Fibre Channel or 100-baseT Ethernet. Setup is easy and straight forward and operation is transparent to the user and the controlling application. If the "main" server goes off-line, the user switches the router to the "backup" server.



KEY FEATURES

- **NEW** Bi-directional mode
- Automatically keeps two Profile systems synchronized with identical content
- Supports PDR200/300/400 & PVS1000/2000
- Restores file system after repair
- Runs independent of application software
- Transparent operation
- Low latency
- Supports both Fibre Channel or Ethernet connections
- Any networked Profile server can be designated as backup
- Simple operation
- Error logging



Automatic Mirrored Operations

Regardless of how reliable any broadcast device is, for mission critical applications like broadcast, many facilities require full redundancy in their play-to-air servers. Normally the responsibility of the controlling application, disk mirroring can add significantly to the complexity of the application. Now with InSync, the task of mirroring is done within the Profile system. As such, it can operate with any application. InSync assures that the contents of two systems are maintained as a mirrored pair. In event of a failure the user routes control of the replay function to the Backup system which InSync keeps synchronized with the Main.

Mirrored Operations (Examples)

MAIN SERVER	BACKUP SERVER
New Clip/Group	Clip/Group copied to Backup
Delete Clip/Group	Clip/Group deleted on Backup
Edit File	Edit changes copied to Backup (user initiated or during periodic backup)

Mirroring takes place whenever a new file is recorded on the main server either via a baseband record or a network transfer.

MIRRORING OPTIONS

Users have three options for mirroring. Event based backup is the normal operation which initiates file transfers immediately and keeps the file systems synchronized as fast as possible. Manual backup resynchronizes the file systems when bringing a system back on line.

Operation When a Failure Occurs

If the Main server fails, or needs to be taken off-line for maintenance or updates, the Backup unit takes over as the Main allowing both record and replay operations to continue. When the unit is brought back on-line, InSync provides an Update mode, which performs a user initiated re-synchronization. Any changes made while the system was off-line will be reflected on the server when it is brought back on-line. With high-speed Fibre Channel networking, this re-synchronization occurs quickly.

In addition, when a server is taken off-line, a third server can be added to ensure continued mirrored operation.

SPECIFICATIONS

Profile Requirements

- Profiles should be configured identically[1]
- Storage on both units should be identical[2]
- Units need to be networked together
- Supports one Main and one Backup server
- Allows a substitute Backup server to be specified under failure conditions

Profile Network Connections

- Fibre Channel (requires opt 1F)
- Ethernet (requires opt 1L)

Start-up Modes

- Backup: copies Main files to the Backup
- Update: copies Backup files to the Main
- None: simply start the mirror process

Operating Modes

- Event Based: automatically mirror events as they occur on the Main
- Periodic: synchronize files system at user defined intervals
- Manual: manually synchronize files system
- Event based & Periodic Mirroring can be optionally disabled

1) *If not configured the same, care should be taken to ensure that the same number of active channels (channels used for record and play) are available on each system.*

2) *If storage systems are not the same, care should be taken to ensure that the unit with the least amount of storage sets the limit for operation.*

Ordering Information

PART NUMBER	DESCRIPTION
INSYNC	InSync Software: Single License. Distributed on CD with User Manual

License Requirements

- One License is required for each pair of Mirrored Profiles

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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