



MANAGED NETAPP® OFF-SITE REPLICATION SERVICE

KEY BENEFITS

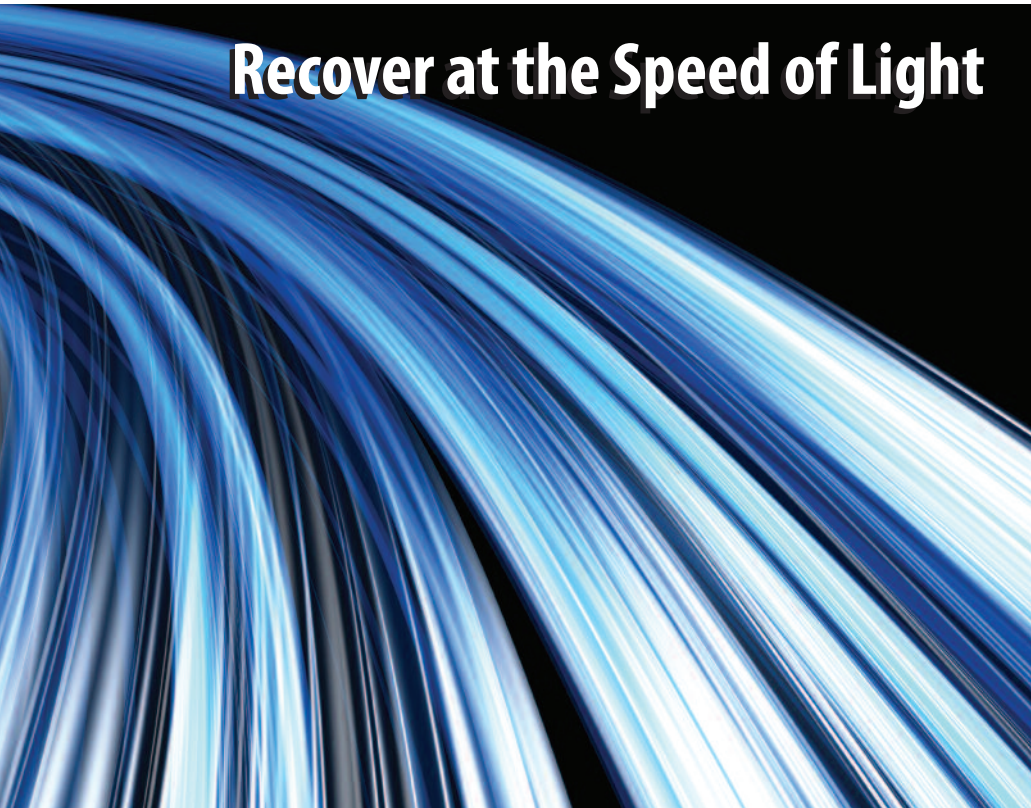
- Replication Eliminates Backup Window
- Instant, Off-site Backup Outside the Risk Zone
- Operating Expense vs. Capital Expense
- No In-House Skills Required
- Easy Integration with Existing NetApp Infrastructure
- More Secure than Tape
- NetApp Certified Solution

Off-site NetApp Replication at an Affordable Cost

Many companies have invested heavily in NetApp SANs but are still backing up to tape. Eliminating tape and replicating to an off-site location would be preferred, but for most organizations, high costs put this out of reach. In addition to the cost of a secondary SAN, you also need a secondary data center, switches, racks, power, and the staff to configure and monitor the SAN replication.

Backing up to tape means you are recovering your most critical data - data on your SAN - from tape in the event of a disaster. Not only is tape slow, it has a high failure rate and is difficult, if not impossible to perform complete DR testing from tape. Even if you successfully recover your data from tapes, you may have lost 24 hours worth of data. The recovery time objective of recovering your SAN environment from tape could easily exceed 72 hours or longer.

Recover at the Speed of Light



The Solution: Managed NetApp Off-Site Replication Service

IPR has a robust, state-of-the-art Business Continuity Center (BCC) with a highly trained staff and NetApp SAN infrastructure specifically configured for off-site replication and DR purposes. For a monthly fee, IPR provides managed replication from your NetApp Filer(s) to one of the NetApp Filers located in our BCC.

Offsite Dedicated Data Protection:

- Without capital investment
- Without administration burden
- Without needing second facility
- Leverage the full power of your SAN investment by utilizing NetApp replication tools
- 365x24x7 managed, operated and maintained data replication service
- Fast recovery time for your replicated data over the network or delivery of a Mobile Filer to your DR site
- Provision of optional standby fail-over servers at the BCC (IPR Assured Recovery Services)
- DR Storage On Demand - storage dynamically grows with your production SAN growth

NetApp
Innovation Awards 2008

IPR is a proud Nominee of the
2008 NetApp Innovation Award

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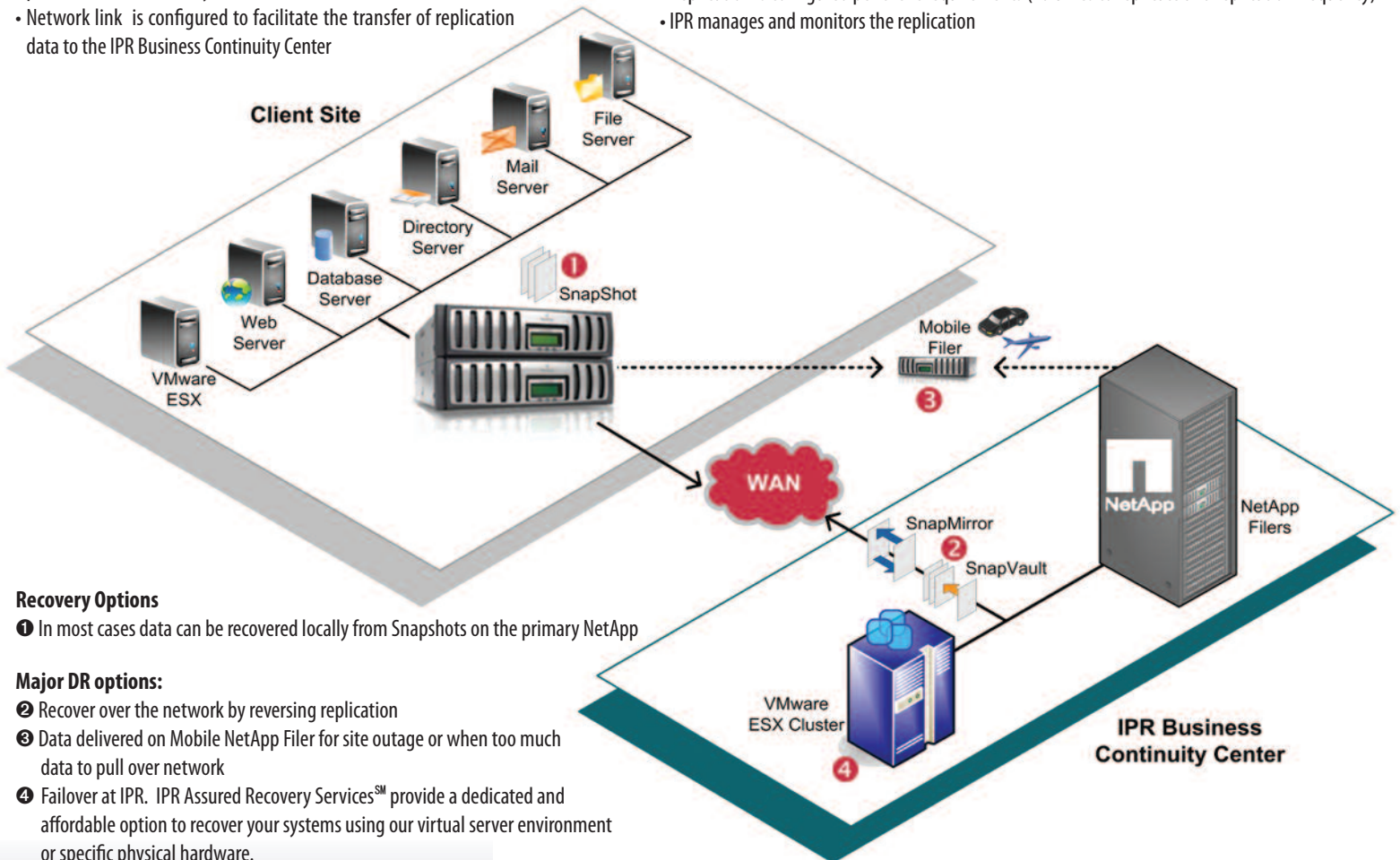
EXPERIENCE
Founded in 1998
IPR Protects Client Data in 17
Countries around the Globe

Client Site:

- Primary NetApp: Required SnapMirror® and SnapVault® licenses are procured and installed by client
- Network link is configured to facilitate the transfer of replication data to the IPR Business Continuity Center

IPR Business Continuity Center

- IPR provides secure access to a NetApp storage system
- Replication is configured per client requirements (volumes to replicate and replication frequency)
- IPR manages and monitors the replication



Recovery Options

- 1 In most cases data can be recovered locally from Snapshots on the primary NetApp

Major DR options:

- 2 Recover over the network by reversing replication
- 3 Data delivered on Mobile NetApp Filer for site outage or when too much data to pull over network
- 4 Failover at IPR. IPR Assured Recovery ServicesSM provide a dedicated and affordable option to recover your systems using our virtual server environment or specific physical hardware.

Assumptions

- Client is responsible for SnapMirror or SnapVault Licensing at their site (source site)
- IPR is responsible for SnapMirror and SnapVault Licensing at IPR data centers (destination site)
- Asynchronous Replication Mode (if SnapMirror is used)
- Data ONTAP version 7G or later with Volumes configured as FlexVol
- Source machines must be configured to satisfy SnapMirror and SnapVault requirements
 - Adequate space must be allocated to support SnapMirror and SnapVault
 - Change rates, RTOs, RPOs, retentions, and bandwidth may require regrouping volumes by data with similar characteristics

ADDITIONAL IPR MANAGED SERVICES

In addition to Managed NetApp Replication Services, IPR International provides a complete set of managed services providing total data protection:

- Additional data center space or racks for your secondary application servers within IPR data centers
- Disaster Recovery Services
- Server Replication
- Data Backup (Server & PC)
- Email, File and Image Archiving



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