



Disaster Recovery Plans Rely on Emulex Adapters

Emulex adapters deliver superior performance and reliability for disaster recovery

At a Glance

Disaster recovery plans (DRP) have many elements, and a key one is protecting the organization's data. A DRP will include the process, policies and procedures related to preparing for recovery or continuation of technology infrastructure critical to an organization after a natural or human-induced disaster. Storing data offsite is crucial. After a disaster, a quick recovery is essential. Emulex delivers reliable and high performance connectivity to enable fast and reliable disaster recovery with its LightPulse® Fibre Channel 8Gb/s Host Bus Adapter (HBA) while Emulex OneCommand™ Manager provides centralized management of all Emulex adapters in the organization, whether remote or onsite.

Products

- Emulex LightPulse 8Gb/s Fibre Channel HBA
- Emulex OneCommand Manager

Solution Benefits

- Emulex LightPulse Fibre Channel 8Gb/s HBAs deliver superior performance for disaster recovery
- Emulex boasts the highest reliability in the industry with field proven 10 million hours mean time between failure (MTBF)
- Emulex OneCommand Manager delivers enterprise scalability

Disaster Recovery

A DRP, sometimes referred to as a business continuity plan (BCP) or subset of such, describes how an organization will handle a potential disaster such as a fire or flood or any event that makes the continuation of normal functions impossible. A DRP consists of the precautions taken so that the effects of a disaster will be minimized and the organization will be able to either maintain or quickly resume mission critical functions.

The most common strategies for IT disaster recovery are:

- Tape: Backup to tape and send offsite at regular intervals
- Disk: Backup to disk onsite and automatically copy to offsite disk, or backup directly to offsite disk
- Replication of data to an offsite location, which overcomes the need to restore the data (only the systems then need to be restored or synced)
- High availability systems which keep both the data and system replicated offsite, enabling continuous access to systems and data

Tape-based backup is not used as often as a decade ago for disaster recovery. While tape backups are good for some data, tape is actually inadequate for disaster recovery situations. There is too much room for human error which could cause catastrophic delays in restoring data.

As disk technology improves and costs come down, data centers are more often backing up data directly to disk. Fast backup and recovery speeds and reliable performance are needed to more effectively use disk technology.

Disaster recovery using replication or remote backup technologies has become more viable with data deduplication which addresses the issue of backing up data that occurs frequently. Data deduplication technology stores only one instance of duplicated data, therefore there is less data to transmit over the wire which reduces the burden on bandwidth. Without data deduplication, remote disk-based disaster recovery strategies have been too costly because of Wide Area Network (WAN) bandwidth requirements and overall inefficiency. However, with data deduplication, remote backups and replication have become viable disaster recovery options as the amount of data saved in disk-to-disk backup and WAN replication is greatly reduced (1:30 or higher).



Disaster Recovery Plans Rely on Emulex Adapters

The Emulex Solution

Emulex has long delivered superior performance and reliability with its LightPulse 4Gb/s Fibre Channel HBA. To meet the needs of disaster recovery solutions, the Emulex LightPulse Fibre Channel 8Gb/s HBA is the proven HBA of choice.

While all enterprises should have a DRP, many do not. Enterprises that have created a DRP benefit from:

- Best practices for business continuity in case of a disaster
- Cost savings from centralized IT operations that eliminate the need for onsite support technician
- Less risk since uniform backup policies can be administered from a centralized IT department

For any disaster recovery initiative, the Emulex LightPulse Fibre Channel 8Gb/s HBA delivers superior performance in both speed and reliability. With OneCommand Manager and its centralized management of all Emulex adapters in the organization, Emulex provides the enterprise scalability and support needed for any disaster recovery plan.

As new disaster recovery technologies are evaluated, data center administrators using the Emulex LightPulse Fibre Channel 4Gb/s HBA can easily upgrade to the Emulex LightPulse Fibre Channel 8Gb/s HBA to double their backup and recovery speed. Data center administrators considering the Emulex LightPulse Fibre Channel 8Gb/s HBA for the first time can check the Emulex Interoperability site* for a list of the leading data center solution providers who have tested and approved Emulex Fibre Channel HBAs.

* www.emulex.com/support/interop.jsp

Emulex delivers:

Superior HBA performance for faster backup and recovery

- 37% better transaction rates
- 33% more effective CPU utilization
- 127% greater second channel I/O transaction performance
- Better multi-port scalability

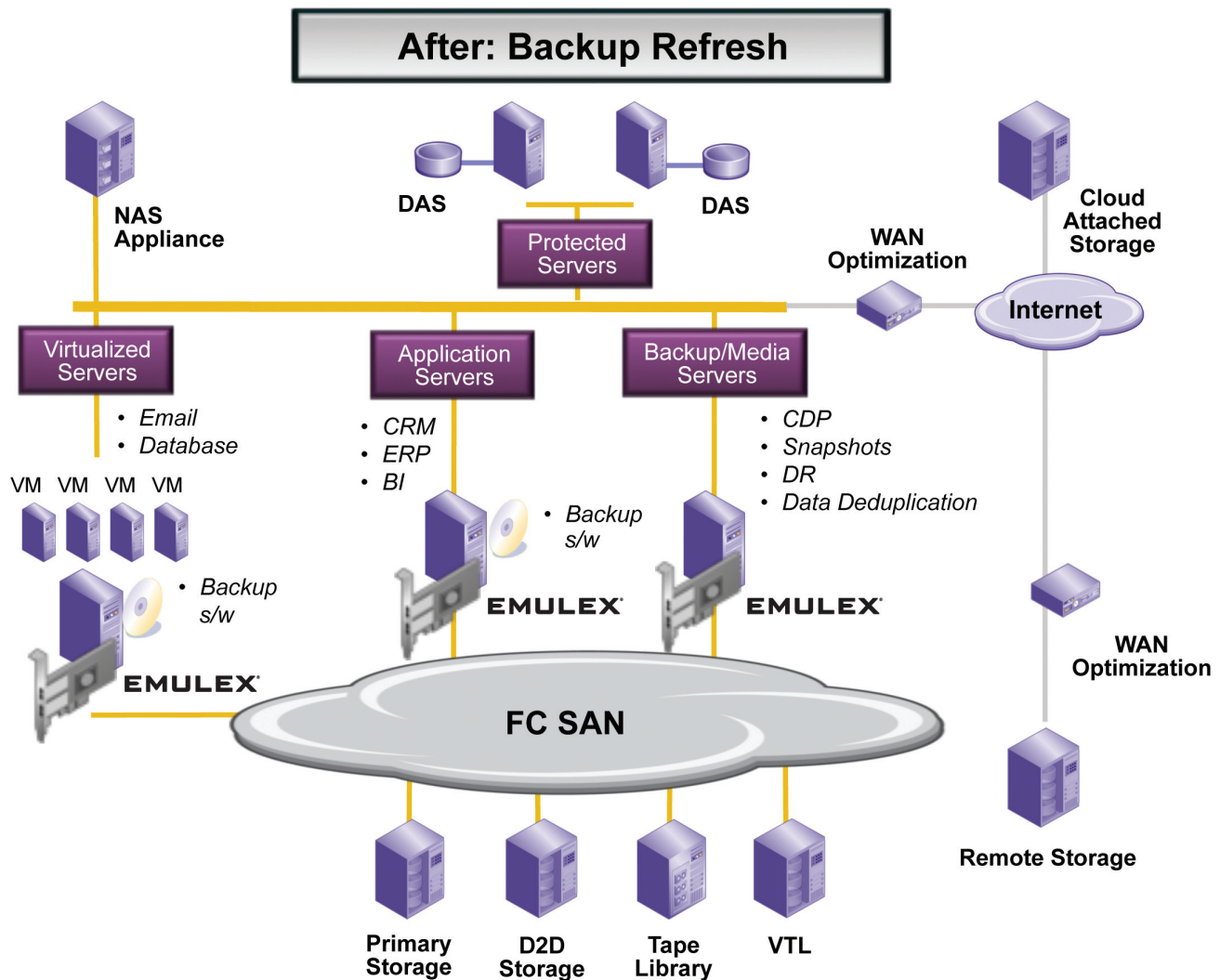
Higher availability for reliable backup and recovery

- Industry's most reliable HBA based on actual field return data
- 30% higher reliability over nearest competitor
- More than 10 million hours MTBF

Streamline management for reduced costs and enterprise scalability

- Secure and centralized management of Emulex Fibre Channel HBAs
- Broad OS support ensures seamless integration into enterprise SAN environments
- Emulex standards-based software and management tools provide ease of deployment and management for adapters onsite or remote

Disaster Recovery Plans Rely on Emulex Adapters



Summary

Emulex excels at delivering Fibre Channel SAN connectivity. Data centers with a disaster recovery solution require fast and reliable performance. For any disaster recovery initiative, the Emulex LightPulse Fibre Channel 8Gb/s HBA delivers superior performance in both speed and reliability while Emulex OneCommand Manager delivers enterprise scalability. Data centers can trust Emulex to ensure their disaster recovery plan is fully secure at the SAN level.



World Headquarters 3333 Susan Street, Costa Mesa, CA 92626 +1 714 662 5600
Wokingham, UK +44 (0) 118 977 2929 | **Munich, Germany** +49 (0) 89 97007 177
Paris, France +33 (0) 158 580 022 | **Beijing, China** +86 10 68499547
Tokyo, Japan +81 3 5322 1348 | **Bangalore, India** +91 80 40156789

Connect with Emulex

twitter.com/emulex
[friendfeed.com/emulex](https://www.facebook.com/emulex)
bit.ly/emulexlinks
bit.ly/emulexfb

www.emulex.com

©2010 Emulex, Inc. All rights reserved. This document refers to various companies and products by their trade names. In most, if not all cases, their respective companies claim these designations as trademarks or registered trademarks. This information is provided for reference only. Although this information is believed to be accurate and reliable at the time of publication, Emulex assumes no responsibility for errors or omissions. Emulex reserves the right to make changes or corrections without notice. This report is the property of Emulex and may not be duplicated without permission from the Company.