

A Fresh Look at the Mainframe

Keep Your Business Running When Disaster Strikes

What Are ODI's Needs?

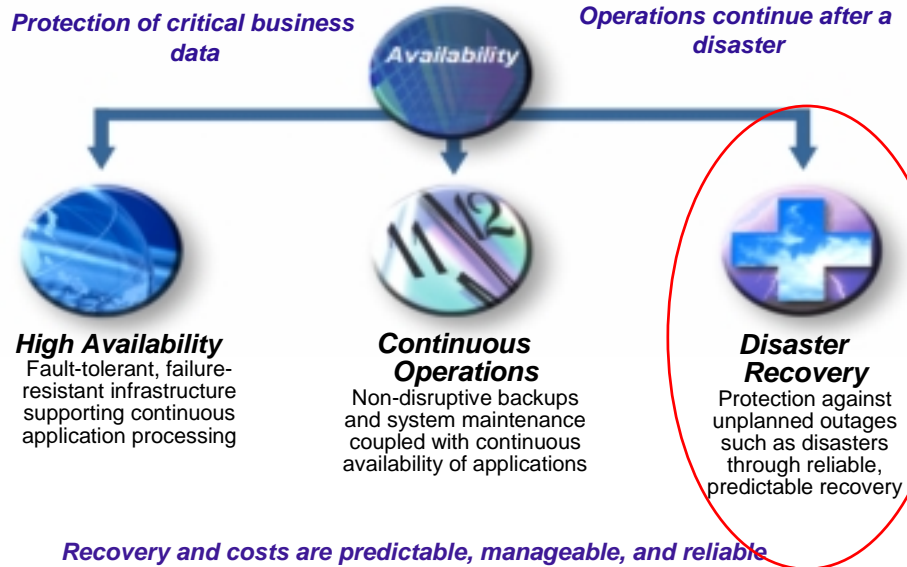
- ODI is a worldwide insurance company
- In times of disaster ODI has to be very visible and reliable
- ODI must have its systems continuously available at all times

I can't afford to lose any data, and I want to be online in one hour after a disaster



On Demand Insurance
CIO

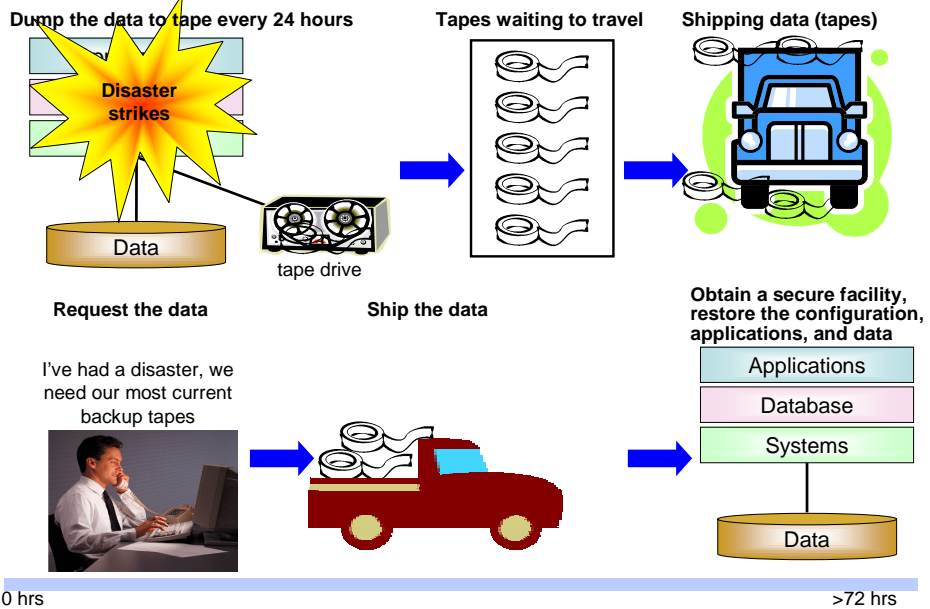
Aspects of Availability



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Pick-up Truck Access Method (PTAM)

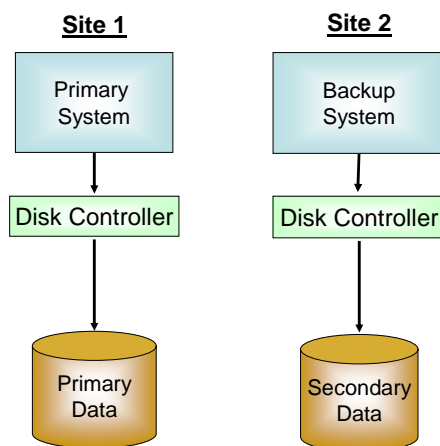


A Better Solution - GDPS

- GDPS is a software capacity to fail over to an alternate (backup) site
- It has been ushered in by an increase in the amount of security breaches, regulatory requirements, and unfortunately by the events of 9/11/2001
- With GDPS, customers can be up and running within one hour following a disaster, with no data loss

GDPS

- GDPS manages the application environment, and the consistency of data
- It providing full data integrity (across volumes, subsystems, operating system platforms and sites)
- It provides the ability to perform a normal restart in the event of a site switch, thus minimizing the duration of the outage



GDPS Uses Restart to Improve Failover Time

■ Achieve Application and Database Restart

- ▶ Consistent, repeatable, fast
- ▶ Database Restart: To start a database application following an outage without having to restore the database
 - This is a process measured in minutes



■ Avoid Application and Database Recovery

- ▶ Unpredictable recovery time, usually very long and very labor intensive
- ▶ Database Recovery:
 - Restore last set of Image Copy tapes and apply log changes to bring database up to point of failure
 - This is a process measured in hours or even days

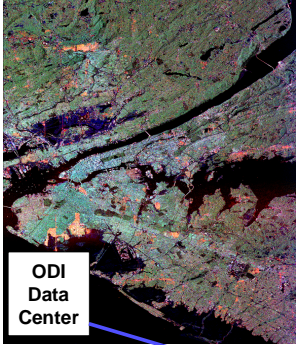


GDPS Disaster Recovery Solutions – Depending on Distance

GDPS/Metro Mirror	GDPS/Global Mirror
Synchronous. Application impact with distance	Asynchronous. No application. impact
Up to 100 km	Virtually unlimited distance
zSeries & Open Data	zSeries Data <ul style="list-style-type: none"> • z/OS • Linux on zSeries LPAR or Guest • VM, VSE (consistent data if 1 CU)
Single Sysplex spanning configuration	Requires additional MIPS on secondary site to support System Data Mover (SDMs)
Highly Scalable. Unlimited configuration	Highly Scalable. Up to 285 coupled SDMs

ODI's Data Centers


NYC



ODI Data Center

- The heartbeat of the primary system is listened to by the backup system or controlling system
- ODI has chosen to locate its remote data center in the Morristown, N.J. area which is approximately 80 kilometers from NYC

Morristown, N.J.

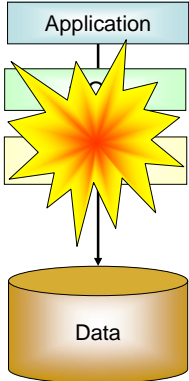


Remote Data Center

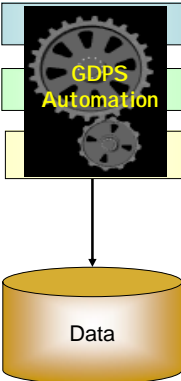
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GDPS – Switchover

Site 1



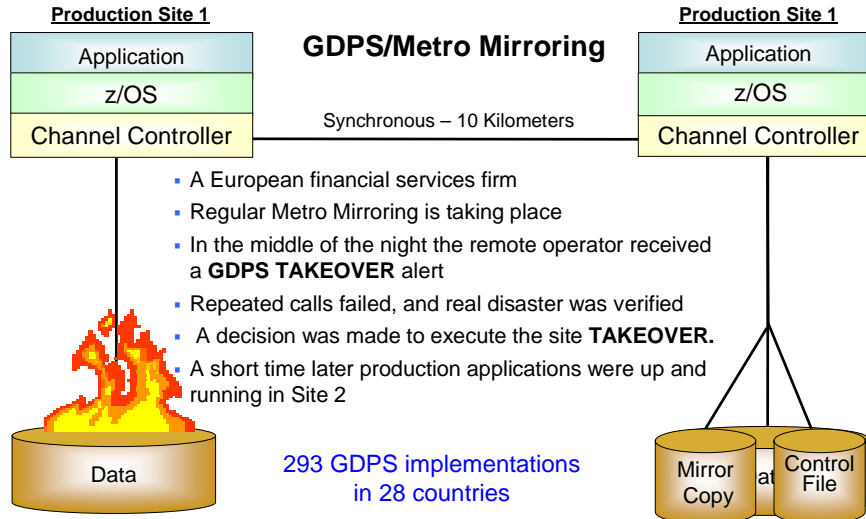
Site 2



- Site #1 is the Primary running Production and Site #2 is the backup also running Production, but less critical.
- Volumes are being continuously mirrored via the Metro Mirroring component
- When a Disaster strikes, GDPS issues a freeze then resets all production systems
- GDPS will take over and automates all the steps for restart
- Site 2 is the production site

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GDPS – A Real Disaster – Fire



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