A Fresh Look at the Mainframe

Keep Your Business Running When Disaster Strikes

The Day After a Disaster....

- Do you want to be in a backup location running all your critical business applications?

- Or, do you want to be scrambling around looking through non-water logged backup tapes that work, and a set of operators to mount the tapes?

- If you want to be up and running you need to plan for business continuance and disaster recovery.
I've had a disaster, we need our most current backup tapes.

Some Key Data Points To Consider

- **Recovery Point Objective (RPO)** – The amount of data that ODI is willing to recreate following a disaster. An RPO of zero means no data loss.

- **Recovery Time Objective (RTO)** – The amount of time ODI can wait to have their I/T organization providing services following a disaster. Smaller is better.

- Customers on the whole have achieved an RPO of zero, and less than 1 hour RTO using the System z Geographically Dispersed Parallel Sysplex / Peer to Peer Remote Copy (GDPS/PPRC) solution.
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
- ODI has selected to be at near zero or zero data loss of its mission critical applications
- System z Geographically Dispersed Parallel Sysplex (GDPS) can meet these requirements

I can’t afford to lose any data, and I want to be online in one hour

On Demand Insurance CIO

ODI’s Data Centers

- 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

NYC

ODI Data Center

Morristown, N.J.

Remote Data Center
Geographically Dispersed Parallel Sysplex

Workload that can be expendable

Responsible for carrying out all recovery during DR

GDPS – A Real Disaster – Fire

A European financial services firm
Regular PPRC Metro Mirroring is taking place
In the middle of the night the remote operator received a GDPS TAKEOVER alert
Repeated calls failed, and real disaster was verified
A decision was made to execute the site TAKEOVER.
A short time later production applications were up and running in Site 2

293 GDPS implementations in 28 countries
Two Solutions Available – Depending on Distance

- **Continuous Availability / Disaster Recovery within a Metro Distances**
  - (100 kilometers – zero data loss)
  - GDPS/PPRC
  - Systems remain active
  - Multi-site workloads
  - Household International (HSBC)
  - Bank of Scotland

- **Continuous Availability Disaster Recovery**
  - (Unlimited distance – Loss of data in flight)
  - GDPS/XRC
  - High availability for site disasters
  - Disaster recovery for regional disasters
  - Pershing
  - Principal Financial Group

GDPS/PPRC Metro Mirroring

- The GDPS/PPRC Metro Mirroring solution will keep us in business if disaster strikes
- On Demand Insurance
- CIO