Helping reduce IT outages and their effects to support business continuity

IBM Implementation Services for GDPS/PPRC HyperSwap Manager

Supplying continuous data availability technologies for your business

Helping improve continuous availability and disaster recovery capabilities

As your company moves into on demand business environments, so does your dependency on information technology (IT). Downtime or outages can bring critical business processes to a halt, resulting in lost productivity and revenue.

Undisrupted, continuous availability of IT systems can help you stay in business. Unfortunately, the size and complexity of modern IT systems makes it increasingly difficult to deliver committed service, especially when manual processes and human intervention are required.

An IBM System z™ Parallel Sysplex® environment has been designed to reduce outages by replicating hardware, operating systems, and application components. In spite of this redundancy, having only one copy of the data is an exposure. IBM Implementation Services for GDPS®/ PPRC HyperSwap™ Manager delivers the control code that manages the

Highlights

- Protects your core business operations by keeping your critical data available
- Helps reduce management costs and speed remote copy implementation
- Includes onsite delivery, configuration, implementation, and testing of GDPS control code
- Helps you stay in business when both planned and unplanned disk subsystem outages occur
- Provides continuous data availability in a data center by transparently swapping disk subsystems on failure
- Provides entry-level disaster recovery capability in two-site configurations
data replication environment and automates switching between the two copies of the data with reduced risk of an application outage, thereby helping provide continuous access to data.

GDPS/PPRC HyperSwap Manager helps simplify the control of the data replication environment in a single sysplex within a data center or across two sites at supported distances. In a two-site configuration, this solution is designed to provide entry-level disaster recovery capability at the remote site. GDPS/PPRC HyperSwap Manager uses IBM HyperSwap technology, a proven key component of the full function IBM GDPS/PPRC (Geographically Dispersed Parallel Sysplex®/Peer-to-Peer Remote Copy) implementation since June 2003.

IBM Implementation Services for GDPS/PPRC HyperSwap Manager combines technical expertise with remote copy functionality, and HyperSwap and automation technologies. IBM’s GDPS specialists will work with you to plan, implement, and test your solution to meet your data availability requirements. In addition, we’ll educate your staff throughout the process. IBM offers an effective way to help improve your continuous availability and disaster recovery capabilities.

Helping save money and speed delivery
IBM helps you reduce costs, speed delivery, and ensure a successful implementation by working with you on upfront project planning to determine your availability requirements and develop detailed implementation and test plans.

This solution provides some of the benefits of a full GDPS implementation at a lower cost and can help you grow into a full GDPS/PPRC implementation in the future, while helping to protect the investment made in this data availability solution.

Working to protect your valuable resources
GDPS/PPRC HyperSwap Manager is designed to manage the remote copy configuration and storage subsystem(s), and protect against data loss due to planned or unplanned primary disk outages.

GDPS/PPRC HyperSwap Manager masks disk subsystem failures by dynamically swapping from the primary disk subsystem to the secondary disk subsystem keeping data available to end-user applications. In the event of a site disaster, the features of the PPRC (Metro Mirror) technology, along with the GDPS/PPRC HyperSwap Manager capabilities, provide a consistent copy of the data.

In addition to managing Metro Mirror operations, GDPS/PPRC HyperSwap Manager also provides support for the IBM FlashCopy® function. When you are ready to re-synchronize your primary and secondary disks following a PPRC suspension event, GDPS/PPRC HyperSwap Manager can be set up to automatically take a FlashCopy snapshot of the secondary disks, helping to ensure a consistent set of disks are preserved should there be a disaster during the resynch operation.

Supporting continuous operations
GDPS/PPRC HyperSwap Manager is also designed to provide you with the ability to perform planned site switches. Using the panels provided, you can control the swapping of primary and secondary disks in preparation for a planned site switch.

You still have responsibility for stopping and restarting the systems. However, the task of swapping disks is greatly simplified with GDPS/PPRC HyperSwap Manager. Other GDPS solutions offer expanded functionality. If you’re interested in automating the restart of system, workload, network and other tasks, ask us about full function GDPS/PPRC implementation.
Helping reduce costs and improve resiliency through easier operations

The GDPS/PPRC HyperSwap Manager provides the panel interface that makes it far simpler to manage the remote copy configuration. Easier operation can result in fewer mistakes, improved availability, and potentially reduced costs.

Providing flexible solutions for your unique environment

GDPS/PPRC HyperSwap Manager offers you flexibility because it is application and data independent. As a result, you can avoid having different and complex recovery procedures for each of your database managers.

Relying on the experience of a global team of service specialists

Implementation Services for GDPS/PPRC HyperSwap Manager is a project-based service product that contains the following components:

- **Planning to determine availability requirements, configuration recommendations, implementation and testing plans** (planning session topics include hardware and software requirements and prerequisites, configuration and implementation considerations, operation and control)
- **GDPS/PPRC HyperSwap Manager control code installation and policy customization**
- **Education and training on GDPS/PPRC HyperSwap Manager setup and operations**
- **Onsite implementation assistance**
- **Project management and support throughout the engagement**
- **One year of ongoing support services for the GDPS/PPRC HyperSwap Manager control code, providing regular maintenance and access to the IBM GDPS support center**

IBM Global Services specialists can help you keep your business up and running with a range of services to meet your availability and recovery needs. By working with you to improve performance and availability, IBM helps you reduce costs and increase the value of your IT investments.

With this solution, you can continue to focus on your business critical activities while IBM helps you get the most out of your investment.

Prerequisites

For IBM to perform this service, you must have the following elements.

Hardware requirements:

- **PPRC capable disk subsystems at PPRC Level 3 technology (disk subsystems that support Extended CQUERY)**
- **If GDPS/PPRC HyperSwap Manager control code is running under IBM z/OS® V1.3 through z/OS V1.5, a 9672-G5, 9672-G6, or IBM System z server is required**
- **If GDPS/PPRC HyperSwap Manager control code is running under z/OS V1.6 or later, an IBM System z server is required**

Software requirements:

GDPS/PPRC HyperSwap Manager runs on the currently supported releases of z/OS and z/OS.e. The z/OS images must be part of a multisystem sysplex. A Parallel Sysplex environment is not required. In addition, the following software products are required:

- **IBM Tivoli® System Automation for GDPS/PPRC HyperSwap Manager with IBM Tivoli NetView® V1.1 or later**
- Tivoli NetView for z/OS V5.1 or later together with one of the following:
  - System Automation for GDPS/PPRC HyperSwap Manager, V1.1 or later
  - System Automation for z/OS V2.2 or later

The prerequisites listed may not contain the latest requirements for this service. For a current list of prerequisites, consult your IBM representative.

For more information
Please contact your IBM representative or IBM Business Partner, or visit:

ibm.com/services/server
Search for “GDPS.”