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Product Brief

MIM™ Resource Sharing

Key Benefits

- **Simplify operations** by automating hardware resource sharing across up to 32 systems.
- **Reduce costs** by sharing hardware resources and offloading MIM Resource Sharing work to cost-effective zIIP engines.
- **Reduce risks** by exploiting continuous operations capabilities to dynamically change MIMplex configuration.

Key Features

- **zIIP Exploitation:** Offloads its work from general processors to zIIP engines.
- **HyperStar Service:** Reduces VCF processing overhead and improves system throughput.
- **Dynamic Reconfiguration:** Changes MIMplex operating characteristics without service outages.
- **Restart Manager:** Automatically resumes normal serialization processing after incurring normally fatal errors without risk to data integrity and allows product maintenance to be activated without stopping and restarting the MII Data Sharing address space.
- **Robust, Cross-System Communications:** Uses XCF services, XES list structures, CTC devices, shared DASD files and hybrids of each, to deliver high-performance and high-availability data sharing.
- **Health Checks:** Self-detects data sharing anomalies and surfaces exceptions.

Overview

MIM™ Resource Sharing streamlines and automates the sharing of DASD, tape devices and console messages and commands traffic safely and efficiently in multisystem IBM z/OS, z/VM and z/Linux environments. This product family allows mainframe data centers to improve system operator and programmer productivity, improve system throughput, protect valuable information and maximize hardware investments.

Business Challenges

Managing critical mainframe resources with reduced staffing and skill sets is an increasing concern for dynamic, large-scale data centers. Sharing and automating the management of tape devices, DASD resources and console data improves operator productivity, system throughput, and reduces infrastructure costs.

Solution Overview

MIM Resource Sharing is designed to protect mainframe environments from data integrity exposures and enforce policies that prioritize and maintain high levels of resource utilization. This robust solution enables sharing of system resources using high-availability and high-performance operating characteristics that reduce data center costs, risks and complexity. MIM Resource Sharing centralizes the management of DASD, tape devices and console traffic across any combination of sysplex and non-sysplex systems and across z/OS and z/VM platforms.

The product family comprises three components which can be licensed as a whole or individually:

- **MIA Tape Sharing:** Automates tape device sharing and tape device allocation selection.
- **MII Data Sharing:** Protects DASD data integrity automatically and speeds resolution of DASD data set access conflicts locally and across systems.
- **MIC Message Sharing:** Enables enterprise-wide control and management of console information.

Related Products

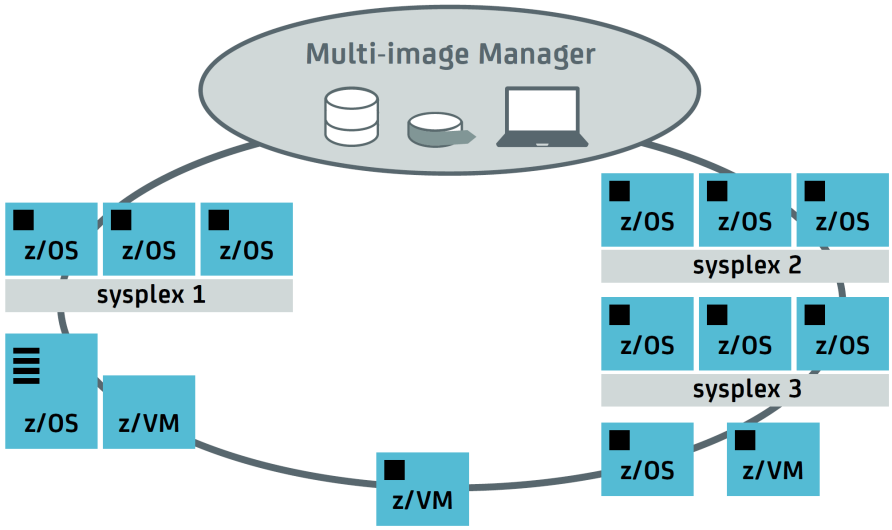
MIM Resource Sharing integrates with these other mainframe automation and systems management tools:

- OPS/MVS® Event Management and Automation
- SYSVIEW® Performance Management
- Remote Console™

Supported Environments

- z/OS
- z/VM
- z/Linux
- Single sysplex
- Multiple sysplexes
- Partitioned systems
- Stand-alone systems
- Non-sysplex systems
- Geographically remote systems
- Non-sysplex and sysplex systems
- Geographically disperse Parallel Sysplex
- Subsets of systems within a Parallel Sysplex

Heterogeneous Enterprise using MIM Resource Sharing Components



Critical Differentiators

- MIM Resource Sharing zIIP allows over 90 percent of its work to be offloaded to zIIP engines in VCF environments. DISPLAY CPUTIME shows CP and zIIP usage, offload percentages and actual savings. Integration with SYSVIEW Performance Management (SYSVIEW) allows operators and programmers to monitor data sharing.
- MIM MIMQUERY feature provides a real-time method for requesting accurate DASD resource usage information for the entire DASD-sharing MIMplex.
- MIA Tape Sharing delay, detection and notification (DDN) monitors global tape device activity and surfaces alerts when delays are detected; ANALYZE TAPEDELAY helps identify root cause. MIA Tape Sharing offers granular tape device selection and exclusion capabilities and is the only tape device sharing solution allowing sharing between z/OS, z/VM and Linux.
- MIC Message Sharing routes messages and commands among up to 128 systems geographically remote systems. It creates customized function-specific consoles based on a variety of message criteria and integrates with OPS/MVS Event Management and Automation, SYSVIEW and Remote Console to extend event automation.
- MII Data Sharing options deliver robust DASD data integrity controls. It helps resolves DASD ENQ conflicts with operator alerts, Job Re-queue, TSO AUTOFREE and DP boost capabilities.

For more information, please visit www.broadcom.com/solutions/mainframe/aiops.

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