Metro Mirror - Synchronous mirroring available on DS8000, DS6000, and ESS

Designed to provide:
- No data loss
- Industry leading replication performance
- High Availability with GDPS™ HyperSwap™
- System z™ and open systems data
- Ease of use, lower cost

DS6000/DS8000 - Data Replication

Data Replication Options:
- FlashCopy® (FC) (within Box)
- Metro Mirror (MM/PPRC) (Sync Copy)
- Global Copy (GC) Async Copy, No Consistency
- PiT Incremental FC to MM, GC, or GM Primary
- Global Mirror (GM) Async Copy
- Global Mirror for zSeries® (zGM)
- Metro Global Mirror (MGM)
- zGM + MM/PPRC Multi-Target (MzGM)

Managed by:
- TotalStorage® Productivity Center – Replication Manager (TPC-R)
- Geographically Dispersed Parallel Sysplex (GDPS)

(See integrated solutions on inside flap.)

April 2007
Global Mirror - Asynchronous mirroring available on **DS8000™, DS6000™, and ESS**

- DS6K/DS8K/ESS designed to provide:
  - Capability to achieve an RPO of 3-5 seconds with sufficient bandwidth and resources
  - Do not impact production applications when insufficient bandwidth and/or resources are available
  - Scalable; providing consistency across multiple primary and secondary disk subsystems
  - Allow for removal of duplicate writes within a consistency group before sending data to remote site
  - Allow for less than peak bandwidth to be configured by allowing RPO to increase without restriction at peak times
  - Provide consistency between System z and open systems data and between different platforms on open systems.

### Metro / Global Mirror – Three-site synchronous and asynchronous mirroring
**Available on DS8000**

- Designed to provide:
  - **Performance, scalability**
    - Metro Mirror, Global Mirror
  - **Satisfy all 3-site requirements:**
    - Fast failover / failback to any site
    - Fast re-establishment of three-site recovery, without production outages
    - Resynchronize any site with incremental changes only*
  - **Ease of use, autonomic, self-monitoring**

![Diagram of Metro / Global Mirror](image)


IBM, the IBM logo, FlashCopy, HyperSwap, System z, GDPS, DS6000, DS8000, z/OS, zSeries, TotalStorage, and DFSMS are trademarks of International Business Machines Corporation in the United States, other countries or both.

Linux is a registered trademark of Linus Torvalds in the United States, other countries, or both.

---

zOS Global Mirror -- Asynchronous mirroring for System z available on **DS8000 and ESS 800**

- Designed to provide:
  - Premium performance and scalability
    - Data moved by DFSMS™ System Data Mover (SDM) address space(s) running on z/OS.
    - Supports heterogeneous disk subsystems
  - Unlimited distances
  - Time consistent data at the recovery site
    - RPO within seconds
  - Supports System z™ and System z Linux® data
  - Over 200 installations worldwide
  - 3-Site GDPS®/PPRC HyperSwap and GDPS/XRC “Multi-Target” Supported

---

Metro / zGlobal Mirror – Multi-Target (MzGM) - Three-site synchronous and asynchronous mirroring Available on **DS8000**

- Designed to provide:
  - **Performance, scalability**
    - Metro Mirror, zGlobal Mirror
  - **Satisfy all 3-site requirements:**
    - HA and CA capability for Metro distance
    - Out of region DR with fast recovery
    - Resynchronize any site with incremental changes only*
  - **Ease of use, autonomic, self-monitoring**

---

**DS8000, ESS Global Mirror**

---

© 2007 IBM Corporation