



Keep Your Disaster Recovery Site Synchronized With Your Production Site, Automatically.

Serena ChangeMan SSM System Software Manager accelerates recovery time, and is a proven solution for Business Continuity issues.

- Reduce the volume of data transferred to your Disaster Recovery site
- Accelerate Hot Site activation
- Eliminate full tape back ups or disk mirroring

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Threats to business continuity come in all shapes and sizes, from natural disasters like earthquakes and floods, to acts of terrorism and failures in third-party communications lines. While some business interruptions remain beyond your control, minimizing their effects is well within your grasp. Protecting your system software is key to returning to normal, or at least serviceable, levels of operation as quickly as possible - and with escalated costs of down time, every minute you improve your response time will have a direct impact on your bottom line. Disaster recovery plans and hot site operations are important steps to ensuring business continuity. Serena™ ChangeMan® SSM can be a critical success factor in ensuring the effectiveness of plan execution and hot site start-up time.

Replace Individual Heroics with Efficient, Defined Procedures

Serena ChangeMan SSM automates the process of keeping your hot site systems in sync with your primary systems - replacing manual efforts and individual heroics with efficient data transmission and defined procedures. With Serena ChangeMan SSM, there is no need to dispatch personnel with data tapes to fix systems software at back-up locations. Serena ChangeMan SSM also eliminates time-consuming and expensive efforts to copy entire versions of your primary systems software to ensure the proper configuration at your back-up. By capturing the changes made to your primary system and transmitting those deltas via high-speed communications lines, your backup site stays current and your costs and resource demands stay low.

On-demand system availability and immediate access to data center information are key components of disaster recovery plans. Automating processes to ensure availability in times of crisis - large-scale international events or small fires that disrupt your normal business - can be the difference between long-term outages and quick recovery. Regardless of size, all data centers face a similar dilemma. Data centers need to regularly synchronize business-critical data and software between the production environment and contingency site, but often lack the time and resources to accomplish these functions in a timely fashion. Traditional methods for making back-ups are slow or resource-intensive and often have to be postponed to accommodate user access to data.

The Serena ChangeMan SSM approach to contingency management ensures that all software and data are accurately replicated in both the production and contingency locations. Data centers can quickly recover and resume business operations following a disaster.

Reduce the Volume of Data

Serena ChangeMan SSM is an automated systems change management solution that provides a centralized approach to contingency planning and management. With Serena ChangeMan SSM, system and application data set changes are detected and can be automatically synchronized across multiple sites from a central location.



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Serena ChangeMan SSM reduces the time and resources required to maintain an up-to-date disaster recovery site by transferring a single Change Basket for all detected changes. Recovery is achieved much faster because these Change Baskets are small in comparison to restoring complete DASD volumes.

Automated Contingency Site Synchronization

Because Serena ChangeMan SSM reduces the amount of data that needs to be migrated to the contingency site, more timely and reliable transport methods can be utilized. Instead of shipping full-volume tape backups to the contingency site each day or week, updates can be created periodically throughout the day and transmitted across existing network connections to the contingency site. At the remote site, changes can be applied immediately, or a cumulative Change Basket can be applied at the time of recovery. In either case, Serena ChangeMan SSM provides a precise method of ensuring that a business will be able to successfully resume production after a disaster.

Absolute Identification of Change

Serena ChangeMan SSM uses a powerful hashing algorithm that produces a unique identity attribute, called a fingerprint token. A token representation is generated for every flat file or PDS member. This enables Serena ChangeMan SSM Mainframe to accurately identify the exact components of each file that has changed. Reorganization, re-blocking, and change in device geometry do not affect the fingerprint tokens.

Serena ChangeMan versus Hardware Mirroring

Serena ChangeMan SSM can snapshot a DASD subsystem at over 50 volumes/minute, then use the fingerprints and production site change baskets to verify that all data sets exist in the disaster recovery site. Serena ChangeMan SSM uses less resources (CPU, I/O, networking and human intervention) than hardware mirroring solutions that run on a continuous basis.

System Integrity Verification

The ability to accurately compare application or system software environments assures system integrity before production is resumed. To ensure a contingency site is an exact duplicate of a production site, Serena ChangeMan SSM compares fingerprint tokens generated for the production software environment with those created for the recovery site. Serena ChangeMan SSM can determine if the two environments are identical, as well as pinpoint any differences. Because comparisons are only performed between fingerprints and not entire files, differences are detected rapidly, even in very large environments.

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To learn more about these products, and how to begin implementing comprehensive change management in your enterprise, visit Serena at www.serena.com or write us at info@serena.com.

