



EMC RecoverPoint/SE

A continuous remote replication and continuous data protection solution for EMC CLARiiON storage

The Big Picture

- Protect or replicate data in your CLARiiON CX3 series of arrays, simplifying management and reducing cost across your data center
- Recover data at the local or remote site to any point in time
- Optimize use of your existing IP wide area network using WAN acceleration technology without the need to invest in Fibre-Channel-to-IP converters
- Reduce infrastructure cost with patented compression and data reduction technologies
- Ensure continuous replication to a remote site without impacting performance and retaining write-order fidelity
- Tailor your protection and replication policies to meet business requirements

One solution to protect all your data

The EMC® RecoverPoint/SE data protection solution is a comprehensive solution for the EMC CLARiiON® CX3 series of arrays, providing local continuous data protection (CDP) or continuous remote replication (CRR). RecoverPoint/SE protects companies from data loss due to common problems such as server failures, data corruption, software errors, viruses, and end-user errors, while also protecting against catastrophic events that can bring an entire data center to a standstill.

RecoverPoint/SE customers have realized dramatic cost savings by eliminating complex, non-performing data protection schemes and deploying a single, easy-to-manage solution. RecoverPoint/SE supports intelligent application bookmarks, instantaneous recovery, bidirectional local and remote replication to provide true any-point-in-time protection, and its unique clustered architecture provides linear scalability to support the most demanding environments. RecoverPoint/SE protects storage investments, enhances business continuity, and facilitates storage consolidation.

Continuous remote replication and continuous data protection on one common platform

The EMC RecoverPoint/SE data protection solution supports a continuous remote replication (CRR) module and a local continuous data protection (CDP) module. These modules run on their own RecoverPoint/SE appliances to reduce cost and ease management and can be deployed separately or together, based on your unique needs for end-to-end data protection.

The RecoverPoint/SE CRR module is a third-generation, enterprise-class data replication solution that offers any-point-in-time recovery with complete protection from site disasters. Enterprise performance, scalability, and instant recovery are combined to guarantee data consistency with recovery that takes seconds or minutes instead of hours or days. RecoverPoint/SE offers bi-directional replication with no distance limitation, guaranteed data consistency, and advanced bandwidth reduction technology designed to dramatically reduce WAN bandwidth requirements and associated costs.

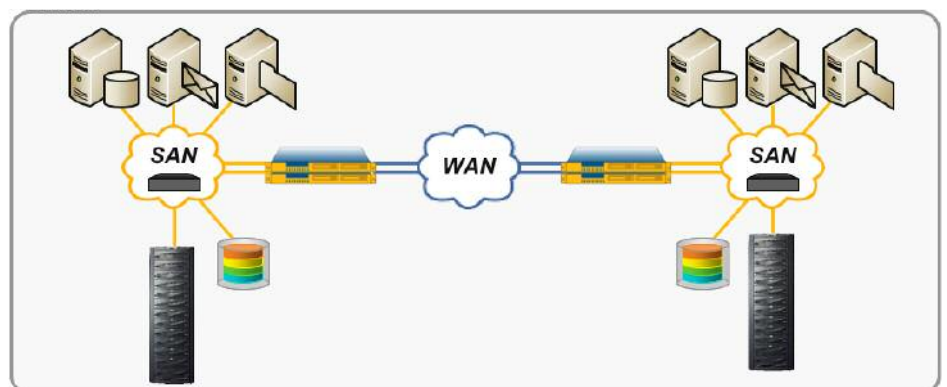
The RecoverPoint/SE CDP module tracks changes to data and journals the changes along with application-specific bookmarks. This capability is used to protect critical data from physical or logical failures such as server outages, data corruption, software errors, viruses, and common user errors. This complements existing backup solutions and helps eliminate the need to maintain strict daily backup windows.

EMC RecoverPoint/SE capabilities

End-to-end data protection

RecoverPoint/SE provides an end-to-end data protection solution for the entire data center. It is the first solution to deliver a comprehensive data protection suite that can be deployed to continuously protect data both locally and remotely. This means that the multiple products that are currently required for local and remote data protection can be replaced by one centrally managed solution, dramatically lowering complexity and cost.

RecoverPoint/SE offers multiple management features, including automated discovery of LUNs. It is centrally managed through a single Web-based, graphical user interface (GUI) or through a command-line interface (CLI). RecoverPoint/SE is also SNMP-enabled for integration with standard system management applications. RecoverPoint/SE adheres to business objectives and SLAs tied to policies. It intelligently determines the optimized data protection process, dramatically reducing complexity and maximizing the use of IT and system resources.



Long-distance replication

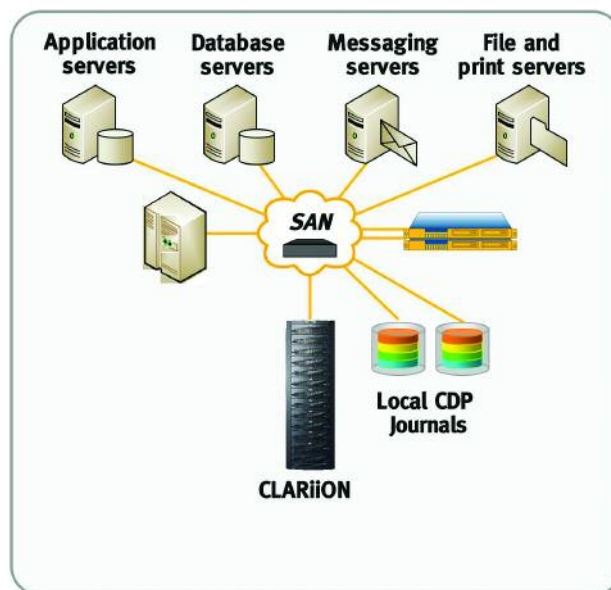
Unique bandwidth compression and bi-directional replication, combined with guaranteed write-order consistency, shatter today's distance/latency limitations. RecoverPoint/SE enables completely up-to-date protection from regional disasters with no impact on application performance or reliability.

Immediate recovery

RecoverPoint/SE CDP stores changed data and time together with application-specific bookmarks, enabling immediate recovery to any point in time without data loss. It can recover applications quickly to a selected time or event with guaranteed consistency, even when data spans multiple storage volumes and servers.

Instant access to CDP data

RecoverPoint/SE CDP allows application data to be accessed at any point in time by selecting intelligent time- or application-specific bookmarks. Application data at the selected point in time is instantly recovered and can be immediately read and written by the host. RecoverPoint/SE allows read/write access to replicated data without disturbing the replication process. In recovery, this enables testing the data at several points in time in order to determine the best point from which to recover. This capability can be used to offload backups, allow live application testing, support on-demand recovery, data migration, and many other valuable data processing purposes. It supports multiple transaction-consistent recovery points, each indexed to a specific point in time, and user-defined application consistency points allowing reliable recovery for supported environments.



Transparent application integration

RecoverPoint/SE offers seamless integration with business applications to facilitate intelligent protection and recovery, dramatically reducing application recovery time and eliminating data loss. Application and environment events are monitored by RecoverPoint/SE during the replication process. Important events that occur to the application, host, network, or storage are logged and bookmarked in the recovery journal. It intelligently generates transaction-consistent bookmarks selected for individual applications on a data protection timeline, allowing those applications to be recovered quickly to transaction- and event-driven boundaries.

In Oracle environments, RecoverPoint/SE will automatically detect and bookmark significant events such as hot backup, checkpoints, and transaction-oriented bookmarks based on Oracle relative block address (RBA) and system change number (SCN).

RecoverPoint/SE supports the Microsoft Virtual Device Interface (VDI) APIs and uses them to create consistent images for any VDI-compliant applications such as Microsoft SQL Server.

Intelligent use of bandwidth and data compression

RecoverPoint/SE uses proven, patented technology to dramatically reduce replication bandwidth requirements by employing optional data compression and intelligent bandwidth-reduction technologies that deliver up to a 15:1 reduction in WAN bandwidth. These intelligent technologies can be combined, allowing customers to experience the best possible level of protection for the available bandwidth, while dramatically reducing WAN costs, particularly over long distances.

Guaranteed data consistency

RecoverPoint/SE guarantees a consistent replica of business-critical data in the event of any possible failure or disaster. Unlike other offerings that cannot guarantee consistency through rolling disasters or during resynchronization, with RecoverPoint/SE, consistency is maintained at all times.

Take the Next Step

Find out how EMC RecoverPoint/SE can meet your continuous remote replication and continuous data protection needs—simply, affordably, and effectively. Contact your local EMC representative, visit our website at www.EMC.com, or call us directly at 1-866-464-7381.



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