

EMC NetWorker Deduplication

Manage source- and target-based deduplication with NetWorker

The Big Picture

- Never backup the same data twice—move up to 99 percent less data
- Reduce the amount of disk storage needed to retain and protect enterprise data by 10-30x and greater
- Ideal for virtual environments including VMware and Microsoft Hyper-V and remote offices
- Single, integrated NetWorker client for both traditional and source-based deduplicated backups
- Application integration includes: Microsoft Exchange, SharePoint, and SQL; Oracle; SAP; DB2; Sybase; Lotus Notes; and Informix
- Fast and nondisruptive deployment of target-based deduplication
- Centralized management—common administrative and recovery interfaces for deduplicated and standard backups
- Single catalog for all backups
- Easy deployment with Avamar or Data Domain

Deduplicated backup with EMC NetWorker

Exponential data growth, regulations, aggressive service level agreements, and shrinking backup windows—all of these factors are driving IT managers to consider new approaches to data protection. EMC[®] NetWorker[®] enables organizations to address mounting backup challenges through integration with EMC Avamar[®] patented global source data deduplication. Source-based deduplication dramatically reduces the amount of data that is backed up daily by identifying and transferring only unique data segments across sites and servers. The result is fast, efficient, and reliable backup and recovery—especially ideal for virtual environments, file servers, remote and branch offices, content repositories such as Microsoft[®] SharePoint[®], and bandwidth-constrained data centers. NetWorker deduplication also delivers daily full backups with easy one-step recovery, eliminating the need to restore full and subsequent incremental backups to reach a desired recovery point.

With the addition of deduplication technology, NetWorker is now the only solution that supports both traditional and deduplicated backup with a single, integrated client agent. NetWorker simplifies deployment and lets users choose the right solution for the right backup workload, and reduces the complexity and risk of introducing new capabilities as data protection requirements evolve. NetWorker ensures ease of use and simplified administration by providing centralized control and management of a full range of data protection capabilities.

Target-based deduplication can also be enabled by simply introducing a Data Domain[®] deduplication storage system. Use Data Domain deduplication storage with NetWorker for centralized, automated, and accelerated data protection across your enterprise. The Data Domain file system is optimized for sequential read and write operations, and is ideal for use with existing NetWorker disk-based or VTL capabilities.

Unified control and management

By providing a common management interface and backup workflow, NetWorker deduplication helps customers reduce the amount of data to back up without adding administrative complexity.

All tasks are managed through NetWorker including:

- Backup client setup and configuration
- Job scheduling and policies
- Recovery operations
- Monitoring and reporting

Existing NetWorker customers can enjoy the benefits of deduplication without the complexity of adding another backup user interface and workflow. Deduplicated clients are backed up and recovered using the same NetWorker interfaces and workflows used for all other clients.

Simple, single-client implementation

Because deduplication is accomplished with a single, integrated client, deployment and management is simple. A single software footprint delivers the flexibility for users to easily choose deduplicated or traditional backup—or both. In existing NetWorker environments, upgrading protected hosts to the new integrated client is easy and automated with the NetWorker software distribution feature.

Application integration

NetWorker delivers global source-based deduplication in conjunction with leading business applications including: Microsoft Exchange, Microsoft SQL Server®, and SharePoint; Oracle; SAP; DB2; Sybase; Lotus Notes; and Informix. Deduplication significantly reduces the impact of daily backup operations resulting in better overall performance for your critical application servers. Further eliminating the impact of application server backup, NetWorker enables proxy-based off-host deduplication backup from array-based snapshots—including support for EMC CLARiiON®, EMC Symmetrix®, and EMC Celerra® storage environments.

Easy, flexible deployment options

NetWorker offers flexibility in deployment of the Avamar solution within the backup and recovery environment. There are two physical deployment options—the Avamar Data Store, a complete pre-packaged solution that integrates Avamar software with EMC-certified hardware for streamlined deployment, and EMC Avamar software that can be deployed on a range of certified, industry-standard servers. For environments using VMware® virtual infrastructure, the Avamar Virtual Edition delivers Avamar software deployed as a virtual appliance. Once installed, Avamar is managed as a deduplication node in the NetWorker environment and all backup operations are handled through NetWorker, providing a seamless user experience.

Ideal for virtual server backup

Virtualization increases server utilization rates and as a result, traditional backup operations contend for resources and can affect server performance. NetWorker deduplication reduces the impact of backup operations on virtual hosts and enables even greater consolidation and value from virtualization. With the best of traditional and source-based deduplication backup combined, NetWorker provides the right solution for every stage of virtualization adoption—including support for VMware and Microsoft Hyper-V™. Users have the flexibility to run backup operations within guest virtual machines and parent operating systems as well as off-host using VMware Consolidated Backup (VCB) and VSS-based snapshot backups. With NetWorker deduplication, only changed segments of data are sent during backup, resulting in up to 90 percent faster virtual machine backups.

Perfect for remote office/branch office

Data located in remote or branch offices is often inadequately protected due to a lack of local IT staff and limited resources. NetWorker deduplication provides an ideal solution for remote and branch offices, reducing the amount of daily backup data that must be sent and stored. For smaller remote offices, NetWorker clients can be deployed on protected systems, with no additional remote hardware required. This allows data to be backed up directly over existing WAN connections to the data center. For larger remote offices, data can be backed up to a local Avamar Data Store server or EMC-certified server and then replicated back to the data center or another remote site. NetWorker manages all tasks—with one management interface and workflow—providing true control and protection of all data—even at the edge of your organization.



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Take the next step

For more information about EMC NetWorker and other EMC backup and recovery solutions, contact your local EMC sales representative or authorized value-added reseller, visit www.EMC.com, or call 800.607.9546 (outside the U.S.: +1.925.600.5802).