

# NetApp Syncsort Integrated Backup

Rapid Message Recovery for Microsoft Exchange

## Information Assurance Solutions for U.S. Federal Agencies and Military

**The Challenge.** Investigations that have an Electronic Discovery component need rapid search of current and past email messages and attachments without impacting the live user environment.

### Imagine if you could ...

- Easily search Microsoft Exchange databases and mailbox histories
- Rapidly find and gather the critical information you are looking for
- Dramatically reduce the time and resources required to complete any investigation
- Do all this without slowing or impacting your production Exchange servers

### Key Benefits of NetApp Syncsort Integrated Backup Exchange Mailbox Recovery

- Exchange data accessible in seconds at a granular level
- Easy scan and search of Exchange Database (.edb) contents
- Searches both current and historical Exchange contents
- No impact to live user environment
- Extremely resource and storage efficient
- Provides automated tape export
- Integrated Data Protection / Information Assurance solution
- Restores all Exchange items: email, contacts, calendar entries, tasks, attachments, etc.
- NetApp Syncsort Integrated Backup is a simple, integrated and proven solution used by numerous Federal agencies and actually deployed and proven in theater of military operations

## Why NetApp Syncsort Integrated Backup is Needed

**Microsoft Exchange Requirements are Stringent.** In recent years, Microsoft Exchange has become one of the primary means for internal and external communication, and email messages and attachments often need to be produced in the course of litigation or investigation. A variety of regulations and policies require email to be kept as a standard operating procedure. Traditionally, recovering single mailboxes or single messages from Exchange backups has been among the most resource-intensive tasks for an Exchange administrator.

**IA Solutions Must be Integrated.** The requirements for Information Assurance involve not only improving search capabilities for Exchange messages, but also providing secure and reliable protection, retention, and recovery capabilities of the Exchange environment. An integrated backup solution that enables server, mailbox, or message

### KEY FEATURES

- The US Air Force reduces backup impact and network I/O by over 90% at one of their primary data centers.
- The United States Marine Corps is able to recover critical applications in fewer than six minutes.

level recovery with rapid search capabilities is ideal. Such a solution – which meets both Electronic Discovery and Continuity of Operations requirements -- must be well integrated into an enterprise's existing daily workflow so as to minimize the workload of the administrator.

**Production Microsoft Exchange Servers Must Not Be Impacted.** For productivity, security, and compliance reasons, your live user environment should not take a hit when your files are searched, nor when they are backed up or recovered. In a virtualized server environment, it is especially important that Exchange backups have minimal impact on system, disk, and network to avoid VM host processing contention.

**How NetApp Syncsort Integrated Backup Does It Immediate Access to Backup Images.** The innovative business continuance technology of NetApp Syncsort Integrated Backup enables an administrator to gain near-immediate access to a selected recovery point of an Exchange Database (.edb) snapshot. The snapshot, stored on a NetApp FAS system, is the result of regular zero-impact disk-to-disk block level incremental Exchange backups. By LUN mapping from a non-Exchange production server on the network to the snapshot, near immediate access is attained.

**Scan, Search for, and Even Read Individual Exchange Items.** Once access to the backed up .edb snapshot is acquired, a powerful Exchange mailbox recovery wizard is activated which allows the administrator not only to scan and search the massive .edb file, but even to read the individual messages and attachments in the .edb file. The administrator then merely drags individual items to a production drive on an Exchange server, and the mailbox or message level restore is achieved. Searches across all mailboxes by keyword or other criteria can be performed. Because the search is offloaded from the production Exchange server, it will not use valuable production resources.

**Zero-Impact Backup and Storage Reduction.** By deploying image-based, non-intrusive, zero-impact backups (only changed, allocated blocks are transferred), data transfers are extremely swift, require no backup window, and

consume minimal bandwidth and CPU. Consequently, backups can be scheduled to run very frequently, meeting even highly stringent Recovery Point Objectives. Moreover, NetApp Syncsort Integrated Backup volume snapshot technology requires very little additional disk space for each successive Exchange database backup, minimizing the frequency of additional disk purchases. Data is further reduced by integrated NetApp data deduplication.

**Automatic Archiving to Tape.** NetApp Syncsort Integrated Backup extends disk-based protection to tape. A seamless additional backup from the NetApp FAS storage to tape provides tertiary protection and long-term archiving. The system catalog spans both the disk and tape tiers.

**Integrated Disaster Recovery.** NetApp SnapMirror replication technology is included as part of the solution. This allows backup images to be securely transferred to an alternate location using minimal amounts of bandwidth. All Exchange search and recovery operations can be performed at the remote site without any interruption to the ongoing data transfer process. This allows the alternate site to be used as a full Electronic Discovery location at any time.

### The Bottom Line



NetApp Syncsort Integrated Backup with Exchange Mailbox Recovery is a superior Exchange protection solution because it is fast, simple, and secure, saves time, money and resources, and offers powerful restore capabilities with message-level granularity. Electronic discovery is achieved quickly and securely, by targeting resource-efficient backup snapshots through an easy to use interface.

## Support Matrix

Supported Storage	Any block-level primary storage, both SAN and Direct Attached
Supported Client Operating Systems	<p>Microsoft Windows: Windows 2008 R2, Windows 2008, Windows 2003</p> <p>Linux: RedHat Enterprise Linux, SUSE Linux Enterprise Server, CentOS (x64, x86)</p> <p>Sun Solaris: Solaris 10, Solaris 10 SPARC, Solaris 9 SPARC</p>
Supported Hypervisors	<p>VMware: ESX Server v 3.0, 4.0, 4.1 (vSphere); ESXi 3.5, 4.0, 4.1 (vSphere)</p> <p>Microsoft Hyper-V: v 1.0 and 2.0.</p>
Supported Applications	<p>Microsoft Exchange: 2000, 2003, 2007 and 2010</p> <p>Microsoft SQL Server: 2000, 2005, 2008, 2008R2</p> <p>Oracle: 9.x (Solaris only), 10G, 11G (on supported OS platforms)</p> <p>Microsoft SharePoint: 2007, 2010</p>

Please consult [www.syncsort.com](http://www.syncsort.com) for the latest support updates.

## NetApp Syncsort Integrated Backup Components

Syncsort BEX software	Client agents (unlimited); Master Server; Reporting Server (optional)	
NetApp Protection Pack and Advanced Pack	SnapMirror®, SnapVault Secondary, FlexClone®	
NetApp FAS disk system	<td>  </td>	

### About NetApp

NetApp creates innovative storage and data management solutions that deliver outstanding cost efficiency and accelerate business breakthroughs. NetApp's passion for simplicity, innovation, and customer success helps companies around the world go further, faster. To learn more about NetApp please visit [netapp.com](http://netapp.com).



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### About Syncsort

Syncsort is a global software company that helps the world's most successful organizations rethink the economics of data. Syncsort provides extreme data performance and rapid time to value through easy to use data integration and data protection solutions. With over 12,000 deployments, Syncsort has transformed decision making and delivered more profitable results to thousands of customers worldwide.

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