



## Backup Express FOR MICROSOFT EXCHANGE

### Single Mailbox and Message Recovery for Microsoft Exchange

MS Exchange has become a mission-critical application for many organizations. A major drawback with Exchange is achieving fast, efficient backup and recovery. Microsoft has not provided the necessary tools, but Syncsort Backup Express has.

#### Syncsort Enables Fast, Efficient Exchange Backup and Restore

##### Principal Features

- **Exchange Data Accessible in Seconds.** Gain access to backed up Exchange data in seconds without a data transfer. You can actually read emails and attachments.
- **Fast Mailbox and Message Level Restore.** Minimize the time to restore an individual mailbox or message, and reduce the time to search emails and attachments matching specific criteria.
- **Five Minute Backup.** Backup an entire Exchange server in 5 minutes, enabling frequent backups and improved success rates, while still reducing storage needs by 90%. Eliminate arduous brick-level backups.
- **Resource Efficiency.** Cut Exchange resource use and network bandwidth needs by 90%.
- **Automated Archive.** Achieve data migration to tape for long-term archiving through policy-based backups.

#### Why Syncsort's Solution is Needed

##### Communication Is the Key

In recent years, Microsoft Exchange has become the primary means for internal and external communication for many enterprises. Often, the last known good copy of a document or file is stored within the Exchange environment. Studies show that in many cases a majority of business-critical information resides in message stores, and that the typical Exchange end user spends a significant part of the workday in the Exchange domain.

##### Stringent SLAs

IT administrators are challenged to meet stringent Exchange service-level agreements (SLAs). A variety of regulations and policies require email to be kept as a normal part of doing business, and email often must be produced in the course of litigation. Recovering single mailboxes or single messages from Exchange backups is among the most resource-intensive tasks for an Exchange administrator.

##### Integrated Solutions

The emerging requirements for Exchange involve improving both the backup process and the recovery and retention capabilities of the Exchange environment. Point solutions which have entered the market help fill the gap, but they add an unwanted layer of complexity. To be truly effective, any Exchange backup and recovery solution must be well integrated into an enterprise's existing daily workflow so as to minimize the workload of the administrator.

### KEY BENEFITS

- **Exchange Data Accessible in Seconds**
- **Easy Scan and Search of .edb Contents**
- **Fast Mailbox and Message Level Restore**
- **Five Minute Backup**
- **Resource Efficiency**
- **Reduction in Storage Needs**
- **Automated Archive**

## Single Mailbox and Message Recovery for Microsoft Exchange

### The Exchange Backup and Recovery Challenges

There is a hard-coded limit to the number of Exchange Database (.edb) files per Exchange server. For this reason a single .edb file typically contains many mailboxes, with each mailbox containing many email messages. As a result, backing up the database at the individual message level entails logging into each mailbox in each .edb file and backing up the millions of email messages. This is a very time-consuming and resource-intensive process. Because of this, organizations typically don't back up Exchange on the individual message level (brick level), but instead back up the .edb files as a whole.

Recovering an individual mailbox or email from an .edb backup is again time consuming and resource intensive. One needs enough free disk space to house all the .edb files containing the email which needs to be restored (each .edb can be up to 80 GB in size), and only after the restore of the .edb file is complete can one begin to extract the individual mailbox or message. This process either impacts the production Exchange server or requires a dedicated "spare" Exchange server that is used only for restores.

The Syncsort Backup Express solution overcomes these challenges.

### How Syncsort Does It

The Backup Express solution for Exchange takes advantage of Syncsort's innovative business continuance technology known as BEX Advanced Recovery.

### Immediate Access to Backed Up Image

Among other things, this technology enables an administrator to gain near-immediate access to a selected recovery point of a virtual Exchange volume snapshot. The virtual volume snapshot is the result of routine disk-to-disk block level incremental Exchange backups. The near-immediate access, called BEX Instant Availability, is accomplished by LUN mapping from a non-MSX production server on the network to the snapshot. Although no data is transferred, to the production server the snapshot appears as a normal local Windows drive.

For more information on *Backup Express's Advanced Recovery Server* or *BEX Exchange Mailbox Recovery*, contact your regional representative at 201-930-8200

### Scan, Search for, and Even Read Individual Exchange Items

Once access to the backed up Exchange Database (.edb) image 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.

The Advanced Find capability allows for powerful search capabilities across all mailboxes by keyword or other criteria. Because the search is offloaded from the production Exchange server, it will not use valuable production resources.

### Block Level Incremental Backups and Automatic Archiving

Other factors which make this a fully integrated solution include:

- **Syncsort near-continuous backup.** By deploying image-based, non-intrusive, block-level incremental 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.
- **Resource efficiency.** Block-level incrementals with virtual volume snapshot technology requires very little additional disk space for each successive backup, minimizing the frequency of additional disk purchases.
- **Disk-to-disk-to-tape.** Known as BEX Archive, Syncsort's disk-to-disk-to-tape solution provides seamless additional backup from the disk-based destination server to tape, providing tertiary protection and long-term archiving.

### The Bottom Line

BEX Advanced Recovery Server with Exchange Mailbox Recovery is a superior Exchange protection solution because it is fast and simple, saves time, money and resources, and offers powerful, flexible restore capabilities with message-level granularity.

<b>5</b>	Minutes to back up a server
<b>26</b>	Times less storage used
<b>1</b>	Minute recovery