

EMC Centera Partner Solutions

Bus-Tech-EMC Fixed Content Solution



Fast, simple, and cost-effective fixed content capture, storage, and access for IBM mainframes

Information that was once stored away on tapes is now being utilized for company research and planning, patient histories, new drug discoveries, and a number of other vital company projects. So how do you capture that fixed content data from your IBM mainframe and keep it secure and easily accessible without the use of costly, inefficient tapes? How do you enjoy the price advantage of tape without the operational overhead costs? How do you eliminate drive mapping, indices updates, and the increased complexity of scaling your IT infrastructure to meet your company's changing needs? It's easy with the end-to-end fixed content solution, now available from EMC and Bus-Tech, Inc.

EMC's Centera™ content addressed storage repository simplifies management, ensures content authenticity, and delivers petabyte-level scalability. Bus-Tech's Mainframe Appliance for Storage (MAS) automates and intelligently manages the archiving of data from an IBM mainframe to a Centera system. With this powerful integrated solution, Centera provides a central storage archive that's safe and secure, so you can utilize those fixed content assets from anywhere at anytime, whether it's for product development, customer transactions, or meeting government regulations.

The Big Picture

- Enables data exchange between IBM mainframe platforms and Centera systems
- Provides a cost-effective solution for managing enormous volumes of data on an IBM mainframe, generated by today's e-business applications
- Reduces/eliminates the consumption of expensive tape cartridges, maintenance charges on tape drives, physical space, and personnel costs associated with managing a large tape library
- Transparent to the mainframe applications, so benefits can be realized without re-engineering and deploying business applications software
- Proactively automates the process of archiving IBM-compatible records to Centera content addressed storage by emulating 3480 tape drives
- Enterprise-class, self-configuring architecture allows fast and easy scaling of storage as a business grows and changes
- Self-managing and self-healing content addressed storage lowers the total cost of ownership by reducing maintenance costs
- Content cannot be overwritten or changed and is kept for a definable period of time, ensuring its authenticity, meeting regulatory requirements, providing easy management, requiring less disk space, and improving overall storage efficiency

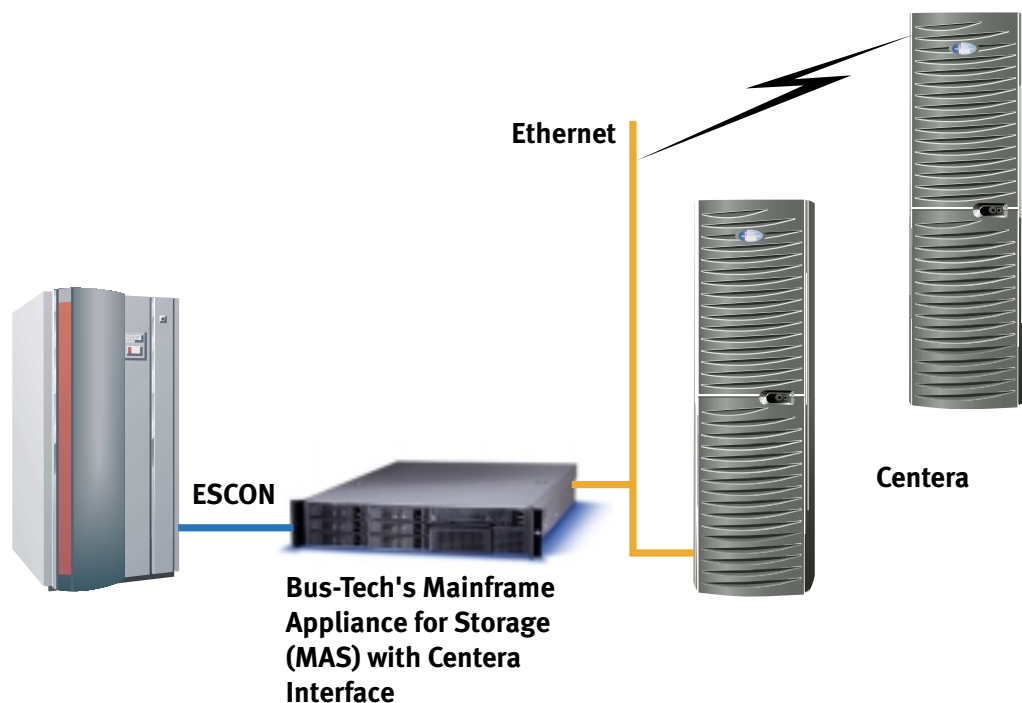
A simple, cost-effective fixed content solution for mainframe environments

The combined technology from EMC and Bus-Tech is ideally suited for IBM mainframe fixed content applications that are currently processed on tape, but need to realize the performance of direct access environments. Now, instead of dealing with fixed content stored on disks and multiple automated tape libraries, this integrated solution helps you unify disparate storage media into a central secure Centera repository. Virtually a plug-and-play replacement to a tape-based fixed content application, the MAS emulates standard IBM tape drives. The fact that the cost-effective, open-systems Centera is the solution being used is transparent to users and the mainframe applications. And the end result is a solution that enables you to archive valuable data as fixed content (long-lasting, unchanging data) in a secure repository that captures, stores, and enables immediate access to this information.

EMC Centera Content Addressed Storage

EMC Centera content addressed storage gives you fast, affordable, online access to your fixed content assets. Content addressing means an object is stored only once, ensuring its authenticity and consuming less valuable disk space. Centera scales easily, so when you need to add storage or upgrade the technology, just plug in another storage node, or even another complete Centera system. The system automatically recognizes that additional storage has been installed—it's just that easy.

And something you might not expect in content addressed storage systems—Centera delivers business continuity protection, ensuring that your vital research and documents are always available. All information objects are mirrored within a Centera cluster to support automatic recovery from component failures. Centera also constantly self-monitors to detect and repair faults. It helps ensure information accessibility by automatically reconfiguring itself and replicating objects as necessary.



Centera Combines with Bus-Tech's Mainframe Appliance to Provide Fixed Content Storage for IBM Mainframes.

Bus-Tech Mainframe Appliance for Storage

The EMC Centera and Bus-Tech Mainframe Appliance for Storage utilize a technique known as tape-on-disk. This provides a virtual tape-like environment, which has a number of advantages over standard tape libraries. The MAS presents itself to the IBM System/390 or zSeries mainframe environment as a tape subsystem. The MAS connects directly to System/390 through one or two ESCON attachments and emulates up to 32 IBM 3480 tape drives. Applications running under z/OS, OS/390, or VSE can attach to one of these virtual 3480 drives and use it as they would a real tape drive. But instead of creating or reading real tape cartridges, the MAS stores application data files on the EMC Centera.

Because the MAS emulates standard IBM tape drives, those applications using tape as their medium can be upgraded to the Centera system with minimal disruption to current operating environments. In addition, the Centera-MAS solution can reduce floor space required for drives and cartridge storage, reduce or eliminate personnel costs associated with managing a large tape library, reduce or eliminate tape drive maintenance costs, and reduce or eliminate the overall number of tape cartridges needed in support of these applications.

As an enterprise storage offering, the MAS platform consists of dual hot-swappable power supplies and fans in addition to extensive platform management capabilities. And, the relatively low cost of the MAS solution will make business continuance and disaster recovery implementations much more affordable to midrange mainframe users, as well as making mainframe data securely available for a number of additional applications, such as data mining and Web-based content distribution.

Combined with the EMC Centera, Bus-Tech's MAS offers a powerful method of making knowledge available throughout the enterprise on a cost-effective basis, enabling companies to devote more time and effort to customer service initiatives, and as a result, improved customer satisfaction.

About EMC

EMC Corporation is the world leader in information storage systems, software, networks, and services, and the provider of the most robust, secure, and trusted information infrastructure in the world. Major customers include the world's largest banks and financial services firms, manufacturers, telecommunications providers, airlines, transportation companies, Internet providers, retailers, educational institutes, and regional and national government agencies. Working with leading application providers like Bus-Tech, Inc., EMC helps you unlock the value of your fixed content with Centera content addressed storage. More information about Centera can be found at <http://www.emc.com/products/systems/centera.jsp>.

About Bus-Tech, Inc.

Bus-Tech, Inc., founded in 1987, is the industry's leading provider of state-of-the-art connectivity solutions for the data center to original equipment manufacturers. The company's powerful suite of adapter and platform solutions satisfies even the most rugged demands of data processing professionals for high-bandwidth, high-availability, and high-performance connectivity. Bus-Tech is able to provide customers with fully integrated hardware and software solutions that truly model the concept of "plug and play." With more than 15,000 installed sites worldwide, Bus-Tech is a recognized leader in the data center interconnect market. With headquarters in Burlington, Massachusetts, the company is privately held with locations around the world. For more information about Bus-Tech and its products, please visit the Bus-Tech World Wide website at <http://www.bustech.com>.

Take the Next Step

This seamless integration of Bus-Tech's MAS and EMC Centera is available now. To learn more about the Bus-Tech-EMC solution, call your EMC sales representative or Bus-Tech sales representative, or visit our websites at <http://www.emc.com/products/systems/centera.jsp> or www.bustech.com.

where information lives

www.EMC.com

EMC Corporation Hopkinton Massachusetts 01748-9103 1-508-435-1000 In North America 1-866-464-7381

EMC and EMC² are registered trademarks and Centera and where information lives are trademarks of EMC Corporation. All other trademarks used herein are the property of their respective owners.
© 2003 EMC Corporation. All rights reserved. Produced in the USA. 2/03 H868 Solution Sheet