



REAL-TIME UPDATE

News and Information for DR/VFI Users

Welcome to *Real-time Update*, your resource for information and ideas from 21st Century Software. This newsletter is geared toward providing you with all the exciting news and information you need to know about DR/VFI to help empower your business.

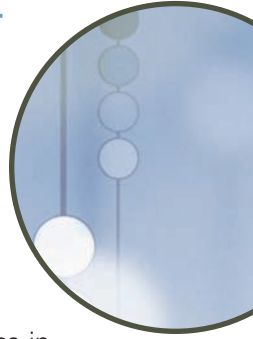
In this issue of *Real-time Update*, we have a lot of useful information to share with you. You'll hear more about how 21st Century Software's VFI for UNIX product provides a truly automated and intelligent solution for backup and recovery in a distributed environment. You'll also learn how you can achieve near real-time continuous data protection (CDP) via 21st Century Software's Application-Driven Data Management (ADDM) approach. In addition, we'll explain DR/VFI's new real-time analysis feature. Finally, we'll share all the details you need regarding our 2007 Users Conference in April.

If you have any questions about anything you read in *Real-time Update*—or if you'd like to suggest a story or topic for future issues—contact us at (800) 555-6845.

We hope you enjoy this issue of *Real-time Update*—and that the information here helps you maximize the benefits you derive from DR/VFI.

VFI and UNIX: Perfect Together

As a highly flexible operating system that's hardware independent, UNIX offers many key advantages to users. That's why 21st Century Software's VFI family of solutions includes VFI for UNIX—a truly automated, intelligent solution for backup and recovery in a distributed environment.



Most environments include more than just mainframes in the mix. That's why we've designed DR/VFI to easily integrate into varied environments to produce impressive results. Our VFI UNIX product enhances the capabilities of backup utilities you already own by monitoring file activity in real-time and learning which files are actually required to recover your business critical applications. VFI applies this knowledge by directing your backup utilities to copy just the files needed to recover your applications. This can reduce your tape requirements, minimize your backup requirements for mirroring and speed up your overall recovery process.

And of course, VFI for UNIX manages your recovery as well as your backups to quickly get you back online with its tiered recovery feature. While most organizations use a common image to restore operating systems, each machine actually has a unique configuration. VFI captures this unique information to assist in the reconfiguration process during recovery. VFI for UNIX provides you with immediate savings in time, resources and cost. Plus, automating the backup and recovery process reduces labor intensive activities and greatly minimizes human error.

UNIX environments typically consist of hundreds of servers. The VFI server monitors VFI clients running on all your systems and provides a central point for monitoring the status of your data collection, analysis and backups.

The product family provides a common enterprise approach for backup and recovery management. If you'd like to learn more about VFI for UNIX (and Linux) and how it could help your organization, please contact us at (800) 555-6845.

Achieving Efficient Data Management and Recovery

The most competitive—and least vulnerable—organizations strive for continuous data protection (CDP). This exciting revolution in redundancy and recoverability provides for multiple copies or snapshots of data, instead of only a single backup every day.

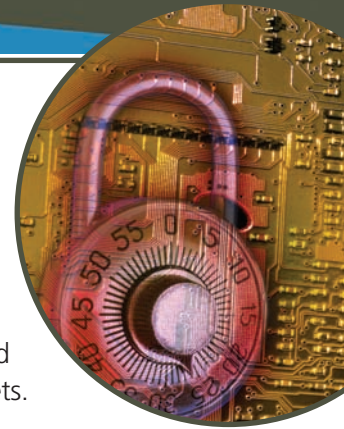
21st Century Software's ground-breaking approach to backup and recovery—ADDM—can help you achieve near real-time CDP and create a positive impact for your business. Instead of retaining data simply based on last-used date or some random retention policy, ADDM strategies determine what files are most needed by enterprise applications, thus determining which files need to be recovered first.

ADDM has vast implications on regulatory compliance practices. Data retention policies and regulations are often too complex and difficult to create an effective storage strategy, forcing many organizations to save far more data

than they actually require. This leads to overbuying of storage hardware and software, as well as the associated management expenses with those assets.

You can also maximize the benefits of mirroring strategies using ADDM. Wholesale replication of entire volumes can actually open up many enterprises to the exposures of corrupt or incomplete data. ADDM strategies determine precisely which data needs to be mirrored, thus reducing the volume of data being replicated and increasing the recoverability factor of the organization.

To learn more, visit our website <http://www.21stcenturysoftware.com/resources.html> to download the 21st Century Software ADDM white paper, "Achieving Business Flexibility and Agility through Application-Driven Data Management." Or contact us at (800) 555-6845.



DR/VFI's New Real-time Analysis Feature

Today's most successful—and secure—organizations have the ability, in real time, to analyze and monitor applications and data that are critical to enterprise applications. In addition to achieving a real-time infrastructure, the most competitive—and least vulnerable—organizations strive for continuous data protection (CDP). This exciting revolution in redundancy and recoverability provides for multiple copies or snapshots of data, instead of only a single backup every day.

With its new real-time analysis functionality, DR/VFI is poised to help you get closer than ever to near real-time CDP, simulated recovery and real-time discovery.

How does DR/VFI do it?

The new Real-time Dispatcher (RTD) enables real-time analysis in an efficient responsive manner with unprecedented speed, power and flexibility. The RTD is an SMF handling system that directs data to specific subtasks for processing. It is a highly optimized system designated to work in conjunction with the DR/VFI SMF Extractor.

The RTD:

- >> Performs real-time analysis of jobs defined in the application table
- >> Maintains these results in a KSDS organized VSAM Inventory file
- >> Runs 24x7, continuously refreshing statistics as jobs run and adding new files as they are created through the applications
- >> Keeps track of dataset size and usage (both reads and writes) to determine daily, weekly, monthly and annual frequencies
- >> Tracks dataset usage both within an application and across all applications being tracked to determine inter-application dependencies
- >> Applies "manual include table" directly to the inventory file so that these files are picked up as critical—but continual analysis remains intact

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"DRVFI" continued

DRVFI's Real-time Backup Table:

- >> Constantly keeps information current as files are changed
- >> Allows DRVFI programs to keep track of datasets that have been modified and therefore are in need of newer backups
- >> Offers similar functionality to the VTOC change bit, but does not interfere with incremental local internal DASD backups
- >> Unlike the VTOC change bit, keeps track of tape files that have been modified

Finally, Real-time Dynamic Scheduling—one of the newest components of DRVFI—keeps track of triggering criteria that is needed to mark a file's eligibility for being backed up.

With 21st Century Software's VFI family of software solutions, you know that your current data protection solution is intelligent, automated and executed in real-time. If you have questions—or would like to find out more about DRVFI's exciting new features—contact us today at (800) 555-6845.

2007 Users Conference

The 21st Century Users Conference will take place on April 12-13, 2007 in historic Philadelphia, Pennsylvania at the Hyatt Regency Philadelphia at Penn's Landing.

We'll bring our valued customers together with our developers for informative discussions about what's new with DRVFI. Plus, you'll learn how you can maximize our solution to help address your organization's key challenges. The key sessions you won't want to miss include:

- >> Solving data recoverability challenges more effectively with DRVFI
- >> News on DRVFI upgrades and features—such as real-time simulation for recovery and key reporting upgrades
- >> Useful information about DRVFI for UNIX—a truly automated solution for backup and recovery in a distributed environment
- >> Tips and helpful hints from our developers on taking full advantage of DRVFI
- >> Customer testimonials: How DRVFI users successfully tap into the power of DRVFI

This conference is the perfect opportunity to get up to speed on the latest advancements with DRVFI and to gather useful information and ideas about our product. Throughout the conference, you'll have an opportunity to network with other DRVFI users and 21st Century Software representatives and developers—plus, after hours there will be plenty of time to enjoy the local attractions!

The Hyatt is located at:
201 South Columbus Blvd.
Philadelphia, PA 19106
215-928-1234
<http://pennslanding.hyatt.com>

Register for this conference today: Contact Dana Navaline at 800-555-6845 or dana@drvfi.com.



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