







ClearPath Connection

A Quarterly Newsletter for Unisys ClearPath Customers

March 2013

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BIS event coming in 2013.
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New ClearPath Services Portfolio Helps You Maximize Your ClearPath Environment



*By Karl Brandt, Vice President and General Manager,
 ClearPath Sales and Solutions*

Throughout our meetings with CIOs and IT teams from around the globe, we've learned that many organizations' ClearPath environments are entering a pivotal phase. Executives and staff alike are committed to the mission-critical applications that capture valuable intellectual property and represent decades of effort and investment from a diverse and talented team. However, some organizations tell us there is concern about their ability to effectively support all aspects of these applications over the coming years.

One of the primary factors behind this apprehension is a dramatic shift in workplace demographics driven by the retirement of many senior-level operators, analysts, and programmers. As more of the individuals who were instrumental in making ClearPath systems and applications the focal point of critical business operations depart – and qualified replacements continue to be in short supply – organizations are looking for fresh ways to fill in these gaps and ensure the right knowledge is transferred from one generation of IT personnel to the next.

In addition, we're hearing that IT departments are under immense pressure to change the perception that they are costly and slow to react to changing business needs. And while this often results in a request to consider a high-risk migration to a new platform, most IT teams we talk with want to continue using the stable, mission-critical environments they have trusted for decades. >>



At Unisys, our goal is to function as a trusted advisor that can help customers successfully navigate these issues, so their ClearPath environments continue to flourish, despite staffing or other demographic changes.

New Services for a New Era

I'm pleased to announce that Unisys is evolving the ClearPath Services portfolio to help you address – and overcome – the challenges inherent in this changing reality. Our new, expanded, flexible service delivery model is built around an integrated suite of elements – covering technology consulting, support, operations, and application modernization and maintenance – you can deploy in whichever combination best fits your business needs.

Leveraging a modular approach that allows you to maintain control of certain areas of your operations, while transitioning others to Unisys, the ClearPath Services portfolio:

- **Identifies joint responsibilities** to customize the offering set based on your evolving needs
- **Leverages our Global Delivery Model** to make expertise available anywhere in the world
- **Mitigates staffing issues** by moving to a service provider model in a gradual, measured fashion

- **Provides corrective and evolutionary application modernization and maintenance** that is handled by Unisys and based on a clear understanding of your future business and IT needs
- **Creates Joint Innovation Committees** to explore with clients the business benefits of new technology services, application modernization and maintenance, and operational changes

The ClearPath Service portfolio is supported by a long-term vision designed to optimize your ClearPath environment by helping you take advantage of infrastructure and network consolidation opportunities and leverage a wide range of Big Data capabilities.

In addition, you can rest assured that Unisys continues to invest in ClearPath training across a wide range of topics, allowing you to develop new IT professionals to support your mission-critical solutions. [New training catalogs](#) that outline expanded options have also recently been published. As a result, we have seen a worldwide increase in training requests.

ClearPath Services at a Glance

Delivering consulting, operations, and support services that transform and optimize your mission-critical ClearPath environment with the help of enhanced technologies, applications, and operations, the ClearPath Services portfolio includes:

- **ClearPath Technology Consulting Services:** Employ Advisory, Integration, Automation, and Implementation offerings to help you improve application processing, data management, integration, automation, and analytics – enabling your ClearPath system to serve as a valued component of a modern IT infrastructure.
- **ClearPath Technology Support Services:** Provide world-class support for mission-critical data centers through product maintenance and premium, proactive support services that improve system availability, performance, and manageability.
- **ClearPath Operational Services:** Deliver operational management of ClearPath systems and applications to reduce management costs, mitigate operational staffing issues, reduce TCO, provide predictable operating costs, and enhance IT responsiveness and business agility. >>

- **ClearPath Application Modernization Services:** Help you execute modernization initiatives that protect existing ClearPath investments, preserve embedded intellectual assets, and enable ClearPath applications to participate in a Service Oriented Architecture (SOA).
- **ClearPath Application Maintenance and Support Services:** Support and maintain both packaged and custom ClearPath applications, helping you resolve incidents and problems throughout the lifecycle of your applications.

By expanding the scope, breadth, and depth of the ClearPath Services portfolio, we've developed a foundation you can leverage to address the challenges facing your ClearPath environment. We want to work in partnership with your team to ensure that the systems you've relied on for years to manage your most-critical business processes are well positioned to help your organization achieve its long-term goals.

If you're interested in learning more about the ClearPath Services portfolio, please contact your Unisys sales representative.

UNITE + UNISYS = A New Universe

Unisys has partnered with UNITE to bring you **an all-new Universe!** This premier, client-centered technology event has been refreshed and renewed to empower your business with strategic, tactical, and technical insights. The event is designed to help you:

- **Promote professional development** with more than 60 sessions, including hands-on labs, technical workshops, panel discussions, and case studies.
- **Find opportunities to network** with experts from Unisys, user peers, and third-party vendors to improve productivity, increase ROI, and stimulate innovation.
- **Leverage a deeper understanding** of Unisys solutions, technologies, and best practices to strengthen your business.
- **Take advantage of exclusive tracks** offered for C-level executives, technical executives, and industry-specific user board members.

With more information, more vendors, more opportunities, and more solutions than ever before, we anticipate record attendance! Companies, executives, and professionals from across North America will be present, so be sure to mark your calendar now – and stay tuned for information on how to register.



What: The all-new Universe Conference

When: September 9-12, 2013

Where: Marriott Oak Brook Hills Resort, Chicago, IL

Who: C-level executives, technical executives, industry-specific user board members, business managers, IT professionals



Announcing ClearPath OS 2200 Release 14.0

We are excited to announce the availability of ClearPath OS 2200 Release 14.0! This latest version of the OS 2200 integrated software stack for ClearPath Dorado systems delivers 111 software products, stability and performance enhancements, and 146 feature updates – 67 of which were the result of new feature suggestions from ClearPath clients.

And as with every new operating system release, all of the capabilities in OS 2200 14.0 have been designed, developed, tested, and integrated as a single unit. This means a considerable amount of time is invested in confirming that all products and features work together and provide the performance and reliability your mission-critical applications require.

Together, the updates and new features of OS 2200 Release 14.0 deliver significant benefits in three distinct areas:

- Application Modernization
- Data Center Transformation
- Security

Application Modernization

The innovations built into OS 2200 14.0 help you maximize the value of both new and existing ClearPath applications. Key updates include:

- **ClearPath OS 2200 JProcessor:** Support for the latest versions of Java 5, 6, and 7 is now included in the ClearPath OS 2200 JProcessor, ensuring that the most-recent stability enhancements are incorporated into the JProcessor specialty partition. In addition, these updates give you the flexibility to either stay with your preferred version of Java, or move your applications to a newer release.
- **ClearPath OS 2200 IDE for Eclipse™:** ClearPath OS 2200 14.0 includes 14 new Eclipse features that improve ease of use, speed of development, and flexibility. For example, they help you accelerate development times by updating the IDE with COBOL expanding
- **copy libraries.** These enable developers to quickly locate and effectively reuse common code snippets directly in the development environment – no more manual searching to find that bit of code you need.
- **OS 2200 14.0** also introduces the Eclipse Auto Build feature, which frees developers from the need to manually build applications for release.
- **In addition,** this release includes several stability updates to the Eclipse environment.
- **ClearPath ePortal for OS 2200:** The ClearPath ePortal for OS 2200 5.0 is included in OS 2200 14.0. This update includes support for Enterprise Application Environment (EAE) as well as your TIP and OpenDTP applications, enabling you to quickly, easily – and securely – extend applications to the Web and mobile devices.
- **Additional new features** coming in ClearPath ePortal for OS 2200 5.1, available March 2013, include:
 - Support for Microsoft® Windows® 8, Apple®, Android™, and Blackberry® mobile devices
 - The ability to use UTS terminal sessions as ePortal data sources
 - The ability to import form definitions from DPS data sources
- **FORTTRAN:** OS 2200 14.0 features a customer-requested update that eliminates the need to re-apply local code for new versions, helping you reduce errors and simplify code deployment for easier debugging. >>

- **Enterprise Output Manager:** Enterprise Output Manager Release 10.0 is included in OS 2200 14.0. Among the wide array of enhancements included in the latest version of our cutting-edge output management solution are the following key features:

- An integrated, enterprise-class PDF writer that enables you to generate PDF documents natively within the Enterprise Output Manager environment – and protect them with 128-bit encryption for PDF/A compliance – helping you accelerate output while minimizing the need for costly software licenses
- Security enhancements that allow you to apply 128- or 256-bit encryption to any files that are distributed via email or transferred to a file directory for archiving purposes
- Updates to the Web Assistant feature that improve security, allow you to see the presentation attached to an email, and search by date
- New enhancements to the Email, Print, and Back-up attributes support file compression properties – and enable you to compress large files into a .ZIP file, saving disk space

Data Center Transformation

OS 2200 14.0 helps you transform your data center environment by reducing operating expenses and improving service through increased automation and higher levels of solution and application availability. Noteworthy enhancements include:

- **ClearPath OS 2200 QProcessor:** The ClearPath OS 2200 QProcessor has been updated to incorporate several new high availability enhancements that were recently added to IBM® WebSphere® MQ. For example, you can now simplify the process of protecting critical messaging data by leveraging preconfigured clusters. This feature eliminates the need to manually set up clusters, while helping you increase reliability, reduce opportunities for error, and minimize the chances that messages are lost.

- **Operations Sentinel:** Operations Sentinel 13.0 is included in OS 2200 14.0. The latest version of our automated systems management tool delivers many new features. Most notably, it includes an all-new, simplified web interface you can use to view the status of managed devices and the alerts page – and access system status from a tablet that's connected to your Intranet.

Additional highlights of Operations Sentinel 13.0 include:

- Visual representations of the status and CPU, memory, and hard disk utilization for all monitored systems – all through a single point of control
- Support for the ClearPath OS 2200 JProcessor, ClearPath OS 2200 QProcessor, and ClearPath ePortal for OS 2200 within the CSE
- Integration with Enterprise Output Manager, which allows you to reformat, print, email, and save a log file to the Web >>

ClearPath Dorado 4200 Platforms Include XPC-L3 Integration

We're pleased to announce that all members of the ClearPath Dorado 4200 family of systems are now integrated with Extended Processing Complex Locking (XPC-L3), a database record locking solution that allows up to four OS 2200 hosts to concurrently access the same record. This new capability enables Dorado 4200 systems to participate in multi-host clusters, achieve higher levels of failover, and redistribute performance across Dorado 4200 host partitions. Including Dorado 4200 systems within an XPC-L3 complex further enriches the heterogeneous support for high availability across the Dorado family of systems.

- **CPCComm:** New enhancements enable you to take better advantage of your ClearPath Dorado system's communication hardware by providing a lightning-fast, 10 Gb/s NIC, which allows you to dramatically increase performance by offloading processing power to dedicated hardware.
- **RDMS and JDBC:** Additional syntax and build-in functions improve the portability of Java applications written for Oracle onto OS 2200.

Security

The enhancements built into OS 2200 14.0 bolster the already high levels of security in your ClearPath environment by safeguarding sensitive data and protecting your organization from the harmful effects of downtime. Highlights include:

- **TLS Protocol:** Support for TLS Protocol Version 1.2 is included in OS 2200 14.0. This supports the industry's most secure Internet communications protocol, helping you further protect your organization against data loss.

- **SSL/TLS Certificates:** With this update, an administrator can now dynamically install new SSL/TLS certificates, private keys, and Diffie-Hellman (DHE) parameters without necessitating a termination and restart of communications processes, resulting in greater uptime and easier security administration.
- **Cipher-API:** Updates to the Cipher-API include additional encryption algorithms and modes, as well as added protection against unprivileged users.
- **cpFTP:** The cpFTP function can now be configured to require all file transfers to be encrypted.

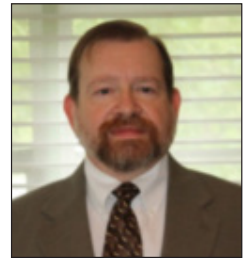
Learn More About ClearPath OS 2200 14.0

Check out the resources below to learn all about the new products, software, and enhancements included in OS 2200 Release 14.0:

- [Software Release Announcement](#)
- [Planning and Migration Overview](#)
- [Software Product Catalog](#)

Finding New Ways to Focus on Innovation

By Isaac Levy, Global Manager, ClearPath Services Solutions



Like IT organizations around the globe, ClearPath customers tell us business innovation is at the top of their to-do lists. But when 75% of IT's time is spent on administration of the systems and applications they already have, there's very little left over to respond to new demands.

Our ClearPath Advisory Services were created to help ClearPath customers find new ways to focus on innovation, so they can:

- Drive greater efficiencies through increased use of IT automation
- Quicken the pace of new service delivery through repeatable integration processes supported by strong technologies
- Recognize the true financial valuation of projects by

determining an accurate total cost of ownership (TCO), rather than looking solely at technology acquisition costs

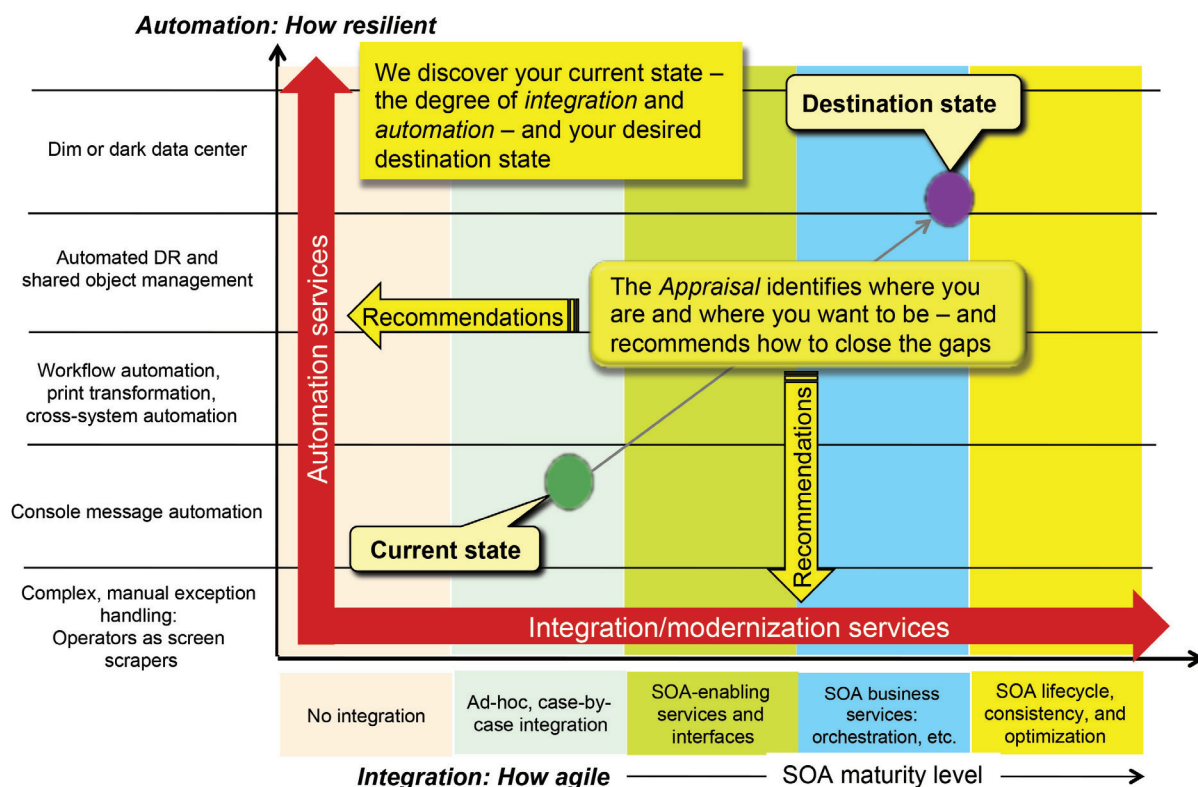
More than three dozen Unisys customers have already benefited from the new ClearPath Advisory Services – and their feedback has been overwhelmingly positive. In particular, many are impressed with how concrete and specific the recommendations are. What happens during the service

and what outcomes are clients seeing? Let's take a look at one customer's experience.

An Advisory Services Case Study

An organization operates a heterogeneous data center environment that includes ClearPath Dorado platforms. The company recently completed a ClearPath Appraisal Service to uncover ways to improve IT operations from both an >>

Figure 1: The Focus of the ClearPath Appraisal Service



automation and integration perspective (see Figure 1). The organization uses two ClearPath Dorado systems as its transaction-processing hub.

It also has a disaster recovery (DR) site with a third Dorado host and uses EMC® SRDF®/A for updates.

The Workshop

The Appraisal service began with a workshop that built consensus throughout the organization in the following key areas:

- Current level of automation and integration maturity across its IT landscape
- Future business strategies and the implication of each on IT
- Desired target automation and integration positions

Many opportunities for automation and integration improvement were identified during the workshop – and they were fully addressed in the final report. For this article, I'll focus on one major area of concern: DR.

The Findings: DR

While the current environment is very stable, workshop attendees expressed concerns about the manual effort involved in the DR process. A goal of “single click” recovery was identified, and specific DR and automation requirements were documented, including:

- Failover in 20 minutes from the point of authorization to go to the DR site
- Fallback within 2 hours

- Reduce dependence on a small number of experts by significantly simplifying DR processes
- DR process must be robust enough to be tested regularly
- DR process must be tapeless (the current process required tapes to be shipped to the DR site)

Finally, two approaches to improving the company's DR position were discussed: Use existing automation tools to streamline and fully automate the process; or consider a hot/hot or dual-active configuration where both sites share the production workload.

After the workshop, Unisys produced a formal report that detailed the requirements and recommendations needed to close the gap between current and target states. Rather than advocate a “big bang” approach to change, the Appraisal Service report defined specific, incremental steps that can be taken to move the organization to a higher level of maturity in stages to minimize risk.

To address the organization's concerns around DR, the report included two immediate, high-priority actions:

- **Recommendation 1:** Conduct a DR study and overall automation assessment.
- **Recommendation 2:** Do a preliminary investigation into the hot/hot configuration option.

The report also included eight additional recommendations that addressed concerns in the areas of application integration (SOA), application modernization (Eclipse and Java), and business analytics.

The Bottom Line

In total, the Appraisal Service helped the organization see a clear path from its current state to a desired future state – and laid a foundation for a range of projects over time. As such, it helped the organization focus its limited resources on high-priority tasks that have the potential to streamline operations and make more time available for new business initiatives.

To learn more about how your organization can benefit from ClearPath Advisory Services, contact your Unisys sales executive.

Learn More About ClearPath Service Offerings

Check out the following videos for additional information about the ClearPath Appraisal and TCO Assessment services:

- [ClearPath Advisory Services](#)
- [ClearPath Appraisal Service](#)
- [ClearPath TCO Assessment Service](#)
- [ClearPath Consulting Services](#)

Tech Corner: CIFS – These are a Few of Our Favorite Things

By Audrey Saunders, Bob Vavra, Chuck Caldarale, Jim Helgeson, Glen Newton, Paul Fraser, Murray Wilke, and Deb Hayes; Unisys TCIS

CIFS: A File Access Mechanism

Is copying and pasting files across systems the first – and only – thing that comes to mind when you think of CIFS? Then we have news for you: there's A LOT more to this product. Let's take a look.

First, CIFS is primarily a file *access* mechanism, not a file transfer one. And when you think about it in those terms, you'll see just how powerful this tool can be.

With CIFS installed, OS 2200 files can be manipulated from anywhere in the local network. Similarly, OS 2200 programs can alter files located across the local network, including those residing in Network-Attached Storage (NAS) subsystems.

How Secure is CIFS?

CIFS security combines the best of OS 2200 security and Portable Operating System Interface

(POSIX) security. CIFS uses standard OS 2200 security mechanisms, and extends them where necessary to match standard POSIX usage. For example, CIFS maintains access controls for elements, and grants access to a given file or directory based on a combination of the effective user ID of the requester, access permissions, and file attributes. Additionally, CIFS does not allow the use of remote procedure calls over its network connections.

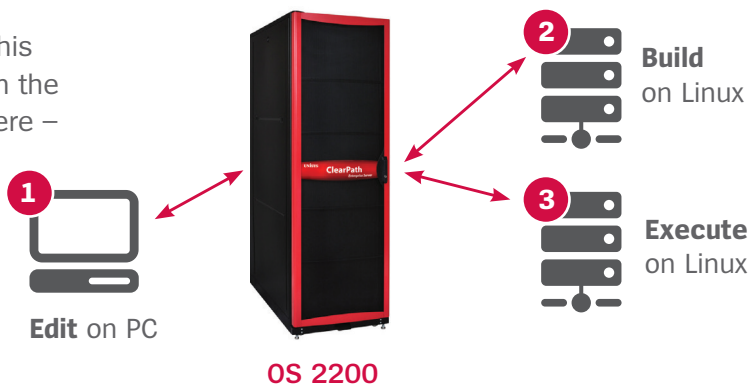
Using POSIX-Like Commands and Handling Industry-Standard Compressed Files

Within the OS 2200 environment, CIFSUT includes many POSIX-like commands that enable you to manipulate local and remote files, and ZIPUT provides a utility for handling industry-standard compressed files. Let's take a look at some examples. >>

Using CIFS: An Example

This diagram shows how a Unisys engineer uses CIFS in his everyday work environment. Notice that his files reside on the OS 2200 system – and are also stored and backed up here – while they are accessed from other platforms.

For example, he uses a PC-based editor (1) to edit the files directly on the OS 2200 platform. Then, he runs a build on a Linux® box (2) using the files on the OS 2200 system – and executes the programs on a different Linux machine (3) using the same OS 2200 files. Instead of Linux, he could use Windows, UNIX®, or even a z/OS based system.



Source files reside on the ClearPath OS 2200 platform and are backed up there, too (.cpp, .h, .o, and so on...).

Need to find files, but can't remember the qualifier?

Suppose you want to find some files but can't remember what qualifier they are named by.

In CIFSUT, you can do:

```
ls /os2200/*av*  
dave gaurav marchsave save5-31 savewk vavra  
ddpmav gravel save save5-28 travel
```

Followed by:

```
ls /os2200/gravel  
banklist cons-log dump-2 files lib$ print-2 rlib$  
comfil datfil dump-3 keyfil mcode$ print-3 run$  
comrun docfil dump-4 la-snaps pmifil print-4 savall  
configfil dump-1 extfil leadfa print-1 printer$ tblfil
```

And in a few seconds, you'll have your answer.

Without CIFS, you would need to create a breakpoint file, run @PRT, open the breakpoint file in a text editor, and use text searching to find your "av" candidates (some of which will be in text other than qualifiers). With CIFS, you can also use **cp**, **mv**, and **rm** commands with wild cards to operate on multiple files or elements. Granted, this can be misused, but UNIX administrators have been using wild cards for years and would not consider giving them up. The alternative is to use SSG or some other means to generate an addstream with @COPY commands for each complete element name.

CIFS Lets You Copy Files in a Way You've Never Been Able to Before

With CIFS, you can copy multiple elements from one OS 2200 file to another, copy all elements into a different file, or copy elements that have specific characters in specific places.

Copying multiple elements from one OS 2200 file to another

Here's an example of copying multiple elements from one OS 2200 file to another. (Note: In the examples that follow, it is assumed that the file qual*extrafile already exists and contains at least one element.)

First, the CIFSUT **cd** command is used to change the directory to your file (qual*mainfile) containing the elements you want to copy. Then, you'll just need to do an **ls** to display the elements in that file.

```
cd /os2200/qual/mainfile  
ls  
cat exltest ex2test mytest test test2 testa  
dog exltest fish proga test1 test3 testb
```

Copying all elements into a different file

```
cp * ../extrafile
```

In the above example, all elements will be copied to qual*extrafile. Note that a dot-dot (..) is used to refer to the parent directory you are currently in (/os2200/qual). >>

Copying elements that start with “test”

```
cp test* /os2200/qual/extrafile
```

In the above example, `test`, `test1`, `test2`, `test3`, `testa`, and `testb` will be copied to `qual*extrafile`.

Copying files that contain “test”

```
cp *test* ../extrafile
```

In the above example, `ex1test`, `ex1atest`, `ex2test`, `mytest`, `test`, `test1`, `test2`, `test3`, `testa`, and `testb` will be copied to `qual*extrafile`.

Copying elements that begin with “ex”, end in “test”, and have one character in between

```
cp ex?test /os2200/qual/extrafile
```

In the above example, `ex1test` and `ex2test` will be copied to `qual*extrafile`.

Copying all elements that begin with “ex”, end in “test”, and have anything in between

```
cp /os2200/qual/mainfile/ex*test /os2200/qual/extrafile
```

In the example above, `ex1test`, `ex1atest`, and `ex2test` will be copied to `qual*extrafile`. Note that in this instance, the fully qualified directory names are used. Unlike the previous examples, you do not need to be in the `mainfile` directory to perform this copy.

Eclipse

The OS 2200 IDE *for Eclipse* uses CIFS/SMB to access directories and files in the OS 2200 environment, so you can write and debug OS 2200 applications from your workstation.

What are our Favorite Ways to use CIFS?

When asked what three things they like to do best with CIFS, the team in frozen Minnesota identified the following as our favorites:

1. Use a PC editor to look at or modify an OS 2200 file or element
2. Use Windows Explorer to find an element within an OS 2200 file
3. Copy an OS 2200 file or element to a different OS 2200 file or element using Windows Explorer or a PC editor
4. Use CIFSUT to list OS 2200 files
5. Copy OS 2200 elements to PC files and vice versa using Windows Explorer
6. Use CIFSUT to locate files and/or elements using the `ls` command and wild cards
7. Use CIFSUT to copy/delete selected files and/or elements using the `cp` and `rm` commands and wild cards
8. Use Windows Explorer or DIR and COPY commands to examine/find files, copy them, etc.

And last, but certainly not least, the web master for our group’s home page uses Java running under the control of the OS 2200 environment and Tomcat to host our home page on our production OS 2200 system. CIFS is used to access and change its contents.

Given what you know now, what will be YOUR favorite things to do with CIFS? For additional information, please read the [“CIFS for ClearPath OS 2200 User, Programmer, and Administrator Reference Manual.”](#)



Storage News: New MCP Feature for Clone Copies

Historically, a cloned logical unit number (LUN) created on an MCP system could not be acquired and brought online to the same MCP system if the original copy of the LUN was already online (with two exceptions: Host Based Mirroring; and EMC SRDF business continuance volume (BCV) copies). Over time, other replication schemes, such as EMC RecoverPoint™ and EMC MirrorView™ software, have gained widespread adoption. And, organizations need the ability to acquire clones for a wider variety of purposes, including disaster recovery testing, data mining, and backup.

As a result, we recently introduced a new MCP software feature that allows you to acquire cloned LUNs on the same MCP system that they were created on using the same procedure used to acquire real BCV devices. The enhancement is available in an IC above 54.1 IC# 106, 55.1 IC# 30.

This new variant of the ACQUIRE PK command allows a cloned copy of a disk to be marked as a BCV. When the volume is acquired as a BCV and the Host Component for EMC TimeFinder® local replication software key is loaded, it enables the use of the MIRROR MARK and MIRROR IMPORT commands – allowing cloned copies to be acquired and used on the same system on which they were created. This allows other replication technologies, such as RecoverPoint and MirrorView software, to create and import cloned volumes in the same way that SRDF remote replication software has previously allowed this functionality. The feature is supported for VSS1, VSS2, and Logical Disk formats.

For more information about this new feature, consult support.unisys.com (user-id and password are required).



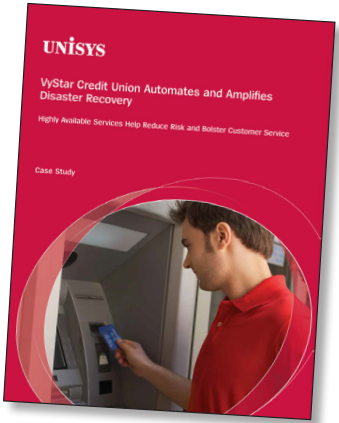
VyStar Credit Union Automates and Amplifies Disaster Recovery

VyStar Credit Union prides itself on providing exceptional customer service to its more than 400,000 members. And given the company’s location in hurricane-prone Northeast Florida, keeping key systems up and running is a critical concern. Although VyStar had a disaster recovery solution in place, there was growing concern about its ability to quickly restore the company’s operations following an unforeseen event.

To help VyStar minimize the effects of downtime, Unisys worked with the company to move its core banking application to a new ClearPath Financial Services FS4190 platform and transition its existing production server into a DR role. Unisys also included automation, replication, and storage components to automate failover and failback. In addition, Unisys helped VyStar test its failover measures and confirm the production environment would function properly on its backup system.

With these capabilities, VyStar is better positioned to maintain operations no matter the event, reducing risk and ensuring its all-important reputation is maintained.

[Read the full story.](#)



Calendar

WHAT	WHERE	WHEN
<u>BIS Symposium</u>	Roseville, Minnesota	April 17-18, 2013
Universe Conference (formerly UNITE)	<u>Marriott Oak Brook Hills Resort</u> , Chicago, IL	September 9-12, 2013
ClearPath Briefing	Ghent, Belgium	May 21, 2013
ClearPath Briefing	Oxford, UK	May 23, 2013



Resources

The list below contains quick links that will help you stay up to date on all things ClearPath.

- [ClearPath Libra homepage](#)
- [ClearPath Dorado homepage](#)
- [ClearPath OS 2200 homepage](#)
- [ClearPath MCP homepage](#)
- [Agile Business Suite homepage](#)
- [Business Information Server \(BIS\) homepage](#)
- [ClearPath & Innovation Blog](#)
- [ClearPath How-To Videos on YouTube](#)
- [ClearPath Libra/MCP Webinars](#)
- [ClearPath Dorado/OS 2200 Webinars](#)
- **[NEW eBook: ClearPath MCP Case Studies – Success through Business Process Automation](#)**
- **[NEW eBook: Built for Today, Ready for Tomorrow: Unisys ClearPath Systems](#)**
- **[NEW Guide: ClearPath OS 2200 Course Catalog](#)**
- **[NEW Guide: ClearPath MCP Course Catalog](#)**
- **[NEW Guide: ClearPath OS 2200 and MCP Specialty Partitions Course Catalog](#)**
- **[NEW Video: ClearPath Advisory Services](#)**
- **[NEW Video: ClearPath Appraisal Service](#)**
- **[NEW Video: ClearPath TCO Assessment Service](#)**
- **[NEW Video: ClearPath Consulting Services](#)**

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