

ClearPath Connection

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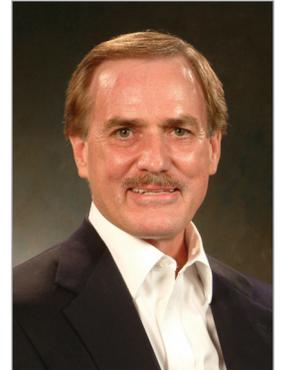
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ClearPath Program: Taking Stock, Looking Forward

By Bill Maclean, Vice President, ClearPath Programs, Unisys TCIS

Unisys investments in ClearPath over recent years have established a significant new program that goes far beyond what has historically been known as a “mainframe.” While the ClearPath platform retains all of the traditional mainframe attributes, it also features many new dimensions that establish leadership in agility, provide a new profile for economics, and enable solution enrichment on par with the industry’s most advanced technologies. This ensures that we will continue to deliver a platform environment that meets immediate business needs and helps customers keep pace with diverse market sector requirements.



Consider a few of the examples that are in production today:

- A major water company decided to expand its Internet payment options for an existing ClearPath-based solution. Using functionality developed in ClearPath ePortal, customers can now pay their water bills via a bar code generated for the Apple® iPhone® that can be read by an ATM.
- Using its ClearPath MCP JProcessor specialty engine, the University of Washington is now able to process student loan information using XML documents that follow the US Department of Education’s guidelines.
- A retailer has transitioned an existing sales application to provide salespeople with real-time product pricing and availability information via an iPhone – without requiring them to call a help desk and wait for a response – improving productivity and customer satisfaction.
- An organization modernized its existing solution using the ClearPath QProcessor specialty engine, enabling it to deliver test results to clients’ Microsoft® Windows®, UNIX®, and other platforms via an electronic data interchange (EDI)-like process, attach documents when additional information is needed, and archive messages in accordance with federal regulations.

Every one of these enriched solutions leverages investments in *existing ClearPath applications* and our *specialty engines* to drive innovation and address new market requirements. As these examples show, ClearPath specialty engines help organizations extend demanding, mission-critical applications for web and smartphone use. Unisys investment in specialty engines helps ClearPath customers take advantage of technologies, like Java and the Internet, without having to sacrifice anything in the way of security, performance, availability, and reliability.

Innovation Drives Growth

ClearPath customers have recognized the value of these innovations – showing their support via an increasing number of system upgrades and new installations. In fact, the ClearPath program had a stellar 2010 – experiencing sustained growth and acting as a major contributor to Unisys overall revenue and profit – which ensures its continued strategic position within our portfolio. More importantly, ClearPath revenue grew 5% from 2009 to 2010 – a very significant achievement in a year plagued with financial challenges. These great results confirm that our customers value a mission-critical platform that has the agility to keep pace with shifting market requirements. >>

In the past 15 months, we delivered a wide array of new products and technologies that have been well accepted by the worldwide ClearPath community, including:

- New platforms, including the Libra 750, Dorado 4100 series, and Libra 4100 series, which refreshed a large portion of the overall product range.
- Major system software releases for MCP and OS 2200, which introduced a huge number of new features and products, each of which addressed specific customer requirements.
- Specialty engine enhancements that enable a new horizon of creative ClearPath solutions to be reached today – and the enhancements coming in the next year will be even more compelling. This is exactly the kind of technology that encourages expansion of ClearPath solutions and development of new ones.

Such advances as those listed above are designed to help you make new solution investments with confidence. ClearPath customers worldwide have been finding new, efficient, and cost-effective methods of addressing the demands of user and customer communities – many of which would have resulted in higher development costs and more complex management requirements if performed in an environment other than ClearPath. What's more, these new technologies have been developed as an integrated product, helping you avoid investments related to system integration and supplementary management.

Focused on the Future of ClearPath

Reflecting on past ClearPath achievements is a good starting point, but identifying new goals is our real focus. There are numerous opportunities to deliver solution enhancements that can position ClearPath customers more competitively in their own markets. Likewise, continuing investments in ClearPath services accelerate the opportunity to exploit new ClearPath technologies. And, our expanding suite of ClearPath storage technologies will enable you to economically balance capacity and performance requirements. Together, these investments establish a highly positive environment for growth throughout 2011 and beyond.



The momentum generated by our newest ClearPath products, features, and technologies will surely be sustained throughout 2011. For example, we plan to introduce multiple platforms this year, giving even our largest customers the opportunity to grow their solutions. Likewise, major system software releases will address user-submitted requirements and introduce features that enable greater innovation. And, new specialty engine releases will expand device support, accommodate new open source capabilities, and deliver increased performance – further confirming their strategic importance to the ClearPath program.

While 2011 looks to be a very busy year, it is shaping up to be one that will expand the relevance of ClearPath to new solution environments.

We have gone beyond the promises written on PowerPoint slides to create an innovative environment capable of supporting solutions aligned with our fast-moving world. It would be our pleasure to assist you in getting there.

EMC Unveils New Storage Options

The ClearPath program has long been a strategic area of focus for our partnership with EMC® – and for good reason. As the hub for a multitude of mission-critical applications and business services, your ClearPath Libra and Dorado mainframes demand the best storage and data protection technologies the market has to offer. To this end, we have made it a point to proactively work with EMC as new solutions are being developed, so that we can identify and qualify those that are most relevant to the ClearPath environment.



In early 2011, EMC announced a host of innovative new systems and capabilities – and we have currently qualified the following products from this release for use in the ClearPath Libra and Dorado environments:

- EMC VNX™ series storage
- EMC Symmetrix VMAX™ storage

EMC VNX Series Storage

The VNX series combines your SAN and NAS storage into a single platform that can be shared by ClearPath and open systems servers, enabling you to cost-effectively manage multi-protocol environments.

VNX series storage systems integrate with such EMC backup and recovery solutions as virtual tape libraries (VTLs) and the new Disk Library for Mainframe (DLm) solution. The systems also offer the option to leverage EMC RecoverPoint software, giving you a cost-effective means of ensuring the recoverability and availability of your ClearPath infrastructure.

Moreover, the VNX series provides a good option for ClearPath users looking to transition from aging/end-of-life EMC CLARiiON® CX™, Symmetrix® 8000, and Symmetrix DMX-2 models 800 and 1000 platforms to a cost-effective, disc-based system that delivers improved performance over existing models.

EMC Symmetrix VMAX Storage

A top-of-the-line storage system, EMC Symmetrix VMAX combines enterprise-class performance and reliability with smarter security options that allow you to encrypt data with minimal performance impact – enabling you to support multiple petabytes of information and up to 5 million virtual machines.

Symmetrix VMAX systems feature Fully Automated Storage Tiering with Virtual Pools (FAST VP), which enables you to set policies that direct the system to automatically employ slow, medium, or ultra-fast discs for specific processes, helping you optimize performance in your ClearPath environment while lowering overall storage footprint.

The January 2011 product launch also includes many new capabilities for the EMC Engenuity™ storage operating environment. We are in the process of qualifying this software to determine the ways we can best leverage its ability to deliver greater efficiency, scale, and security in the ClearPath environment.

For more information about these new storage technologies, or to learn how to put them to use in your ClearPath environment, contact your Unisys account representative.

Tech Corner: Automation with Operations Sentinel

By John Stifle, Software Engineer, TCIS, Rob Jamieson, Architect, TCIS, Jim Malnati, Architect, TCIS, and Glen Newton, PhD, CISSP, Security Architect, TCIS

As your data center grows in both size and complexity, you're no doubt feeling pressure to keep a wide array of systems and applications available 24x7 to satisfy internal and external consumers alike. However, because doing so requires having a clear picture of what's going on at any given time across a heterogeneous infrastructure – and ensuring that human error doesn't compromise service quality – this is a considerable effort for even the most skilled operations staffs.

Therefore, automating processes around identifying, isolating, and resolving any problems that occur in your data center is key to keeping services up and running. And this is exactly what [Unisys Operations Sentinel](#) (known to many by its former name, SPO) was designed to help you do.

Operations Sentinel automates, consolidates access, monitors, and manages multiple heterogeneous systems. It can oversee a wide range of environments – from large, centralized data centers with multiple mainframe-class systems to fully distributed environments. The managed systems can be of one or many different types, including ClearPath MCP and OS 2200 mainframes, Windows, Solaris, UnixWare, Linux®, AIX, HP-UX, SVR4, other UNIX, VMS, and other system types, including environmental equipment.

Operations Sentinel features graphical, high-level system status displays and robust functionality that ranges from simple “ping monitoring” of routers, printers, and the like, to complex alert- and notification-driven workflows – giving you an up-to-the minute view of your entire data center operations from a single console.

The software integrates native system and network management technologies with a suite of intuitive tools that enable you to define a problem, connect it to a message the system receives, and outline the action to be taken in response. To help jump start automation efforts, sample Autoaction Message System (AMS) databases are included with the product.

Operations Sentinel supports the definition of centralized and standardized alerting with escalation policies, as well as the ability to create custom help text or use a knowledge base. It provides centralized logging and presents a unified view that consolidates the output from many tools. As such, it helps you automate and execute everything from routine workflows to the unique, infrequent actions that can be so hard to remember.

Together, these capabilities streamline and error-proof the process of monitoring and managing systems across your infrastructure – helping to improve service levels and system resiliency. Moreover, Operations Sentinel is a core enabling technology for creating “dark room” data center operations. >>

FYI for MCP Shops

Get step-by-step instructions that will have you benefiting from Operations Sentinel **in under 30 minutes**. The “Operations Sentinel for MCP Monitoring Getting Started Guide” is available with MCP Release 13.0 and can be downloaded from the Public Information section of the [Unisys Support website](#) (no log-in required).

Have You Seen the GUI?

In Operations Sentinel release 11, we completed a full modernization of the user interface to provide an intuitive, familiar Microsoft Windows GUI look-and-feel, while maintaining the console-based features of previous releases, including large alert icons and color-coded topological displays (see Figures 1 and 2).

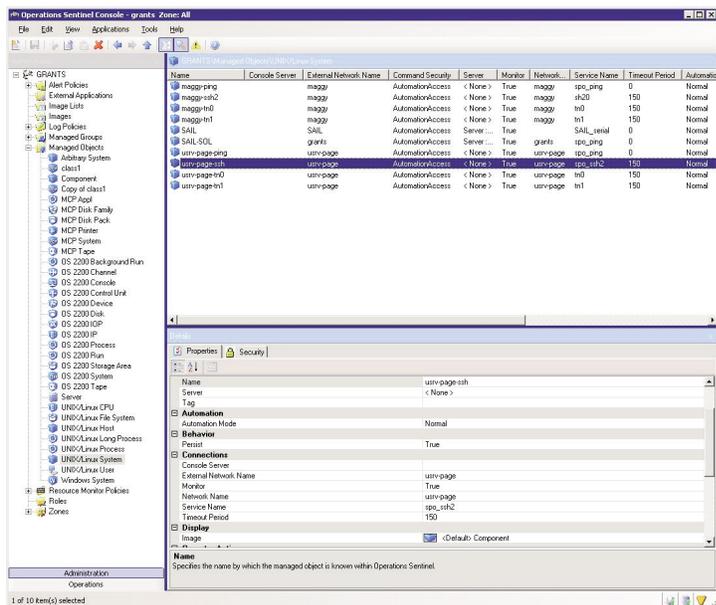


Figure 1: Operations Sentinel 11 Administration Console permits the addition, deletion, and modification of managed objects, policies, and views of the configuration.

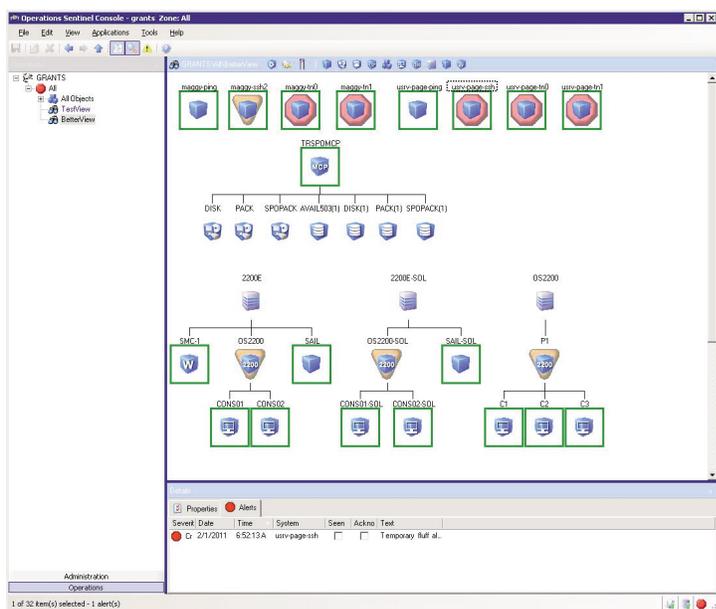


Figure 2: Operations Sentinel 11 Operations Console provides visibility of overall status and highlights situations that require operator attention. When an alert is raised, the operator can drill down into the alert to identify the specific condition and take corrective action via system-specific command-line interfaces. >>

In Release 11, we also expanded Operations Sentinel functionality to the point that there is no longer a need for the STATUS application, a product that required a separate license to run. In addition, we overhauled the Windows, UNIX, and Linux Resource Monitors so each is able to monitor a wider array of entities, including disk drives, desktop applications, file systems, event logs, and CPU utilization.

Putting Automation to Work for Your Organization

So what are the best ways to put Operation Sentinel's considerable capabilities to use in your data center? There are probably too many to count. But, we hope the following examples will inspire you to start using – or do more with – this powerful tool.

Automation Scenario 1 – Improving Daily Operations

Right out of the box, Operations Sentinel can help you more effectively monitor and manage your ClearPath OS 2200, MCP, UNIX/Linux, and Windows resources through the simple setting of thresholds in the Operations Sentinel Console. (For UNIX/Linux and Windows, an appropriate resource monitor is required.) For example, such key resources as CPU and memory can be monitored and alerts raised, as necessary. The powerful logging capability captures console traffic, which can be used to analyze problems, fulfill audit requirements, or assist with operations and performance analysis.

With a little automation work on your part, perhaps kick started by the supplied sample AMS databases, it's a straightforward process to analyze console traffic for failed jobs and send an alert to the appropriate resource. In addition, operator responses could be automated to help eliminate accidental data entry errors and speed up batch processing. In our experience, once a site is familiar with the powerful functions and ease of use of Operations Sentinel, the opportunities for improving operations through automation are limitless.

Automation Scenario 2 – Streamlining Business Continuity and Disaster Recovery Processes

Operations Sentinel is invaluable when it comes to ensuring continuous operations and orchestrating recovery from a major or minor disaster. For example, many ClearPath customers use EMC Symmetrix storage devices, and rely on EMC Symmetrix Remote Data Facility® (SRDF) software for data replication and EMC TimeFinder® software for snapshots. It takes experience and knowledge to properly apply these tools – without them, your organization runs the risk of being unable to replicate data or even experiencing a loss of production data.

Many organizations use Operations Sentinel to automate and monitor their SRDF and TimeFinder infrastructures. The Operations Sentinel Console provides a GUI view of the current state, including EMC devices and software. Even the most complex functions of SRDF and TimeFinder – such as establishing or splitting data replication, creating a Business Continuance Volume (BCV), or even switching processing to the backup environment in the event of a true disaster – can be automated through Operations Sentinel AMS database scripts with alerts and command actions occurring for key events (see Figure 3 on the following page for an example).

In addition, Operations Sentinel provides a centralized logging feature that records SRDF and TimeFinder activity, which can be useful for audit purposes. It also monitors the remote data facility (RDF) state, as well as the RDF directors, and raises alerts if an exception occurs. The solution can also be used when SRDF and TimeFinder are used with Windows, Linux, and UNIX servers. >>

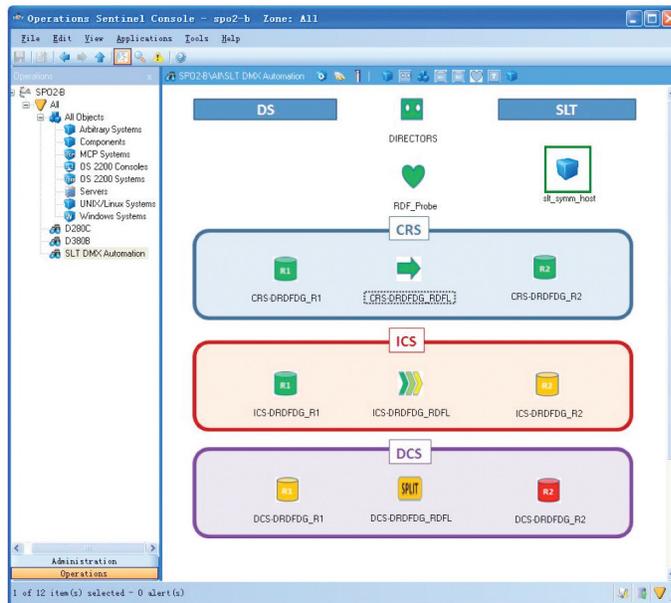


Figure 3: Operations Sentinel Operations Console, showing an example of how EMC storage functions can be automated.

Automation Scenario 3 – Handling and Escalating Exception Events

The bread and butter use for a tool like Operations Sentinel is to raise issues before they escalate out of control. Following are just a few ways the solution can be used to help escalate exceptions to the right person and get attention focused on fixing the problem.

- Clearing deadlock conditions:** ClearPath servers handle internal deadlock conditions well, but what about deadlocks on external resources? An Operations Sentinel AMS database can be used to match a deadlock message to a task, submit appropriate commands to clear the condition, and, at the same time, raise an alert to notify administrators of the action. If the condition does not clear as expected, an escalated alert can then be raised to first-level support to report the continuing condition. This status-check/alert process can be repeated with additional escalation measures, such as paging higher-level support personnel, until the condition is cleared.
- Handling excessive transaction queuing:** To address performance issues associated with transactions backing up in a queue, most organizations make their operators responsible for keeping an eye on the queues. With Operations Sentinel, an AMS database can perform that monitoring automatically – triggering periodic probes of the system, examining the reported results, and watching for a configured threshold. When the threshold is crossed, the script can automate further corrective action and/or initiate a series of time-based, escalating alerts to clear the problem well before it becomes a serious issue. >>

What to Look for in Operations Sentinel 12.0

Recently released, Operations Sentinel 12.0 offers new features that help you further automate your data center operations, including:

- A C# version of the Event Server API, which provides C# engineers with functionality similar to that of the existing C-version of the API
- Support for 64-bit Windows operating systems and the ClearPath ePortal specialty engine
- The ability to auto-configure Windows, UNIX, and Linux systems
- A configurable AppManager polling interval
- The ability to preserve existing configurations when installing or patching the software

The basic edition of Operations Sentinel is included in the OS 2200 and MCP operating environments, so there's no additional charge to take it for a test drive. And, Unisys offers technical consulting services that can help your team get up to speed on the product – and/or automate processes in your environment.

How are you using Operations Sentinel to automate your data center environment? [Tell us more.](#)

ClearPath on YouTube

Did you know that YouTube is more than a place to view videos of cats and failed skateboarding tricks? It's true – the site can actually be quite informative and educational. Case in point: [Unisys ClearPath channel](#).

Here, you'll find three playlists featuring “how to” videos about [ClearPath OS 2200 JProcessor Specialty Engine](#), [OS 2200 QProcessor Specialty Engine](#), and [ClearPath MCP Workload](#). These videos provide detailed training about such activities as managing security on the JProcessor, setting up the QProcessor for high availability, and extracting statistics from MCP systems.

In addition, our YouTube channel includes a playlist called “[Cool Capabilities](#),” which features high-level videos about things like ClearPath and SOA, smartphone integration, and ClearPath Cloud Development and Test.

New videos are posted regularly, so [take a look](#) now. If you like what you see, subscribe to the [Unisys ClearPath channel](#) and you'll be notified whenever new content becomes available for your viewing pleasure.

Many of these high-level videos are also available on Unisys web site, including:

- [ClearPath and Smart Devices](#)
- [ClearPath SOA](#)
- [ClearPath SOA eBook](#)
- [ClearPath Cloud](#)
- [ClearPath as an Open System](#)



Partner Corner: Locum Software Services Limited

MCP

Founded in 1986, and developing security solutions for ClearPath MCP systems since day one, Locum Software Services Limited serves security-conscious organizations throughout Asia, Europe, and the Americas.

From the outset, Locum's solutions have focused on delivering the capabilities users need to enhance, evaluate, monitor, and audit system security using in-house resources – eliminating the need to contract costly external consultants to perform these important tasks.

Locum leverages in-depth MCP know-how and the practical experience gained from a combined total of 150+ years of experience evaluating the security measures of customers the world over to create such solutions as Safe & Secure, SecureAudit, SafeSurvey – and its newest offering, RealTime Monitor.



Locum RealTime Monitor: Constant Monitoring/Immediate Notification

Locum RealTime Monitor builds on a 25-year tradition of intuitive, MCP-focused security solutions. Designed to help organizations respond to mounting regulatory requirements around tracking the security of computing and network resources on an ongoing basis, Locum RealTime Monitor provides notifications in real time – as problems occur – eliminating the need to retroactively search for events in the system log. The solution offers a holistic, simultaneous view of all MCP systems, helping to provide a clear picture of any security events or exposure points across an organization's environment.

Using MCP's event notification mechanism, Locum RealTime Monitor's key capabilities include:

- Preconfigured, default alerts and activity codes, which allow the solution to be put to work right out of the box
- Flexible definition of security and system events as alerts with associated thresholds and automated notification and escalation – tailored to an organization's unique security concerns
- Seamless integration with the ClearPath MCP environment, including automatic installation with the MCP release, integration with Unisys SecurityCenter, and the availability of the Locum RealTime Monitor configuration tool as a SecurityCenter snap-in
- Dashboard view that ranks events by severity
- Ability to simultaneously monitor multiple MCP systems
- PC-based, with online HTML help

For example, users can configure Locum RealTime Monitor to send an email to the appropriate personnel anytime a particular alert occurs – and send follow-up messages escalating the notification, as needed. Locum RealTime Monitor can also display alerts in several formats, such as a dashboard that displays customer-ranked events by severity, and establish thresholds that determine when a notification is sent and an action is taken.

You Already Have It, So Give It a Try

To help you get a sense of how Locum RealTime Monitor can bolster the security of your MCP environment, a limited-functionality license comes standard with your MCP release. This version of the software lets you explore the preconfigured features of RealTime Monitor.

To learn more about Locum and Locum RealTime Monitor, contact your Unisys account manager, or visit locumsoftware.co.uk.

Webinars and Webcasts

Below you'll find lists directing you to recordings of some of the ClearPath focused webinars and webcasts we've recorded over the last few months.

ClearPath Webcast Recordings: Learn from Unisys Top ClearPath Experts!

"Attend" our in-depth technical seminars, and we'll show you how to take immediate advantage of the latest ClearPath technology innovations for application development and modernization, security, and cloud computing. Leverage our expertise and learn tips and techniques that can be applied to your specific needs. View the recordings and attend the webcasts!



General Interest:

- [Unisys ClearPath Cloud: Development and Test](#), presented by Stuart Smith

ClearPath OS 2200 Technical Focus:

- [Unisys Announcement: New Entry and Mid-range Dorado Servers](#), presented by Brian Herkalo
- [Web Services for ClearPath MCP and OS 2200 Applications](#), presented by Ralph Deyoreo
- [Smart Phone Integration with ClearPath OS 2200 and MCP Applications](#), presented by Ralph Deyoreo
- [Integrated Development Environment for ClearPath OS 2200](#), presented by Malathiri Kalpana
- [Unisys ClearPath OS 2200 Encryption Insights](#), presented by Dr. Glen Newton
- [ClearPath Dorado Storage Products and Solutions](#), presented by Steve O'Brien

ClearPath MCP Technical Focus:

- [Unisys Announcement: New Mid-range Libra Servers](#), presented by Diane Towill
- [Web Services for ClearPath MCP and OS 2200 Applications](#), presented by Ralph Deyoreo
- [Smart Phone Integration with ClearPath OS 2200 and MCP Applications](#), presented by Ralph Deyoreo
- [Integrated Development Environment for ClearPath MCP](#), presented by Ashok Kumar Velladurai
- [Unisys ClearPath MCP 13.0 Security Overview](#), presented by Mike Kain
- [ClearPath Libra Storage Products and Solutions](#), presented by Steve O'Brien

Best of UNITE 2010 Webinar Series Recordings

Check out what you may have missed if you weren't at UNITE 2010:

- [Business Information Server for ClearPath OS 2200: Product Review of the Release 47](#), presented by Richard Goldberg
- [How to Secure a ClearPath OS 2200 Server](#), presented by Dr. Glen Newton
- [Using – Really Using – COBOL-85](#), presented by Paul Kimpel
- [An Agile Business Suite User Case Study](#), presented by Jim Nichols

Unisys.com to Replace eCommunity

Over the last six months a number of subtle, yet important, changes have taken place within Unisys.com. Our goal is to make the web site your one-stop shop for all things Unisys, including product information, thought leadership, blogs, events, and more.

The change that's most relevant to ClearPath customers is the addition of a further level of detail for ClearPath Libra and Dorado platforms, MCP and OS 2200 operating environments, and associated capabilities, such as our specialty engines, Agile Business Suite, and Business Information Server. Today, you'll find more robust product and solution information for ClearPath solutions, products, and services in the Offerings section under Data Center Transformation, ClearPath Systems and Services.

In addition, there are some excellent ClearPath reference materials in the Research & Innovation section of Unisys.com. Simply click on "Publications" in the left column and you'll see a number of major categories, such as case studies, whitepapers, and multimedia. Enter one of those sections, and use the "Filter By" drop downs to narrow your choices. For example you can filter by "Data Center Transformation" and "ClearPath Systems and Services."

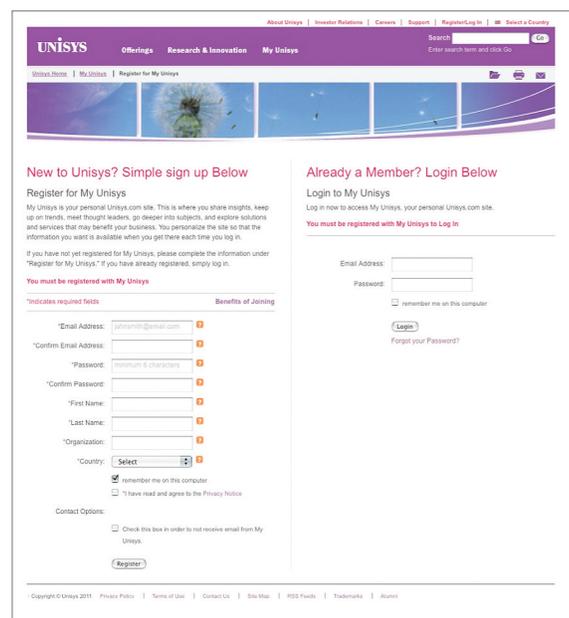
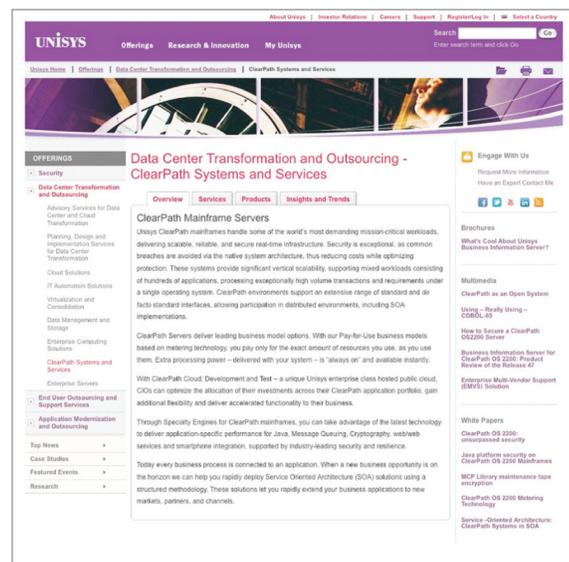
Make Unisys.com Yours

We encourage you establish your own, personal Unisys.com site via the My Unisys function. It only takes a minute and creates a place where you can keep up with trends, meet thought leaders, and explore solutions and services that may benefit your business.

We will continue to add resources and capabilities to Unisys.com and My Unisys over the months to come. For example, we plan to provide support for communities of interest by the end of 2011. And, Unisys.com will continue to be the hub of our social media functions, including Twitter, Facebook, and blogs. With all these efforts, we are also laying the groundwork for an orderly and thoughtful decommissioning of the eCommunity, which will take place in the second half of 2011. All eCommunity members who allow Unisys to communicate with them via email will receive a notification when a final date for closure is set.

Our advice? Don't wait. Check out the new content and join the thousands of other Unisys aficionados who have already created a personalized My Unisys view!

Have suggestions for ways to improve Unisys.com? We want to hear from you. Please contact WebsiteFeedback@Unisys.com.



Resources and Calendar

The list below contains resources that will help you stay up to date on all the latest news and announcements in the ClearPath world.

- [ClearPath Libra homepage](#)
- [ClearPath Dorado homepage](#)
- [ClearPath OS 2200 homepage](#)
- [ClearPath MCP homepage](#)
- [Agile Business Suite homepage](#)
- [Business Information Server \(BIS\) homepage](#)
- [Jim Thompson's blog homepage](#)
- [Unisys ClearPath Systems Management: Maximising IT Service Availability](#)
- [NEW University of Washington case study](#) featuring ClearPath MCP JProcessor specialty engine

Do you use an Apple iPad®? [Unisys technical documentation](#) is just a tap away via Safari®. Check it out!

Check our calendar for the latest information about upcoming events.

What	Where	When
ClearPath Briefing UK	Towcester, UK	May 10, 2011
ClearPath Briefing Benelux	Antwerp, Belgium	May 12, 2011
ClearPath Briefing Paris	Paris, France	May 18, 2011
UNITE Annual Technology Conference	Hyatt Regency Orange County , Anaheim, CA	May 22-25, 2011

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