

UNISYS

ClearPath Connection

A Quarterly Newsletter for Unisys ClearPath Customers



Contents

- 1 **Looking Back, Looking Ahead**
2013 was a remarkable year for all things ClearPath – one that sets the stage for an even better 2014.
- 3 **Announcing ClearPath OS 2200 Release 15.0** 
ClearPath OS 2200 Release 15.0 includes a number of updates, enhancements, and new features designed to increase the performance, availability, and security of your Dorado systems.
- 5 **Important Message for All ClearPath Dorado/OS 2200 Customers** 
New in OS 2200 Release 15.0, the Daylight Saving Time Adapt feature requires special attention by all users of Dorado platforms.
- 7 **Tech Corner: What's Coming in ClearPath ePortal 6.0?**
ClearPath ePortal 6.0 delivers many new features and enhancements that can help you effectively modernize your ClearPath applications.
- 10 **Modernizing Your Mission-Critical ClearPath Applications**
ClearPath Application Modernization Services can help you extend and enhance the investments you've made in your mission-critical ClearPath applications.
- 12 **Enterprise Output Manager 11.0 Is Here!**
Enterprise Output Manager Release 11.0 introduces several key new capabilities, including the XML Template Utility.
- 13 **Operations Sentinel 14.0 Has Arrived**
The latest version of our automated systems management tool is built to help you further simplify the administration of your ClearPath platforms and applications.
- 14 **Resources and Calendar**
We provide a wide array of materials to help you stay up to date on everything that's happening in the ClearPath world.

Looking Back, Looking Ahead

By Brian Herkalo, Director, ClearPath Solutions and Portfolio Management, Unisys TCIS



2013 was a banner year for ClearPath in every definition of the word. It was marked by a number of great releases, new customers, successful events, and more. When I look at 2013 as a whole, it can be summed up in two words: “communication” and “innovation.”

A Renewed Focus on Communication

2013 saw a heightened focus on how we connect with organizations and the people who rely on ClearPath solutions to run their operations. Driven by a goal of broadening and expanding our customer communications program, we reached out to more ClearPath clients in 2013 than years past and greatly expanded our customer training offerings.

Our communications throughout the year included many customer events around the globe. For example, we held Future Matters events in the Asia-Pacific region, Tech Forums in Latin America, and ClearPath Briefing Days throughout Europe. In addition, 2013 also debuted the inaugural Universe Conference. Held in Chicago, Illinois, Universe provided a great, open forum for Unisys and our clients and partners to share strategic, tactical, and technical insights and discuss the strategies underpinning the future direction of our hardware, software, and services. The conference was a resounding success and laid the foundation for an even richer experience in the coming years.

In addition, we increased the amount of available collateral and resources for all ClearPath users. And, we continually engaged with the ClearPath user community and routinely shared news, insights, and updates over Twitter, LinkedIn, and Facebook. >>

ClearPath Channel
Over 50 Videos Online!



Innovation Leads the Way

2013 proved, once again, that the words “ClearPath” and “innovation” go hand in hand. Just consider the wide array of hardware, software, and related products and services we delivered last year.

For starters, we rolled out both [ClearPath MCP 15.0](#) and [ClearPath OS 2200 14.0](#), releases that added hundreds of updates, enhancements, and new features to our two premium operating environments.

We also introduced the [ClearPath Libra 4200 High Availability models](#). In a first for Unisys, these new systems brought enterprise-class availability to a mid-range platform, giving clients an affordable disaster recovery (DR) capability – and potentially eliminating the need for a third-party DR relationship.

The concept of high availability was extended to mid-range Dorado platforms this year, as well. We integrated the ClearPath Dorado 4200 family of systems with [Extended Processing Complex Locking \(XPC-L3\)](#), a database record locking solution that enables the platforms to participate in multi-host clusters. This added extraordinarily high levels of availability to these workhorse Dorado environments – and brought organizations as close as possible to non-stop operations.

For me, the biggest, most innovative moment came at the end of last summer: the release of the groundbreaking [ClearPath Libra 8290 system](#). The introduction of the highest performing, most powerful member of the ClearPath Libra family was noteworthy in a number of ways. But the most exciting aspect of the platform’s release is that it made the goals outlined in our Next-Generation Server Architecture strategy a reality.

Many ClearPath users were somewhat skeptical when we said we would deliver an Intel® based platform that exceeded proprietary processor systems in terms of performance. The Libra 8290 platform proves we kept our word and achieved the lofty goals we established back in 2005.

In fact, the Libra 8290 system is so impressive, I was even stopped several times at Universe by clients who wanted to know how we were able to accomplish what we did. And even Intel® has mentioned how the system is pushing the technological envelope.

Recent Press Releases

- [New Top-of-the-Line Unisys ClearPath Libra System Boosts Performance for Mission-Critical Applications by Up to 20 Percent](#)
- [Unisys to Showcase Innovations at Universe Event in Chicago](#)
- [Unisys Boosts Mobility, Openness, Security, and Availability of ClearPath Dorado Servers](#)
- [Unisys Enhances Mission-Critical Capabilities of ClearPath Libra Systems](#)

In addition to the attention and praise it received, the Libra 8290 system once again reaffirmed our commitment to the ClearPath program – and caused many of our long-time clients to do the same. It’s clear evidence of the trust organizations have in Unisys, ClearPath, and the roadmap we’ve laid out for the platform.

New Year, New Goals

All of our achievements in the past year have laid the groundwork for a banner 2014 – one that has the potential to surpass the innovations delivered in 2013. And already we’re well on our way. [ClearPath OS 2200 Release 15.0](#), [ClearPath ePortal 6.0](#), [Enterprise Output Manager Release 11.0](#), and [Operations Sentinel Release 14.0](#) represent the first of many new innovations we’ll be introducing this year.

And on a personal note, I’m thrilled to be part of this exciting time in the ClearPath world. I’ve been with Unisys for quite a while – having worked in everything from manufacturing and engineering, to project management and marketing – and am very much looking forward to seeing what the future holds for ClearPath.

Announcing ClearPath OS 2200 Release 15.0



We are excited to announce the availability of ClearPath OS 2200 Release 15.0! This latest version of the OS 2200 integrated software stack for ClearPath Dorado systems delivers 111 software products, 136 feature updates, and 40 stability updates. In addition, new feature suggestions from customers accounted for 36 new features across more than 10 software products.

And as with every new operating system release, all components of OS 2200 15.0 have been designed, developed, tested, and qualified as a single unit. This means a considerable amount of time was spent confirming that all products and features effectively work together to provide the performance and reliability your mission-critical applications require.

Noteworthy new features, updates, and enhancements in OS 2200 Release 15.0 include:

Apex: An **all-new** product for OS 2200, Apex provides an easy-to-use, intuitive, web-based user interface for managing the OS 2200 operating environment – one that consolidates administrative tasks that were traditionally performed using various Unisys provided and user-developed utilities and processes. The initial release of Apex includes capabilities that simplify OS 2200 security administration. The ultimate goal of Apex is to make OS 2200 administration so easy that a less experienced user can effectively manage the system. Apex is designed to increase the manageability of Dorado platforms for new users, or anyone who wants to generate cost efficiencies, by employing a common set of administrative resources across a heterogeneous data center.

CIFS: CIFS for ClearPath OS 2200 includes the new 64-bit File System Access feature, which enables you to access large files on remote

servers. In addition, the inclusion of Extended Binary Coded Decimal Interchange Code (EBCDIC) in CIFS translation capabilities gives you better interoperability with IBM EBCDIC-based systems. And, CIFS now generates system log entries for several events that were not previously recorded, including network user authentication attempts and remote file access authorization, helping you increase security and improve accountability and tracking.

RDMS: In OS 2200 15.0, RDMS includes an additional SQL capability that allows you to limit the number of records returned and perform similar SQL queries across different databases, with the objective of improving performance while boosting interoperability. Additionally, enhancements to the interface between RDMS and RDMS JDBC is designed to reduce the CPU usage required to fetch records.

Security: This release builds upon the proven security of OS 2200 environments by enhancing the system configuration defaults to align with the latest industry-standard security best practices. What's more, these enhancements also allow administrators to prohibit unsecure network connections and only allow those secured by SSL/TLS.

MHFS: OS 2200 15.0 increases the number of hosts that can participate in a Multi-Host File Sharing (MHFS) environment from four to six. >>

DSTA: OS 2200 15.0 introduces the Daylight Saving Time Adapt (DSTA) feature, which allows you to automate the daylight saving time shift without interrupting critical applications or taking down your system. To learn more about what's involved in the DSTA feature, please refer to the [article later in this issue](#).

ClearPath OS 2200 IDE for Eclipse™: ClearPath OS 2200 15.0 is designed to accelerate software development with 17 enhancements that improve the integration of and support for OS 2200 software in the Eclipse environment.

ClearPath ePortal for OS 2200: The [ClearPath ePortal for OS 2200](#) has been updated in OS 2200 15.0 to provide access to OS 2200 data from the latest mobile devices and support the [UTS data source](#) and OS 2200 Display Processing System (DPS). The ClearPath ePortal for OS 2200 level 2.1 corresponds with ClearPath ePortal 5.1.

Dump Tapes: OS 2200 15.0 adds Exec support for labeled dump tapes, helping you reduce the likelihood of erroneously overwriting tapes. It also removes Exec support for unlabeled tapes, as these are either difficult or impossible to use with some virtual tape subsystems.

Enterprise Output Manager: [Enterprise Output Manager Release 11.0](#) is included in OS 2200 15.0. This latest version of our cutting-edge output management tool features the all-new XML Template Utility, updates to the Web Assistant and Data Dependent Attribute (DDA) Designer, enhanced security, and much more.

Operations Sentinel: OS 2200 15.0 includes [Operations Sentinel Release 14.0](#). The newest release of our automated systems management tool has been enhanced with support for Dynamic Solutions International (DSI) virtual tape libraries (VTLs), Microsoft® Windows® 64-bit operating systems, graphical status reports, and much more.

Together, the updates and enhancements built into ClearPath OS 2200 Release 15.0 will help your organization:

- Better manage operating expenses by eliminating labor-intensive manual processes and enabling business process integration
- Cut development times by using a common set of open-source, Eclipse based tools for all platforms
- Increase business agility with a reliable, highly secure, real-time infrastructure that accommodates flexible, Service Oriented Architecture (SOA)-enabled applications
- Better protect your assets from internal and external attacks by managing sign-on and access rights
- Operate a robust transaction-processing environment

Please visit the [OS 2200 homepage](#) to learn more about the updates and enhancements included in OS 2200 Release 15.0. And please do not hesitate to contact us if you need any assistance migrating to OS 2200 15.0 or implementing any of the release's new features. We offer a portfolio of services that can help you quickly benefit from everything OS 2200 15.0 has to offer. Please contact your Unisys sales representative for details.



Important Message for All ClearPath Dorado/OS 2200 Customers

The new ClearPath OS 2200 Release 15.0 requires additional preparation and special considerations by ALL organizations with ClearPath Dorado systems.

As we discussed in [the OS 2200 15.0 article](#), this release has many important features for application modernization, security, data center transformation, and mission-critical processing. In particular, it has a special focus on further improving the already high availability of OS 2200 applications.

Among the key availability updates in OS 2200 Release 15.0 are the new Daylight Saving Time Adapt (DSTA) feature and other time-related enhancements. The DSTA feature gives you the option of enabling dynamic seasonal time shifts without application interruption and is designed to reduce system downtime.

Release 15.0 Mandatory Migration Considerations

Some DSTA and related system enhancements involve updates to visible software or data structures that affect all sites, regardless of whether or not you plan to take advantage of the new dynamic seasonal time shift capability.

Early preparation for moving to OS 2200 Release 15.0 is critical for every site and should include the following key considerations:

- OS 2200 Release 14.0 is the required stepping stone to OS 2200 Release 15.0 and higher – it is recommended that sites upgrade to release 14.0 as soon as feasible.
- Mandatory migration procedures are required for all sites moving to OS 2200 Release 15.0 or higher.

We recommend that you start your migration planning by reading a list of frequently asked questions, which covers high-level information about OS 2200 Release 15.0 migration and the DSTA feature. This information is available on the Unisys Support web site in [ClearPath OS 2200 Release 15.0 and Daylight Saving Time Adapt Frequently Asked Questions \(8222 3959\)](#).

Actions for ClearPath Dorado/ OS 2200 Customers

1. Move to OS 2200 Release 14.0.
2. Develop your OS 2200 Release 15.0 migration plan – making use of the procedures provided in [Mandatory Migration Actions for ClearPath OS 2200 Release 15.0 and Higher \(8222 3777\)](#) in addition to [ClearPath OS 2200 Software Planning and Migration Overview \(7831 0349\)](#)
3. As was previously noted, some DSTA and related system enhancements involve updates to visible software or data structures. Therefore, you should examine your OS 2200 utilities and OS 2200 local code for dependencies on data structures and make the necessary changes where appropriate.
4. Assess your application code. It is unlikely applications will be affected, but we recommend that you undertake a thorough assessment to confirm that fact for your organization. >>

For Organizations that Plan to Use the Dynamic Seasonal Time Shift Capability

Performing dynamic seasonal time shifts is optional and is a decision that will be unique to each site. If you plan to use the capability, please take the time to examine your application code for time sequence dependencies and make changes where necessary.

If you wish to perform dynamic seasonal time shifts – and currently do not use Coordinated Universal Time (UTC) – you should review your environment and time shift requirements to determine whether the use of a dynamic seasonal time shift is applicable.

Additional Information Is Available

Information about Release 15.0 migration considerations was first made available in ClearPath OS 2200 Release 14.0. The information was written from a forward-looking and pre-planning perspective to allow organizations to begin thinking about the migration.

The ClearPath OS 2200 Release 15.0 Documentation Library includes updates to the following documents and replaces any release 14.0 documentation being referenced:

- [Mandatory Migration Actions for ClearPath OS 2200 Release 15.0 and Higher](#)
- [ClearPath OS 2200 Release 15.0 and Daylight Saving Time Adapt Frequently Asked Questions](#)
- [ClearPath OS 2200 Software Planning and Migration Overview](#)
- Affected products, individual guides

In addition to the in-depth information on OS 2200 Release 15.0 migration that's covered in [Mandatory Migration Actions for ClearPath OS 2200 Release 15.0 \(8222 3777\)](#), we've made the following Universe 2013 presentation available for review:

- [Important to All ClearPath OS 2200 clients – Migration to OS 2200 Release 15.0](#)

Both the document and presentation are written for OS 2200 technical experts.

These documents (and all Unisys product information) can be found on the Unisys Support web site. You do not need a user id/password to access documentation. Simply go to support.unisys.com and click the “Documentation” button under “Public Information” on the upper left-hand corner of the page.

Unisys ClearPath Services are available to help you assess and upgrade to OS 2200 Release 15.0. This includes assessment and project services to help take advantage of the new features, such as dynamic seasonal time shift. Please contact your Unisys sales representative to learn more.

Tech Corner: What's Coming in ClearPath ePortal 6.0?

By Stuart Smith, Senior Manager, ClearPath Solution Management, and Ralph Deyoreo, Architect and Engineering Manager, Unisys TCIS



ClearPath ePortal enables you to rapidly extend your applications to new partners, channels, and markets through web, mobile, or web services technologies. A major new release for both ClearPath MCP and OS 2200 customers, ClearPath ePortal Release 6.0 can help you enhance the reach and value of your mission-critical ClearPath applications by delivering “edge of market” modernization functionality.

In addition to support for the latest version of Microsoft Visual Studio® 2013, the release provides access to the newest Microsoft integration features, which can help you optimize multi-tier, web, mobile, and web services integration projects without requiring complex programming.

ClearPath ePortal 6.0 also helps you maximize mobile agility with hybrid apps that integrate your ClearPath applications with the native features of contemporary tablets, smartphones, and other mobile devices. With ClearPath ePortal 6.0, you can develop solutions for both mobile devices and desktop platforms using a common, responsive framework, enabling you to accelerate your modernization projects while realizing cost efficiencies.

And, you can move to ClearPath ePortal 6.0 at your own pace, using the features you need when you need them, and make a full migration on your own terms.

Let's take a deep dive into the key features and functionality in ClearPath ePortal 6.0.

Microsoft Visual Studio 2013 Compatibility

Compatibility with the latest version of Visual Studio 2013 (Professional or higher) delivers numerous capabilities, including:

- The newest web standards, updated code and design editors for HTML5, CSS3, and JavaScript,

integrated multi-browser testing, improved IntelliSense, additional deployment options, and more.

- The ability to expose any ClearPath Data Source as .NET annotated models, which enables easy integration with the widest range of Microsoft application development technologies, while automating presentation generation, model binding, and validation between models and their presentations across a variety of Unisys and Microsoft project types.
- Support for NuGet, a package manager that provides continuous, incremental, dependency-checked feature updates to ClearPath ePortal.
- Visual Studio Multi-Targeting for the .NET Framework, which allows you to work with the latest versions of the .NET Framework or target an earlier one from within the same version of Visual Studio, enabling you to easily import earlier iterations of ClearPath ePortal projects without risking upgrade changes.
- Support for the new Visual Studio One ASP.NET unified web project, which makes all of the web development features in ASP.NET available from a single web project, avoiding hard-to-change initial project choices.
- New edit and build options that provide improved development cycles and better build performance when working with Agile Business Suite (AB Suite) and other applications that typically contain large numbers of transactions and messages. >>

New Feature: Support for Microsoft ASP.NET Model-View-Controller 5

Model-View-Controller (MVC) is a popular design pattern that is designed to reduce application complexity by separating major functionality into flexible, customizable components. ClearPath ePortal 6.0 supports the Microsoft ASP.NET Model-View-Controller 5 (MVC 5) Framework as an alternative to ASP.NET Web Forms for web, mobile, and web service presentation generation. MVC 5 brings many unique advantages, including:

- An architecture that promotes separation-of-concerns, test-driven development, pluggable and extensible components, and flexible request routing policies – and gives web designers a high degree of control and choice of client-side, presentation technologies, and frameworks.
- Support for all ClearPath MCP and OS 2200 application Data Sources, including AB Suite, EAE, 3GL COBOL and UTS/T27 terminal screen applications, Open OLTP, and forms presentation libraries (DPS/SDF) within a single project.
- Presentation generation based on the Microsoft Templating Engine, which makes it possible to change the type of presentation generated by modifying simple, text-based templates.
- Compatibility with popular, open-source, client-side frameworks, like jQuery, Knockout, AngularJS, Backbone.js, and others, for complete application control and rich client-side scripting.
- The ability to target desktop and mobile applications using the Bootstrap responsive client-framework, which employs a single project and common code to provide an optimal experience across devices by using HTML, CSS, and JavaScript to adapt the presentation based on screen dimensions and device capabilities.
- Automatic generation of MVC Models, Views, and Controllers based on new or existing ClearPath ePortal Data Sources, providing support for automatic, two-way binding, validation, and error handling for popular data types – such as email addresses, URLs, currency, and phone numbers – as well as ClearPath specific data types.

- Easy access to popular tools, such as LESS for CSS design, automatic minification, and bundling of client scripts, which enable easy, efficient modification.
- Unisys provided MVC Helpers and Templates designed specifically to enable ClearPath application modernization efforts.

Web API for MVC-Based RESTful Web Services

ClearPath ePortal supports a SOA by automatically exposing your ClearPath applications as Microsoft WCF (SOAP) and RESTful web services. In ClearPath ePortal 6.0, you can expose your ClearPath applications using the ASP.NET Web API, a RESTful web service built upon the MVC framework, which provides a powerful, easy way to make your ClearPath applications available to a broad range of HTTP clients, including browsers and mobile devices.

Updates to Unisys Mobile ASP.NET Web Form Projects

Unisys ASP.NET Web Form mobile projects have also been improved, and now include:

- New themes for Apple® iOS 7, Android™, and Windows Phone 8, allowing your mobile applications to receive the latest, adaptively rendered mobile user interfaces (UIs).
- Integration with the NuGet package manager for easy, continuous updates that track the evolution of mobile interfaces.

New Feature: Unisys Hybrid App Build Service

With ClearPath ePortal 6.0, developers will also gain access to the Unisys Hybrid App Build Service. Based on the Apache Cordova open-source project, this new, cloud-based, mobile application build service allows you to submit your HTML, CSS, and JavaScript project assets to the Unisys hosted build service and receive installable applications for your targeted devices, all from within Microsoft Visual Studio. >>

This can help you minimize the need to master each platform's proprietary language, SDK, and tool set. The Hybrid App Build Service enables your developers to easily build hybrid mobile applications that:

- Support and install natively on Android, iOS, and Windows Phone 8 devices.
- Leverage the native capabilities of mobile devices that were previously inaccessible to cross-platform web applications.
- Are written once for all devices, using such familiar web application development technologies as HTML5, CSS3, and JavaScript.
- Provide common JavaScript APIs to access native functions across all device platforms.
- Publish applications to the Apple App Store, Google Play Store, Windows Phone Store, or local enterprise app repositories.

New Feature: Support for Agile Business Suite on Windows

ClearPath ePortal is now available for the AB Suite Windows Runtime Server. AB Suite applications running in the Windows environment can now take advantage of ClearPath ePortal modernization capabilities and enjoy the advantages previously available to ClearPath platforms only.

ClearPath ePortal Enterprise and ClearPath ePortal Business Platforms

ClearPath ePortal 6.0 also includes numerous new runtime platform features:

- A new ClearPath ePortal Business platform built on our secure partitioning (s-Par®) technology and the latest processing technologies from Intel® – the same infrastructure that powers the *Forward!* by Unisys™ enterprise computing platform.
- Support for the latest Microsoft .NET Framework across all platforms.
- A modern and improved management interface that supports the newest desktop and tablet browsers.
- The ability to automate many new management tasks through a web services interface.
- Support for separately managed administrator credentials, providing enhanced compatibility with industry-standard security requirements.

Please contact your Unisys sales representative if you need any assistance getting started with ClearPath ePortal 6.0. We offer a portfolio of services that can help you quickly implement the new release, understand its key features and capabilities, and learn how best to put them to use in your organization.

Modernizing Your Mission-Critical ClearPath Applications

By Isaac Levy, Global Director, ClearPath Services



Like many companies, it's likely that your IT organization's top business drivers are cost containment, accelerating business processes, and optimizing existing investments. But it's also likely that you encounter many challenges when working toward these goals.



If you want to contain costs, then you need to understand total costs, not just those related to hardware acquisition and licensing. Otherwise, you can't make good decisions about IT spend.

The thought of migrating to new applications and platforms may have you worried about the risk involved with such a major change. You've probably heard too many cases of migration projects failing, exceeding what's been budgeted, and taking far too long to implement. And at the end of the project, it's never a guarantee that you will have better functionality than you started with.

Modernizing your business-critical applications using key enabling technologies – such as mobility, SOA, business process management, application integration, and web enablement – as opposed to costly and risky “rip and replace” activities can significantly improve project success rates while providing a superior return on investment. All at a fraction of the implementation risk.

To accelerate your business processes, you need to develop new functionality that takes advantage of your existing applications and data. As a ClearPath user, you have invested significantly in your mission-critical enterprise applications – and the business logic within them is what differentiates you from the competition.

But, you're probably concerned about two things:

1. Preserving the value of these applications for the long term, which often means replacing skills as your experts leave or retire.
2. Maximizing your use of the technologies and tools you've already paid for.

Maybe you don't even know how much value you've already invested in? Perhaps you're paying for tools and technologies you don't really need?

So what are some good ways to overcome the modernization challenge? We recommend you:

- Maximize the return on your existing technology investments, while introducing new and modern capabilities – instead of taking the “rip and replace” approach.
- Fully document and understand your ClearPath applications.
- Strategically prioritize and execute application modernization initiatives that protect existing investments while leveraging key disruptive IT trends.
- Promote progressive modernization by executing short, focused projects that deliver concrete business value every step of the way.
- Keep solution complexity under control by closely monitoring cost and risk throughout your application modernization projects. >>

ClearPath Application Modernization Services Can Help

ClearPath Application Modernization Services can help you execute modernization initiatives that avoid costly rip-and-replace initiatives, protect the investments you've made in ClearPath applications, and preserve the embedded intellectual assets that help you differentiate your business from the competition. Techniques and tools we use to help you modernize your ClearPath applications include:

- Service enablement
- Web and mobile enablement
- Application refactoring
- Message queuing
- Transaction connectors
- Database connectors
- Business rules extraction
- Business process management and automation

ClearPath Application Modernization Services are a core component of the Unisys Application Services portfolio. In a time of limited resources and global economic pressures, our capabilities help to maximize the value of your current assets, and enhance your IT organization's productivity and competitive position by modernizing, leveraging, and, where appropriate, outsourcing mission-critical application responsibilities. All so you can regain control of your suite of enterprise applications.

Please visit the [ClearPath Services homepage](#) to learn more.

Enterprise Output Manager 11.0 Is Here!



Enterprise Output Manager automatically processes and routes print files and other application output files from any supported platform to any supported output destination. Enterprise Output Manager Release 11.0, the newest version of our cutting-edge output management solution, is packed with new and updated features and capabilities.

Most notably, this release introduces the new XML Template Utility, which allows you to generate XML templates that define the rules for converting a text file into XML. Whether you're just getting started with XML or are an advanced user, this powerful, easy-to-use utility allows you to:

- Open an XML input file
- Create and modify XML templates
- Preview XML output and edit XML nodes to add or remove attributes

Once these XML template files are created, they are used to convert a text or XML file to PDF, TIFF, and HTML formats using the appropriate XSLT style sheets. As a result, this feature simplifies and streamlines the process of creating an XML file and reduces the level of expertise needed to code XML transform jobs.

In addition, the new release of Enterprise Output Manager includes the following features:

- **Monitor a file directory based on a start time, end time, and day of the week:** Adds flexibility to monitored searches by employing the “scheduled scan” option, which allows you to monitor incoming files in a directory based on a variety of criteria.
- **User keyword references validation:** Offers you the option to disable the validation of keyword references when saving a configuration or deleting an operation, helping you save time and boost performance.

- **Enhanced Web Assistant user keywords search:** Allows you to search the Web Assistant database using self-defined keywords, enabling you to save time and increase efficiency.
- **New compress and encrypt attributes:** Helps you save space by compressing the Email, Print, and Back-up attributes into .ZIP files – and lets you protect these files with either 128- or 256-bit encryption.
- **Improved Convert Variable DDA command:** Eliminates the complex string parsing that had been required to capitalize the first letter of a sentence by letting you use the new “capitalize as sentence” conversion type.
- **Enhanced Draw Rectangle DDA command:** Gives you greater flexibility when specifying the border width of a rectangle by allowing you to use a variable in addition to a number.

If you'd like to learn more about Enterprise Output Manager and the benefits it can bring to your organization, please contact your Unisys sales representative. And, be sure to check out the [Enterprise Output Manager overview video](#) and sign up for the [Enterprise Output Manager LinkedIn Group](#).

Operations Sentinel 14.0 Has Arrived



Operations Sentinel goes beyond simple server management by automating, consolidating, accessing, monitoring, and managing multiple heterogeneous systems and applications – all through a single point of operation – helping you simplify complex operations across your entire data center.

Operations Sentinel Release 14.0, the latest version of our automated systems management tool, introduces a number of major features, including:

- **New, highly visual reports for monitored systems:** Enable you to create graphical resource reports (see Figure 1) using easy-to-read dials and gauges – giving you an instantaneous, intuitive visual representation of system statuses and CPU, memory, and hard disk utilization for any monitored system.

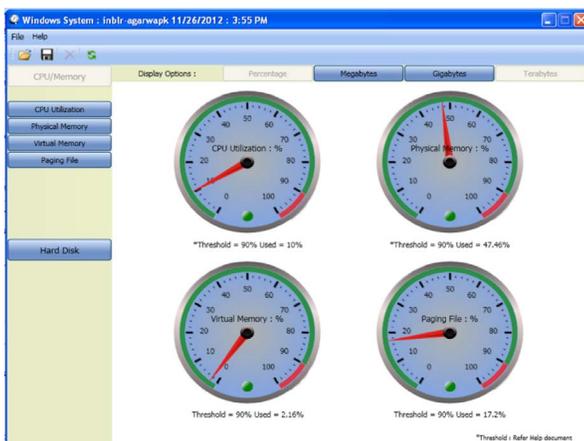


Figure 1: Sample of a new graphical resource report.

- **DSI VTLs, CentOS, and Red Hat Enterprise Linux® support:** Adds support for the Community ENTERprise Operating System (CentOS) and Red Hat Enterprise Linux to the ULRM agent, which will now allow you to monitor Dynamic Solutions International (DSI) virtual tape libraries (VTLs) directly from Operations Sentinel.
- **Support for Microsoft Windows 8 and Windows Server® 2012:** Makes Operations Sentinel

compatible with the latest Microsoft operating systems, giving you the freedom to bring your systems operations and administration capabilities in line with the newest versions offered by Microsoft.

- **Compatibility with the new OS 2200 DSTA feature:** Makes Operations Sentinel compatible with the new Daylight Saving Time Adjust (DSTA) feature released in ClearPath OS 2200 15.0, helping you reduce downtime and enable dynamic seasonal time shifts without application interruption.
- **.NET emailing:** Increases ease of use and flexibility by leveraging a .Net application (Mail_Alert.exe) to trigger the alert policy to send emails. This change replaces the existing Microsoft Visual Basic® script (Mail_Alert.vbs), while retaining all of its functionality.
- **Log Viewer enhancements:** Enables you to refresh the log files of all monitored systems and view newly filtered logs – even when the results displayed in the Log Viewer are already filtered.
- **New font customizations:** Allows you to customize font type, style, and size to your preferences in the Managed Objects Grid View, External Applications, Zone View, and Alert screens.

If you'd like to learn more about how Operations Sentinel can help your organization, please contact your Unisys sales representative. And for additional information, check out the [Operations Sentinel overview video](#).

Resources and Calendar



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](#)
- [eBook: How to Shift Your IT Focus from Administration to Innovation](#)
- [eBook: ClearPath MCP Case Studies – Success through Business Process Automation](#)
- [eBook: Built for Today, Ready for Tomorrow: Unisys ClearPath Systems](#)
- [Guide: ClearPath OS 2200 Course Catalog](#)
- [Guide: ClearPath MCP Course Catalog](#)
- [Guide: ClearPath OS 2200 and MCP Specialty Partitions Course Catalog](#)
- [Guide: Agile Business Suite Course Catalog](#)
- [Press Release: Unisys Boosts Mobility, Openness, Security, and Availability of ClearPath Dorado Servers](#)
- [Press Release: Unisys Enhances Mission-Critical Capabilities of ClearPath Libra Systems](#)
- [Press Release: New Top-of-the-Line Unisys ClearPath Libra System Boosts Performance for Mission-Critical Applications by Up to 20 Percent](#)
- [Newsletter: Developing *Agility* December 2013](#)
- [Newsletter: ClearPath Connection December 2013](#)
- [All White Papers](#)

WHAT	WHERE	WHEN
Universe Conference	Dallas, Texas	October 13-15, 2014
EAE/AB Suite Symposium	Dallas, Texas	October 13-15, 2014

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