



## ClearPath Connection

A Quarterly Newsletter for Unisys ClearPath Customers

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## ClearPath Systems in the Connected World

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

### Gaining Agility without Undermining Security and Performance

The pressures of today's connected world require greater IT agility to support business effectiveness. Driven by increased workforce and customer demands for mobility and anywhere, anytime access, the C-suite depends on IT to deliver enhanced flexibility without jeopardizing security, stability, or service levels. Failing to meet any of these fundamental requirements not only hinders progress, it can also move an organization backward in its quest to become even more connected and responsive.

### A Safe, Secure Transition to the Connected World

ClearPath solutions play a highly visible role in supporting the transaction processing requirements for your key business applications – whether they are used by your employees or customers. That makes it all the more critical for these solutions to transition flawlessly to an increasingly connected world.

In many ways, we're tackling this issue for you with new IT appliances and software technologies. For example, the ClearPath ePortal specialty engine allows an existing solution to be web- and mobile-enabled without requiring changes to the core application. It uses Microsoft® Visual Studio® as the development environment, enabling individuals with no ClearPath experience to quickly and safely extend core applications to a mobile environment. At the same time, >>



the ClearPath ePortal maintains the security elements surrounding the current ClearPath solution and protects the stability of the application.

Additional software technologies, such as Locum Real Time Monitor, can provide you with an extra layer of security. In a conventional transaction-processing environment, an individual will typically sign on to the system in the morning and sign off at night. As this solution is expanded to the mobile world, however, the frequency of signing on and off increases significantly, so new levels of monitoring and real-time reporting are required to deliver the highest levels of security.

## Speeding Mobile Service and Application Deployment

Secure, stable, connected solutions are mandatory, and getting there must be a fast, cost-effective process. The initial phase of mobile integration should be done in an efficient and timely manner. But keeping pace with the rapid change in the mobile device market is equally critical, so the integration development technology must absorb this responsibility. Otherwise, the cost of annual updates to the mobile environment could easily exceed the original development cost.

ClearPath customers use a variety of different development tools to establish their application environments – and it is critical that each is capable of supporting mobile device integration. To this end, the ClearPath ePortal specialty engine is being integrated with Enterprise Application Environment (EAE) and Agile Business Suite (AB Suite), enabling customers that use these development technologies to easily facilitate mobile device integration.

## Leading by Example

It's easier to see what you could potentially achieve by studying the actions others have taken in their ClearPath environments. A particularly useful case study to consider is V.F. Grace. A wholesale organization in Alaska, V.F. Grace needed to implement a new method of communicating with their retail customers to remain competitive and increase customer satisfaction.

Why is this relevant to you? Because, like V.F. Grace, many of you are being asked to employ smartphones and tablets in order to become more closely aligned with the connected world. Let's look at how V.F. Grace approached this effort.

## Streamlining Web-Enablement

V.F. Grace began by using ClearPath ePortal to web-enable services for its retail customers. The company found it to be a proven product that easily integrated with its ClearPath mainframe and established web access for customers – without making any changes to the application. Once complete, V.F. Grace's customers could easily view the company's catalog, without the phone calls required in the past. Next, V.F. Grace enabled the same capabilities for its sales organization via an Apple® iPhone®. This improved productivity and elevated a sales person's capabilities in the eyes of customers.

Importantly, this project didn't require an army of programmers or a radical new investment. Training took one week and the full web services implementation was up and running in less than two months (with one person doing all of the work). With three more days of effort, the iPhone was activated. This rapid deployment was achieved thanks to the design of the ClearPath ePortal environment, which streamlines web-enablement by keeping the current ClearPath application intact. >>

## Reaping the Rewards

By taking advantage of ClearPath ePortal, V.F. Grace provided a more modern and flexible way for its organization to deliver services to employees and customers. It also enhanced the value of its current ClearPath solution by incorporating mobile technology. Moreover, V.F. Grace could depend on the underlying security of its ClearPath solution to safeguard mobile device-based transactions.

As a result, the company has boosted its competitive advantage through a more contemporary profile. In the end, this demonstrates how you can advance your mission-critical ClearPath solutions *and* make a smooth transition to the connected world.

## Moving Forward with Confidence

Moving to the connected world carries risks and benefits. However, through the ClearPath ePortal specialty engine, along with a variety of innovative software technologies, the risks are minimized while the benefits are amplified. We now include the ClearPath ePortal as a native element of many new system shipments, so there is even more opportunity for you to experiment. This can move your solution and organization forward to the connected world, helping you can gain the agility you need to compete and thrive.



Bill Maclean is responsible for portfolio management and marketing of Unisys ClearPath mainframe business and AB Suite development technology. He prioritizes and optimizes R&D budgets, communicates ClearPath and AB Suite features through seminars, user groups, and individual client presentations, and establishes product pricing. He also develops product marketing literature, performs internal product training, and maintains a direct interface with field sales management.

Read more from Bill on the [Disruptive IT Trends Blog](#).

# A New ClearPath MCP Release has Arrived!

We are excited to announce the availability of ClearPath MCP Release 14.0! The latest integrated software stack for ClearPath Libra systems delivers a wide array of new capabilities – more than 50 of which were the result of new feature suggestions from ClearPath clients. And, all of them have been designed, developed, tested, and integrated to work together and provide the performance and reliability your mission-critical applications require.

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

- Security
- Data Center Transformation
- Application Modernization

## Security

The enhancements delivered in MCP 14.0 improve security by enabling you to:

- Reduce the risk of lost revenue, client dissatisfaction, regulatory sanctions, and legal costs associated with security breaches
- Protect sensitive data from unauthorized access and tampering
- Gain tighter control over who can and can't access system resources and system and security administration tools

Here's how:

- **Secure Shell (SSH) for ClearPath MCP:** This new product allows files containing sensitive data to be securely transferred to and from another computer, and enables secure program initiation at a separate machine. SSH for ClearPath MCP is included in all ClearPath MCP operating environment packages, but please note that it uses encryption

requiring the Operating Environment Encryption Option. A Cryptographic Co-Processor is also required on CMOS systems.

- **XML Parser for ClearPath MCP:** Updated in MCP 14.0, the XML Parser for ClearPath MCP now allows you to selectively encrypt specific, sensitive portions of the XML document – such as credit card numbers – and decrypt data from received documents. For an in-depth look at the XML Parser for ClearPath MCP, please see [the April 2012 issue of ClearPath Connection](#).
- **Role-based Access Control:** This new feature allows you to assign specific permissions to individuals based on their job roles in such products as Security Center, [Locum RealTime Monitor](#), [Locum SecureAudit](#), [Locum SafeSurvey](#), and [Workload Management for ClearPath MCP](#).
- **Client Access Services:** This update enables you to restrict access to MCP shares (disk files, CD-ROMS, printers, and pipes) based on IP address or by subnet.
- **Web Transaction Server:** Web Transaction Server includes an automated hacker unlock option and improved protection

against denial-of-service attacks.

- **MCP Security:** The ability to track the change history of usercode attributes will help to improve your auditing capabilities.

## Data Center Transformation

Using MCP 14.0 to transform your data center environment enables you to:

- Reduce operating expenses through increased automation
- Increase solution and application availability by minimizing planned and unplanned downtime

Here's how:

- **Unisys Business Continuity Accelerator:** MCP 14.0 provides enhanced support for redundant data center (“host role swap”) configurations by adding an option that allows the workloads of both hosts to be *combined* on one server.
- **Workload Management for ClearPath MCP:** Productivity enhancements made to Workload Management for ClearPath MCP help you perform more flexible event and policy activation, automate configuration consistency checks, and copy and paste >>

configuration information both within and between servers.

- **Business Continuity Center:** New wizards accelerate the process of configuring storage subsystems, selected remote replication products, and ClearPath Libra 4000 and ClearPath Libra 4100 high availability.
- **Remote Database Backup:** The new scripting capability automates the operation and administration of the remote database backup capabilities supporting your business continuity strategy.
- **dbaTOOLS Analyzer:** The ability to generate lock statistics reports helps to improve your understanding of database audits and structure locks.
- **dbaTOOLS Monitor:** A new calculator automates the optimization of database structure reorganization by recommending allowed core settings based on the size of the structure.

## Application Modernization

When it comes to modernizing your applications, MCP 14.0 will help you:

- Capitalize on the growing mobility trend by enabling you to integrate mobile devices with your existing ClearPath applications
- Increase scalability to better support business growth
- Reduce the time and costs required to train developers by leveraging industry-standard tools and technologies

Here's how:

- **Enterprise Output Manager 9.1:** The latest version of [Enterprise Output Manager](#), our cutting-edge output management solution, features support for Quick Response (QR) codes, as well as the type of barcodes commonly used on boarding passes. To learn more about this new functionality, check out [the November 2011 issue of ClearPath Connection](#).

- **Transaction Server:** Updates to Transaction Server expand the limits on the number of window users, message size between applications, and the global input queue.
- **Enterprise Database Server for ClearPath MCP (DMSII):** New functionality in DMSII increases the maximum alpha data item size and maximum database record size.
- **ClearPath MCP IDE for Eclipse™:** Enhancements made to the ClearPath MCP IDE for Eclipse focus on simplifying many routine, frequently executed tasks.

## Learn More About ClearPath MCP 14.0

Check out the many available resources to help you learn all about the new products, software, and enhancements included in MCP Release 14.0:

- To view Unisys formal announcement of MCP 14.0, check out the [recording of our launch webinar](#)
- For highlights of this release, please read the [MCP 14.0 software release announcement](#)
- For detailed information about everything we've included in MCP 14.0, please refer to the latest version of the our [software product catalog](#)

And for more information about the ClearPath MCP operating environment, head over to YouTube for videos about [MCP 14.0 Workload Management](#), [the ClearPath MCP IDE for Eclipse](#), and [ClearPath ePortal Manager](#).

## Evaluation Licenses for Locum Products

Evaluation licenses are now available for the Locum security alerting, assessment, and reporting products. All you need to download them is your Unisys.com login. There are unique evaluation and grace periods for each Locum product:

- [RealTime Monitor](#): 60-day evaluation period, 30-day grace period
- [SafeSurvey](#): 30-day evaluation period, 30-day grace period
- [SecureAudit](#): 60-day evaluation period, 30-day grace period

Please note that you will need to purchase a full license to continue using the complete functionality of each product after the evaluation and grace periods have ended.

# Build Better, Manage Better: ClearPath OS 2200 Release 13.1

Recently released, [ClearPath OS 2200 Release 13.1](#), the latest version of our integrated software stack for ClearPath Dorado systems, is jam-packed with 112 software products, 110 feature updates to 36 products, and stability updates to another 35 products.

The updates and new features of OS 2200 Release 13.1 were designed to provide the resources and tools required to address two key areas of your operations: solution building and solution management.

## Solution-Building Tools

There are a number of tools that enable you to create innovative solutions built around the core capabilities of your ClearPath mainframe. Key solution-building tools delivered in OS 2200 Release 13.1 include:

### ClearPath OS 2200 IDE for

**Eclipse:** ClearPath OS 2200 13.1 provides an update to Eclipse 3.7 (Indigo). By leveraging the capabilities and plug-in tools of one of the industry's most popular IDEs, you'll be able to speed up code editing, reduce syntax errors, and improve debugging.

The update also provides numerous features designed specifically for the OS 2200 operating environment, including:

- A new host manager view
- The flexibility to catalog workfiles without opening a demand session
- The ability to delete all versions of a symbolic element with a single command

In addition, Unisys provides several wizards for OS 2200, including one that automatically generates Java code to access transactions and navigate DMS databases. All you need to do is add your business logic, and you have a working Java application.

### ClearPath OS 2200 JProcessor:

The 2.0 release of the [ClearPath OS 2200 JProcessor](#) includes a considerable update to the hardened OS kernel, automating the process of installing security patches and other incremental modifications.

Plus, this latest release of the OS 2200 JProcessor includes a unique high-availability feature and automatic failover, allowing Java applications to be automatically rerouted to, and restarted on, an available OS 2200 JProcessor specialty engine. This will help it support your most mission-critical environments. (This feature requires at least two OS 2200 JProcessor specialty engines to be attached to a single OS 2200 partition.)

### ClearPath Database Extensions

**for PHP:** This new open-source product – written in Java and able to run inside or outside your ClearPath environment – allows PHP web applications to access

RDMS databases. Now you can develop new PHP applications and deploy existing ones, such as the Drupal open-source content management project, with the knowledge that your ClearPath DMS database can be an integral part of the solution. You can read more about the possibilities in a recent [ClearPath & Innovation blog post](#), or view a how-to video and download the software from the “Learn More” tab on [Unisys.com](#).

### ClearPath OS 2200 QProcessor:

ClearPath OS 2200 13.1 includes [ClearPath OS 2200 QProcessor](#) Release 2.0, which we've optimized to run message queuing based on IBM® WebSphere® MQ v7. OS 2200 implementations of WebSphere MQ enable message-based integration with applications and data on other platforms.

OS 2200 QProcessor 2.0 contains many new capabilities that make it a truly mission-critical solution, especially when compared to standalone message queuing servers. Key features in this release include:

- High availability implementations via automatic failover and Unisys multi-cluster Extended Transaction Capacity (XTC) hosts >>

- A new Publish/Subscribe engine for easier management of multi-point message distribution
- The WebSphere MQ bridge for HTTP, which provides easier access to WebSphere MQ by client systems and applications
- Improvements to the Java Message Service (JMS) APIs when calling to WebSphere MQ

And most importantly, the number of ways to acquire and maintain access to WebSphere MQ queue managers in an XTC environment have been dramatically increased. Now, multiple, distinct WMQ2200 subsystem installations can simultaneously connect to the same OS 2200 QProcessor – enabling you to partition messaging work across multiple WMQ2200 installations and XTC hosts.

**Resource Adapters:** The resource adapters included in OS 2200 enable Java applications running in or outside of your ClearPath environment to access ClearPath transactions (TIP and Open/DTP) and databases (RDMS, DMS, and BIS). OS 2200 13.1 delivers several enhancements to our resource adapters, including high-availability support that leverages our XTC clustering software.

## Solution-Managing Tools

OS 2200 13.1 includes numerous advancements that help you better manage your ClearPath environment, as well as the other systems and resources it interacts with each day. Key updates include:

### Operations Sentinel:

Designed with automation and customization in mind, Operations Sentinel 12.1 delivers numerous new features. Highlights include new predefined templates for the Auto-action Message System (AMS), customizable layouts for the operations and administrations modes, and support for rich text in the Alerts Help interface.

### Utilization Report Utility (URU)

**Service:** The URU service is enhanced with an auto-restart feature that will automatically stop and restart the service when conditions indicate that a database compact and/or split would improve performance and shorten access times.

### Enterprise Output Manager:

Enterprise Output Manager Release 9.1 is included in OS 2200 13.1. The latest version of our cutting-edge output management solution features support for 64-bit Microsoft Windows® operating systems,

as well as a new bar-code package that enables you to print and e-mail Quick Response codes on all types of output. To learn more about this new functionality, check out [the November 2011 issue of ClearPath Connection](#).

## Learn More About OS 2200 13.1

Check out the many available resources to help you learn all about the new products, software, and enhancements included in ClearPath OS 2200 Release 13.1:

- To view Unisys formal announcement of OS 2200 13.1, check out the recording of [our launch webinar](#)
- For detailed information about everything we've included in OS 2200 13.1, please refer to the [ClearPath OS 2200 Release 13.1 Software Product Catalog](#) and [ClearPath OS 2200 Release 13.1 Software Release Announcement](#)
- To learn what Ann Thureen, Unisys VP of OS 2200 Development, thinks about this release, [read her post on the ClearPath blog](#)



# Important News about the Software Release Process

For many years, we've maintained a software release schedule that unveiled a new, major (".0") OS 2200 or MCP version **every two years**, and a minor software update (".1") in the time between major releases. Now, following the launch of ClearPath OS 2200 13.1 and ClearPath MCP 14.0, we are changing that release process.

Beginning with the next versions of OS 2200 and MCP software, we'll be releasing major versions **every year**, and doing away with the incremental releases. So rather than make you wait two years for a major release, you'll now have access to the latest and greatest OS 2200 and MCP software every year.

As part of this change, we plan to make new software license keys and media available annually, in conjunction with each major release. And although we're updating this process in significant ways, the duration of support and code file compatibility for previous major software releases will remain unchanged.

*If you have any questions about the changes to the release process, or how this update may affect your organization, please contact your Unisys account executive.*

## MCP Release Process Changes



	MCP 11.0 – MCP 13.1 2005-2011	MCP 14.0 and Later 2012-future
Frequency of major (x.0) releases	Biennially	Annually
Frequency of minor (x.1) releases	Biennially, in the years between major releases	Not done
Support duration: major releases	42 months	42 months
Support duration: minor releases	30 months	Not applicable
New software license keys and media	Biennially, with major releases	Annually, with major releases
Code file compatibility	-30 months to +60 months	-30 months to +60 months
Biennial release upgrades accommodated	Yes	Yes

## OS 2200 Release Process Changes



	OS 2200 11.0 – 13.1 2005-2012	OS 2200 14.0 and Later (2013-future)
Frequency of major (x.0) releases	Biennially	Annually
Frequency of minor (x.1) releases	Biennially, in the years between major releases	Not done
Support duration: major releases	42 months	42 months
Support duration: minor releases	30 months	Not applicable
New software license keys and media	Biennially, with all releases	Annually, with major releases
Code file compatibility	Yes	Yes
Biennial release upgrades accommodated	Yes	Yes



## Introducing the ClearPath Libra 460 Server

We are happy to unveil the newest addition to the ClearPath Libra family – the ClearPath Libra 460 system. A new low-to-mid-range ClearPath platform, the Libra 460 mainframe provides single-processor performance improvements of 13% when compared to the Libra 450 and 60% vs. the Libra 300 – ensuring transparent growth and faster processing times for most applications.

The Libra 460 server is qualified for MCP Release 14.0, which was released to customers in April of 2012, and utilizes the latest Intel® processor technology.

The Libra 460 mainframe also offers several, flexible software licensing options:

- User-based
- Performance-based
- Software Development Kit (SDK)
- Enterprise Application Environment (EAE)/Agile Business Suite (AB Suite)

This new platform features 64 GB of memory and two 3.3 GHz quad-core processors, giving it the power to accommodate dozens of mission-critical applications. And since it leverages the proven ClearPath

architecture, it will deliver the unmatched security, reliability, and availability you've come to expect.

The Libra 460 supports up to 19.2 TB of standard internal Serial-Attached-SCSI (SAS) disk storage. Plus, an optional Solid State Disk (SSD) subsystem provides the high levels of storage performance the most demanding environments require.

In addition, support for Unisys specialty engines enables you to modernize applications and support new functions using alternate development and deployment technologies. The [ClearPath ePortal for MCP](#) provides a rapid, cost-effective means of web- and mobile-enabling your applications.

Likewise, the [ClearPath MCP JProcessor](#) facilitates the development of Java applications and extensions to existing ClearPath applications using Java and a wide range of complementary technologies.

And as with all new ClearPath mainframes, the Libra 460 platform features complete code and data compatibility with previous models, helping you conduct a seamless, transparent, and low-risk migration from one platform to the next.

*To learn more about the newest member of the Libra lineup, please visit [Unisys.com](http://Unisys.com).*



# Business Information Server 11R1 Qualified for Linux, UNIX

We've recently qualified Business Information Server (BIS) Release 11R1 for SUSE and Red Hat Linux® environments, and for the Sun Solaris (UNIX®) operating system running on Sparc hardware. This new release introduces a host of significant features – many of which were suggested by Unisys customers. In addition, BIS 11R1 incorporates many of the capabilities delivered in BIS Release 11.1 for Windows.

The inclusion of the Internet Commerce Enabler (ICE) module in BIS 11R1 will enable your developers to make information available to a broader array of consumers via web-enabled applications. And to further facilitate your development efforts, a number of new features have been added to Developer Workshop. For example, any BIS-run syntax can be directly entered into the Evaluation/Expression window and executed during a Developer Workshop debug session.

Several security enhancements have also been added to BIS 11R1. Most notably, a new graphical sign-on screen provides a modern interface for users when signing on and off of their BIS systems. This

feature allows users to enter sign-on information or change passwords – and includes an optional element that can require individuals to manually enter their credentials each time they access the BIS system.

Additional security features include:

- An increased password character limit that enables users to create “strong” passwords
- Encryption of user or application data in the BIS-to-BIS networking interface
- The use of network data encryption when Developer Workshop communicates with the BIS engine
- Support for the encryption of session data in the Graphical Interface

What's more, BIS 11R1 supports data access to Oracle 11g and MySQL 3.51, 5.0, and 5.1 across all environments.

And in Linux environments, BIS 11R1 now supports up to 2,000 concurrent sessions and 9,999 reports in a drawer when utilizing 64-bit technology, and 1,024 concurrent sessions and up to 5,000 reports on 32-bit platforms.

*To learn more about the features and capabilities of BIS11R1 in a specific environment, please refer to the software release announcement for [SUSE](#), [Red Hat](#), or [Sun Solaris](#).*



## The ClearPath YouTube Channel Continues to Grow!

The [ClearPath YouTube channel](#) is growing, and now has over 100 videos organized into 10 unique playlists – including 47 brand-new, technical how-to videos. The channel lists all playlists, including several brand-new ones, towards the bottom of the page. As you browse, please note that the “Cool Capabilities” playlist contains all of our high-level videos, while the others feature more technically focused content.

The playlists below are routinely updated with new content, so we encourage you to check back often:

- [ClearPath MCP IDE for Eclipse](#) (**NEW** playlist with 24 videos)
- [ClearPath MCP 14.0 Workload Management](#) (**NEW** playlist with 11 videos)
- [ClearPath ePortal Manager for OS 2200 and MCP](#) (**NEW** playlist with 10 videos)
- [ClearPath ePortal for OS 2200](#)
- [ClearPath ePortal for MCP](#)
- [Cool Capabilities](#) (2 **NEW** videos)
- [ClearPath MCP 13.x Workload Management](#)
- [ClearPath OS 2200 QProcessor Specialty Engine](#) (**NEW** videos uploaded in March)
- [ClearPath OS 2200 JProcessor Specialty Engine](#)
- [Business Continuity Accelerator for ClearPath MCP](#)

And as you browse the ClearPath YouTube channel, be sure to check out two of our newest high-level videos:

- [It is easy to use ClearPath ePortal](#)
- [Unisys ClearPath Dorado: The Best Protection](#)



## Resources

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](#)
- [ClearPath & Innovation Blog](#)
- [ClearPath How-To Videos on YouTube](#)
- [ClearPath Libra/MCP Webinars](#)
- [ClearPath Dorado/OS 2200 Webinars](#)
- **UPDATED WHITE PAPER** [Delivering Value: The Economics of ClearPath Systems](#)
- [FastForward Newsletter Q1 2012](#)
- [OS 2200 13.1 Launch Webinar](#)
- [OS 2200 13.1 Software Release Announcement](#)
- [OS 2200 13.1 Software Product Catalog](#)
- [MCP 14.0 Launch Webinar](#)
- [MCP 14.0 Software Release Announcement](#)
- [MCP 14.0 Software Product Catalog](#)
- [BIS 11R1 for SUSE Linux Enterprise Server Software Release Announcement](#)
- [BIS 11R1 for Red Hat Enterprise Linux Software Release Announcement](#)
- [BIS 11R1 for Sun Solaris Software Release Announcement](#)

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