



## ClearPath Connection

A Quarterly Newsletter for Unisys ClearPath Customers

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### Contents

- 1 Fulfilling the Promise of the ClearPath Next-Gen Strategy
- 3 ClearPath Libra 6200 Mainframe: The Bar Has Been Raised MCP
- 4 The ClearPath Dorado 4200 Mainframes have Arrived OS 2200
- 6 Please Welcome the ClearPath Libra 4200 Mainframes MCP
- 7 New Architecture, New Look
- 8 ClearPath Advisory Services Help You Align Business and IT Goals
- 11 Great People are Doing Great Things with ClearPath MCP Systems
- 11 Catholic United Financial Agents “Go Mobile”
- 12 New Videos Uploaded to the ClearPath YouTube Channel
- 13 Resources

## Fulfilling the Promise of the ClearPath Next-Gen Strategy

*By Steve Thompson, Vice President, ClearPath Engineering, Unisys TCIS*

The ClearPath Next-Generation Server Architecture defines Unisys commitment to, and strategy for, developing new ClearPath platforms capable of meeting the demands of our largest customers – both now and into the foreseeable future. A key element of this initiative is the integration of market-leading technology, such as the most current Intel® processor, and an innovative, Unisys developed approach to hardware resource allocation known as secure partitioning (s-Par®). The resulting platforms provide the foundational attributes needed to support dynamic, mission-critical environments.



The launch of the ClearPath Libra 6200 mainframe confirms that we have fulfilled the vision and strategy first conceived of in 2006.

The new, high-end Libra 6200 platform realizes the objectives of the Next-Generation Server Architecture by including significant updates to the system’s underlying foundational elements. It incorporates cutting-edge components and native features to create a mission-critical platform built for the most demanding environments.

For example, we’ve developed the Libra 6200 system around advanced firmware and industry-leading, 64-bit Intel® Xeon® Processor technologies. This approach has enabled us to elevate performance to levels previously achieved by only proprietary-processor-based ClearPath platforms. Moreover, leveraging this industry-standard technology allows us to focus more R&D resources on adding value >>



to the ClearPath platform, and less on researching, designing, implementing, and testing processors and chipsets.

The benefits of this approach are evident in a new, internally distributed architecture that provides the building blocks for future growth via an enhanced version of our s-Par technology. By advancing the capabilities of s-Par, we are allowing multiple, dedicated instances of our specialty engines, such as the [ClearPath ePortal for MCP](#) and [ClearPath MCP JProcessor](#), to function as an integral element of the ClearPath MCP operating environment. This allows you to bring greater power and leading-edge capabilities to your application modernization initiatives, helping to enrich the value of your existing investments.

And, as confirmed by a [recent Symantec™ study](#), the features built into our s-Par technology provide the security you need to confidently deploy multiple operating systems and applications within a single ClearPath platform.

## Extending the Benefits of the Next-Gen Strategy

The Libra 6200 system is not the only platform to gain from the significant updates we have made to the Next-Generation Server Architecture. Many of the same advances can also be seen in the new Libra 4200 and Dorado 4200 platforms.

With higher levels of performance, capacity, and connectivity, as well as the inclusion of s-Par and dedicated specialty engine instances, these new entry-level and mid-range models ensure that all Intel® based ClearPath systems will continue to progress in line with customer requirements. In this way, we are enabling businesses of all sizes and specializations to benefit from the evolution of the Next-Generation Server Architecture.

## Alpha Testing Confirms the Power of the Libra 6200 Mainframe

During the development of the Libra 6200 system, we enlisted some of our most-demanding Libra clients to participate in an alpha test comparing the new platform to the systems they currently have in place. The focal point of these assessments was a review of how well the Libra 6200 mainframe handled the customers' existing applications in a practical setting – a test the system passed with flying colors.

As our alpha testers confirmed, the Libra 6200 mainframe delivered performance and capacity characteristics that met – and exceeded – what they experience from their high-end ClearPath platforms, providing further evidence that this new system can serve as a functional replacement of CMOS-based systems. In addition, these tests also confirmed that existing applications, as well as storage and networking

environments, can be moved to the new platform with ease – without any recompiling or database reorganization efforts, or retraining of operations and other technical staff.

## The Pinnacle, but not the End

While it is clear that the launch of the Libra 6200 platform is the culmination of the vision we established with the Next-Generation Server Architecture, it is by no means the final step in the journey. We have every intention of following this major release with future launches that build on the performance improvements, enhanced capabilities, cutting-edge functions, and business value delivered in our latest high-end, mid-range, and entry-level platforms. Simply put: Our track record of innovation will continue.

At the same time, we remain committed to providing the mission-critical attributes that have come to define a ClearPath system – the unsurpassed security, reliability, and availability – no matter the underlying architectural changes we make. And you can be sure your ClearPath investment is protected because every major release maintains object-code compatibility with its predecessors – allowing you to execute a seamless, low-risk, transparent migration from one platform to the next.



## ClearPath Libra 6200 Mainframe: The Bar Has Been Raised

The release of the ClearPath Libra 6200 series mainframes is a truly momentous occasion on many counts. Not only does the development of this new high-end platform represent the apex of our Next-Generation Server Architecture strategy, it also marks the first time an Intel® based ClearPath mainframe is able to deliver performance and mission-critical characteristics equivalent to our top-of-the-line, CMOS-based Libra platforms.

At the core of this transition is best-in-class 64-bit Intel® Xeon® processor technologies, which help the Libra 6200 mainframes deliver single-image performance that meets – and even exceeds – CMOS platforms. We've complemented this approach with a brand-new, internally distributed architecture, resulting in a significant increase in I/O and networking capacity.

This new architectural strategy enables the Libra 6200 platforms to divide core functions among dedicated internal cells. For example, IP operations are managed by the new Processor Memory Module (PMM). And, the I/O Specialty Engine Module (ISM) houses all I/O functions, as well as the ClearPath specialty engines. The ISM features an advanced version of our s-Par technology, which allows it to transparently run the [ClearPath ePortal for MCP](#) alongside multiple, simultaneous instances of the [ClearPath MCP JProcessor](#) specialty engine – all from a single platform.

### It All Comes Down to Performance

In the end, the inclusion of a cutting-edge Intel® chipset and the changes to the platform's architecture serve a simple purpose: maximize performance. And in this regard, the Libra 6200 systems deliver – with single-processor performance of 550 MIPS and single-image performance of 4,200 MIPS.

What's more, the Libra 6200 systems provide two distinct licensing approaches that help you benefit from these dramatic performance increases in a way that best aligns with your operational needs. To this end, the ClearPath Libra 6280 mainframe employs a traditional, performance-based licensing model. And the ClearPath Libra 6290 platform offers a Pay-for-Use business model based on Unisys metering technology, delivering usage-based pricing that simplifies capacity planning and makes costs predictable – while giving you the freedom to tap into additional processing power as your business needs dictate.

And while the performance increases – as well as the new architecture that enables these gains – are certainly groundbreaking, one constant remains: Our ongoing commitment to preserving the qualities that have made a ClearPath mainframe what it is today. So not only do the new Libra 6200 systems deliver unparalleled levels of security, reliability, and availability, they also maintain object-code compatibility with previous models. This means you can experience all the Libra 6200 platforms have to offer without making any changes to your applications – helping you migrate to a new platform in a smooth, low-risk manner.

*Please visit [Unisys.com](http://Unisys.com) to learn more about [ClearPath Libra mainframes](#).*



# The ClearPath Dorado 4200 Mainframes have Arrived

Please join us in welcoming the newest members of the ClearPath Dorado family – the ClearPath Dorado 4200 series mainframes. A new line of entry-level and mid-range platforms, the Dorado 4200 systems feature a next-generation, 64-bit Intel® Xeon® Processor architecture that delivers performance on par with mid-range CMOS-based mainframes.

When compared to the ClearPath Dorado 4100 series mainframes, these new platforms feature a 33% increase in single-thread processor performance, significant I/O capacity expansions, greater configuration flexibility, 10Gb Ethernet and 8Gb Fibre Channel support, and state-of-the-art interconnect speeds. Plus, we're employing an advanced design that packs more into a smaller box, helping you lower your real estate footprint.

And as always, these new Dorado platforms reaffirm our unwavering commitment to providing the highest levels of availability, security, and reliability.

## Cutting-Edge Partitioning and I/O Enhancements

The new Dorado systems are the first OS 2200 platforms to employ our s-Par technology. With s-Par, the Dorado 4200 platforms are able to make dedicated instances of both the [ClearPath ePortal for OS 2200](#) and [ClearPath OS 2200 JProcessor](#) specialty engines available as standard functionality – as well as an optional instance of the [ClearPath OS 2200 QProcessor](#) specialty engine. In addition, a new I/O manager module incorporates the state-

of-the-art design used in the ClearPath Dorado 800 series mainframes to provide high-speed connectivity with the latest enterprise storage systems.

## Dorado 4250 and 4270 Mainframes

Entry-level systems, the Dorado 4250 and 4270 platforms deliver contemporary levels of performance in a cost-efficient package. This is achieved by delivering a Pay-for-Use business model based on Unisys metering technology, which employs usage-based pricing that requires you to pay only for the processing power you consume – while enabling you to tap into extra resources when needed. The Dorado 4250 mainframe features 10 to 40 MIPS, with a single-image performance ceiling of 60 MIPS. The Dorado 4270 platform offers 10 to 90 MIPS, with a 180 MIPS ceiling – and features a configurable design that lets you customize the platform to your needs.

## Dorado 4280 and 4290 Platforms

Mid-range platforms, the Dorado 4280 and 4290 systems provide the performance, responsiveness, flexibility,

and resiliency you'll need to execute your growth strategies. To this end, the Dorado 4280 mainframe employs a traditional, performance-based licensing model that delivers single-image performance of 50 to 1,800 MIPS. The Dorado 4290 platform offers 30 to 1,260 MIPS, and a ceiling of 1,800 MIPS, via a Pay-for-Use approach and Unisys metering technology.

What's more, the Dorado 4280 and 4290 platforms include several optional configurations designed to address specific operating requirements:

- The high-availability configuration option employs a dual-cell design that separates production and backup workloads, delivering the rapid failover the most mission-critical environments demand
- The dual-partition model enables you to set up unique configurations for specific workloads, allowing you to run production and development environments from a single system – helping you reduce your real estate footprint
- Available in early 2013, integration with Unisys [eXtended Processing Complex Locking \(XPC-L3\)](#) – a database record locking solution that >>

allows up to four OS 2200 hosts to concurrently access the same record – will support both business continuity and horizontal growth by protecting the integrity of data being updated in multi-host mainframe environments

### **ClearPath OS 2200 Release 13.2 Powers the New Dorado Platforms**

The latest version of our integrated software stack for Dorado mainframes, ClearPath OS 2200 Release 13.2 supports and establishes the new capabilities of the Dorado 4200 platforms.

ClearPath OS 2200 13.2 contains 112 unique software products that include the operating system, databases, transaction management, development, and many other areas.

*[Please visit our web site to learn more about the ClearPath Dorado mainframes.](#)*



## Please Welcome the ClearPath Libra 4200 Mainframes

We are pleased to announce the availability of the ClearPath Libra 4200 series systems – the newest mid-range ClearPath Libra mainframes. Based on a multi-core, 64-bit Intel® Xeon® Processor architecture, the Libra 4200 platforms usher in a major architectural transition by employing distributed processing units united by a high-speed interconnect.

These units are divided into two unique cells: The Processor Memory Module (PMM), which is focused on ClearPath MCP instruction processors; and the I/O and Specialty Engine Module (ISM), which leverages our s-Par technology to house both the host bus adapters and ClearPath specialty engines. With s-Par, the Libra 4200 systems are able to run multiple, concurrent MCP operating environments and application workloads within a single platform, such as dedicated [ClearPath ePortal for MCP](#) and [ClearPath MCP JProcessor](#) specialty engines.

With this new, high-performance architecture, the Libra 4200 mainframes are able to deliver single-thread performance of 350 MIPS and single-image performance of 2,400 MIPS – respective improvements of 17% and 33% over the ClearPath Libra 4100 series systems.

The new Libra 4200 platforms deliver these performance gains via two distinct business models – giving you the flexibility to implement a system that fits your unique needs. To this end, the ClearPath Libra 4280 mainframe follows a traditional, performance-based licensing model. The ClearPath Libra 4290 system employs a Pay-for-Use business model based on Unisys metering technology – helping you ease capacity planning, make costs predictable, and tap into additional processing power when needed.

These new systems feature 128 GB of mirrored memory, enabling them to accommodate dozens of mission-critical applications – while delivering the unmatched security, reliability, and availability you’ve come to expect in a ClearPath mainframe. In addition, the Libra 4200 platforms include a resilient internal storage subsystem that is optimized for boot, dump, and other system functions.

This architectural transition assures transparent growth and faster processing times for most applications. And as always, the native, time-tested attributes of a ClearPath mainframe, including object-code compatibility, high-availability designs, and traditional software offerings, will remain. As such, you’ll have the ability to execute a seamless, transparent, and low-risk migration from one platform to the next.

*[Please visit Unisys.com to learn more about ClearPath Libra mainframes.](#) >>*

## Interested to See the Libra 4200 Mainframes in Action? Take a Test Drive Today.

If you want to get up close and personal with the new Libra 4200 systems, visit the Unisys Client Solutions Data Center in Malvern, Pennsylvania, for a test drive. These sessions provide ample opportunity to familiarize yourself with the new platforms. For example, you could run a performance benchmark test, or sample some new features of [ClearPath MCP Release 14.0](#). Either way, the Client Solutions Data Center will custom-configure a Libra 4200 mainframe to your unique needs. And if you can't make it to Malvern for an onsite visit, remote access is also available.

If you'd like to take the Libra 4200 series mainframes for a spin, please contact your Unisys account executive to schedule a benchmark test or demonstration.

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## New Architecture, New Look

Not only does this launch introduce cutting-edge architectural enhancements – which are evident in the ClearPath Libra 4200, ClearPath Dorado 4200, and ClearPath Libra 6200 systems – it also marks the debut of a brand-new cabinet design. Outlined in bold red lines, and displaying a large badge front and center, the new-look ClearPath mainframes are sure to stand out in your data center.





# ClearPath Advisory Services Help You Align Business and IT Goals



New TCO Assessment Service Joins ClearPath Appraisal Offering

*By Isaac Levy, Global Manager, ClearPath Services Solutions*

Putting the right set of information systems together to support the business is an ever-evolving journey. Plans are laid, options are considered, the newest, best-fitting, most cost-effective solutions and services are implemented, and the cycle repeats itself. The goal of this ongoing process is simple: Ensure IT is making decisions that meet the needs of the enterprise while staying within strict budgetary constraints.

But when I talk with ClearPath customers, I often hear that this is easier said than done because of the competing demands on their time:

- Keep day-to-day operations running smoothly and ensure SLAs are met
- Get the most from existing ClearPath investments
- Work with organizational leaders to align IT investments with business needs

Clearly, balancing these demands is no easy task.

But what if you could understand the costs related to all aspects of IT and justify the financial benefits of new initiatives to organizational leaders?

What if you could understand the current status of your ClearPath environment and identify a desired state that is aligned with your business and IT strategies?

And what if you could reach this position following a clear, actionable roadmap?

Finally, what if you could do all this without taking any focus away from current operations?

With ClearPath Advisory Services, you can. ClearPath Advisory Services function much like an IT-centric GPS that lays out the best route forward by balancing IT initiatives and their associated costs. This means you'll be able to maximize your budget and travel from point A to Z, following specific milestones, without getting lost along the way.

Featuring the new TCO Assessment Service, as well as the ClearPath Appraisal Service, these offerings improve the application of ClearPath technologies and services through a heightened understanding of business, automation, and integration requirements.

## TCO Assessment Services

A new addition to the ClearPath Advisory Services portfolio, the TCO Assessment Service measures and reports on the

distribution of IT costs related to your ClearPath mainframe – across both people and technology. You even have the option to expand the scope of the service to include non ClearPath systems and complex, distributed environments. No matter the shape your engagement takes, the service will leverage a benchmarking methodology validated by a respected industry analyst firm to show how your costs compare to established averages and peer organizations.

The output of the TCO Assessment Service is a detailed breakdown of costs across such areas as software, maintenance, and operations. Plus, the service provides you with an analysis of your current cost per MIPS and MIPS per full-time equivalent (FTE). It can also relate spend to a specific activity, such as the cost to process 1,000 checks, giving you a deeper understanding of how expenses are distributed across your organization's business processes. >>

## ClearPath Appraisal Services

The ClearPath Appraisal Service starts with a short, intense workshop where the maturity of your current environment is measured across two facets: Automation and Integration.

- **Automation** looks at how the technologies and processes you have implemented eliminate manual effort – from little to no automation to a “lights out” data center that can run without any human intervention.

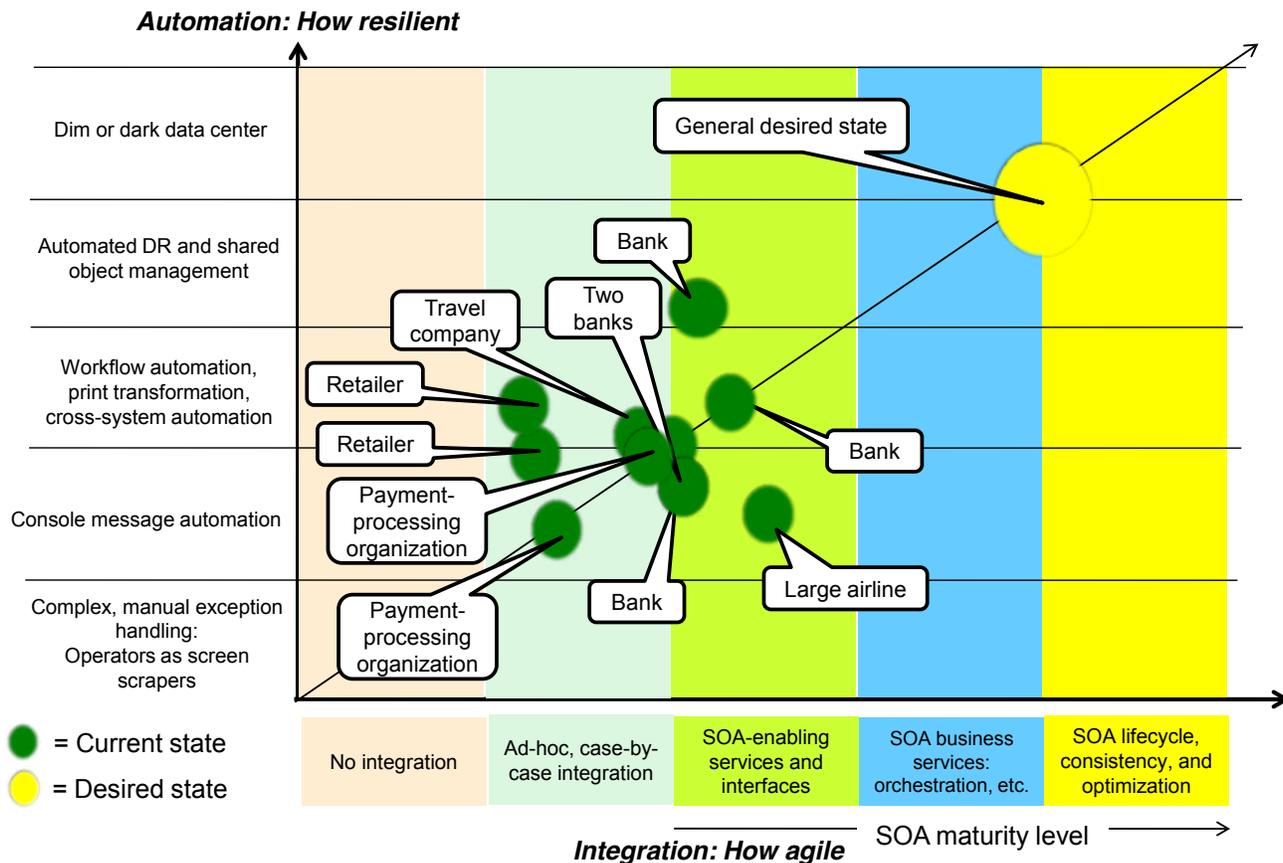
- **Integration** maturity is measured using Service-Oriented Architecture (SOA) as a benchmark – from minimal integration to full SOA lifecycle consistency and optimization.

Once these relative levels of maturity have been established, we help you identify the state to which you would like to evolve your ClearPath environment – and the advances in automation and integration you’ll need to get there.

After performing numerous ClearPath Appraisal Service engagements for organizations of all sizes, across industries, we have found that many ClearPath shops have already made good progress toward maturing their automation and integration positions. (See the image below.)

That said, most are looking to reach a desired state approaching the ideal of a lights-out, fully automated data center, where integration is delivered by the efficiencies of full SOA lifecycle management. >>

Figure 1: Results of the ClearPath Appraisal Service



Once your organization's destination is established, you'll receive a set of documented, concise, actionable recommendations about how to get there. And many of those steps will focus on using features and capabilities that already exist in your ClearPath mainframe. In this way, the ClearPath Appraisal Service delivers a roadmap that helps you take the next step on your journey without requiring you to make significant investments in new technologies.

The ClearPath Appraisal Service and TCO Assessment Service work in a complementary manner by helping you identify hidden costs and justify the benefits of a new IT initiative. For example, say the ClearPath Appraisal Service finds that you have a low level of automation maturity, and the TCO Assessment notes that 15% of your total IT costs are currently tied up in operations. You can use this data to make a case to business leaders that investing time and resources in

increasing automation will lead to a dramatic reduction in your ongoing operations expenses.

*Interested to see how the ClearPath Advisory Services can benefit your organization? Contact your account executive to get started today.*

## Looking to Learn More?

For additional information about how the ClearPath Appraisal Service has helped ClearPath clients, please read "[Understanding IT System State – Experiences from the ClearPath Appraisal Process.](#)"

To take a deep dive into the cost benefits of ClearPath platforms, check out "[Delivering Value: The Economics of ClearPath Systems.](#)"

# Great People are Doing Great Things with ClearPath MCP Systems

What do a distributor of heating products, a wholesaler in Alaska, a government agency, a global financial institution, a university, and an IT service provider have in common? They're all great examples of MCP users that have successfully automated business processes to increase agility, boost cost efficiencies, and improve productivity. And,

they're also the subjects of the [ClearPath MCP case studies eBook](#).

This new publication details how organizations are leveraging their ClearPath systems to dramatically improve the end-user experience. From eliminating manual processes to going mobile and web-enabling

key services, these stories illustrate that innovation thrives in MCP environments – and provide inspiration for projects that can bring these same benefits to your organization.

*Please visit [Unisys.com](http://Unisys.com) to read the full [ClearPath MCP case studies eBook](#).*

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## Catholic United Financial Agents “Go Mobile”

Catholic United Financial, a non-profit insurance organization providing benefits to over 74,000 individuals across Minnesota, Wisconsin, Iowa, and the Dakotas, wanted to help its agents better serve members by providing secure, real-time access to policy information from anywhere, at any time.

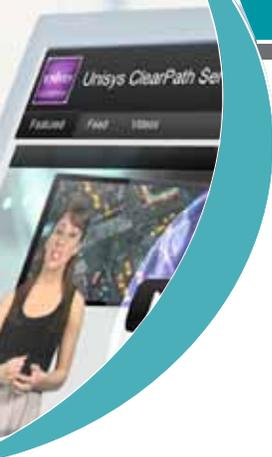
Working closely with Unisys, Catholic United replaced an existing online interface with a robust, web-enabled solution

that leverages the [ClearPath ePortal for MCP](#). This project enabled the company to securely extend its core ClearPath data to the Web – without the need for a separate, externally hosted database – giving agents immediate access to real-time, actionable information about members' insurance policies.

Creating a direct, secure connection between its ClearPath environment and employees in the field enabled

Catholic United to securely deliver detailed reports to policy holders in seconds, rather than hours or even days. In addition, these efforts helped the organization deliver the modern, responsive service its members expect – and further a more than 100-year commitment to the communities in which it operates.

*[Read the full story on Unisys.com.](#)*



## New Videos Uploaded to the ClearPath YouTube Channel

We've recently updated the [ClearPath YouTube channel](#) with a handful of new videos, including:

- [Unisys Operations Sentinel](#)
- A three-part series about using the ClearPath OS 2200 JProcessor specialty engine to implement a ColdFusion Java application ([Overview](#), [Development](#), and [Deployment](#))
- [ClearPath OS 2200 JProcessor High Availability](#)
- [ClearPath & Security](#)

And as always, the playlists below are routinely updated with new content, so we encourage you to check back often:

- [ClearPath MCP IDE for Eclipse](#)
- [ClearPath MCP 14.0 Workload Management](#)
- [ClearPath ePortal Manager for OS 2200 and MCP](#)
- [ClearPath ePortal for OS 2200](#)
- [ClearPath ePortal for MCP](#)
- [Cool Capabilities](#)
- [ClearPath MCP 13.x Workload Management](#)
- [ClearPath OS 2200 QProcessor Specialty Engine](#)
- [ClearPath OS 2200 JProcessor Specialty Engine](#)
- [Business Continuity Accelerator for ClearPath MCP](#)



## Resources

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

- [ClearPath Libra homepage](#)
- [ClearPath Dorado homepage](#)
- [ClearPath OS 2200 homepage](#)
- [ClearPath MCP homepage](#)
- [Agile Business Suite homepage](#)
- [Business Information Server \(BIS\) homepage](#)
- [ClearPath & Innovation Blog](#)
- [ClearPath How-To Videos on YouTube](#)
- [ClearPath Libra/MCP Webinars](#)
- [ClearPath Dorado/OS 2200 Webinars](#)
- **NEW eBook:** [ClearPath MCP Case Studies](#)
- **NEW Technical White Paper:** [Configuring the Graphical Interface for Business Information Server](#)
- **NEW Technical White Paper:** [Business Information Server: Integrate ClearPath Environments with a Wide Range of Heterogeneous Applications and Databases](#)
- **NEW Technical White Paper:** [Turning ClearPath MCP Data into Information with Business Information Server](#)
- **NEW Overview:** [Unisys Enterprise Output Manager \(EOM\) – Flexibility and Control to Manage Your Application Output](#)
- **NEW Overview:** [Unisys Operations Sentinel – Manage Your Data Center Complexity](#)

Specifications are subject to change without notice.

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