



# ClearPath Connection

A Quarterly Newsletter for Unisys ClearPath Customers



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## ClearPath: Committed to Your Success Today and Tomorrow

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



“Commitment.” It’s a word we often use when discussing the ClearPath program.

It’s what drives us to innovate year after year. It’s what pushes us to not just set lofty goals for ourselves – like the ClearPath Next-Generation Server Architecture, for example – but deliver on them.

It’s why we routinely release new platforms that are higher performing and more capable than their predecessors.

And, perhaps most importantly, it’s what compels us to stay in tune with the dynamics reshaping our clients’ businesses and work hard to create the technologies they need to succeed well into the future.

These are the very factors that inspired our latest launch.

## Innovation Woven in a Fabric

We recognize the integral role ClearPath systems play in your mission-critical operations. While they’re already a focal point of many business processes, we also understand how important it is to enable them to seamlessly support even more mission-critical functions going forward. And we believe the best way to truly do so is through a common, simplified infrastructure that gives IT the agility and responsiveness needed to effectively support new business strategies. >>

Just released, the revolutionary new ClearPath fabric-based infrastructure is built to answer the growing need for greater simplicity, cost control, and alignment between IT and the business. This infrastructure, and the platforms that support it, extends the ClearPath environment's mission-critical characteristics outward, enabling the systems to easily accommodate previously distributed applications by coupling Linux® and Microsoft® Windows® environments across a secure, high-speed interconnect.

So what does this groundbreaking architectural transition mean to you?

It means you get a common, innovative, distributed, fabric-based infrastructure – built on industry-standard Intel® technology – that makes the delivery of distributed applications extremely economical. It's an approach that is unlike other server infrastructures, which deliver complex, converged heterogeneous architectures.

And, it gives you new opportunities to integrate commonly available skills and tools with proven ClearPath attributes, leading to greater simplicity, lower costs, and the accelerated innovation required to address the most urgent demands of the business.

## New Systems Bring the Fabric to Life

All of the benefits and innovation packed into the ClearPath fabric-based infrastructure would count for nothing if we didn't have the platforms to bring them to life.

Fortunately, we've taken care of that – and then some.

Not only are we introducing an innovative new infrastructure, we're making it available in 12 brand-new platforms – six each for the Libra and Dorado lines. Among these new systems are some truly noteworthy achievements.

The brand-new ClearPath Dorado 6380 and 6390 systems are the first to take Intel® based Dorado platforms into high-end performance territory –

enabling them to approach, and in some instances surpass, the performance of our top-line CMOS-based Dorado systems.

What's more, the new ClearPath Libra 8380 and 8390 systems take everything we accomplished with the [Libra 8290 platform](#) and push it even further. When it was released in 2013, the Libra 8290 platform made the promise of the ClearPath Next-Generation Server Architecture a reality by matching the performance of the largest CMOS-based Libra systems. The Libra 8380 and 8390 platforms build on this accomplishment with performance that exceeds what's delivered by even the largest Libra 800 systems.

## The Commitment Continues

The fabric-based infrastructure and new ClearPath systems are just further evidence of the commitment we've made to helping you better serve the needs of your business and its customers. But it doesn't stop there.

In addition to the 12 Libra and Dorado platforms, this launch introduces two new products, including [ClearPath Application Integration Services](#), and marks the general availability of [ClearPath MCP Release 16.0](#). Together, MCP 16.0 and the recently released [ClearPath OS 2200 15.0](#) bring a wide variety of new products and capabilities to the Libra and Dorado environments, helping you do more to make ClearPath systems focal points of your operations.

To further aid you in this regard, it is our goal to continue to evolve our platforms and software to reflect emerging market trends and IT concerns. We plan to add more and more industry-standard tools to our systems, so it's easier to make full use of what's currently available in the marketplace. And we'll keep working to understand the challenges our clients encounter, the strategies they need to execute, and the capabilities that will help them address both of these demands.

*It's how our commitment continues to drive your success.*

# Innovation in Action: ClearPath Fabric-Based Systems



The newest ClearPath platforms are part of a groundbreaking architectural transformation that uses an innovative, fabric-based infrastructure to extend the inherent strengths of Intel® based ClearPath systems to new ends.

This infrastructure combines the predictability and security of ClearPath OS 2200 and MCP environments with the benefits of dedicated, predictable, virtualized server resources for Linux and Windows operating systems.

It does so while enhancing performance and scalability – not to mention optimizing TCO – by combining industry-standard hardware with Unisys intellectual property.

But what, exactly, is this revolutionary infrastructure all about, and what does it mean for the future of ClearPath platforms? Let's take a look.

## Introducing the Fabric

The goal underpinning the fabric-based infrastructure is to seamlessly and securely extend the experience and strengths of ClearPath systems into Windows and Linux environments, using high-speed interconnects and our advanced secure partitioning (s-Par®) technology to create a distributed infrastructure that resembles a set of interwoven nodes.

This way, you can transition your critical Windows and Linux applications from the open side of your data center into a more protected, predictable, and controlled environment. This helps to increase security and simplify management, while making it easier for ClearPath applications to interact with Windows and Linux applications.

To make this a reality, the ClearPath fabric-based infrastructure is built on a foundation of industry-standard Intel® Xeon® processors, which provides a common x86 platform for MCP, OS 2200, Windows, and Linux environments. In addition to specific processing complexes for the OS 2200 or MCP operating environments, we use our s-Par technology to carve a given system into a number of secure and isolated partitions – each with its own resources dedicated to any combination of Windows or Linux applications or workloads.

All nodes within the fabric are linked together via a high-speed interconnect, so you can create an expansive computing complex with exceptional scalability, low latency, and high performance. And because these connections are all contained within the fabric itself, not only do you benefit from greater speed, you can significantly reduce the need for the complex cabling, network interface ports, and other equipment currently required to link individual servers to one another.

It's all tied together with new fabric management capabilities that complement the existing, mature ClearPath system management portfolio by including additional capabilities for Windows and Linux.

Moreover, the infrastructure creates a new dimension of integration opportunities for ClearPath developers by helping them use existing resources to optimize interactions among distributed applications in the fabric. >>

In addition, we increase the already high levels of security in the system by giving you the option to implement the Unisys Stealth™ solution on your network endpoints. This will allow you to safeguard data in motion by concealing it as it moves inside and outside of your organization.

And like all ClearPath platforms, the fabric-based systems are delivered as an integrated stack of hardware and software. Most or all of the pieces are designed, built, and tested by Unisys before delivery to confirm they work properly and provide a solid foundation for your most mission-critical applications.

Taken as a whole, the fabric will exploit the best technology currently available, while simultaneously delivering the kind of computing experience your applications demand – not to mention, the performance you've come to expect from a ClearPath system.

## Living the Fabric Lifestyle

All of these capabilities and innovations are building toward what we call the “fabric lifestyle.” It’s a new concept that places your ClearPath system at the center of your IT operations for the foreseeable future.

The fabric lifestyle centers around providing the freedom to shape, and actively reshape, the fabric in a seamless fashion as your needs change and new innovations become available. It offers the flexibility to easily move the latest technologies into the fabric as they are introduced. And you can add in new Windows or Linux workloads and services – while retiring old or obsolete ones – without any disruption to the underlying applications. Plus, you have the flexibility to scale and extend the fabric at your own pace, in a way that matches your unique business and IT demands.

*In this way, the ClearPath fabric-based infrastructure becomes the fluid, dynamic, ever-evolving, continually beating heart of your IT operations.*

# New ClearPath Dorado Systems: Revolutionary Power, Performance, and Innovation



The first fabric-based ClearPath Dorado systems have arrived!

Built on our new, groundbreaking fabric-based infrastructure, these platforms extend the proven value of the Intel® based ClearPath architecture by delivering even greater levels of performance and scalability to entry-level, mid-range, and, for the first time, high-end models.

In addition to the fabric-based architecture, these systems showcase an all-new high-speed interconnect, improved processor and I/O performance, a new I/O subsystem design, and an updated specialty partition infrastructure.

Much of this is made possible in part by leveraging an internally distributed architecture that divides core functions among dedicated components – such as the OS 2200 Processor Memory Module (PMM) and I/O Specialty Partition Module (ISM) – and offers up to two OS 2200 partitions on selected systems.

The ISM features a revolutionary new I/O design that delivers significantly greater throughput than previous I/O processors, and includes options for 8 and 16Gb storage connections. The ISM also supports secure, s-Par enabled specialty partitions, including ClearPath ePortal Business, Enterprise Output Manager, and Utilization Report Utility (URU). Up to four ISMs may be configured to deliver added I/O throughput and resiliency.

Each Dorado system partition operates as a standalone OS 2200 environment – with its own PMM and ISM modules – that can be dedicated to production, development, or test functions. The partitions and components within them are controlled by standard OS 2200 system management products.

In addition, these systems include an Enterprise Partitionable Platform (EPP) that can be used for the ClearPath OS 2200 JProcessor and ClearPath OS 2200 QProcessor specialty partitions, as well as Windows or Linux environments. Each system starts with one EPP and offers the flexibility to add up to 11 more. And, it's all connected together by our high-speed, fabric-based infrastructure, giving you advanced workload integration options.

These capabilities are available in the high-end Dorado 6380 and 6390 systems, mid-range Dorado 4380 and 4390 platforms, and entry-level Dorado 4350 and 4370 systems.

## New High-End: Dorado 6380 and 6390 Systems

Establishing a new benchmark in Dorado performance and delivering on the promise of the ClearPath Next-Generation Server Architecture, the fabric-based Dorado 6380 and 6390 systems represent a milestone in the evolution of Intel® based OS 2200 platforms. The systems set the standard for what an Intel® based Dorado platform can achieve – approaching, and in some cases even surpassing, the performance of our high-end, CMOS-based Dorado platforms.

These systems deliver 510 single-thread MIPS. And each partition includes a standby PMM for high-availability failover, as well as two and up to four ISMs. What's more, we have plans to give these platforms the option to be integrated with our eXtended Processing Complex Locking (XPC-L3) technology, a database record locking solution that will enable the platforms to participate in multi-host clusters, helping them achieve near non-stop availability. >>

The ClearPath Dorado 6380 platform delivers a performance range of 250-4,200 MIPS through a traditional licensing model with Capacity on Demand options that offer the agility needed to manage unexpected changes in workloads.

The ClearPath Dorado 6390 system offers performance of 105-2,900 MIPS, with a 4,200 MIPS ceiling. It's controlled by Unisys unique metering technology, which helps you establish a predictable, Pay-for-Use business model that gives you the flexibility to tap into additional processing power as your business and IT needs dictate.

## New Mid-Range: Dorado 4380 and 4390 Systems

New mid-range platforms, the Dorado 4380 and 4390 fabric-based systems combine higher levels of performance than their predecessors – 450 single-thread MIPS, representing a 50% improvement over the Dorado 4200 line – with the flexibility to operate up to two OS 2200 partitions, each with one to four ISMs.

The ClearPath Dorado 4380 system provides performance of 50-2,700 MIPS via a traditional licensing model, while the ClearPath Dorado 4390 platform offers 30-1,890 MIPS and a 2,700 MIPS ceiling in a metered environment.

In addition, both systems will add the option to participate in an XPC-L3 configuration for even greater resiliency.

## New Entry-Level: Dorado 4350 and 4370 Systems

The ClearPath Dorado 4350 and 4370 systems extend the definition of what an entry-level system can do by blending core ClearPath attributes with our innovative fabric-based infrastructure. Each of these systems includes a single PMM, the new high-speed I/O subsystem, options for advanced s-Par enabled specialty partitions, and expanded capabilities for Windows or Linux workloads.

Perfect for development environments or smaller OS 2200 installations, the ClearPath Dorado 4350 platform delivers performance of 10-40 MIPS, a 60 MIPS ceiling, and includes a fixed I/O configuration with a single ISM.

The ClearPath Dorado 4370 system offers 10-120 MIPS and a 180 MIPS ceiling, provides additional I/O configurability, and includes the option to operate a second ISM.

Both the Dorado 4350 and Dorado 4370 systems employ a metered environment based on Pay-for-Use business models.

*Please visit the [Dorado homepage](#) to learn more about these and other ClearPath Dorado systems.*

# New ClearPath Libra Models Take Performance and Innovation to New Heights



The newest ClearPath Libra systems are here!

Leveraging our revolutionary new fabric-based infrastructure, these platforms go beyond the established benefits and capabilities of the ClearPath Next-Generation Server Architecture strategy by bringing more performance, security, reliability, scalability, and mission-critical characteristics to ClearPath Libra systems.

In addition to the fabric-based architecture, these systems showcase an all-new high-speed interconnect and improved processor and I/O performance.

This is made possible by the combination of our proven, internally distributed architecture – which divides core functions among dedicated cells, such as the Processor Memory Module (PMM) and I/O Specialty Partition Module (ISM) – s-Par technology, and all-new fabric-based infrastructure.

In addition, these systems include an Enterprise Partitionable Platform (EPP) that can be used to create dedicated Windows or Linux environments. Each system starts with one EPP and offers the flexibility to add up to 11 more.

Everything is tied together by our high-speed fabric-based infrastructure, so you can capitalize on advanced workload integration options. And, the MCP environment, the components within, and any Windows or Linux partitions are controlled by standard system management products.

These capabilities are available in the premium high-end Libra 8380 and 8390 models, high-end Libra 6380 and 6390 platforms, and mid-range Libra 4380 and 4390 systems.

## New Premium High-End: Libra 8380 and 8390 Systems

The powerhouse Libra 8380 and 8390 systems set a new standard for what an Intel® based ClearPath MCP platform is capable of. Much like their predecessor, the ClearPath Libra 8290 system, these platforms outperform our largest high-end CMOS-based systems.

But, they take it several steps further: Single-thread performance of 700 MIPS. Massive I/O and networking capacity. Standard high-availability configurations. It all combines to put the platforms in an entirely new class of MCP processing capability.

Just consider the performance figures.

The ClearPath Libra 8380 system provides performance of 300-9,000 MIPS through a traditional licensing model with Capacity on Demand options that give you the agility needed to manage dynamically changing workloads.

The ClearPath Libra 8390 platform offers performance of 105-6,300 MIPS, with a 9,000 MIPS ceiling. This system enables you to build a Pay-for-Use business model with the help of Unisys unique metering technology, so you can make costs predictable while gaining the flexibility to tap into additional processing power as business and IT needs dictate. >>

## New High-End: Libra 6380 and 6390 Systems

The Libra 6380 and 6390 platforms combine higher levels of performance than the Libra 6200 systems – raising single-thread MIPS to 600 – with the flexibility to operate two ISMs.

The ClearPath Libra 6380 system provides performance of 50-4,800 MIPS via a traditional licensing model.

The ClearPath Libra 6390 platform offers 30-3,360 MIPS and a 4,800 MIPS ceiling in a metered environment.

These systems help to increase the resiliency of your operations by including redundant, parallel ISMs and redundant PMMs with transparent failover as standard system components.

## New Mid-Range: Libra 4380 and 4390 Systems

With 500 single-thread MIPS, the Libra 4380 and 4390 platforms build on – and exceed – the performance offered by the ClearPath Libra 4200 series systems.

The ClearPath Libra 4380 platform uses a traditional licensing model to deliver performance of 50-2,000 MIPS.

The ClearPath Libra 4390 system offers 20-1,400 MIPS and a 2,000 MIPS ceiling in a metered environment.

In addition, both systems give you the flexibility to operate up to two ISMs and include a high-availability option that provides redundant, parallel ISMs and redundant PMMs with transparent failover.

*Please visit the [Libra homepage](#) to learn more about these and other ClearPath Libra systems.*

# Sixteen Times the Awesome: ClearPath MCP Release 16.0



We are excited to announce the availability of ClearPath MCP Release 16.0! This major release of the system software for ClearPath Libra platforms introduces three new products: Relational Database Server for ClearPath MCP, the Software Inventory Assessment Utility, and Data Compression. Plus, it provides numerous enhancements, many of which were the result of new feature suggestions from the ClearPath user community.

And as always, all of the release's updates, enhancements, and new features have been designed, developed, and tested to work together and provide the performance and reliability your mission-critical applications require.

ClearPath MCP Release 16.0 delivers considerable benefits across three important areas:

- Application Modernization
- Security
- Data Center Transformation

## Application Modernization

When it comes to modernizing your ClearPath applications, ClearPath MCP 16.0 will help you:

- Improve developer productivity by using contemporary tools and technologies
- Increase the scalability of your mission-critical applications to better support business growth
- Integrate business processes from inside and outside of your organization

Here's how:

- **Relational Database Server for ClearPath MCP:** This ALL-NEW product allows you to create, update, and access relational databases in the MCP environment. Plus, it lets you leverage a common data management infrastructure to add SQL capabilities to existing Enterprise Database Server databases. In addition, Relational Database Server for ClearPath MCP incorporates a variety of the validation,

audit/recovery, and access control capabilities you need to effectively support large, mission-critical applications and high-volume, online transaction processing.

- **ClearPath ePortal for MCP:** ClearPath MCP 16.0 includes ClearPath ePortal Release 6.0. Among the many noteworthy features in the latest version of the specialty partition is the ability to build hybrid mobile apps that leverage the native features of smartphones and tablets, including camera, GPS, video, and geolocation services. To learn more about all the great things we added to ClearPath ePortal 6.0, please check out [this article](#).
- **Java:** The Virtual Machine for the Java Platform on ClearPath MCP, JBoss Enterprise Application Platform for ClearPath MCP, and MCP Transaction Resource Adapter for the Java Platform (JRAC) have all been updated in ClearPath MCP 16.0.
- **Enterprise Database Server for ClearPath MCP:** Noteworthy additions to Enterprise Database Server for ClearPath MCP include:
  - An increase in limits from 1,000 data sets and 4,000 total structures to 4,000 data sets and 16,000 total structures
  - The addition of three new data types – DATE, TIME, and TIMESTAMP
  - A new dynamic schema capability that lets you add or delete new disjoint data sets and spanning sets/subsets in an active database without interrupting service to end users [>>](#)

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1 001000 IDENTIFICATION DIVISION.
2 002000 PROGRAM-ID. ADM044.
3 003000 ENVIRONMENT DIVISION.
4 004000 CONFIGURATION SECTION.
5 005000 SOURCE-COMPUTER. UNIVAC-1108.
6 006000 OBJECT-COMPUTER. UNIVAC-1108.
7 007000 DATA DIVISION.
8 008000 SUBSCHEMA SECTION.
9 009000 INVOKE SUBSCHEMA ADM044SUB IN FILE DMSPFN106 OF SCHEMA
10 010000 ADM044SCH
11 011000 RECORD DELIVERY-AREA IS RDA
12 012000 ERROR IS ERR.
13 013000 ROLLBACK IS RBKPAR.
14 014000 WORKING-STORAGE SECTION.
15 015000 77 STEPP PIC S9(6).
16 016000 77 MAXK PIC 9(6) VALUE 100.
17 017000 77 CKYK PIC 9(6).
18 018000 77 RECCNT PIC H9(10) VALUE 0.
19 019000 77 SWT PIC H9(10) VALUE 0.
20 020000 PROCEDURE DIVISION.
21 021000 STARTEN.
22 022000 IMPART.

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**Figure 1:** New Eclipse color-coding options.

- **ClearPath MCP IDE for Eclipse™:** ClearPath MCP 16.0 includes numerous new Eclipse features. Highlights include:
  - An upgrade to Eclipse 4.2 base that retains the functionality of Eclipse 3.7
  - Ease-of-use improvements to editing functions, including enhanced color coding for various COBOL85 and COBOL74 names (see Figure 1 above)
  - Build process productivity improvements
- **Enterprise Output Manager:** [Enterprise Output Manager 11.0](#) is included in ClearPath MCP 16.0. The newest version of our cutting-edge output management solution introduces the new XML Template Utility, which reduces the level of expertise needed to convert a text file into XML. What's more, this new release helps you protect backup files with either 128- or 256-bit encryption.

## Security

The enhancements delivered in ClearPath MCP 16.0 bolster the security of your environment by enabling you to:

- Protect sensitive data from unauthorized access
- Mitigate the risk of security breaches with the help of improved alerting, assessment, reporting, and administrative capabilities

Here's how:

- **Software Inventory Assessment Utility:** This ALL-NEW product produces a report that will help you show auditors what version of software you are running.
- **Operating Environment Encryption Option:** Transport Layer Security (TLS) 1.2 – the latest standard of the Secure Sockets Layer (SSL) protocol – and SHA-256 cipher suites are now supported in ClearPath MCP 16.0. Both are designed to increase the already high levels of protection for sensitive data in the MCP environment.
- **Secure Shell (SSH) for ClearPath MCP:** This product now supports the Hashed Message Authentication Code (HMAC) SHA2-256 data integrity algorithm, which helps to mitigate security concerns with existing algorithms. It also supports the OpenSSH and OpenSSH2 public key file formats, so you can directly import public keys from other systems that support this format.
- **Web Transaction Server for ClearPath MCP:** WebPCM applications can now allow an application to support a mixture of unauthenticated and authenticated requests from end users. >>

- **WRAP File Enabler:** Enhancements made to the product enable you to encrypt wrapped files, so they can be protected from unauthorized access and tampering.
- **Locum Software Products:** ClearPath MCP 16.0 includes updates to the following products from Locum Software:
  - **Locum RealTime Monitor:** Three new alerts – unauthorized file access, Guardfile access, and database event – will help your security administrators quickly detect attempts to gain unauthorized access to sensitive information.
  - **Locum SafeSurvey:** New functionality in SafeSurvey can help your security administrators and auditors identify potential system security risks. For example, the new CFILER Station Usage report detects unused COMS stations that can be cleaned up. And, the Guardfiles report has been enhanced to include a summary of invalid usercodes.
  - **Locum SecureAudit:** Four new reports – unauthorized file access, database event, database file activity, and Guardfile activity – will help your security administrators, compliance officers, and auditors identify activities or conditions that might pose a security threat.

## Data Center Transformation

ClearPath MCP 16.0 continues our commitment to offering capabilities that help you to transform your data center environment. As a result, you'll be able to:

- Efficiently transfer large quantities of data across networks
- Increase the availability of your mission-critical applications
- Reduce operating expenses through increased automation

Here's how:

- **Data Compression:** This ALL-NEW product is designed to minimize the time it takes to transfer large amounts of data across a network and reduce the space required to store it. Data Compression can be used in conjunction with the WRAP File Enabler to compress and wrap

one or more native MCP based files – and their file attributes – as byte stream data files. These compressed and wrapped files can then be efficiently sent across networks and stored on platforms running other operating systems. When the file reaches a destination MCP partition, the product can be used with the MCP unwrap feature to decompress and unwrap the files in a native MCP format.

- **Business Continuity Accelerator:** Several new capabilities designed to improve application availability have been added to Business Continuity Accelerator in ClearPath MCP 16.0. For example, you can:
  - Direct it to automatically merge a workload from a failed system onto an active one
  - Conduct a non-disruptive disaster recovery (DR) test without having to interrupt the production or DR servers
  - Build a three-system DR configuration, consisting of both local and remote DR machines, for a single production platform
- **dbaTOOLS Monitor:** Updates to this product in ClearPath MCP 16.0 allow you to perform an automated, online garbage collection of index sequential sets, helping you minimize wasted space and reduce the potential for LimitErrors and performance problems.
- **Operations Sentinel:** Operations Sentinel 14.0 is included in ClearPath MCP 16.0. With it, you can now manage Dynamic Solutions International (DSI) virtual tape libraries (VTLs) from the same workstation that is monitoring the systems using the VTL. What's more, it can give you an instantaneous, intuitive view of the statuses of the systems it monitors.

## Ready to Learn More?

The resources below will help you learn all about the new products, software, and enhancements included in MCP Release 16.0:

- [Announcement Webinar](#)
- [Software Release Announcement](#)
- [Software Product Catalog](#)
- [Press Release](#)
- [MCP Release 16.0 homepage](#)

# Announcing a New Tool: ClearPath Application Integration Services



A seamless development environment that makes creating cross-platform applications quick and easy. It's one of the main goals we wanted to achieve when creating our fabric-based ClearPath platforms. And with the help of the new ClearPath Application Integration Services (AIS), it's possible.

ClearPath AIS allows you to create an application development and deployment approach that blends the ClearPath attributes of security, reliability, and performance with contemporary development skills – so you can pull from a wider pool of talent while reducing the roadblocks that could occur when working between MCP, OS 2200, and Windows environments. It does so by providing tools that make life easier for ClearPath and non ClearPath developers alike.

For example, for anyone who would like to access ClearPath files using Windows file semantics, AIS includes a Windows API that gives developers who work in .NET access to file I/O on ClearPath systems. The interface provides access to ClearPath files from a Windows .NET program. The standard .NET file classes are used, extended, or mimicked as needed, giving you the same set of features you would get from a Windows file program. But they are also modified to provide the ClearPath centric capabilities you need to work effectively in MCP or OS 2200 environments.

Likewise, if you would like to use the rich file APIs available in the ClearPath environment, AIS features APIs for MCP and OS 2200 that provide access to hundreds of file attributes,

perform record-oriented file I/O, and support various coded character sets. This gives you a means of developing MCP and OS 2200 programs in Microsoft Visual Studio®, with full access to Microsoft IntelliSense tools and online documentation.

With the combination of these tools, you get a bridge between the data in MCP and OS 2200 coded character sets and Unicode characters in .NET, helping you easily accommodate Windows developers within fabric-based ClearPath MCP and OS 2200 platforms. And unlike a simple file-access protocol, such as FTP, these tools give you fast and secure access to ClearPath specific features from a Windows centric development environment.

The result? MCP and OS 2200 shops will find it easier to build the type of robust, cross-platform applications the business needs to address new demands and differentiate itself from the competition.

# 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: Understanding the Economics of ClearPath Systems \(NEW\)](#)
- [eBook: How to Shift Your IT Focus from Administration to Innovation \(UPDATED\)](#)
- [eBook: ClearPath MCP Case Studies – Success through Business Process Automation](#)
- [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](#)
- [Newsletter: Developing Agility May 2014](#)
- [Newsletter: ClearPath Connection February 2014](#)
- [All White Papers](#)

WHAT	WHERE	WHEN
<a href="#">Universe Conference</a>	Dallas, Texas	October 13-15, 2014
<a href="#">EAE/AB Suite Symposium</a>	Dallas, Texas	October 13-15, 2014

Specifications and product plans are subject to change without notice. Performance data is based on Unisys standard benchmarks.

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