UNISYS | Securing Your Tomorrow™

ClearPath Forward Connection

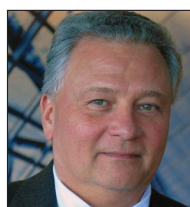## A Quarterly Newsletter for Unisys ClearPath Forward Clients

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Next Stop: the Cloud

By Brian Herkalo, Director, Global ClearPath Forward Product Management, Unisys

Our world is governed by a social fabric.

It's woven throughout the many devices we carry with us every day. It's the thread that connects us to friends, family, and coworkers, no matter how far from them we are at any moment. And it's how we keep up with the events happening in the world around us.

And thanks to this social fabric, the long-established rules of IT are being quickly – and decisively – rewritten.

Just consider how a socially connected world can influence the reaction to a noteworthy public event, like a sweeping breach of financial data. As news of the breach makes its way around the world, consumers – numbering in the thousands – respond by opening their mobile banking apps and checking their balances to make sure everything appears in order.

The social conversation about the breach, coupled with the flurry of account lookups that follow in its wake, will combine to have a massive impact on traditional IT infrastructures and processes. The sudden, sharp increase in transaction rates, the heavy burden placed on back-end systems, the time needed to keep everything running despite this immense stress – none of it can be monetized.

It's today's "cost of doing business," certainly, but it's also a cost that can quickly become crippling if steps aren't taken to mitigate its effects.

And that's where the hybrid cloud comes into play. **>>**

ClearPath Forward
Over 220 Videos Online!

ClearPath Forward in the Cloud

We're preparing the ClearPath Forward™ environment to participate in hybrid cloud infrastructures for one very simple reason: clients know the effect rapid, unexpected demand spikes can have on their infrastructures and need the flexibility, scalability, and cost efficiencies this model offers to help offset the associated costs.

Our push toward the hybrid cloud isn't a new idea, nor is it simply a response to the changes reshaping the business and IT landscapes. Rather, it's a place we've been moving toward for a while now. It's a journey that has its roots in the steps we took to effectively decouple our hardware and software and emphasize the importance of the application layer above all else.

Building on this momentum – and truly embracing everything a cloud-readied ClearPath Forward program can deliver – means equipping you with more choice than you ever had before.

We want to offer you the freedom to buy hardware and virtualization technologies from your preferred vendors, to deploy operating environments and application stacks where you want, and to choose what's kept in house, what becomes a web service, and what resides on public and private clouds.

That's the promise of the hybrid cloud, and that's what we'll deliver.

Opening a World of Possibility

So, what does a world with ClearPath Forward in the cloud look like?

It's one where we build on the inherent strengths of the ClearPath Forward environment – its ability to handle significant transaction volumes, meet massive performance demands, and maintain data integrity, among others – and use them to drive the flexibility and responsiveness you need to address tomorrow's demands.

In this model, you'll have the freedom to move your ClearPath Forward workloads to appropriately sized application environments across the cloud as you see fit, so you can control cost and better manage transaction volumes. Plus, the ClearPath Forward environment can help you match a sudden spike in transaction rates by giving you the freedom to tap into an instantaneous increase in processing power. And once demand normalizes, you can lower the system's capacity accordingly.

As part of this vision, you'll be able to purchase software images of varying sizes and bring them up and down as business needs dictate, without having to source, implement, and manage independent systems. This provides additional agility to absorb fluctuating demand, while helping to keep costs manageable.

These high levels of flexibility and responsiveness make it easier to streamline development – and adopt DevOps principles – as well. You can bring up a small development image, use it until the work is complete, and decommission it until the next project begins. Then, you can spin up a testing environment, put the application through its paces, confirm the viability of what your team built, and shut that down once everything is ready for production.

With the ability to move from development to testing to production at such a rapid pace, you'll be able to build a continuous, iterative loop that makes it easier to deliver value to your customers at the speed they expect. And you can do so without locking yourself into multiple systems that may go underutilized for months at a time.

These are just a few examples of the wealth of opportunities a cloud-ready ClearPath Forward environment can deliver – and that's the best part. The hybrid cloud should be about possibility, about having the freedom to take IT – and your business – in whichever direction you choose, when you choose to do it.

And when you decide where you want to go next, you'll know your ClearPath Forward environment will be there to support you.

Sweet Sixteen: Operations Sentinel 16.0 Has Arrived

Operations Sentinel 16.0 is now available!

In the latest release of our end-to-end data center management tool, you'll receive new updates and enhancements that help you automate, consolidate, access, monitor, and manage heterogeneous systems and applications through a single point of operation. Plus, these new capabilities can help you facilitate anytime, anywhere remote operations, anticipate and address abnormal conditions, and reduce the time and budget you dedicate to operations and support activities.

All of this is made possible by the key new features we've built into Operations Sentinel 16.0:

- **SAIL-based ClearPath Forward Dorado configurator:** With the help of this new tool, you'll be able to configure ClearPath Forward Dorado 4300, 6300, and 8300 systems using a single, intuitive, graphical, SAIL-based application that helps to reduce setup time and operational errors.

- **ClearPath Forward ePortal monitoring:** A new managed class and resource monitor policy give you the flexibility to monitor ClearPath Forward ePortal systems from the same pane of glass you're currently using to control your other ClearPath Forward components.

- **Backup/restore auto synchronization:** You can now periodically back up your Operations Sentinel configuration to the location of your choice, then easily restore it during a disaster recovery scenario. Plus, this feature gives you the flexibility to automatically synchronize configuration data between primary and secondary Operations Sentinel servers, minimizing the burden associated with manually recreating configurations on the secondary server.

- **Provisioning alerts via SNMP traps:** With the help of this feature, you have the option to detect an alert, construct an SNMP message based on the alert, and send it out via an SNMP trap. This way, you'll be better equipped to detect a message pattern change in your databases, making it easier to move from one ClearPath® level to the next by reducing the effort needed to identify and change AMS databases.

- **Alert Policy import/export:** Built to function as a complement to the import/export functionality that exists in Operations Sentinel today, this new feature enables you to import and export the Alert Policies configuration, giving you additional ways of backing up the critical data related to this configuration.

Please visit our web site for additional information about the capabilities included in Operations Sentinel. And if you'd like more information about the new features, updates, and enhancements we've built into Operations Sentinel 16.0, or require any help putting them to use in your data center, don't hesitate to contact your Unisys sales representative.

What's New in ClearPath Forward ePortal 7.1?

With the help of ClearPath Forward ePortal, you'll have the modernization engine you need to extend your applications to new channels, users, and environments – all without making any changes to the applications themselves.

This way, you'll be able to increase business agility by getting new capabilities to new audiences faster, shortening the time required to develop and deliver these capabilities, and realizing a greater return on your existing application investments.

And with ClearPath Forward ePortal 7.1, we're enhancing the business value ePortal delivers by integrating it with contemporary development environments and making the solution easier to maintain, update, and recover.

Key enhancements built into ePortal 7.1 include:

- **Support for Visual Studio 2015 Update 3:** By integrating ePortal with the latest Microsoft® Visual Studio® release, your developers can leverage new improvements in Visual Studio to generate responsive web apps and web services, as well as hybrid mobile Microsoft Universal Apps, Apple® iOS apps, and Android™ apps that target a full range of desktop and mobile devices.

- **Support for Apache Cordova 6.3.0:** With support for Apache® Cordova™ 6.3.0 – the latest version of Apache's mobile development platform – your team can build hybrid mobile apps using the latest web development technologies.

- **ClearPath Forward ePortal Business gen 4.1:** ClearPath Forward ePortal Business is now available on a new hardware platform that shares a common software base with ePortal Enterprise – and includes a new platform management console you can use to manage software maintenance, operations, and diagnostics.

- **High availability enhancements:** With support for redundant back-end ClearPath applications in load-balanced or active/standby configurations, you'll be able to distribute incoming client requests on a round-robin basis or direct them to an available application path in the event of a network or server failure.

- **Message filters:** With the new message filters feature added to ePortal Orchestration, you'll be able to specify custom C# message handlers that help you filter and act on any messages that are received or sent to your applications.

- **Alert and event forwarding:** In ePortal 7.1, you now have the ability to forward alerts and events based on their category and criticality to Unisys Operations Sentinel, the ClearPath MCP and ClearPath OS 2200 Consoles and host logs, or the Windows event log in Agile Business Suite (AB Suite®) on Microsoft Windows® environments.

- **DevOps and automation:** With the help of ePortal 7.1, you'll be able to enhance your DevOps maturity by using new web services and command-line tools that automate the application build and deployment processes, as well as every step in between.

- **ClearPath Software Series support:** Both ClearPath ePortal Business and ePortal Enterprise are now qualified for use with all ClearPath Software Series systems and configurations, making it possible for your ePortal applications to benefit from the performance, cost efficiencies, and flexibility the Software Series has to offer.

Please visit our web site to learn more about the exciting updates included in ClearPath Forward ePortal 7.1, as well as the benefits it delivers in OS 2200 and MCP environments.

Are You Ready to Harness Digital Disruption?

Digital disruption is redefining the ways companies create and deliver value to their customers.

It's forcing IT to prioritize innovation above all else.

And it's putting a premium on the ability to continuously evolve, modernize, and streamline existing architectures, infrastructures, and processes, so they become well-equipped to increase business agility and continuously deliver high-quality application experiences across a variety of channels.

To address these requirements – and, more importantly, turn them into an advantage – it's crucial to adopt a holistic approach that focuses on:

• Modern software architectures and frameworks
• Nimble, flexible application environments
• Automation across the application lifecycle

Regardless of whether you prioritize these requirements across a long-term strategy, or choose to tackle them all at once, you can rely on our proven ClearPath Forward Services portfolio to help you adopt new technologies and embrace digital disruption in a manner that adds significant business value to what you have in place today.

Refueling Your Core Systems: Getting Started with ClearPath Forward Services

ClearPath Forward systems provide an expansive canvas of capabilities – mobile, web, web services, application and data integration, automation, and development and database tools – all of which work together to deliver an agile, highly secure application experience.

Our services portfolio helps you tap into these resources and use them to facilitate modernization initiatives that:

• Maximize the ROI of your existing ClearPath Forward application investments
• Leverage the intellectual assets embedded in these applications to new ends
• Evolve and equip your core business applications to capitalize on new market dynamics
• Streamline business processes through application integration and participation in web, SOA, and mobile environments >>

Moreover, we'll support your modernization efforts every step of the way, so you can:

- Define your goals, as well as the roadmap required to get there
- Capitalize on new business opportunities
- Integrate with "everything"
- More effectively adapt to rapidly changing demands
- Develop applications using new and industry-standard tools

The services you can rely on to support these efforts include:

- **ClearPath Forward Application Evolution Services:** You'll have access to unified consulting, management, modernization, development, support, and transformation capabilities that help you maximize the ROI of your existing ClearPath Forward investments, enhance applications for maximum business relevance, incorporate new technologies, streamline processes, and adapt to rapidly changing business and IT demands.

- **Mobility Application Services:** With these services, you'll be able to address both B2C and B2B projects by leveraging the ClearPath Forward ePortal to extend existing applications to such target mobile environments as Apple iOS, Android, and Windows Phone.

- **Application Development Services:** You'll be able to enhance business agility – and continuously deliver new capabilities – by leveraging a suite of services that help you develop new solutions and modernize exiting ones using such offerings as Agile Business Suite, Business Information Server, the ClearPath Visual IDE, the Eclipse™ IDEs for MCP and OS 2200, and SOA-enabling technologies.

Please <u>visit our web site</u> to learn more about the ClearPath Forward Services portfolio. And for additional information about these service offerings, give our <u>brochure</u> and <u>eBook</u> a read today.

Enterprise Output Manager 13.0 Is Here!
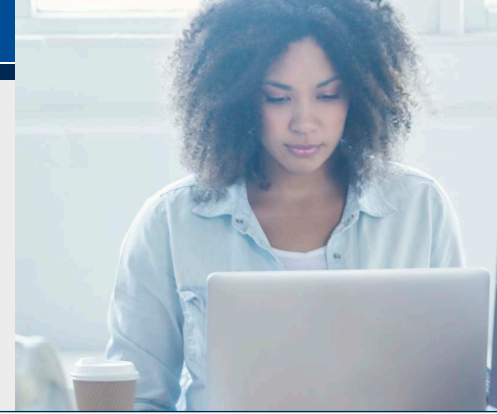
**We're proud to announce the availability of Enterprise Output Manager 13.0!**

This new version of our comprehensive output-management solution features a wide array of enhancements that work together to make it easier for you to deliver output where you want, when you want, and to whom you want, freely transform this output as needed, manage document workflows, and monitor your print environment from a single point of control.

Important updates added into Enterprise Output Manager 13.0 include:

- **Mobile EOM:** With Mobile EOM, you can use a mobile device to search for, access, and print files posted through the Web Assistant to any printer configured in the Output Manager Server. Once you select a document to print from your mobile device, you'll also be able to set the number of copies, page range, and simplex or duplex settings for that job.

- **Enterprise Content Management integration:** With this new feature, you'll be able to seamlessly integrate Enterprise Output Manager with Enterprise Content Management (ECM) software or any other solution that implements ECM standards, making it possible for Enterprise Output Manager functionality to be used by ECM solutions.

- **Native PDF printing:** Now that Enterprise Output Manager includes PDF file printing as a built-in feature, you'll have the freedom to schedule a PDF print job directly from the solution – and be able to configure the page size, paper source, duplex options, orientation, and page scaling before you print the document.

- **Security enhancements:** Enterprise Output Manager 13.0 includes several new security enhancements. For instance, you can now transfer files to an FTP site using the using the SFTP/SSH protocol, secure your communications with SSL and TLS 1.0, TLS 1.1, or TLS 1.2 protocols, and choose either the SHA1 or SHA2 Hashing Algorithm when generating Certificate Signing Requests.

- **Web Assistant enhancements:** We've updated the Web Assistant in Enterprise Output Manager 13.0 with a number of important enhancements, including the ability to integrate it with any application that understands RESTful services. With the help of this integration, you can develop a custom user interface for the Web Assistant. In addition, the Web Assistant gives you the flexibility to select multiple files in the File Finder Search Result page and download them as a ZIP file. And, you'll also be able to identify any customizations added to the Web Assistant database and preserve them during an Upgrade or Load operation.

Check out our web site to learn more about everything Enterprise Output Manger can do for your business. And if you'd like more information about the updates and enhancements we've added into release 13.0, or require any assistance implementing them, please contact your Unisys sales representative.

Introducing Dell EMC VxRail for the ClearPath Software Series
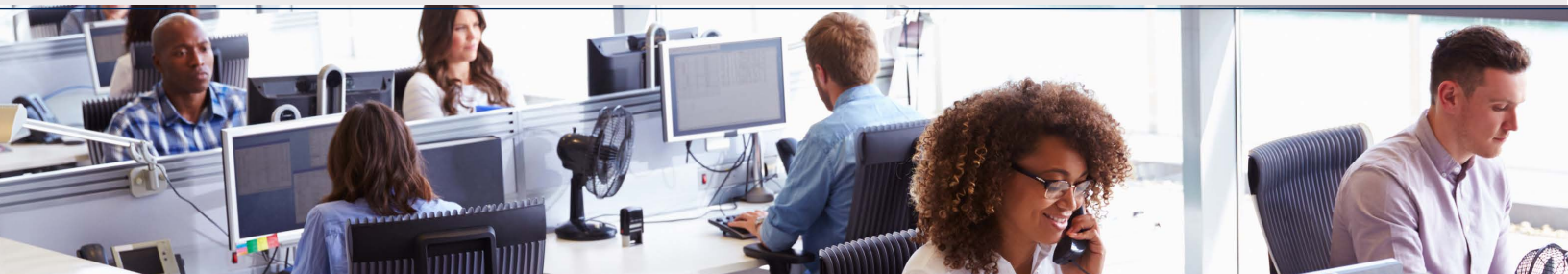
As partners for over two decades, Unisys and Dell EMC™ have collaborated on a number of joint solutions that provide business-critical support in some of today's most demanding environments.

And now, we're happy to announce that this long-standing partnership has resulted in another innovation: Dell EMC VxRail for the ClearPath Software Series.

With this new solution, you can run the ClearPath MCP Bronze and Silver products in the Dell EMC VxRail environment.

Built on the Dell EMC VxRail hyper-converged infrastructure appliance, the solution brings the appliance's ability to simplify and extend VMware® environments into the ClearPath Forward infrastructure. This unique combination delivers the robust scalability, availability, data integrity, and secure transaction processing capabilities you need to modernize and standardize your IT operations – and maintain the continuity and business logic of your applications.

This way, you can transfer the MCP environment's core advantages into a VMware infrastructure. You'll have the freedom to move a running MCP instance from one system to another without stopping it, making it possible to perform hardware and software maintenance without experiencing any downtime in your MCP environment.

In addition, you can virtualize and consolidate your MCP applications in the same Dell EMC VxRail system as your MCP operating environment. This way, your MCP footprint – core applications alongside such solutions as Enterprise Output Manager, Agile Business Suite, and more – can take advantage of the simplicity of the Dell EMC VxRail operating environment, helping you eliminate the costs and complexities associated with multiple backup systems.

Fully tested by Unisys – and fully supported by the Unisys and Dell EMC partnership – the solution leverages industry-standard IT infrastructure, tools, and services, along with state-of-the-art high availability and disaster recovery measures, to help you reduce business risk and shorten time to market.

For more information about how Dell EMC VxRail for the ClearPath Software Series can benefit your business, please contact your Unisys sales representative or email us at storage@unisys.com.

ClearPath OS 2200 Application Discovery in a Few Clicks

Founded in 1978, Formula Consultants Inc. (FCI) is a software development and consulting firm that works closely with IT organizations to understand the issues and goals they're facing and devises a custom-built solution to address these needs.

It's with this approach in mind that FCI recently released a new tool aimed at helping ClearPath OS 2200 shops tackle a common challenge: locating, identifying, and accessing valuable content on physical and virtual enterprise storage.

Called Enterprise Storage Pundit (ESP-Dorado), the tool features a graphical dashboard that allows you to monitor all aspects of your disk and tape assets. Its interactive charts reveal dynamic and customizable file, element, and tape lists, and can be drilled into to display source code or interact with Unisys Demand editors or the ClearPath OS 2200 IDE *for Eclipse*™ to edit the source code.

It also includes a search engine feature that supports system-wide content discovery through the use of keywords and filter criteria, accelerating application development, discovery, and maintenance. It also helps new members of your team jump-start their productivity by enabling them to view application information in a modern, intuitive, industry-standard format and drill down from files to code and run scripts.

ESP-Dorado makes this possible by providing:
- **An OS 2200 Agent** that captures OS 2200 disk and tape activity and forwards it to the Repository Server for near-time maintenance processing
- **Collector Services** that harvest and maintain a record of OS 2200 host assets and work with the OS 2200 Agent to provide an organized version of the original information

Beyond these core capabilities, ESP-Dorado includes additional management features that make it easy to:
- Bookmark findings for easy recall
- Create tasks with associated bookmarks for workload dissemination
- Export or print list information

Please visit FCI's web site to learn more about the company's products, services, or consulting approach.

Resources

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

- ClearPath Forward homepage
- Agile Business Suite homepage
- Business Information Server homepage
- ClearPath Forward & Innovation Blog
- ClearPath Forward How-To Videos on YouTube
- ClearPath Forward Libra/MCP Webinars
- ClearPath Forward Dorado/OS 2200 Webinars
- eBook: The Power of Innovation: ClearPath Forward Systems in Action (**Updated**)
- eBook: Built for Today, Ready for Tomorrow: Unisys ClearPath Forward Systems (**Updated**)
- eBook: The Road to Innovation: ClearPath Forward Services (**New**)
- eBook: Understanding the Economics of ClearPath Systems
- eBook: How to Shift Your IT Focus from Administration to Innovation

- Brochure: Evolve, Implement, Manage: The New ClearPath Forward Services Portfolio (**New**)
- Video Playlist: ClearPath OS 2200 Software Release 17.0 Technical Update (**28 Videos**)
- Video: The Sky is No Longer the Limit (**New**)
- Video: When Every Transaction Matters
- ClearPath Forward Client Education Homepage
  - Guide: ClearPath OS 2200 Course Catalog
  - Guide: ClearPath MCP Course Catalog
  - Guide: Agile Business Suite Course Catalog
- Newsletter: Developing *Agility* October 2016
- Newsletter: ClearPath Forward Connection September 2016
- White Paper: ClearPath Middleware Strategy and Products for OS 2200 Systems
- White Paper: ClearPath Middleware Strategy and Products for MCP Systems