



ClearPath Connection

A Quarterly Newsletter for Unisys ClearPath Customers

December 2013

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A Universe in Our Hands

By Jim Thompson, Chief Technology Officer, Unisys TCIS



The inaugural Unisys Universe Conference concluded in early September of 2013. This first-of-its-kind, client-centered event was designed with the express purpose of providing the strategic, tactical, and technical insights organizations like yours need to succeed in today's business environment.

To this end, Universe consolidated numerous events that used to happen independently throughout the year – such as the UNITE user conference, Enterprise Application Environment (EAE) and Agile Business Suite (AB Suite) Symposium, and the Client Exchange Forum – into a single, three-day conference. This provided a focused forum for Unisys and our clients and partners to discuss and deliver important messages about the future direction of key hardware, software, and services.

Nearly 400 IT professionals – from C-suite executives to entry-level analysts – gathered to hear these updates, discuss the key trends affecting the global IT industry, and participate in more than 50 technical track sessions. And because so many groups were brought together at Universe, the conference gave individuals who wouldn't normally interact with one another unprecedented collaboration and networking opportunities.

Aside from the sheer volume of attendees, we were incredibly impressed by the energy coursing through the convention hall during the conference.

You could feel it in the rooms packed with Unisys clients and alliance partners and hear it buzzing in the hallways, at the booths, and in the Client Exchange Forum. >>



What's more, you could even see it in the way Universe-related posts lit up social media. It was clear evidence that attendees found immense value in the new event.

Didn't Make it to Universe? Here's What You Missed

There were several exciting highlights throughout the three days of the Universe Conference, including:

- **The future of Unisys computing:** Universe 2013 saw the formal introduction of the new *Forward!* by Unisys™ fabric computing platform. This breakthrough, secure architecture is designed to handle the most demanding requirements of cloud and big data workloads, while providing organizations with a cost-effective means of migrating UNIX® application workloads off of legacy platforms and into an Intel® processor-based environment.
- **The evolution of cybersecurity:** Dave Frymier, Unisys Chief Information Security Officer, recalled the long evolution of cybersecurity and discussed how, as technology continues to evolve, its importance remains at an all-time high. Dave also took time to share his thoughts on the fascinating places he believes cybersecurity will go next.
- **The keynote:** We were honored to have the conference's keynote address delivered by technology visionary and Apple® co-founder Steve Wozniak. From covering what it takes to start one of the world's leading companies to describing the merits of a successful high-tech professional to discussing his appearance on "Dancing with the Stars," Steve shared his wisdom on what it takes to be an innovator – and even mentioned that Unisys is the type of company he could work for.

If you'd like to see more highlights from Universe 2013, please check out the playlist on our [YouTube channel](#) for recordings of select speeches and sessions.

ClearPath Takes Center Stage

Universe also featured content focused entirely on all things ClearPath. Known as ClearPath Technical Exchanges, these sessions allowed executive-level decision makers to come together and discuss plans and ideas for ClearPath systems and software, collaborate on technical issues, review implementation challenges, and share ideas for future technologies. In addition, the ClearPath Technical Exchanges featured targeted sessions about the overarching ClearPath strategy and vision, data-as-a-service, automation breakthroughs, DMSII database and information management, fraud and compliance, and more.

The ClearPath Technical Exchanges were extremely well attended and captured many customer and partner insights that will be instrumental in shaping the core ClearPath strategies for years to come.

In addition to these sessions, we also used Universe to introduce the ClearPath community to the new, cutting-edge [ClearPath Libra 8290 system](#) and discuss all of the great things the biggest, highest performing, most powerful member of the ClearPath Libra family can do.

A Great Start to a New Universe

We couldn't be more pleased with the number of Unisys clients and business partners that visited Universe. It was wonderful to see the entire, extended Unisys community come together and make the event a great one – and set the stage for bigger and better things in the coming years.

We're committed to making Universe 2.0 even better than the inaugural conference. If you attended the first Universe Conference and would like to share ideas on how to improve it – or if you would like to tell us why you chose not to attend – [please send us your thoughts](#). We welcome your feedback.

Save the Date: Universe 2.0 is scheduled to take place from October 13-15, 2014, in Dallas, Texas. Mark your calendars today!



A Giant Step Forward

We are pleased to formally announce the arrival of our latest innovation: the new *Forward!* by Unisys enterprise computing platform – a breakthrough, fabric-based solution that brings unprecedented levels of mission-critical security, availability, scalability, and predictable performance to Linux® and Microsoft® Windows® based workloads running in Intel® environments.

The new *Forward!* platform combines our advanced secure partitioning (s-Par®) technology, the Intel® Xeon® family of processors, and leading virtualization techniques to create a powerful, secure, highly flexible, industry-standard architecture capable of handling your most demanding workloads.

How it Works

Think of each secure partition within a *Forward!* fabric platform as a “containerized” server – with its own processing, memory, and I/O channels – designed to execute one specific workload. Dedicating resources to each partition in this manner eliminates the contention and latency that can hamper systems using virtualization alone, enabling you to achieve predictable performance.

The communications between and among the partitions occur at memory speed, delivering the high levels of performance you’ve come to expect from a Unisys environment. And, these partitions help to support the resiliency and availability of your most mission-critical workloads by providing that a fault in one partition will not affect others.

Available for delivery by the end of 2013, the *Forward!* fabric has many applications, including:

- **UNIX to Linux migration:** Delivers the familiar UNIX experience on an Intel® Xeon® platform, giving you higher levels of security, performance, and scalability, as well as greater cost efficiencies. [Learn more.](#)

- **SAP migration:** Enhances the performance of SAP HANA workloads, helping you harness big data and capitalize on the insights and business value it holds. [Learn more.](#)
- **Data center consolidation:** Combines the flexibility of a virtualized environment with the security of a physical infrastructure to help you increase performance and utilization, while reducing complexity. [Learn more.](#)

Ready to Move Forward?

In order to help you realize the full value of the *Forward!* platform, we are also offering extensive consulting services – which include planning, design, and implementation components – as well as services built around specific *Forward!* use cases.

*To learn more about how the *Forward!* fabric can help your organization, please visit the [Forward! homepage](#) to watch informative videos, download white papers and brochures, and read about specific solutions and service offerings. And for even more information, be sure to check out our new blog, “[A Giant Step Forward!](#),” for the latest *Forward!* news and insights.*



Business Information Server 48R1 Delivers Increased Performance and Productivity

Business Information Server (BIS) helps organizations create, organize, and manage their business logic, information, and web assets, so they can effectively develop mission-critical applications in their ClearPath environments. Planned for release in early 2014, BIS 48R1 will deliver improved performance and productivity, enhancements to both the BIS native script and JavaScript, new functionality for Developer Workshop, and increased security.

Performance and Productivity Enhancements

The following updates will help you increase the performance and productivity of your development efforts:

- The Calculate function has been optimized in BIS 48R1 to deliver improved performance – particularly during complex calculations and the processing of large sets of data.
- The maximum number of reports in a drawer has doubled from 5,000 to 10,000.
- The Date function now includes increased digit precision.
- New options in the Add function allow you to insert headers and blank lines in the result.
- The Match and Search functions feature new options that let you specify which line types to include in a report.

BIS Script and JavaScript Enhancements

BIS 48R1 delivers new capabilities that allow both the BIS native script and JavaScript to support a wider variety of BIS developers and uses:

- New JavaScript functionality has been added in accordance with the [ECMAScript Language Specification Edition 5.1](#) – the standard specification on which JavaScript is based.
- Date Processing includes new date formats and the Calculate method now supports end-of-month date computation.

Developer Workshop Enhancements

New functionality in Developer Workshop enables seasoned BIS experts and new developers alike to easily build flexible, mission-critical applications:

- The Code Assistance feature for both JavaScript and BIS Script can now be turned on from the keyboard using shortcut keys.
- Watches can now be added directly to the Watches window.
- The new Write Access function allows developers to easily switch between Edit and View modes.

Security Enhancements

Updates in BIS 48R1 help you create a more secure user experience:

- BIS 48R1 allows you to use correlation tables to map the name of an external user to a BIS user ID.

As these updates show, BIS is a strategic product for Unisys. We are committed to updating it in innovative ways that meet both market and customer needs – helping users the world over continue to benefit from all the great things it has to offer.

To learn more about what BIS can do for your business, please visit the [BIS homepage](#).



OS
2200



Unisys Stealth Solutions for Network Security: Additional Protection for ClearPath OS 2200 Environments

By Glen Newton, Consulting Software Engineer – ClearPath OS 2200 Security, Unisys TCIS

There's no denying the high levels of security inside a ClearPath OS 2200 platform. But the same can't always be said for systems living in the outside world.

And since your OS 2200 platform is more than likely communicating with systems in other environments, securing data in motion is always going to be a top-of-mind issue. And it's in these type of situations where Unisys Stealth™ Solutions for Network Security shine. Unisys Stealth adds an extra layer of external security to data in motion by being designed to:

- Render data endpoints undetectable and secure across any private or public network
- Securely virtualize communities of interest (COI) based on specific security privileges, so multiple COIs can coexist on a single, physical infrastructure
- Deliver superior cyber defense by cloaking networks from outsiders
- Reduce infrastructure and cost by eliminating the need for multiple, separate physical networks for each COI
- Work with existing security, identity management, and IT infrastructures without a costly redesign

And best of all, Unisys Stealth delivers defense-grade security, flexibility, and business value – without requiring you to reconfigure your network or make any application changes. Plus, it's easy to incrementally integrate into your existing network infrastructure.

Putting Unisys Stealth to the Test in an OS 2200 Environment

In the summer of 2013, the Unisys engineering team in Roseville, MN, constructed a test environment to learn the most effective way to apply Unisys Stealth to ClearPath OS 2200 systems. The motivation behind the test was simple: A customer wanted to better secure network traffic, but could not make the application updates required to take advantage of the Secure Sockets Layer (SSL) and Transport Layer Security (TLS) encryption options supported by OS 2200 communications.

With this customer requirement underpinning the test, the Roseville engineering team validated that Unisys Stealth can effectively protect communications between ClearPath Dorado platforms and Unisys Stealth enabled endpoint servers using multiple COIs. No application software changes were needed, and the only necessary updates were the addition of two Unisys Stealth appliances, a switch to connect them to OS 2200 network I/O, and the Unisys Stealth drivers we installed on the endpoints. Figure 1 on the following page provides a high-level view of this configuration.

There are no Unisys Stealth drivers for OS 2200 systems. But as the figure shows, we used Unisys Stealth appliances to effectively secure network traffic between the appliances and Unisys Stealth enabled endpoint servers. Every appliance has an encrypted and unencrypted connection. >>

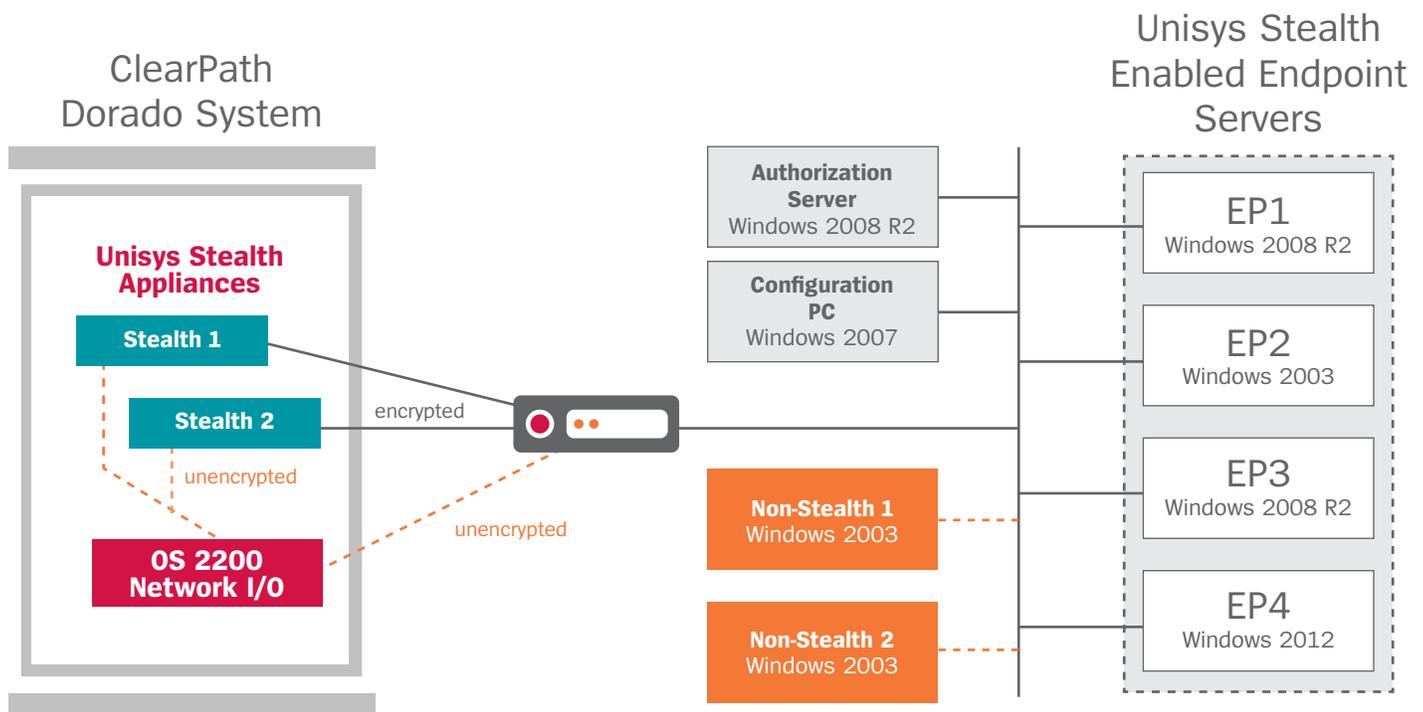


Figure 1: The environment created for the Unisys Stealth test.

The encrypted connections were run through a LAN in Roseville to allow secure traffic to pass between the appliances and Unisys Stealth enabled endpoint servers. Because the Unisys Stealth appliances were housed in the Dorado cabinet, it was not necessary to encrypt traffic between them and the OS 2200 partition.

Additionally, a single NIC on the OS 2200 partition was connected to the two Unisys Stealth appliances through a switch, while a separate NIC provided an unencrypted connection to the LAN. At the other end of the encrypted traffic, the four Unisys Stealth enabled endpoint servers connected to the LAN ran three different Windows levels, all with Unisys Stealth Windows drivers installed.

The team tested both encrypted and unencrypted data paths and used network sniffer software, running on the server labeled “Non-Stealth 1,” to confirm data was encrypted only where configured for Unisys Stealth – and untouched elsewhere. In addition, we monitored traffic to and from the server labeled “Non-Stealth 2” to verify that adding

Unisys Stealth to the network would lead to no ill effects on other network nodes.

We used the configuration PC shown in the figure to set up the Unisys Stealth environment, and the authorization server to verify COI membership when nodes connect.

Unisys Stealth Enhances OS 2200 Security

This basic test verified that the Unisys Stealth appliances protected the Dorado platform from undesirable visibility by other network nodes. Furthermore, it confirmed that the four different COIs in the configuration were able to securely exchange data, while remaining completely isolated and protected from one another.

An interesting facet of the test setup is that nothing depended on the server behind the Unisys Stealth appliances being a Dorado system. It could have just as easily been an MCP platform, or anything else that needs the protection of Unisys Stealth without an installed driver. >>

Behaviors Verified During the Test

- The Dorado system can be connected to the Unisys Stealth enabled endpoint servers with no required configuration in CProComm or other OS 2200 software – other than the configuration needed to access the endpoints without Unisys Stealth in the picture.
- COIs can be configured to include the Unisys Stealth appliances in the Dorado cabinet and a Windows server, with several Unisys Stealth enabled endpoint servers in separate COIs.
- The components of each COI can communicate among themselves using common protocols.
- Servers in a COI can communicate with others outside the COI using a network port that is different from the one used for the Unisys Stealth connection.
- Servers in a COI are obscured to those outside the COI unless they are connected by a separate LAN.
- Servers outside a COI are obscured to those in the COI unless they are connected by a separate LAN.
- Members of the COI can communicate among themselves, even if the authorization server is unavailable, until they need to be re-authenticated.
- Servers on the same LAN as the endpoint, but not in the COI, cannot read encrypted data sent between members of the COI.

As pleased as we were with the results, we were even more impressed by the fact that we could achieve this level of protection using just the basic Unisys Stealth functionality.

We effectively secured communications in the environment without even delving into some of the solution's advanced features, such as the Stealth VPN service, which creates a private network connection to a Unisys Stealth appliance, and the Stealth Multicast feature, which enables the sender to transmit one packet to a group of listeners that share common encryption.

In the end, our test confirmed that Unisys Stealth is an incredibly powerful solution – and one that can easily add value to ClearPath environments.

For more information about the Unisys Stealth solution suite, please watch the [overview video](#) or read the [solution brochure](#). And if you'd like to learn how to add Unisys Stealth to your own environment, please contact your Unisys sales representative.



Tech Corner: Database Access Logging and ClearPath MCP Systems

By Kung Lin, Principal Engineer, Database Product Group, Unisys TCIS

Enterprise Database Server (aka DMSII) for ClearPath MCP provides a highly available environment that supports large databases and high-volume online transaction processing. It supports installations of virtually any size and a broad variety of data models.

DMSII also incorporates validation, audit/recovery, and access control capabilities, and supports optional utilities for database analysis, monitoring, integrity certification, online reorganization, and online archiving.

And while security is a cornerstone of the DMSII architecture, there may still be instances where you have to provide confirmation to an auditor or regulatory body about what data was accessed when.

Data access logging, a new feature for DMSII released in ClearPath MCP 15.0, can help you do just that. Data access logging gives you the option to automatically capture DMSII database inquiries and update actions and record them in the system SUMLOG. You can then use this information to show auditors who accessed what data, what they did to it, and when they did it.

Take, for example, an application used to manage traffic violations. The data access logging feature could allow you to see when a traffic ticket was entered into the system, who issued it, and which officers or members of the court viewed it.

And, you can do so without having to manually enter and record any of this data. Here's how it works:

How Data Access Logging is Activated

Data access logging is a standard feature in the DMSII environment, which is defined in the DASDL specification using the new LOGACCESS option. Once invoked, it is always “capable” – i.e., running in standby mode – but must be explicitly enabled before logging can occur. This allows you to activate the feature dynamically, at times when your organization determines that it's needed most, such as during year-end closing procedures. And because it's easy to turn on and off at will, you can capture important information while minimizing storage requirements and the associated costs.

To activate the feature, you'll first need to perform the following configuration task:

- Set the DMS ACCESS System Log Option

You can use Security Center or the LOGGING (Logging Options) system command to set the DMS ACCESS option. This action is required in order for ACCESS records to be written to the SUMLOG. Below is an example of a LOGGING system command:

- LOGGING 1,35

If you need additional information about the LOGGING system command, please refer to the System Commands Reference or Security Center Help.

In addition to this step, you'll also need to execute these configuration tasks:

- Set the DASDL LOGACCESS Option
- Enable the LOGACCESS Option >>

What's Captured by Data Access Logging

In addition to the task information provided for all types of DMSII records, such as usercode, taskname, time-of-day, etc., the data access logging feature will also record the following information for DMS ACCESS type records:

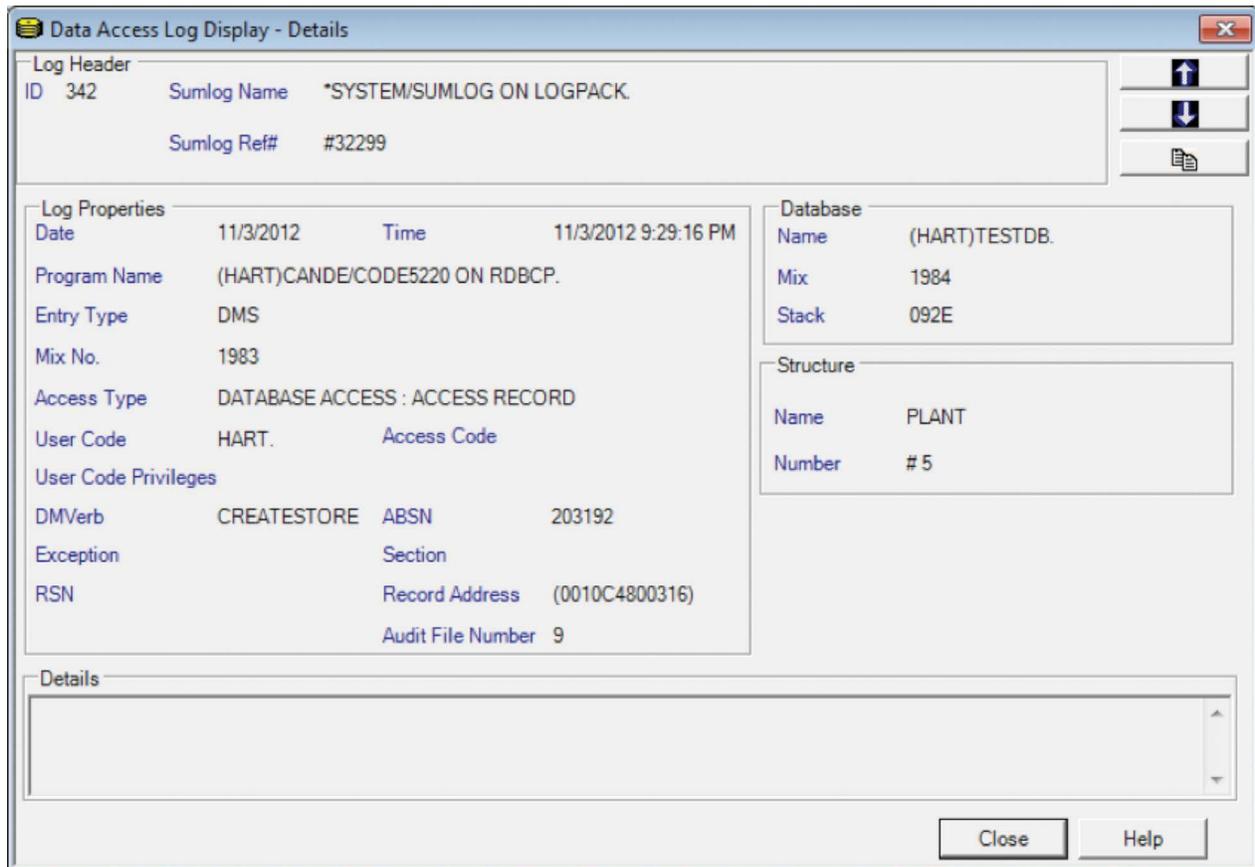
- Structure Name
- Structure Number
- Section Number (if sectioned)
- Record Address
- Record Serial Number (RSN) for XE structures
- DMEXCEPTION
- DMVERB
- ABSN and Audit File # recorded for update verbs

In addition, the feature records access for the following DMVERBS:

- ASSIGN
- ASSIGNLOB
- CREATESTORE
- DELETE
- DELETELOB
- FIND
- FINDLOB
- FREE
- GENERATE
- INSERT
- LOCK
- LOCKSTORE
- REMOVE
- SECURE

All of this information is displayed in the Database Operations Center, a clear, easy-to-use GUI, making it easy for you see the information captured in the log. Figure 1 shows an example of the GUI. >>

Figure 1: An example of the Database Operations Center, showing the Data Access Log display.



How it Analyzes Data

Once you capture specific access information, you have the option of using several different tools to analyze the data.

For example, you can use the MCP Log analyzer, the Database Operations Center, or any log analysis applications you've written yourself.

Or, you could use an analysis tool, like dbaTOOLS AccessLog. This new module of dbaTOOLS – made available in MCP 15.0 – enables you to extract

data access log records from the SUMLOG and generate customized reports with DBA-specified filters and sorting.

When you use the Database Operations Center to analyze captured data, you'll be able to customize the output based on a specific date range and filter it by a multitude of criteria. Figure 2 shows the request being entered in the Database Operations Center, and Figure 3 on the following page illustrates the output of that request. >>

Figure 2: A request being entered in the Database Operations Center.

The screenshot shows the 'Analysis: Monitor Data Access Log' window. The title bar includes a menu bar with 'File', 'Options', and 'Help'. The main area is divided into several sections:

- Database:** A dropdown menu showing '(HART)TESTDB ON RDBCP'.
- Log Date Criteria:** Fields for 'From' (Nov 03, 2012 9:39:31 AM) and 'To' (Nov 6, 2012 3:39:31 PM). A 'Sumlog File' field shows '9 SUMLOGS SELECTED'.
- Log Filter:** Input fields for 'Program Name', 'User Code', 'Mix No.', and 'Exception No.'. A 'DMVerb' list includes FIND, LOCK, SECURE, ASSIGN, CREATESTORE, DELETE, and GENERATE, all of which are checked. 'Select All' and 'Clear' buttons are present.
- Log Structure Criteria:** Two lists: 'Capable Structures' (AUDITAREA, COMPUTER, PLANT, CP, CCC, SUBPERSONNEL2, MANAGER) and 'Selected Structures' (PRODUCT, CUSTOMER, PERSONNEL). Buttons for 'Add >>', 'Add All >>', '<< Remove', and '<< Remove All' are between the lists.

At the bottom, there is a legend for '* Required field' and buttons for 'Submit', 'Cancel', 'Reset', and 'Help'.

ID	Date	Time	UserCode	DMVerb	ProgramName
1	11/3/2012	9:29:15 PM	HART.	CREATESTORE	(HART)CANDE/CODE5220 ON RDBCP.
2	11/3/2012	9:29:15 PM	HART.	CREATESTORE	(HART)CANDE/CODE5220 ON RDBCP.
3	11/3/2012	9:29:15 PM	HART.	CREATESTORE	(HART)CANDE/CODE5220 ON RDBCP.
4	11/3/2012	9:29:15 PM	HART.	CREATESTORE	(HART)CANDE/CODE5220 ON RDBCP.
5	11/3/2012	9:29:15 PM	HART.	CREATESTORE	(HART)CANDE/CODE5220 ON RDBCP.
6	11/3/2012	9:29:15 PM	HART.	CREATESTORE	(HART)CANDE/CODE5220 ON RDBCP.
7	11/3/2012	9:29:15 PM	HART.	CREATESTORE	(HART)CANDE/CODE5220 ON RDBCP.
8	11/3/2012	9:29:15 PM	HART.	CREATESTORE	(HART)CANDE/CODE5220 ON RDBCP.
9	11/3/2012	9:29:15 PM	HART.	CREATESTORE	(HART)CANDE/CODE5220 ON RDBCP.
10	11/3/2012	9:29:15 PM	HART.	CREATESTORE	(HART)CANDE/CODE5220 ON RDBCP.
11	11/3/2012	9:29:15 PM	HART.	CREATESTORE	(HART)CANDE/CODE5220 ON RDBCP.
12	11/3/2012	9:29:15 PM	HART.	CREATESTORE	(HART)CANDE/CODE5220 ON RDBCP.
13	11/3/2012	9:29:15 PM	HART.	CREATESTORE	(HART)CANDE/CODE5220 ON RDBCP.
14	11/3/2012	9:29:15 PM	HART.	CREATESTORE	(HART)CANDE/CODE5220 ON RDBCP.
15	11/3/2012	9:29:15 PM	HART.	CREATESTORE	(HART)CANDE/CODE5220 ON RDBCP.
16	11/3/2012	9:29:15 PM	HART.	CREATESTORE	(HART)CANDE/CODE5220 ON RDBCP.
17	11/3/2012	9:29:15 PM	HART.	CREATESTORE	(HART)CANDE/CODE5220 ON RDBCP.
18	11/3/2012	9:29:15 PM	HART.	CREATESTORE	(HART)CANDE/CODE5220 ON RDBCP.
19	11/3/2012	9:29:15 PM	HART.	CREATESTORE	(HART)CANDE/CODE5220 ON RDBCP.
20	11/3/2012	9:29:15 PM	HART.	CREATESTORE	(HART)CANDE/CODE5220 ON RDBCP.
21	11/3/2012	9:29:15 PM	HART.	CREATESTORE	(HART)CANDE/CODE5220 ON RDBCP.
22	11/3/2012	9:29:15 PM	HART.	CREATESTORE	(HART)CANDE/CODE5220 ON RDBCP.
23	11/3/2012	9:29:15 PM	HART.	CREATESTORE	(HART)CANDE/CODE5220 ON RDBCP.
24	11/3/2012	9:29:15 PM	HART.	CREATESTORE	(HART)CANDE/CODE5220 ON RDBCP.
25	11/3/2012	9:29:15 PM	HART.	CREATESTORE	(HART)CANDE/CODE5220 ON RDBCP.
26	11/3/2012	9:29:15 PM	HART.	CREATESTORE	(HART)CANDE/CODE5220 ON RDBCP.
27	11/3/2012	9:29:15 PM	HART.	CREATESTORE	(HART)CANDE/CODE5220 ON RDBCP.
28	11/3/2012	9:29:15 PM	HART.	CREATESTORE	(HART)CANDE/CODE5220 ON RDBCP.
29	11/3/2012	9:29:15 PM	HART.	CREATESTORE	(HART)CANDE/CODE5220 ON RDBCP.
30	11/3/2012	9:29:15 PM	HART.	CREATESTORE	(HART)CANDE/CODE5220 ON RDBCP.

Figure 3: The output of the request.

Ready to Learn More?

If you need any additional information about activating or using the data access logging feature, we encourage you to read section 22 of the [Enterprise Database Server for ClearPath MCP Utilities Operations Guide](#). It contains a wealth of information about DMSII, as well as helpful tips for getting the most out of the data access logging feature.



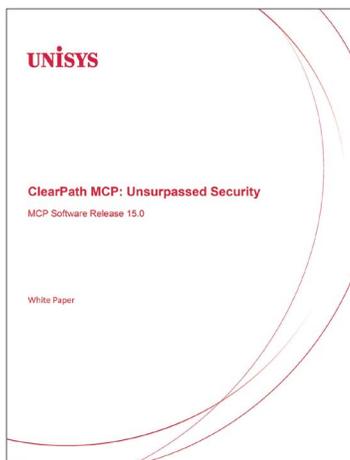
ClearPath: Unsurpassed Security

Security is, has, and will remain both a top-of-mind concern and focal point of your business and IT decisions.

And while many people think of IT security in terms of the point products we purchase and deploy to protect something specific, like access, data, or networks, that approach can only take you so far. When it comes to safeguarding your most mission-critical assets, the ideal starting point is a platform architecture that has been designed from the ground up to be as secure as possible.

This concept of purpose-building an architecture to maximize security has long been a hallmark of ClearPath systems. And our focus on creating the safest environments possible is one of the reasons these platforms are regarded as industry leaders in the area of security.

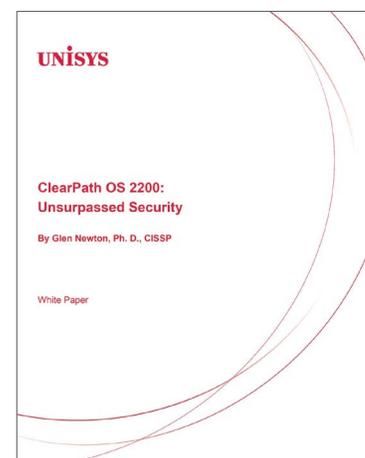
If you're curious to see the full scope of capabilities that make these platforms some of the most secure on the market, then we encourage you to download our latest white papers:



ClearPath MCP: Unsurpassed Security: Describes the safeguards ClearPath Libra systems employ to protect your mission-critical data, including detailed auditing mechanisms, robust authentication options, authorization controls, system and user policy management, runtime memory access controls, and other key features. [Read the full paper.](#)

ClearPath OS 2200: Unsurpassed Security:

Explains how ClearPath Dorado platforms are designed to effectively protect your organization from outside attacks and internal breaches alike by maximizing data confidentiality and integrity, providing system and data availability, and securing the underlying system architecture. [Read the full paper.](#)





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

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