

# ClearPath Connection

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Q1 2009

*A quarterly newsletter for Unisys ClearPath customers*

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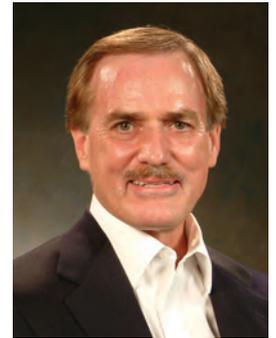
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## ClearPath Commitment

*By Bill Maclean, Vice President, ClearPath and Agile Business Suite Portfolio Management, Unisys Systems & Technology*

The heritage of Unisys ClearPath servers spans multiple decades and countless client engagements – a rich history that few can match. Over this time, these systems have been the driving force enabling organizations to develop the unique solutions that provide a distinct competitive advantage. As we move forward in 2009, our objective remains the same: provide the new technologies and services that continually address the rigorous, evolving requirements of the ClearPath client base.



Commitment. It's an easy word to say, but difficult to demonstrate. Be that as it may, you can rest assured knowing that Unisys is committed to the long-term support and enrichment of our ClearPath systems – a fact that is evidenced most recently by our 2008 actions and results.

### Commitment to Growing the ClearPath Customer Base

In 2007 and 2008, we added notable new ClearPath clients from a variety of industries, including financial services, telephony, and transportation business sectors. Our new financial services clients span everything from small credit unions to large banking institutions. New telephony clients chose ClearPath as the platform to leverage a messaging solution that services tens of millions of voicemail boxes, and provides a variety of creative messaging functions. And, new airline cargo management clients in the transportation industry have adopted the ClearPath environment to utilize our cargo management solution.

Overall, shipments of ClearPath servers in 2008 were 16 percent higher than in 2007. And the total MIPS capacity shipped in 2008 represented even greater growth.

### Commitment to Innovation

Significant examples of our ongoing commitment to ClearPath innovation come in the form of new platforms and software technologies. Notable 2008 platform announcements included:

- **ClearPath Dorado 700 Series:** a high-end CMOS family designed to accommodate large solutions
- **ClearPath Dorado 4000 and ClearPath Libra 4000 models:** representing the second step in our Next-Generation Server Architecture strategy, which expands performance without sacrificing reliability and security
- **Specialty Processors:** delivering another dimension of the ClearPath architectural evolution that incorporates industry-standard technologies and offers consistently higher performance in such areas as web enablement, Web Services, mobile device integration, Java, and data encryption >>

### Commitment to Education

We are working on a major refresh of the ClearPath curriculum – and we need your help. [Take our online survey](#) to share your training requirements with Unisys course developers.

## Commitment to Modern Software Capabilities

We bolstered these hardware innovations with new software releases that help your organization increase scalability, extend reliability, adopt new industry standards, simplify operations, enhance development technologies, and, most importantly, provide the foundation for promoting a service-oriented architecture (SOA). When taken as a whole, these releases exemplify our goal of providing you with the code compatibility that streamlines the adoption of new features.

For example, MCP release 12.0, OS 2200 release 11.3, Agile Business Suite 2.0, and BIS 46R1 illustrate the ways in which we enable you to leverage the comprehensive solutions you need to support growing business requirements. These extensive, fully integrated new software technologies represent a significant ongoing investment designed to accommodate innovative solutions that distinguish your organization from its competition.

What's more, our emphasis on helping you adopt industry-standard technologies expands the number of professionals who can be involved in the development, support, and management of new capabilities, leading to a more productive, cost-efficient environment.

## Committed to Your Future Success

As 2009 progresses, we promise to illustrate this commitment to an even greater extent. We plan to introduce new platforms, Specialty Processors, and software technologies throughout the year – all of which will be complemented by an expanding portfolio of professional services that help you derive the maximum return on your ClearPath investment.

It is extremely gratifying to know that such a wide variety of organizations rely on ClearPath systems to support their most critical business processes. We thank each and every one of you and promise to take the steps necessary to ensuring your success for years to come.

Looking for more about development tools from Unisys? [Sign up for Developing Agility](#), a quarterly newsletter dedicated to helping organizations obtain maximum value from Agile Business Suite (AB Suite) and Enterprise Application Environment (EAE).

## Unisys Enterprise Output Manager – Much More than Print Management

*By Doug Van Vreede, Senior Software Engineer, Unisys Systems & Technology*

Capture, simplify, and automate complex operational procedures. A straightforward set of objectives to be sure – but one that is incredibly difficult to achieve in today's complex IT environments.

There is no shortage of targets for automation – but why not get started with output management? Not only can you centralize and streamline traditional print production processes for improved efficiency, you can take output management to a whole new level to deliver information where it's needed, when it's needed, and in a format that best fits your specific requirements.



That's a lot to ask from any technology, but it's exactly what Unisys Enterprise Output Manager delivers. Read on to learn what this solution – which is included in your ClearPath IOE<sup>1</sup> – can do for your organization.

### Anywhere, Anytime, and in Any Form

Enterprise Output Manager is a flexible solution that spans heterogeneous environments, receiving, processing, and distributing data from both Unisys ClearPath OS 2200 and MCP systems, as well as such operating environments as Microsoft® Windows®, UNIX®, and Linux®.

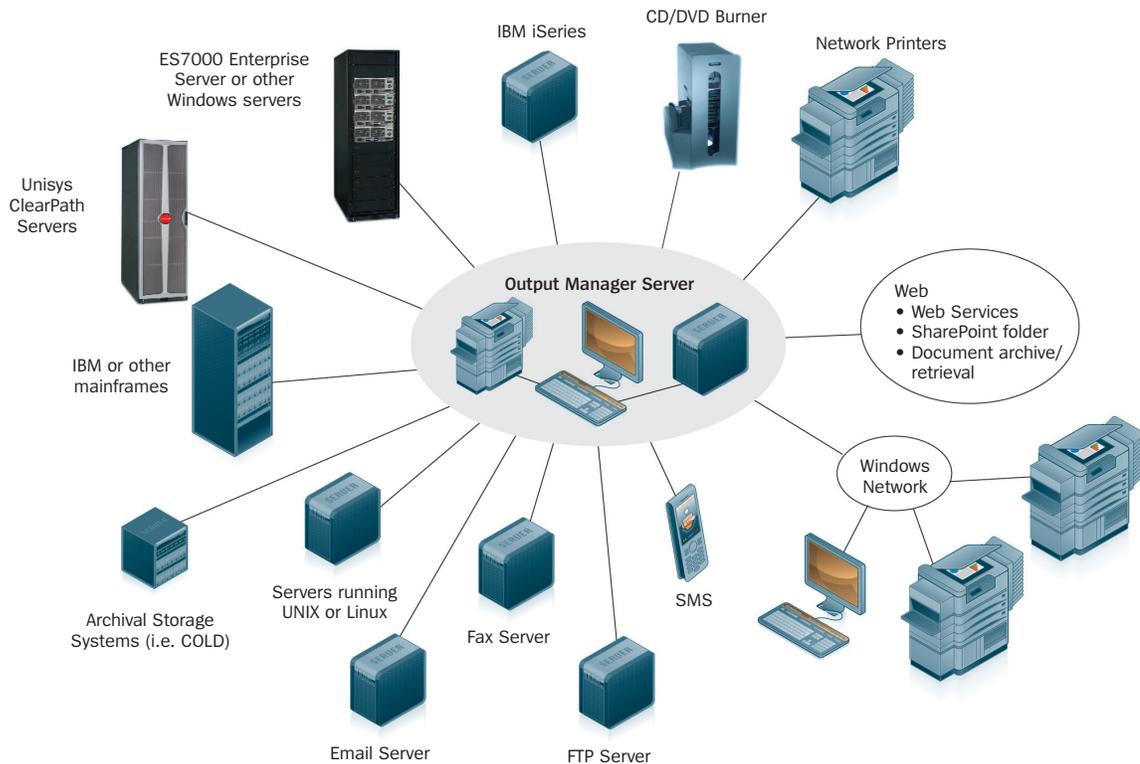
Enterprise Output Manager allows you to control, manage, format, and customize information from these sources, then automatically distribute it to the destination of your choice, including:

- Any Windows printer or TCP/IP device
- Any operating system using open protocols
- Email systems
- FAX
- CD/DVD ROM burners
- Local and network directories
- Web sites and folders, including Microsoft SharePoint®
- Archives
- PDF and XPS files

In addition, Enterprise Output Manager performs these activities using such open, industry-standard formats and protocols as XML, HTTP, TCP/IP, and FTP. >>

<sup>1</sup> A copy of Enterprise Output Manager, including sample forms, is included in the Integrated Operating Environment (IOE) of your ClearPath server. The Form Design tool must be separately licensed.

## Enterprise Output Manager Network



Moreover, because Enterprise Output Manager centralizes the management of all print resources and distribution tasks under a single interface, it fits well with any virtualization strategy. And, it provides some of the advanced automation capabilities you need to create a dynamic, real-time infrastructure.

Using Enterprise Output Manager will help your organization realize significant benefits, including:

- Eliminating the costs associated with maintaining, supporting, and licensing different products for specific printing tasks
- Gaining the ability to implement modern, efficient, industry-standard printers
- Reducing paper use by electronically processing, routing, and archiving information
- Eliminating the need to purchase pre-printed forms and the waste associated with the inevitable changes
- Increasing employee productivity by centralizing and automating complex operational tasks >>

## What's New in Enterprise Output Manager Version 8.0?

Released in January of 2009, Version 8.0 includes a host of new capabilities that help you further simplify and automate output management tasks. Notable new features include:

- The ability to process XML input files, and transform them into formats, such as:
  - HTML for updating web pages
  - PDF files for email
  - SOAP messages to send to Web Services
  - Any other XML format to be passed to other applications
- Functionality to send and receive data via HTTP, allowing legacy applications to freely exchange information with Web Services, making Output Manager a component in a service-oriented architecture (SOA) environment
- The ability to send files via FTP
- Compatibility with Internet Protocol version 6 (IPv6) on OS 2200 and Windows platforms
- The ability to generate Intelligent Mail® barcodes, which are the new standard required by the United States Postal Service to reduce the cost of bulk mailings
- New search capabilities that automatically expire any files that fall within a predetermined creation or modification date range

## Real-World Uses of Enterprise Output Manager

With such a wide range of capabilities that go well beyond the simple act of sending output to the appropriate printer, you may be curious to know how Unisys customers are taking advantage of all that Enterprise Output Manager has to offer. The use cases below demonstrate how your industry peers – and others – are benefitting from the solution.

### A Travel Provider

Enterprise Output Manager receives XML documents containing itinerary, ticketing, and billing information. The ticketing information is used to generate a PDF file for each ticket. The itinerary information is used to create the body of an email message, which is sent to the customer with the PDF tickets as attachments.

### Using Enterprise Output Manager Already?

We'd love to know more. Please email us at [EOMservices@unisys.com](mailto:EOMservices@unisys.com).

### A Government Agency

A government agency with over 35 branch offices and 120 printers uses Enterprise Output Manager to automatically create and merge data onto more than 40 different forms, which are defined via the solution (i.e. no more pre-printed forms.) The output includes the use of multiple fonts, barcodes, and optical character recognition (OCR) images. The solution manages the printing of these forms, generating over 1,000 unique documents and 30,000 pages per day. In addition, it archives most documents to the agency's Intranet site via Enterprise Output Manager Web Assistant, which minimizes the need for hardcopy distribution and provides timely access to information.

### A Cooperative Alliance

Enterprise Output Manager gives a cooperative alliance the ability to run a custom process that splits output from the organization's Enterprise Application Environment (EAE) based application by co-op, converts the individual documents to PDF, and posts the final PDFs to the alliance's Microsoft SharePoint server. >>

## A Grocery Chain

Enterprise Output Manager manages all print, fax, and emailed output from the organization's JD Edwards ERP system. What's more, the grocery chain uses it to print price labels, and applies the solution's Indexing function to invoices and statements, which helps support center personnel respond to customer inquiries.

## A Hospital

Enterprise Output Manager helps the hospital generate reports from its IBM iSeries-based patient administration system and split them into subsections containing information specific to a certain role, such as nurses, lab technicians, and more. In addition, the hospital uses the solution to create and print unique per-patient wrist bands containing a barcode and other identification information.

## Get Started with Enterprise Output Manager – or Get More from Your Existing Implementation

The cases above present just a small sampling of how Unisys clients are using Enterprise Output Manager today.

To learn more about the unique ways this solution can benefit your organization, take a look at the [Capabilities Overview](#) or view a [UNITE 2008 presentation](#). In addition, Unisys offers web-based and classroom training options that can help your team come up to speed quickly. Visit the customer education section of [Unisys.com](#) for details.

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## Calendar

There are many learning opportunities available to you. Please be sure to check the Webcasts & Events section of the [eCommunity](#) for the latest information.

What	Where	When
ClearPath webcasts on a range of topics, including: <ul style="list-style-type: none"> <li>• Agile Business Suite 2.0</li> <li>• BIS Release 46R1 for ClearPath</li> </ul>	Online via the eCommunity	Check the <a href="#">Webcasts &amp; Events Archive</a> in the eCommunity for details.
<a href="#">UNITE</a> Annual Technology Conference	Minneapolis, MN	November 8-11, 2009

## New Lease on Life (for your IT infrastructure that is...)

By Steve Clinton, Vice President, ClearPath Sales, Unisys EMEA

In today's tight capital market, finding the funding for new IT investments is no small challenge. That's why there's never been a better time to consider the use of flexible financing options – via [Unisys Leasing Worldwide](#).

While many traditional funding sources have dried up or completely disappeared, Unisys Leasing Worldwide has plentiful funding and the ability to tailor an agreement that covers your entire ClearPath contract – hardware and software (including metering). The combination of metering and leasing offers a *triple savings for ClearPath customers* – no unused “white space,” higher performance ceilings to complete production workloads in fewer hours, and the potential to have payments treated as an operational expense (OPEX).

Working with Unisys Leasing Worldwide allows your organization to trade an upfront capital equipment expense for a more manageable operational expense, take advantage of tax leveraging<sup>2</sup>, defer payments, and/or include upgrade provisions – all while obtaining the critical equipment needed to maintain *and grow* your business.

Contact your Unisys sales executive to learn how leasing can lend an advantage to your IT initiatives.

### More About Unisys Leasing Worldwide

- [Unisys Leasing Worldwide](#) is a service provided by Key Equipment Finance, which has been a global partner with Unisys since 1992 and has funded more than \$1B of Unisys hardware and software since that time
- Key Equipment Finance is the second largest bank-owned lessor in the United States and originates \$5.6B in net-new leases annually
- Key continues to be rated “investment grade” by the four primary U.S. credit rating agencies



A Client Solutions Program provided by Key Equipment Finance

### What are your ClearPath training requirements?

Unisys Customer Education is updating the ClearPath training portfolio. Please [take our survey](#) to help us better understand your training needs.

<sup>2</sup> Please consult your tax advisor.

## Product Development & Technology to be Led by Bob Supnik

Bob Supnik recently joined the Unisys Systems & Technology (S&T) business unit as vice president and general manager for Product Development and Technology, which encompasses product and solutions development for S&T, as well as the supply chain for the company. In addition, Bob is Chief Technology Officer for S&T.

Bob brings over 35 years of experience to Unisys. Most recently, he served as the vice president of engineering at SiCortex, Inc. Prior to that, Bob was vice president of engineering and CTO for both Nauticus Networks and FairMarket, and held various senior-level positions at Digital Equipment Corporation.

Bob regularly speaks at industry conferences, holds eight patents, and has authored a series of emulators for significant computers. He holds a Master of Arts in history from Brandeis University, and Bachelor of Science degrees in history and mathematics from MIT.



*“I’m pleased to be part of Unisys S&T and its decades-long tradition of providing mission-critical solutions to clients’ most demanding business problems. This year, I intend to focus on meeting customers’ requirements for ClearPath, both short- and long-term, as well as driving innovation in support of S&T’s strategic initiative in data center transformation.”*

*– Bob Supnik  
VP and General Manager, Product Development and Technology  
Unisys S&T*

## Tech Corner: What the Eclipse IDE Means for MCP Developers

By Mark Shimrock, Engineering Manager, Unisys Systems & Technology and Sanjay Handique, Engineering Manager, Global Technology Center, Unisys India

COBOL, ALGOL, DMALGOL, DCALGOL, WFL and/or Java. Whatever your language of choice, there's no doubt you're very well-versed in the ins and outs of application development, build, test, and deployment in the ClearPath MCP operating environment.

*So, why should you care about an integrated development environment (IDE), such as Eclipse? Because Eclipse is being shaped into an IDE that makes sense for MCP development.*

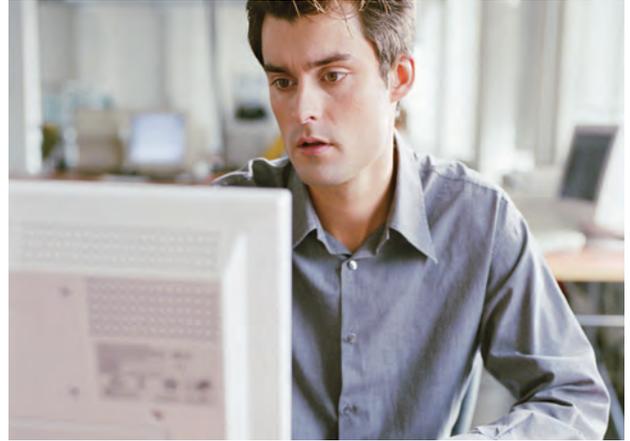
Unisys is building on the strong foundation of the open source Eclipse framework and plug-ins by adding in functionality that integrates and supports the tools MCP developers depend upon and the common workflows they follow. Our goal for the ClearPath MCP IDE for Eclipse is to *enhance* your development experience through the use of industry-standard tools – *without forcing you to make changes that degrade productivity or deviate from your proven processes.*

This Tech Corner is designed to give you a feel for what Eclipse looks like in an MCP world. So please, take a few minutes to learn more about the ClearPath MCP IDE for Eclipse. And then make your own decision about whether or not it makes sense for your organization.

### Get a New Perspective(s)

Let's start with a discussion of perspectives. In the Eclipse world, a perspective is the developer's view into the many things on his or her "to do" list. If you're a fan of multi-tasking, you'll love perspectives!

The perspective is comprised of multiple windows in which various activities are performed, such as code edit, error checking, debugging, search, and so on. Most importantly, these windows are linked together so that an action in one can have an effect in another. >>



### What is Unisys Providing for Eclipse?

An All-in-One package comprised of the following:

- The open source Eclipse IDE framework
- A selection of open source plug-ins that we see as particularly valuable in a ClearPath development environment, such as the Eclipse Data Tools Platform Project
- Unisys plug-ins, some of which are modified versions of open source plug-ins and others built by Unisys, which enable the development of applications specifically for ClearPath and access to ClearPath assets (databases and transactions)
- An Application Development Guide to help you get started

What's more, the components of the All-in-One package are:

- Integrated and tested by Unisys engineering
- Supported<sup>3</sup> via Unisys Support at no additional charge

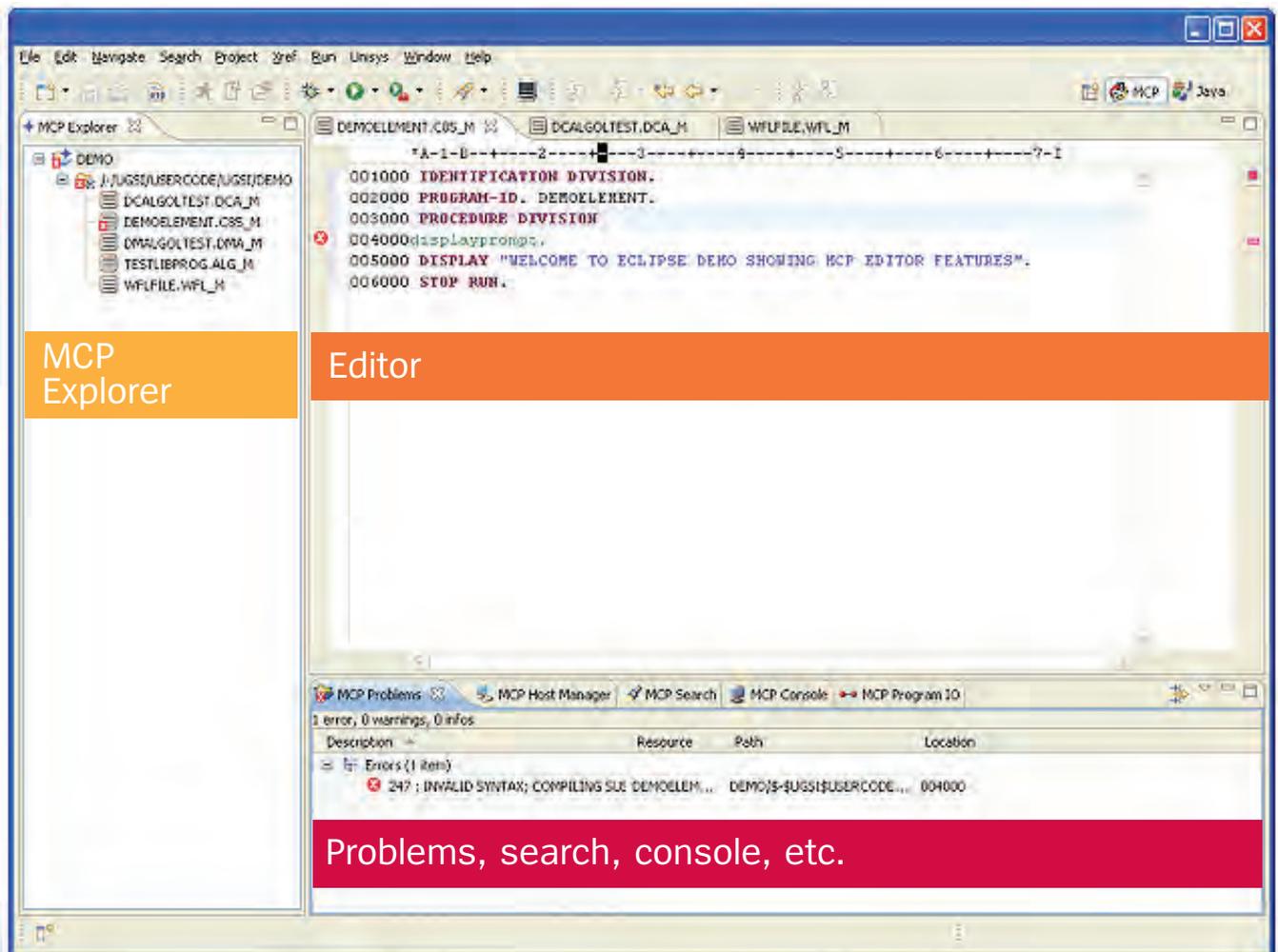
*Note: if your organization is already using Eclipse, then you don't need the All-in-One package and can simply use the Unisys Composite Application plug-in in your existing environment.*

<sup>3</sup> Support statement: Unisys will make reasonable efforts to work with the Open Source community to resolve problems. Unisys developed content falls under normal support policies.

Take a look at the screen shot below, which shows a typical perspective for the MCP Project Plug-in for a COBOL developer.

- On the left is the MCP Explorer, which gives you a structured view of your project and the objects in it. What's a project? Well, it's simply Eclipse-speak for a collection of application source files, a mechanism to edit them, and a workfile that holds all the pieces you're working on. It can contain all or just a portion of your application source code, for example. With just a click in the MCP Explorer window, you can navigate to whatever object within the project you wish to view.
- In the center of the screen is the Editor view, which contains the section of code you're currently working on. Note the tabs along the top. You can have multiple tabs, each with its own section of code being edited.
- At the bottom of the perspective is a catch-all window with many tabs showing everything from problems to search results. When a developer clicks on the error log tab and clicks on an error, the Editor window will open right to the line with the problem.

Pretty powerful stuff – don't you think? >>



## Enabling MCP Development from the Eclipse IDE

Unisys provides a number of MCP-specific plug-ins for Eclipse that are designed to integrate typical MCP development activities into this IDE. The list of MCP-specific plug-ins includes:

- MCP Project Plug-in (which you saw in the previous section)
- COBOL Editor
- WFL Editor
- ALGOL, DMALGOL, DCALGOL Editor
- Java Development Environment
- MCP Debugging (coming soon in the next release)
- Java Application Integrator (coming soon in the next release)

As you've probably guessed from their names, these plug-ins are what give the MCP flavor to Eclipse.

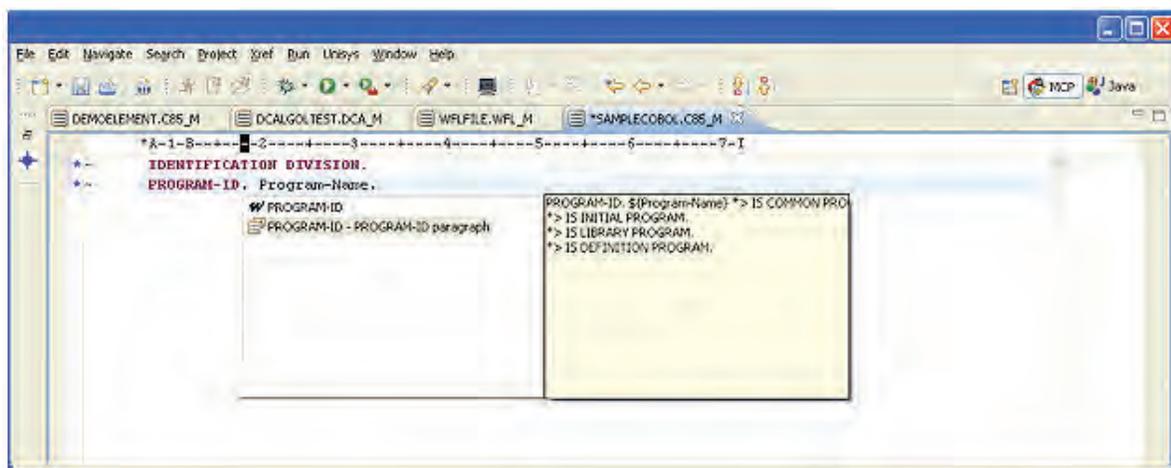
The MCP Project Plug-in “knows” how MCP development works – how developers edit, what program files look like, the fact that WFL is used to execute programs, that TADS is the debugger, and so on. The MCP Project Plug-in is a “traffic cop” that issues commands from the Eclipse environment to the MCP operating environment, understands how to look at the responses, and knows what developers need to see.

The MCP Project Plug-in provides the mechanism for editing all pieces of your application, with various add-on, language-sensitive editors for COBOL and ALGOL, as well as Java and C. With a push of a button in the Eclipse IDE, developers can initiate the build process and review the results. This includes the ability to review compile errors with editor integration to make fixes very straightforward.

Words cannot really do justice to the power of the ClearPath MCP IDE for Eclipse, but the following sections and screen shots provide several examples that we hope will inspire you to give Eclipse a try.

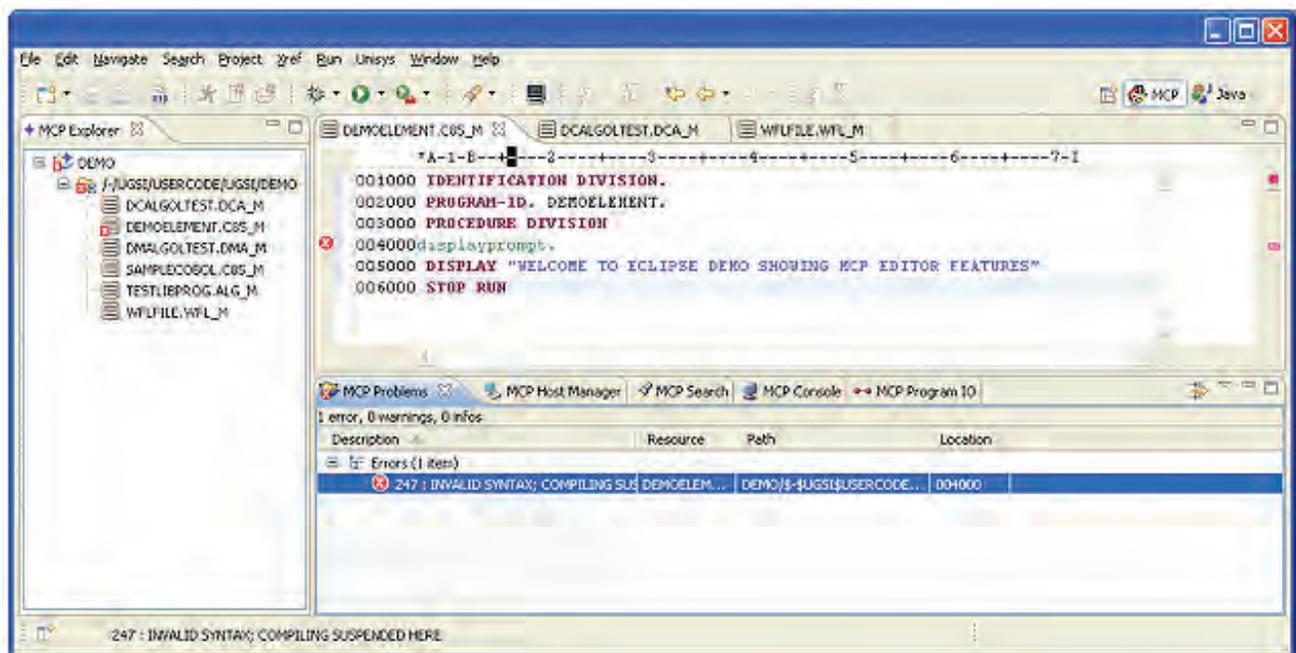
### ***COBOL and ALGOL Auto-Completion***

COBOL is known for being a particularly verbose programming language with lots of constructs to remember. ALGOL is better but there's still a lot to remember. The ClearPath MCP IDE for Eclipse with the COBOL and ALGOL Editors provides an auto-completion capability that helps developers get to the right construct quickly. Simply type the beginning of a command, hit Ctrl-space, and the Editor lists out the available syntax choices. This concept is common to IDEs so it will be familiar to new hires and helps all programmers work faster and more accurately. >>



### Detecting Compile Errors

The ClearPath MCP IDE for Eclipse integrates development activities on the PC with compiles running within the MCP operating environment. As illustrated in the screen shot below, compile errors are shown in the Problem tab at the bottom of the screen and the Editor view is positioned to the line where the error occurred. On the left in the MCP Explorer, there's a red circle with an X that indicates all items in the package that have errors to be reviewed and corrected. As the developer clicks on various package items, the Editor and Problems views change accordingly.

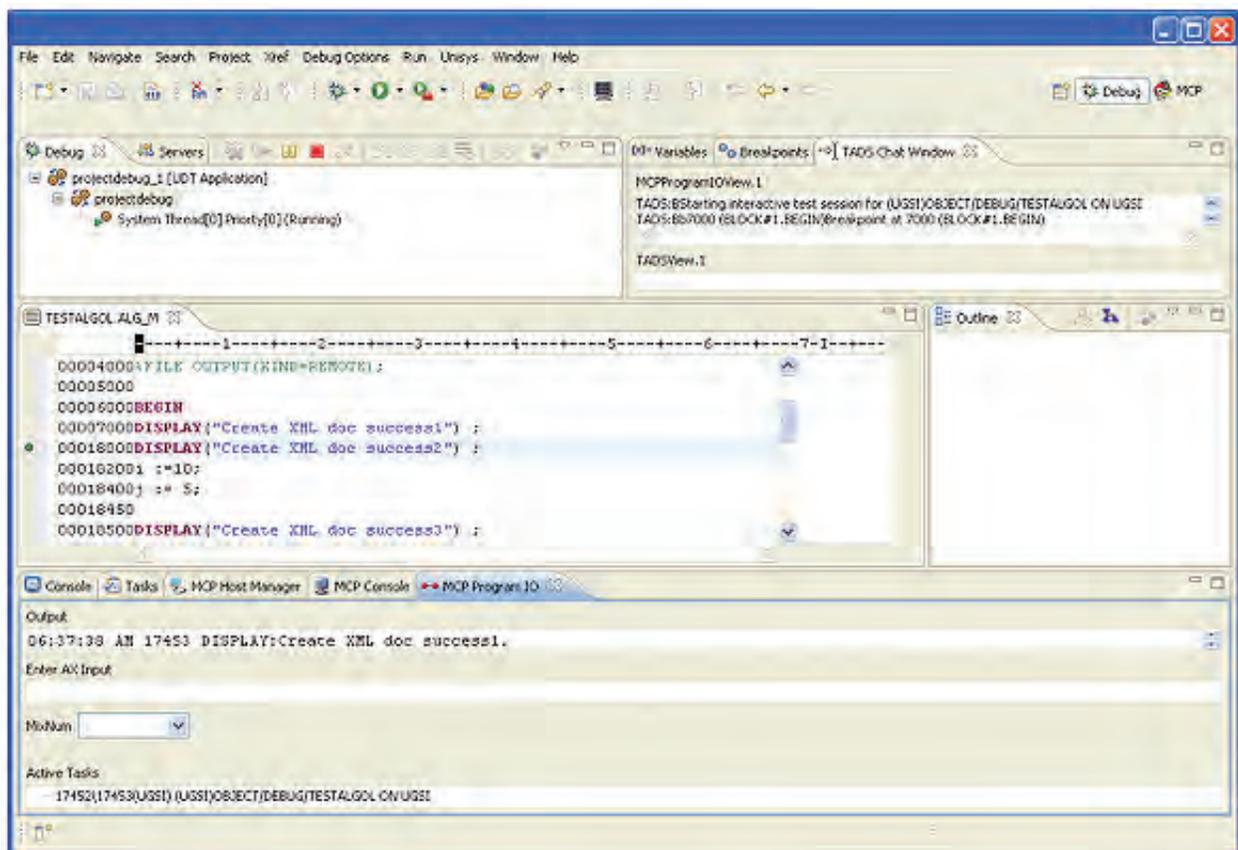


### Java Application Integrator

For development organizations that want to leverage existing MCP assets into composite applications and/or in a service-oriented architecture (SOA), the Java Application Integrator plug-in is a critical tool. Available in the next release of the MCP IDE for Eclipse, this module generates “wrapper classes” to use with the J2EE Connector for MCP Transactions (JRAC) Resource Adapter (RA) – the connector to COMS transactions and their DMS II databases. It allows you to quickly generate the standard code sequences needed for the RAs and allows you to easily build the method invocations. >>

### Integrated Debugging

MCP developers are familiar with TADS, the Test and Debug System. The next release of the ClearPath MCP IDE for Eclipse will offer a much improved user interface to TADS and all of the functionality you have been using. Through the Editor view, developers can watch steps as they are executed. There are also watch windows that show variables and values, Stack Frames, and code execution. And unlike a dumb terminal interface, with Eclipse developers can roll back to examine a response that scrolled off the screen. The ClearPath MCP IDE for Eclipse takes care of all the groundwork needed to enable debug communication between the IDE and ClearPath mainframe.



### Give Eclipse a Try

Getting started with the ClearPath MCP IDE for Eclipse is very simple – just ask by sending an email to [mark.shimrock@unisys.com](mailto:mark.shimrock@unisys.com). If your organization is already using Eclipse, then the MCP Plug-ins can be added to your existing environment. Otherwise, our Eclipse All-in-One package is the perfect start. It contains the Eclipse IDE framework, selected open source plug-ins, and Unisys modified and developed modules as noted earlier in this article. The All-in-One package has been integrated and tested by Unisys engineering and is supported<sup>4</sup> via Unisys Support at no additional charge.

<sup>4</sup> Support statement: Unisys will make reasonable efforts to work with the Open Source community to resolve problems. Unisys developed content falls under normal support policies.

## ClearPath Product News

### *Unisys Customer Education is Seeking Your Input*

There's no better way to maximize the value of your ClearPath investments than by ensuring your staff is trained to take full advantage of the latest features and capabilities. ***Please take our online survey and help us learn more about your current training requirements.***

#### OS 2200 PRODUCT NEWS

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##### **OS 2200** ClearPath Dorado 4000 High Availability Models

The ClearPath Dorado 4080 and Dorado 4090 Servers are now available in high availability (HA) configurations. In essence, these configurations consist of primary and secondary replicated cells, which may be considered as two partitions or nodes. The primary node executes the production workload, while the secondary node can either be dormant or running a non-critical, interruptible workload. If the primary node halts, the secondary workload, if any, will be halted and the production workload will switch over.

The Dorado 4000 servers have already demonstrated a high level of availability and the new HA options further enhances this attribute.

##### **OS 2200** ClearPath Dorado 700 and XPC-L

We are pleased to announce the successful completion of extensive validation of the Dorado 700 models with XPC-L in an XTC configuration. The XTC architecture enables up to four (4) large-scale Dorado systems (up to 128 processors) to be clustered, these hosts have shared and dedicated databases. This configuration enables additional growth, as well as the highest level of availability in an OS 2200 operating environment.

#### MCP PRODUCT NEWS

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##### **MCP** ClearPath Libra 4000 High Availability Solution

The ClearPath Libra 4000 High Availability (HA) solution is here! Focused on providing a local MCP partition failover capability, it offers redundant MCP cell hardware, which automates failover and minimizes recovery to the highest degree possible. Features include:

- Fully redundant active and standby MCP cells
- Automated monitoring and reporting of component failures
  - Automated local recovery from MCP cell failures (automatic or manual initiation options)
  - No single point of failure via redundant hardware components and connections
- Pre-packaged, rack-mounted solution
- Simplified configuration
- Support for metered and non-metered configurations

The Libra 4000 HA solution leverages the Business Continuance (BC) Accelerator functionality initially provided in MCP release 12.0. It uses the same MCP tools for configuration, monitoring, initiation, and scripting of the system failover process, including BC Manager and System Assistant. In addition, the solution can be configured with a remote Disaster Recovery platform.

The Libra 4000 HA solution provides an additional measure of protection and recovery from hardware failures. For more information, visit the [eCommunity](#). >>

## **MCP** Sun StorageTek Virtual Tape Library Plus Available for ClearPath Libra Servers

If storage virtualization is on your 2009 to-do list, then you'll be happy to learn that [SUN StorageTek Virtual Tape Library \(VTL\) Plus](#) models 1200, 1202, 2600, and 3600 are now available for ClearPath Libra platforms.

VTL helps organizations consolidate and simplify backups while protecting the current investment in back-up software and preserving existing tape and back-up procedures. VTL solutions reduce manual oversight and intervention – offering significant savings in operational costs. Contact your Unisys sales executive to find out which VTL Plus model makes the most sense for your organization.

## **MCP** ClearPath MCP ePortal and Workload Management Demos Available

Learn more about how ClearPath MCP ePortal and Workload Management work via our demos, which can be found in the eCommunity:

- **ePortal:** Eleven videos on a variety of topics ranging from “10-Minute Web Site” to “Basic Orchestration with MCP COBOL” are available for download.
- **Workload Management:** Seven self-extracting Flash movies cover everything from a tour of the major Workload Center screens to a demonstration of workload group performance control and balancing.

## **MCP** XML Parser for ClearPath MCP Makes Business Process Integration Easier

We are pleased to announce the new Unisys XML Parser for ClearPath MCP systems. This product facilitates standards-based business process integration by enabling MCP-based applications to use XML documents to exchange data with other applications.

The XML Parser is packaged with the COMS Custom Connect Facility (CCF) and includes sample COBOL85 and ALGOL applications that demonstrate XML parsing. It is included in all ClearPath MCP operating environment packages and is available for ClearPath MCP Releases 11.1 and 12.0. For more information, please refer to the [XML Parser for ClearPath MCP Installation, Administration, and Programming Guide](#), which is available on the Unisys support site.