

JD EDWARDS ENTERPRISEONE TOOLS 8.95



- Fusion Middleware support
 - Application server
 - Portal
 - Identify Management
 - BPEL process manager
- Improved user productivity
 - Hot keys
 - Auto field populate
 - Enhanced error handling
- Performance improvements:
 - Multi-threaded processing
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Oracle's JD Edwards EnterpriseOne Tools continue to be enhanced with a focus on improving our customer's Total Ownership Experience. The primary themes of the Tools Release 8.95 are: Adoption of Fusion middleware, Performance and User Productivity Enhancements, and Lifecycle Management Enhancements.

EnterpriseOne Tools 8.95 is compatible with each of the following EnterpriseOne application releases:

- 8.9
- 8.10
- 8.11 and 8.11 Service Pack 1 (SP 1)

Adoption of Oracle Fusion Middleware and Oracle Database 10g

As of EnterpriseOne Tools Release 8.95, customers have the option to adopt Oracle Application Server 10g and Oracle Database 10g as alternatives to other infrastructure components. These new Oracle platform options represent a choice and in no way represents an obsolescence of other platform alternatives. These new choices allow customers to acquire business applications, middleware, and a database management system from a single vendor, while still being able to choose the hardware and operating system that best suits their requirements.

Adoption of Oracle Application Server 10g

EnterpriseOne Tools 8.95 introduces support for components of Oracle Application Server 10g, which are detailed below. Oracle Application Server 10g will be supported on all the platforms on which EnterpriseOne currently runs, except running natively in IBM i5/OS, which is not currently supported by the Oracle Application Server product. The IBM WebSphere Application Server continues to be an option for EnterpriseOne implementations.

Oracle Containers for J2EE

EnterpriseOne adoption of Oracle Containers for J2EE (OC4J) will enable customers to use OC4J as a supported web application server with EnterpriseOne applications 8.9, 8.10, and 8.11. In particular, the following EnterpriseOne components can run within OC4J:

- EnterpriseOne JAS server
- System Administration Workbench (SAW), Web access
- Transaction server (real-time events server)

- PIM synchronization server
- Development client
- Mobile solution (server and client)

Oracle Portal

EnterpriseOne currently offers a rich set of portlet-based applications, such as Employee Self Service and Supplier Self Service. In EnterpriseOne Tools releases 8.94 and prior, these portlets ran only in the EnterpriseOne Collaborative Portal, which is based on the IBM WebSphere Portal. Beginning with EnterpriseOne Tools 8.95 and EnterpriseOne 8.11, the EnterpriseOne portlets written using EnterpriseOne tools will also run in the Oracle Portal. Any custom portlets developed with the EnterpriseOne toolset (Form Design Aid) will also run in the Oracle Portal. Although the older versions of portlets, such as those delivered with EnterpriseOne 8.10 and earlier, do not run in the Oracle portal, EnterpriseOne 8.10 menus and applications can be accessed through the Oracle Portal.

Oracle Identity Management

EnterpriseOne Tools 8.95 supports the user authentication and single sign-on features of Oracle Identity Management. Using Oracle Internet Directory as a common repository for user authentication credentials, this feature enables single sign-on between EnterpriseOne and other applications. For example, users can seamlessly invoke Oracle and EnterpriseOne applications without re-authentication.

Oracle BPEL Process Manager

EnterpriseOne Tools 8.95 certifies the interoperability between EnterpriseOne Web Services Gateway and Oracle BPEL Process Manager. This interoperability enables customers to expose EnterpriseOne services via the Web Services Gateway and to build them into business processes using Oracle BPEL Process Manager.

Adoption of Oracle Database 10g

Oracle Database 10g is ideal for enterprises that need to support high volume on-line transaction processing and query intensive data warehousing applications. It provides proven scalability on all hardware configurations, and can be used to manage very large amounts of information, with the highest level of security assurance in the industry. EnterpriseOne Tools 8.95 extends support for Oracle Database 10g on the following operating systems:

- AIX 5L (5.2, 5.3)
- HP-UX 11i on PA-RISC
- Solaris 8 and 9 on SPARC (Solaris 10 when available)
- Red Hat Enterprise Linux AS 2.1 on x86
- Windows Server 2003 on x86

Performance Enhancements

Multithreaded Kernels

EnterpriseOne Tools 8.95 now provides the option to enable the execution of

business functions on the Enterprise server to run in multiple threads within the same Call Object kernel process. This can eliminate performance bottlenecks within Call Object kernel processes when long-running business functions are executing. This enhancement can increase user productivity for EnterpriseOne interactive applications and result in a more consistent response time for end users.

Note: This feature requires EnterpriseOne 8.11 SP 1 or later.

Reporting output performance

The EnterpriseOne reporting system returns the output of reports in PDF format. Depending on the content of the report, the resulting PDF document can become quite large. Users access and view these reports through the EnterpriseOne Web client. In previous releases, when a user requested to view a report, the entire PDF document was transferred to the user's machine. Only after the entire document was transferred and launched in the Acrobat Reader could the user begin viewing the report. This behavior led to a perception of sluggish performance, especially in the case of large reports.

With EnterpriseOne Tools 8.95, PDF Linearization has been implemented for EnterpriseOne report output. When a user requests to view a report, the first page of the report is sent to the user. As the user pages through the report, additional pages are retrieved as needed. The user waits less time to see the pages and perceives this as faster performance.

In addition, the EnterpriseOne Tools 8.95 provides the option for PDF compression. This option will compress the PDF file prior to downloading to the end user. The result is a smaller sized document, which will download to the end user faster, especially in the case of slower network connections.

Performance Monitor

EnterpriseOne Performance Monitor provides system administrators with a powerful tool for identifying the source of reported system performance issues. Using a Web-based dashboard, system administrators can quickly see how each component of the system is performing, making it easy to identify bottlenecks, ensure efficient system utilization, and identify system failures.

Specifically, EnterpriseOne Performance Monitor performs the following functions:

- Collects EnterpriseOne performance metrics and resource usage in real time.
- Stores, analyzes, and graphically presents application performance data.
- Provides real-time and historical performance diagnostics and analytics.
- Operates in a production system with low overhead.

Note: This feature requires EnterpriseOne 8.10 or later.

User Productivity Enhancements

EnterpriseOne Tools 8.95 includes several enhancements that increase user productivity by improving the usability of EnterpriseOne applications.

Hot Keys

Hot keys can increase user productivity by allowing common operations to be executed from a keyboard shortcut, rather than a menu selection. Hot keys are an effective usability tool, especially for “heads down” mouse-less data entry such as rapid order entry. EnterpriseOne Tools 8.95 provides a set of system-wide hot keys as well as the option for application designers to use Form Design Aid to define hot keys for specific applications. The hot keys can be defined at the system level, where the definition of the hot key is consistent throughout all applications, or at the application level, where different applications within a system can define the same hot key combination for different tasks.

Auto-population of Fields Within a Grid

With this enhancement, as a user begins to type a value in a grid cell; the system automatically completes the entry based upon previously entered values that matches the user’s initial keystrokes. If the value is correct, the user can accept it and quickly move on to the next field. If the value is incorrect, the user can continue typing the correct value. This is another effective usability tool for “heads down” data entry.

Required Field Indicator

This enhancement allows the application developer to designate a field on a form or within the grid as a required input field. The end user is now aware of which fields are required and can complete them before submitting the form. This usability enhancement reduces the number of times a user submits a form without required fields completed, only to have the system return an error.

Single Sign-On with Crystal

EnterpriseOne Tools 8.94 introduced the ability for end users to create and run reports against EnterpriseOne data using Crystal Reports and Crystal Enterprise. EnterpriseOne Tools 8.95 enhances the integration with Crystal by eliminating the need for the end user to sign on to both EnterpriseOne and Crystal as two separate tasks. After the user has signed on to EnterpriseOne, Crystal then recognizes that authentication and allows the user appropriate access to data and reports without a need for an additional sign-on. The user experiences a more seamless and coordinated integration between EnterpriseOne and Crystal.

Lifecycle Management Enhancements

Lifecycle management encompasses the tasks related to installing, configuring, maintaining, managing, and upgrading EnterpriseOne implementations. Improvements in these areas can dramatically improve our customer’s total ownership experience. EnterpriseOne Tools 8.95 includes a number of features that significantly improve these lifecycle processes.

Improved Web Server Installation

The EnterpriseOne Web server, also referred to as the Java application server (JAS), is the core of the EnterpriseOne Pure Internet Architecture. The EnterpriseOne Web server facilitates transactions between a browser-based Web client and the back-end enterprise and database servers.

In a production environment, most customers require deployment of the EnterpriseOne Web server in a multinode configuration, which provides scalability, load balancing, and redundancy. However, installing, configuring, and upgrading a multinode configuration of Web servers can prove to be a multidimensional headache.

With EnterpriseOne Tools 8.95, the Web server installation process is specifically designed to facilitate installation, configuration, and upgrade in a WebSphere application server multinode environment. The installation process exploits features of WebSphere Application Server Network Deployment (ND) to allow the installer to perform tasks on a machine designated as the deployment manager and then replicate those base configuration tasks to the other nodes. Previous versions of EnterpriseOne Tools required several manual steps to achieve a multimode configuration; these manual steps were error prone and required extensive maintenance. The new installation process in EnterpriseOne Tools 8.95 automates many of these steps and reduces the effort and expense of installing, configuring, and upgrading the EnterpriseOne Web server in a multimode environment.

For those customers who need only a single-node installation, the new Web server installation process also provides a simple, but complete interface to manage not only the installation, but also future upgrades with ease.

Another powerful feature found within the new installer is the provision for pre-configuring the Web server based on the needs of the small or midsize business. Extensive testing has been done to determine the optimal settings for each of the supported operating systems. This eliminates the guesswork common to smaller installations. By answering a few simple questions, the installation process will quickly configure the Web server to support 50 to 200 users.

Installation Verification Tool

This tool automates over 40 of the manual steps that are currently performed to ensure that all components of the installation have completed successfully. Leveraging the power of Support Assistant, customers can launch scripts that execute a variety of verification tests and identify any problem areas in the installation.

Automated Special Instructions

Special instructions are manual instructions that are required for the installation of an Electronic Software Update (ESU) and can be error prone. This tool automates the process of applying certain types of special instructions that accompany ESUs. Our analysis has shown that approximately 45% of special instructions are composed of changes to the following: data dictionary descriptions, UDC descriptions, and glossary items. This tool automates the application of these changes, simplifying the installation of ESUs.

Note: This feature requires EnterpriseOne 8.11 or later.

Environment and Path Code Cloning

This tool automates the process of copying entire path codes and environments. Currently, the procedure for performing this requires experienced resources. There

are two primary scenarios for the use of this tool: at installation time and during the refresh of path codes and environments, such as for testing purposes. At installation, the process of propagating ESUs to all path codes is time-consuming. The rationale behind this new tool is to get one path code or environment “fix-current,” and then copy that path code or environment to subsequent environments. Our analysis has indicated that the use of this tool could improve installation times by 25-45%.

Note: This feature requires EnterpriseOne 8.11 SP 1 or later.

Dynamic Logging

One of the challenges of troubleshooting EnterpriseOne issues is the ability to capture pertinent information on sporadic, difficult-to-recreate errors without impacting users. This tool allows the system administrator to enable or disable additional logging dynamically, without bouncing services. Examples of the additional logging features are IPC trace, Net trace, and Cache Management trace. The effect of this feature is to permit customers and service engineers to collect valuable information as the problem is occurring—especially those issues that are difficult to reproduce.

Web Services Gateway

Web Services Gateway (WSG) is a framework to facilitate web services and basic integration capabilities for point-to-point integration between EnterpriseOne and other applications. WSG is not a general integration hub, but a tool to product and consume EnterpriseOne based services. WSG allows customers to perform point-to-point integrations from one EnterpriseOne application to another, or from an EnterpriseOne application to any other product. WSG also provides the runtime for EnterpriseOne and JD Edwards World Integration Points (formerly known as XBPs). Features provided by WSG are as follows:

- Support for Complex Data Structures

EnterpriseOne can expose service level interfaces, also known as Integration Points (for example, ProcessSalesOrder), instead of the more granular business functions.

- Graphical mapping Tool

This allows for easy composition of business logic that coordinates the granular business function calls into a single transaction. This includes a rich vocabulary of the most common transform services, as well as support for EnterpriseOne-specific data transforms and cross-referencing services.

- Service Enablement Tool

WSG allows for easy creation of web service interfaces described using WSDL and invoked using SOAP over HTTP. It can also consume an external web service.

- JD Edwards Adapter

WSG provides access to all established EnterpriseOne public interfaces like

business functions, database operations for queries and for updates to staging tables, Real Time Events, and XAPI events (asynchronous request response from EnterpriseOne).

- Transport Protocol Support

WSG supports multiple protocols and transports for external communication. The protocols are not limited to SOAP over HTTP, but also include XML over HTTP and HTTPS, FTP, e-mail, and JMS.

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