

# JD Edwards EnterpriseOne Tools

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## **Net Change for Tools Documentation Library**

9.2

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# Contents

## Preface

---

i

<b>1</b>	<b>Documentation Updates For EnterpriseOne Tools 9.2 Software Updates</b>	<b>1</b>
	Documentation Updates for EnterpriseOne Tools 9.2.0.2	1
	Documentation Updates for EnterpriseOne Tools 9.2.0.3	4
	Documentation Updates for EnterpriseOne Tools 9.2.0.5	6
	Documentation Updates for EnterpriseOne Tools 9.2.1	8
	Documentation Updates for EnterpriseOne Tools 9.2.1.1	12
	Documentation Updates for EnterpriseOne Tools 9.2.1.2	12
	Documentation Updates for EnterpriseOne Tools 9.2.1.4	15
	Documentation Updates for EnterpriseOne Tools 9.2.2	16
	Documentation Updates for EnterpriseOne Tools 9.2.2.1	19
	Documentation Updates for EnterpriseOne Tools 9.2.2.2	19
	Documentation Updates for EnterpriseOne Tools 9.2.2.4	20
	Documentation Updates for EnterpriseOne Tools 9.2.2.5	24
	Documentation Updates for EnterpriseOne Tools 9.2.3	24
	Documentation Updates for EnterpriseOne Tools 9.2.3.2	28
	Documentation Updates for EnterpriseOne Tools 9.2.3.3	29
	Documentation Updates for EnterpriseOne Tools 9.2.3.4	32
	Documentation Updates for EnterpriseOne Tools 9.2.4	33
	Documentation Updates for EnterpriseOne Tools 9.2.4.2	36
	Documentation Updates for EnterpriseOne Tools 9.2.4.3	36
	Documentation Updates for EnterpriseOne Tools 9.2.4.4	38
	Documentation Updates for EnterpriseOne Tools 9.2.5	40
	Documentation Updates for EnterpriseOne Tools 9.2.5.1	43
	Documentation Updates for EnterpriseOne Tools 9.2.5.2	43
	Documentation Updates for EnterpriseOne Tools 9.2.5.3	45
	Documentation Updates for EnterpriseOne Tools 9.2.5.4	45
	Documentation Updates for EnterpriseOne Tools 9.2.6	47
	Documentation Updates for EnterpriseOne Tools 9.2.6.2	52
	Documentation Updates for EnterpriseOne Tools 9.2.6.3	52

---

Documentation Updates for EnterpriseOne Tools 9.2.6.4	54
Documentation Updates for EnterpriseOne Tools 9.2.7	56
Documentation Updates for EnterpriseOne Tools 9.2.7.2	60
Documentation Updates for EnterpriseOne Tools 9.2.7.3	61
Documentation Updates for EnterpriseOne Tools 9.2.7.4	63
Documentation Updates for EnterpriseOne Tools 9.2.8	65
Documentation Updates for EnterpriseOne Tools 9.2.8.2	68
Documentation Updates for EnterpriseOne Tools 9.2.8.3	71
Documentation Updates for EnterpriseOne Tools 9.2.9	72
Documentation Updates for EnterpriseOne Tools 9.2.9.3	75
Documentation Updates for EnterpriseOne Tools 9.2.9.4	78
Documentation Updates for EnterpriseOne Tools 9.2.26.0	79
Additional Documentation Updates for Supplemental EnterpriseOne Updates	83

## **2 Documentation Corrections 87**

---

	87
Application Interface Services (AIS) Client Java API Developer's Guide	87
Application Interface Services (AIS) Server Reference Guide	87
Auditing Administration Guide	88
Business Services Server Reference Guide	88
Deploying and Developing Oracle Application Development Framework (ADF) Applications for JD Edwards EnterpriseOne Guide	89
Developing and Customizing Mobile Enterprise Applications Guide	90
Development Tools Overview Guide	91
Foundation Guide	92
JD Edwards EnterpriseOne Tools IBM WebSphere Portal for IBM i for Power Systems Guide	92
JD Edwards EnterpriseOne Tools IBM WebSphere Portal for IBM WebSphere Portal for Microsoft Windows Guide	93
JD Edwards EnterpriseOne Tools IBM WebSphere Portal for UNIX Guide	93
JD Edwards EnterpriseOne Tools IBM WebSphere Portal Reference Guide	93
Notifications Guide	94
One View Administration Guide	94
Orchestrator Guide	94
Product Packaging Guide	96
Runtime Administration Guide	96
Security Administration Guide	97
Software Updates Guide	99

Using and Approving User Defined Objects Guide	100
UX One Deployment and Development Guide	100
UX One Roles User Guide	101
Business Functions Guide	101
Packet Management Guide	101
Tools Release Upgrade Process Guide	102
REST API for JD Edwards EnterpriseOne AIS Server	102
Interoperability Guide	102
System Administration Guide	102



# Preface

Welcome to the JD Edwards EnterpriseOne documentation.

## Documentation Accessibility

For information about Oracle's commitment to accessibility, visit the Oracle Accessibility Program website at <http://www.oracle.com/pls/topic/lookup?ctx=acc&id=docacc>.

## Access to Oracle Support

Oracle customers that have purchased support have access to electronic support through My Oracle Support. For information, visit <http://www.oracle.com/pls/topic/lookup?ctx=acc&id=info> or visit <http://www.oracle.com/pls/topic/lookup?ctx=acc&id=trs> if you are hearing impaired.

## Related Information

For additional information about JD Edwards EnterpriseOne applications, features, content, and training, visit the JD Edwards EnterpriseOne pages on the JD Edwards Resource Library located at:

<http://learnjde.com>

## Conventions

The following text conventions are used in this document:

Convention	Meaning
<b>Bold</b>	Boldface type indicates graphical user interface elements associated with an action or terms defined in text or the glossary.
<i>Italics</i>	Italic type indicates book titles, emphasis, or placeholder variables for which you supply particular values.
<b>Monospace</b>	Monospace type indicates commands within a paragraph, URLs, code examples, text that appears on a screen, or text that you enter.
<b>&gt; Oracle by Example</b>	Indicates a link to an Oracle by Example (OBE). OBEs provide hands-on, step-by-step instructions, including screen captures that guide you through a process using your own environment. Access to OBEs requires a valid Oracle account.



# 1 Documentation Updates For EnterpriseOne Tools 9.2 Software Updates

## Documentation Updates For EnterpriseOne Tools 9.2 Software Updates

This chapter outlines revisions made to the JD Edwards EnterpriseOne Tools 9.2 documentation library due to EnterpriseOne Tools 9.2 software updates

### Documentation Updates for EnterpriseOne Tools 9.2.0.2

The following table contains links to documentation updates in support of EnterpriseOne Tools 9.2.0.2:

**Note:** For a list of updates to the EnterpriseOne Installation and Upgrade guides, see [JD Edwards EnterpriseOne Net Change for Installation and Upgrade Documentation Library](#) .

Feature	Description	Documentation
JD Edwards EnterpriseOne Orchestrator Studio	With the Orchestrator Studio, you can devise processes called orchestrations that enable the transformation of data from disparate devices into actionable business processes in JD Edwards EnterpriseOne. Orchestrations created in the Orchestrator Studio are saved to a directory on the EnterpriseOne Application Interface Services (AIS) Server. The EnterpriseOne IoT Orchestrator processes orchestrations on the AIS Server to enable the immediate, real-time data transfer to JD Edwards EnterpriseOne.	See the <a href="#">JD Edwards EnterpriseOne Tools Orchestrator Guide for Studio Version 8 and Prior</a> .
Custom modifications of packages	The Customization Workbench (P98UCUST) is an application that enables you to easily identify and manage the merge of EnterpriseOne customized objects that have been changed in the most recent delivery.	See the following topic in the <a href="#">JD Edwards EnterpriseOne Tools Software Updates Guide</a> : <ul style="list-style-type: none"> <li>• <a href="#">Identifying Custom Modifications Using the Customization Workbench</a></li> </ul>
Images	You can create images outside of EnterpriseOne using any image editor, and then use Image Manager to upload them to EnterpriseOne.	See the following topic in the <a href="#">JD Edwards EnterpriseOne Tools Foundation Guide</a> : <ul style="list-style-type: none"> <li>• <a href="#">Creating Images in EnterpriseOne</a></li> </ul>

Feature	Description	Documentation
	<p>An Image is a user defined object (UDO) type in EnterpriseOne. You manage and secure Image UDOS using the EnterpriseOne applications for administering UDOS.</p>	<p>See the following topic in the <i>JD Edwards EnterpriseOne Tools Security Administration Guide</i> :</p> <ul style="list-style-type: none"> <li>• <a href="#">Understanding Security for User Defined Objects</a></li> </ul> <p>See the following topic in the <i>JD Edwards EnterpriseOne Tools Object Management Workbench for the Web Guide</i> :</p> <ul style="list-style-type: none"> <li>• <a href="#">Working with Objects</a></li> </ul>
<p>Composed EnterpriseOne Pages</p>	<p>Composed EnterpriseOne Pages are pages with user defined layouts that you can create and design. Composed EnterpriseOne Pages enable you to access web pages, EnterpriseOne application forms, One View reports, Classic Pages, Designer Panes, OBIEE objects, and ADF applications from page layouts you create in EnterpriseOne.</p> <p>A Composed EnterpriseOne Page is a user defined object (UDO) type in EnterpriseOne. You manage and secure Composed EnterpriseOne Page UDOS using the EnterpriseOne tools for administering UDOS.</p>	<p>See the following topic in the <i>JD Edwards EnterpriseOne Tools Foundation Guide</i> :</p> <ul style="list-style-type: none"> <li>• <a href="#">Working with Composed EnterpriseOne Pages</a></li> </ul> <p>See the following topics in the <i>JD Edwards EnterpriseOne Tools Security Administration Guide</i> :</p> <ul style="list-style-type: none"> <li>• <a href="#">Understanding Security for User Defined Objects</a></li> <li>• <a href="#">Managing Content Security for Composed EnterpriseOne Pages</a></li> </ul> <p>See the following topic in the <i>JD Edwards EnterpriseOne Tools Object Management Workbench for the Web Guide</i> :</p> <ul style="list-style-type: none"> <li>• <a href="#">Working with Objects</a></li> </ul>
<p>Application Development Framework (ADF) applications in Composed EnterpriseOne Pages</p>	<p>In addition to running EnterpriseOne ADF applications from a menu, you can also launch them from a Composed EnterpriseOne Page or run them as embedded content within a Composed EnterpriseOne Page.</p>	<p>See the following topic in the <i>JD Edwards EnterpriseOne Tools EnterpriseOne Application Development Framework (ADF) Applications Developer's Guide</i>:</p> <ul style="list-style-type: none"> <li>• <a href="#">ADF Applications Running in Composed EnterpriseOne Pages</a></li> </ul>
<p>Oracle Access Manager (OAM) and HTML Server (JAS Server) configurations for ADF Container</p>	<p>ADF Container configurations include support of OAM configuration for ADF Container and HTML Server (JAS Server) configuration for ADF Container.</p>	<p>See the following topic in the <i>JD Edwards EnterpriseOne Tools EnterpriseOne Application Development Framework (ADF) Applications Developer's Guide</i>:</p> <ul style="list-style-type: none"> <li>• <a href="#">Configuring Oracle Access Management (OAM) for ADF Container</a></li> </ul> <p>See the following topic in the <i>JD Edwards EnterpriseOne Tools Security Administration Guide</i> :</p> <ul style="list-style-type: none"> <li>• <a href="#">Creating Additional Authentication Policies and Resource</a></li> <li>• <a href="#">Configuring Oracle HTTP Server for the EnterpriseOne HTML Server</a></li> </ul>

Feature	Description	Documentation
AIS client development and ADF application development - Data aggregation	Data aggregation provides the capability to request an aggregation of values in a data service request.	See the following topic in the <i>JD Edwards EnterpriseOne Application Interface Services Client Java API Developer's Guide</i> : <ul style="list-style-type: none"> <li>• <a href="#">Data Service Aggregation</a></li> </ul> See the following topics in the <i>JD Edwards EnterpriseOne Tools EnterpriseOne Application Development Framework (ADF) Applications Developer's Guide</i> : <ul style="list-style-type: none"> <li>• <a href="#">Understanding Data Service</a></li> <li>• <a href="#">Data Service Aggregation</a></li> <li>• <a href="#">Creating a Sample ADF Application for Data Service Aggregation Request</a></li> </ul>
AIS client development - Preference Service	When developing mobile enterprise applications and AIS client applications, you can use the Preference Service to save and retrieve user-level information that is stored by user, role, or *PUBLIC in the User Overrides Table (F98950) in EnterpriseOne.	See the following topic in the <i>JD Edwards EnterpriseOne Tools Developing and Customizing Mobile Enterprise Applications Guide</i> <ul style="list-style-type: none"> <li>• <a href="#">Understanding the Preferences Service</a></li> </ul> See the following topic in the <i>JD Edwards EnterpriseOne Application Interface Services Client Java API Developer's Guide</i> : <ul style="list-style-type: none"> <li>• <a href="#">Understanding the Preference Service</a></li> </ul>
AIS client development - Invoke existing queries in EnterpriseOne	The AIS Client Java API includes a QueryObjectName parameter that you can use to invoke an existing query in EnterpriseOne through a form service request or a data service request.	See the following topic in the <i>JD Edwards EnterpriseOne Application Interface Services Client Java API Developer's Guide</i> : <ul style="list-style-type: none"> <li>• <a href="#">Adding a Request to an Existing Query</a></li> </ul> See the <i>JD Edwards EnterpriseOne Application Interface Services (AIS) Client API Reference</i> located at:  <a href="http://docs.oracle.com/cd/E53430_01/EOTJP/index.html">http://docs.oracle.com/cd/E53430_01/EOTJP/index.html</a>
AIS Client Development - Additional supported output types	You can use the following output types to control the format of the JSON response from either a form service or data service: <ul style="list-style-type: none"> <li>• GRID_DATA_OUTPUT_TYPE</li> </ul> Returns only data in the grid in simplified name-value pairs.	See the following topic in the <i>JD Edwards EnterpriseOne Application Interface Services Client Java API Developer's Guide</i> : <ul style="list-style-type: none"> <li>• <a href="#">Additional Supported Output Types for Form Service and Data Service</a></li> </ul>

Feature	Description	Documentation
	<ul style="list-style-type: none"> <li>VERSION2_OUTPUT_TYPE</li> </ul> <p>Returns column-level information moved out of the grid row cell to a columnInfo section.</p>	
AIS Client Development - Additional AIS Server capabilities	Added the following capabilities to the capabilities list: actionControls, aggColumnClick, dataServiceAggregation, outputType, preferenceService, orchestrationDiscovery, and queryObjectName.	See the following topic in the <i>JD Edwards EnterpriseOne Application Interface Services Client Java API Developer's Guide</i> : <ul style="list-style-type: none"> <li><a href="#">Understanding AIS Server Capabilities</a></li> </ul>
AIS Server Discovery Service	The discovery service on the AIS Server enables any AIS client or consumer of orchestrations, including the Oracle Internet of Things (IoT) Cloud Service, to discover orchestrations available on the AIS Server. The service enables consumers of orchestrations to view the available orchestrations and the format and inputs of each orchestration.	See the following topic in the <i>JD Edwards EnterpriseOne Tools Orchestrator Guide for Studio Version 8 and Prior</i> : <ul style="list-style-type: none"> <li><a href="#">Understanding the AIS Server Discovery Service</a></li> </ul>

## Documentation Updates for EnterpriseOne Tools 9.2.0.3

The following table contains links to documentation updates in support of EnterpriseOne Tools 9.2.0.3:

Feature	Description	Documentation
Watchlist Pane in Page Composer	You can add a Watchlist Pane to a Composed EnterpriseOne Page. Watchlists enable you to easily identify and take action when data has exceeded acceptable thresholds. Personal Watchlists, as well as the shared Watchlists that are available to you, can be added to the Watchlist Pane of the Composed EnterpriseOne Page.	See the following topics in the <i>JD Edwards EnterpriseOne Tools Foundation Guide</i> : <ul style="list-style-type: none"> <li><a href="#">Understanding Content Types</a></li> <li><a href="#">Adding a Watchlist Pane to a Composed EnterpriseOne Page</a></li> <li><a href="#">Watchlist Pane at Runtime</a></li> </ul> See the following topics in the <i>JD Edwards EnterpriseOne Tools Security Administration Guide</i> : <ul style="list-style-type: none"> <li><a href="#">Understanding Content Security</a></li> <li><a href="#">Managing Content Security for Composed EnterpriseOne Pages</a></li> </ul>
Additional Designer Page features for configuring sections in a Composed EnterpriseOne Page	When adding and configuring sections in the Designer Page, you can add initial grid columns and rows to a section. You can also use the "Collapsible" option so that the section in the Composed	See the following topics in the <i>JD Edwards EnterpriseOne Tools Foundation Guide</i> :

Feature	Description	Documentation
	EnterpriseOne Page can be collapsed or expanded.	<ul style="list-style-type: none"> <li>• <a href="#">Entering Designer Pane Information</a></li> <li>• <a href="#">Adding and Configuring Sections in the Designer Pane</a></li> <li>• <a href="#">Adding and Configuring a Component in Designer Pane</a></li> </ul>
Form Mode in Orchestrator Studio	A service request is a component of an orchestration that enables the orchestration to perform a particular action in EnterpriseOne. You configure it by identifying the form controls that are used to perform the action. Form Mode ensures that when configuring a service request in the Orchestrator Studio, you can see all of the form controls that are available in the EnterpriseOne form at runtime.	See the following topic in the <i>JD Edwards EnterpriseOne Tools Orchestrator Guide for Studio Version 8 and Prior</i> <ul style="list-style-type: none"> <li>• <a href="#">Configuring the Actions in a Service Request</a></li> </ul>
Currency support in data aggregation	For AIS client applications and EnterpriseOne mobile enterprise applications development, a new class provides the capability to account for currency when performing data aggregation in data service calls. This class enables you to specify the proper currency trigger for the data, which is originally defined in the table event rules in EnterpriseOne. Currency data aggregation applies the correct number of decimal places to aggregated data based on the currency of the data.	See the following topic in the <i>JD Edwards EnterpriseOne Application Interface Services Client Java API Developer's Guide</i> : <ul style="list-style-type: none"> <li>• <a href="#">Data Service Data Aggregation - Currency Decimals Support</a></li> </ul> See the following topic in the <i>JD Edwards EnterpriseOne Tools Developing and Customizing Mobile Enterprise Applications Guide</i> : <ul style="list-style-type: none"> <li>• <a href="#">Data Service Data Aggregation - Currency Decimals Support</a></li> </ul>
Watchlist service	Describes the service for invoking watchlists.	See the following topic in the <i>JD Edwards EnterpriseOne Application Interface Services Client Java API Developer's Guide</i> : <ul style="list-style-type: none"> <li>• <a href="#">Watchlist Service</a></li> </ul>
"Select First Row" and "Row Number for Update" options	The Service Request design panel includes additional options "Select First Row" and "Row Number for Update" that enable the service request to perform additional actions in a grid on an EnterpriseOne form.	See the following topic in the <i>JD Edwards EnterpriseOne Tools Orchestrator Guide for Studio Version 8 and Prior</i> : <ul style="list-style-type: none"> <li>• <a href="#">Understanding the Service Request Design Panel</a></li> </ul>
Orchestration descriptions available from the AIS Server Discovery Service	The discovery service enables any AIS client or consumer of orchestration <a href="#">Understanding the Service Request Design Panels</a> , including the Oracle Internet of Things (IoT) Cloud Service, to discover orchestrations available on the AIS Server. The discovery service has been enhanced to include descriptions of the available orchestrations.	See the following topic in the <i>JD Edwards EnterpriseOne Tools Orchestrator Guide for Studio Version 8 and Prior</i> : <ul style="list-style-type: none"> <li>• <a href="#">Understanding the AIS Server Discovery Service</a></li> </ul>

Feature	Description	Documentation
IBM WebSphere Portal 8.5 support	In the IBM WebSphere Portal guides, replaced IBM WebSphere Portal 7.0 with IBM WebSphere Portal 8.5 content.	See the following guides: <ul style="list-style-type: none"> <li>• <i>JD Edwards EnterpriseOne Tools IBM WebSphere Portal for IBM i for Power Systems Guide</i></li> <li>• <i>JD Edwards EnterpriseOne Tools IBM WebSphere Portal Reference Guide</i></li> <li>• <i>JD Edwards EnterpriseOne Tools IBM WebSphere Portal for Unix Guide</i></li> <li>• <i>JD Edwards EnterpriseOne Tools IBM WebSphere Portal for Microsoft Windows Guide</i></li> </ul>

## Documentation Updates for EnterpriseOne Tools 9.2.0.5

The following table contains links to documentation updates in support of EnterpriseOne Tools 9.2.0.5:

Feature	Description	Documentation
List View grid format	List View is a new type of grid format supported in EnterpriseOne.  In addition to the Foundation Guide updates for List view, updates were made to the Form Design Aid Guide to describe the Grid Control system functions supported by the List View grid format.	See the following topics in the <i>JD Edwards EnterpriseOne Tools Foundation Guide</i> : <ul style="list-style-type: none"> <li>• <i>Working with Table View Grid Formats</i></li> <li>• <i>Working With List View Grid Formats</i></li> </ul> See the following topic in the <i>JD Edwards EnterpriseOne Tools Form Design Aid Guide</i> : <ul style="list-style-type: none"> <li>• <i>Grid Control System Functions</i></li> </ul>
Enterprise Manager 13.2 Cloud Control with JD Edwards EnterpriseOne	A new chapter was added to describe the new features in Enterprise Manager 13.2 Cloud Control.	See the following topic in the <i>JD Edwards EnterpriseOne Application Pack for Oracle Enterprise Manager Cloud Control 13c Implementation Guide</i> : <ul style="list-style-type: none"> <li>• <i>Using Enterprise Manager 13.2 Cloud Control with JD Edwards EnterpriseOne</i></li> </ul>
New IoT Orchestrator Studio features	A new home page in the Orchestrator Studio user interface provides easy access to orchestration component design pages and documentation.  Additional new Orchestrator Studio features include a Transformations tool that enables you to easily map inputs between orchestration components,	See the following topics in the <i>JD Edwards EnterpriseOne Tools Orchestrator Guide for Studio Version 8 and Prior</i> : <ul style="list-style-type: none"> <li>• <i>Navigating the Orchestrator Studio</i></li> <li>• <i>Configuring Transformations</i></li> </ul>

Feature	Description	Documentation
	a Where Used feature to view a list of all orchestrations where a component is used, and tools for importing and exporting orchestration component files.	<ul style="list-style-type: none"> <li><a href="#">Importing Orchestration Files in the Orchestrator Studio</a></li> <li><a href="#">Exporting Files from the Orchestrator Studio</a></li> </ul>
sessionTimeToLive setting for controlling session timeouts in EnterpriseOne ADF applications	Added a description of the sessionTimeToLive property to the build.properties table.	See the following topic in the <i>JD Edwards EnterpriseOne Tools Deploying and Developing Oracle Application Development Framework (ADF) Applications for EnterpriseOne</i> : <ul style="list-style-type: none"> <li><a href="#">Define the Properties in the EnterpriseOne ADF Container build.properties File</a></li> </ul>
OrderBy parameter for data service requests	When developing AIS client applications, you can use this parameter to include an OrderBy clause to display results from a data service request in ascending or descending order.	See the following topic in <i>JD Edwards EnterpriseOne Application Interface Services Client Java API Developer's Guide</i> : <ul style="list-style-type: none"> <li><a href="#">Data Service</a></li> </ul>
Mobile Cloud Service Login Only Pass-through option	Oracle Mobile Cloud Service (MCS) users can choose which pass-through activity is monitored. Now you have the option to allow all traffic to be monitored or just mobile application logins. The login only pass-through option allows the login to pass through Oracle MCS.	See the following topic in the <i>JD Edwards EnterpriseOne Tools Developing and Customizing Mobile Enterprise Applications Guide</i> : <ul style="list-style-type: none"> <li><a href="#">Generating a New Mobile Application from a Mobile Application Archive</a></li> </ul>
Allow PS Token Login setting	Added a section describing how to configure the Allow PS Token Login setting for ADF Applications.	See the following topic in the <i>JD Edwards EnterpriseOne Application Interface Services Server Reference Guide</i> (formerly the <i>AIS Server for Mobile Enterprise Applications Configuration Guide</i> ): <ul style="list-style-type: none"> <li><a href="#">Configuring the Allow PS Token Login Setting for ADF Applications</a></li> </ul>
Native OAuth support for Mobile Cloud Service	Describes the configuration to provide single sign on access using JD Edwards EnterpriseOne and any JWT producing authority, including Oracle Mobile Cloud Service.	See the following topic in the <i>JD Edwards EnterpriseOne Tools Security Administration Guide</i> : <ul style="list-style-type: none"> <li><a href="#">Configuring EnterpriseOne HTML Server for JSON Web Token</a></li> </ul>
AIS Server compatibility with Oracle WebLogic Server 12.2.1	If you are using Oracle WebLogic Server 12.2.1 to host the AIS Server, then you must upgrade the AIS Server and Server Manager to EnterpriseOne Tools 9.2.0.5. You cannot run AIS Server releases 9.2.0.4 and lower on Oracle WebLogic Server 12.2.1.	See the following topic in the <i>JD Edwards EnterpriseOne Tools Server Manager Guide</i> : <ul style="list-style-type: none"> <li><a href="#">Create an Application Interface Services (AIS) Server as a New Managed Instance</a></li> </ul>
EnterpriseOne features not supported with Oracle WebCenter Portal	With Tools release 9.2.0.5, a List View Grid Format has been added to EnterpriseOne. However, this functionality is not available on the portal.	See the following topic in the <i>JD Edwards EnterpriseOne Tools Portal Reference for Oracle Web Center Guide</i> :

Feature	Description	Documentation
		<ul style="list-style-type: none"> <li><a href="#">JD Edwards EnterpriseOne Features Not Supported with Oracle WebCenter Portal</a></li> </ul>
EnterpriseOne features not supported with IBM WebSphere Portal	With Tools release 9.2.0.5, a List View Grid Format has been added to EnterpriseOne. However, this functionality is not available on the portal.	<p>See the following topic in the <a href="#">JD Edwards EnterpriseOne Tools IBM WebSphere Portal Reference Guide</a> :</p> <ul style="list-style-type: none"> <li><a href="#">JD Edwards EnterpriseOne Features Not Supported with IBM WebSphere Portal</a></li> </ul>

## Documentation Updates for EnterpriseOne Tools 9.2.1

The following table contains links to documentation updates in support of EnterpriseOne Tools 9.2.1:

Feature	Description	Documentation
New user defined object - Personal Forms	Personal Forms enable a user to customize how their form is displayed. Users can implement specific user interface changes without any Form Design Aid (FDA)-based modification.	<p>See the following topic in the <a href="#">JD Edwards EnterpriseOne Tools Foundation Guide</a> :</p> <ul style="list-style-type: none"> <li><a href="#">Working with Personal Forms</a></li> </ul>
Media object attachment improvements	Using a familiar user interface side panel format, users can search and access attachments from the grid and attach files to records by dragging and dropping.	<p>See the following topic in the <a href="#">JD Edwards EnterpriseOne Tools Foundation Guide</a> :</p> <ul style="list-style-type: none"> <li><a href="#">Using Media Object Attachments</a></li> </ul>
UX One pages	UX One pages alert you to conditions you need to be aware of, enable you to analyze data to determine appropriate actions, and then provide a direct path to the application and form that you need to use to take those actions.	<p>See the following topic in the <a href="#">JD Edwards EnterpriseOne Tools Foundation Guide</a> :</p> <ul style="list-style-type: none"> <li><a href="#">Understanding UX One Page Navigation</a></li> </ul>
Deploy and configure UX One content	Deploy and configure UX One content, work with development samples, work in a local development environment to test UX One content, and learn about customizing content using Oracle JET.	<p>See the <a href="#">JD Edwards EnterpriseOne Tools UX One Deployment and Development Guide</a> .</p>
External forms	<p>The external form type can be used to connect to external applications, such as ADF applications, JET pages, and Composed EnterpriseOne Pages.</p> <p>For ADF applications, the external forms can be used instead of using an EnterpriseOne proxy application.</p>	<p>See the following topic in the <a href="#">JD Edwards EnterpriseOne Tools Form Design Aid Guide</a> :</p> <ul style="list-style-type: none"> <li><a href="#">Understanding External Forms</a></li> </ul> <p>See the following topic in the <a href="#">JD Edwards EnterpriseOne Tools Deploying and Developing Oracle Application</a></p>

Feature	Description	Documentation
		<p><i>Development Framework (ADF) Applications for EnterpriseOne Guide:</i></p> <ul style="list-style-type: none"> <li>• <a href="#">Using External Forms to Administer EnterpriseOne ADF Applications</a></li> <li>• <a href="#">Consuming Form Interconnect Values</a></li> </ul>
External forms as embedded EnterpriseOne form content	External forms can be used for embedded EnterpriseOne form content in a Composed Application Framework (CafeOne) layout.	<p>See updates throughout the <i>JD Edwards EnterpriseOne Tools Composite Application Framework (CafeOne) User's Guide</i> , in particular:</p> <ul style="list-style-type: none"> <li>• <a href="#">Creating EnterpriseOne Form Content</a></li> </ul>
Springboard Pane in a Composed EnterpriseOne Page	A Springboard Pane consists of a collection of tasks available to a role. The tasks launched from the Springboard Pane can be EnterpriseOne applications, batch programs, ADF applications, and One View Reports.	<p>See the following topic in the <i>JD Edwards EnterpriseOne Tools Foundation Guide</i> :</p> <ul style="list-style-type: none"> <li>• <a href="#">Springboard Pane at Runtime</a></li> </ul>
Menu indexing	Menu indexing identifies the tasks that can be displayed and accessed by a role from the Springboard Pane of the Composed EnterpriseOne Page.	<p>See the following topic in the <i>JD Edwards EnterpriseOne Tools Foundation Guide</i> :</p> <ul style="list-style-type: none"> <li>• <a href="#">Working with Task Index Builds</a></li> </ul>
Pop-up form interconnect	The pop-up interconnection is similar to a modal interconnection in that it enables the user to only work in one form at a time. However, the child form appears in a pop-up window so that the parent form is still visible behind it, providing the user some context.	<p>See the following topic in the <i>JD Edwards EnterpriseOne Tools Form Design Aid Guide</i> :</p> <ul style="list-style-type: none"> <li>• <a href="#">Understanding Form Interconnections</a></li> </ul>
Power Browse form as hover form	The Hover Form property enables a Power Browse form to function as a Hover form. This is an improvement over the previous method of creating Hover forms from Message forms and includes four new system functions, which are described in the "System Functions in Form Design Aid" appendix.	<p>See the following topic in the <i>JD Edwards EnterpriseOne Tools Form Design Aid Guide</i> :</p> <ul style="list-style-type: none"> <li>• <a href="#">Power Browse Form Design-Time Considerations</a></li> <li>• <a href="#">System Functions in Form Design Aid</a></li> </ul>
Universal Cache Browser	The Universal Cache Browser utility enables you to view the cache details of any transaction even before they are committed to tables.	<p>See the following topic in the <i>JD Edwards EnterpriseOne Tools Runtime Administration Guide</i> :</p> <ul style="list-style-type: none"> <li>• <a href="#">Using the Universal Cache Browser</a></li> </ul>
Change in package build process to support objects stored in the database	The process for building packages has changed to support how objects are stored in the database.	<p>Changes were made throughout the <i>JD Edwards EnterpriseOne Tools Package Management Guide</i> . See the following section for an overview of the build process:</p>

Feature	Description	Documentation
		<ul style="list-style-type: none"> <li>• <a href="#">Understanding the Package Build Process</a></li> </ul> <p>Because changes were made throughout the guide, two Package Management guides are available: the preceding guide which contains 9.2.1 and forward updates, and a <i>version of the guide</i> that contains updates through EnterpriseOne Tools 9.2.0.7.</p>
SSL/TLS security support	SSL/TLS (Transport Layer Security) is supported for business services packages and the AIS Server.	<p>See the following topic in the <i>JD Edwards EnterpriseOne Tools Package Management Guide</i> :</p> <ul style="list-style-type: none"> <li>• <a href="#">Understanding the LocationURL Element in the Asset Definition XML File</a></li> </ul> <p>See the following topic in the <i>JD Edwards EnterpriseOne Application Interface Services Server Reference Guide</i> :</p> <ul style="list-style-type: none"> <li>• <a href="#">Configuring SSL for the AIS Server</a></li> </ul> <p>See the following topics in the <i>JD Edwards EnterpriseOne Tools Security Administration Guide</i> :</p> <ul style="list-style-type: none"> <li>• <a href="#">Added TLS info to Using LDAP Over SSL/TLS</a></li> <li>• <a href="#">Added section 18.4.1 Additional Setup for TLS Support</a></li> <li>• <a href="#">Added section 19.5 Additional TLS Setup</a></li> </ul>
Upload media objects to the database	Use the R98MODAT UBE for the initial upload of all media objects (personal and shared) to the F98MODAT table located in the system data source.	<p>See the following topic in the <i>JD Edwards EnterpriseOne Tools Runtime Administration Guide</i> :</p> <ul style="list-style-type: none"> <li>• <a href="#">Uploading Media Object Files to Database</a></li> </ul>
Work with Repository History	Object Management Workbench (OMW) creates records that are stored in a history table. Use the Work with Repository History (P98780H) application to view object history records and export file-based objects as a .Par file for comparing different versions of the objects.	<p>See the following topic in the <i>JD Edwards EnterpriseOne Tools Object Management Workbench Guide</i> :</p> <ul style="list-style-type: none"> <li>• <a href="#">Reviewing Object History</a></li> </ul>
Database proxy password encryption	Create a certificate store in PEM format and encrypt database proxy user passwords.	<p>See the following topic in the <i>JD Edwards EnterpriseOne Tools Security Administration Guide</i> :</p> <ul style="list-style-type: none"> <li>• <a href="#">Encrypting Database Proxy User Passwords</a></li> </ul>

Feature	Description	Documentation
		<ul style="list-style-type: none"> <li>• <a href="#">JDENET SSL-Enable Server Authentication</a></li> </ul>
Work Center CafeOne application	This CafeOne application connects to the Work Center using CafeOne layouts. The Work Center CafeOne application is a role-based solution that is supported across a broad portfolio of JD Edwards EnterpriseOne products.	See the following topic in the <i>JD Edwards EnterpriseOne Tools Foundation Guide</i> : <ul style="list-style-type: none"> <li>• <a href="#">Working With Work Center CafeOne Application</a></li> </ul>
Life cycle management of Internet of Things (IoT) orchestration components	With the latest release of the Orchestrator Studio 3.0 and EnterpriseOne Tools 9.2.1, the Orchestrator Studio includes standard EnterpriseOne user defined object (UDO) features to support the life cycle management of IoT orchestration components as UDOs in EnterpriseOne.	See the following topics in the <i>JD Edwards EnterpriseOne Tools Orchestrator Guide for Studio Version 8 and Prior</i> : <ul style="list-style-type: none"> <li>• <a href="#">Getting Started</a></li> <li>• <a href="#">Orchestrations as User Defined Objects</a></li> <li>• <a href="#">User Defined Object (UDO) Features</a></li> <li>• <a href="#">Understanding Orchestration Life Cycle Management</a></li> </ul>
Additional Application Interface Services (AIS) Server capabilities and services	The AIS Server provides additional services for working with queries, data aggregations, user preferences, and optimizing service request processing (Turbo Mode).	See the following topic in the <i>JD Edwards EnterpriseOne Application Interface Services Server Reference Guide</i> : <ul style="list-style-type: none"> <li>• <a href="#">AIS Server Capabilities and Services</a></li> </ul> See the following topics in the <i>JD Edwards EnterpriseOne Application Interface Services Client Java API Developer's Guide</i> : <ul style="list-style-type: none"> <li>• <a href="#">Additional Query Capabilities</a></li> <li>• <a href="#">Aggregation Arrays</a></li> <li>• <a href="#">Data Service Data Aggregation - Currency Decimals Support</a></li> <li>• <a href="#">Understanding the Preference Service</a></li> <li>• <a href="#">Using Turbo Mode</a></li> </ul>
Maximum amount of returned records for AIS clients	When developing AIS client applications, you can specify a maximum amount of records to return or configure the application to retrieve all records from a grid in an EnterpriseOne form.	See the following topic in the <i>JD Edwards EnterpriseOne Tools Developing and Customizing Mobile Enterprise Applications Guide</i> : <ul style="list-style-type: none"> <li>• <a href="#">Form Request Attributes</a></li> </ul> See the following topic in the <i>JD Edwards EnterpriseOne Tools Deploying and Developing Oracle Application Development Framework (ADF) Applications for EnterpriseOne Guide</i> : <ul style="list-style-type: none"> <li>• <a href="#">Form Request Attributes</a></li> </ul>

## Documentation Updates for EnterpriseOne Tools 9.2.1.1

The following table contains links to documentation updates in support of EnterpriseOne Tools 9.2.1.1:

Feature	Description	Documentation
Extending ADF applications	Developers can extend EnterpriseOne ADF applications using the shipped ADF source code.	See the following topic in the <i>JD Edwards EnterpriseOne Tools Deploying and Developing Oracle Application Development Framework (ADF) Applications for EnterpriseOne</i> : <ul style="list-style-type: none"> <li>• <a href="#">Extending ADF Applications</a></li> </ul>
Server Manager setting for specifying number of concurrent calls to the AIS Server	If experiencing performance issues with data refresh of UX One pages, you can use the "AIS Maximum Concurrent Calls" setting in the HTML Server settings in Server Manager to adjust the number of concurrent calls to the AIS Server.	See the following topic in the <i>JD Edwards EnterpriseOne Tools UX One Deployment and Development Guide</i> : <ul style="list-style-type: none"> <li>• <a href="#">Concurrent Calls to AIS Server</a></li> </ul>
Service request response caching	The AIS Server can be enabled to cache responses of service requests that perform Read operations.	See the following topic in the <i>JD Edwards EnterpriseOne Application Interface Services Server Reference Guide</i> : <ul style="list-style-type: none"> <li>• <a href="#">Caching Service Request Responses</a></li> </ul>
Oracle Mobile Application Framework 2.3.3 support	You can use the latest features in Oracle MAF 2.3.3, an extension to JDeveloper, to develop EnterpriseOne mobile enterprise applications and extend EnterpriseOne mobile enterprise application archives.	See the following topic in the <i>JD Edwards EnterpriseOne Tools Developing and Customizing Mobile Enterprise Applications Guide</i> : <ul style="list-style-type: none"> <li>• <a href="#">Prerequisites</a></li> </ul>

## Documentation Updates for EnterpriseOne Tools 9.2.1.2

The following table contains links to documentation updates in support of EnterpriseOne Tools 9.2.1.2:

Feature	Description	Documentation
New applications and reports for object usage tracking	Object usage tracking applications and reports enable you to view charts displaying object usage count, peak usage, and object usage by product code or path code.	See the following topic in the <i>JD Edwards EnterpriseOne Tools Software Updates Guide</i> : <ul style="list-style-type: none"> <li>• <a href="#">Using Object Usage Tracking</a></li> <li>• <a href="#">Working with Object Usage for Software Update Impact Analysis</a></li> </ul>

Feature	Description	Documentation
Extending Form Personalization	Form Personalization is now extended to Power Forms. In addition, in Personal Forms, you can now sequence tabs, rename the title for tab pages, align controls in a form by using the "snap to grid" feature, and move controls in a form using the copy and paste feature.	See the following topic in the <i>JD Edwards EnterpriseOne Tools Using and Approving User Defined Objects Guide</i> : <ul style="list-style-type: none"> <li>• <a href="#">Creating a Personal Form</a></li> </ul>
JD Edwards Social Collaboration	JD Edwards EnterpriseOne provides enterprise-level content and social collaboration through integration with Oracle Content and Experience Cloud. This integration enables real-time enterprise conversations and real-time access to content, connecting people and information in the cloud.	See the following topic in the <i>JD Edwards EnterpriseOne Tools Foundation Guide</i> : <ul style="list-style-type: none"> <li>• <a href="#">Using Oracle Content and Experience Cloud for JD Edwards EnterpriseOne (Release 9.2.1.2 - Release 9.2.8)</a></li> </ul>
List and Grid View in Advanced Media Objects	Use List and Grid View options in Advanced Media Objects to easily view media object attachments.	See the following topic in the <i>JD Edwards EnterpriseOne Tools Foundation Guide</i> : <ul style="list-style-type: none"> <li>• <a href="#">Advanced Media Object Attachments</a></li> </ul>
Advanced Media Objects support in JD Edwards EnterpriseOne on iPad	Advanced Media Objects support has been extended to JD Edwards EnterpriseOne on the iPad.	See <i>JD Edwards EnterpriseOne for iPad Quick Start Guide</i> .
JD Edwards EnterpriseOne Search	JD Edwards EnterpriseOne Search is a keyword-driven enterprise-wide search across transactional data within EnterpriseOne. You can define search groups to quickly search across one or more tables or business views to find data that contains your search criteria without navigating to multiple applications.	See the following topic in the <i>JD Edwards EnterpriseOne Tools Using and Approving User Defined Objects Guide</i> : <ul style="list-style-type: none"> <li>• <a href="#">Working with EnterpriseOne Search</a></li> </ul> See the following topic in the <i>JD Edwards EnterpriseOne Tools System Administration Guide</i> : <ul style="list-style-type: none"> <li>• <a href="#">Defining an Alternate Data Source for EnterpriseOne Search</a></li> </ul>
New service request types in Orchestrator Studio 5.0.1	In Orchestrator Studio 5.0.1, you can create and add the following service request types to an orchestration: <ul style="list-style-type: none"> <li>• <b>Data request.</b> Enables an orchestration to query data in EnterpriseOne forms, tables, or business views and optionally return aggregate amounts where supported.</li> <li>• <b>Message.</b> Enables an orchestration to send messages to EnterpriseOne Work Center users or external email users.</li> <li>• <b>Connector.</b> Enables an orchestration to perform additional tasks by invoking other orchestrations on the local system or orchestrations</li> </ul>	See the following topic in the <i>JD Edwards EnterpriseOne Tools Orchestrator Guide for Studio Version 8 and Prior</i> : <ul style="list-style-type: none"> <li>• <a href="#">Creating Service Requests</a></li> </ul>

Feature	Description	Documentation
	available on other AIS Servers, such as an AIS Server on another EnterpriseOne system in a multisite operation.	
Version 2 orchestrations	Starting with Orchestrator Studio 5.0.1 and EnterpriseOne Tools 9.2.1.2, all orchestrations created in the Orchestrator Studio are saved as Version 2 orchestrations.  For existing orchestrations created prior to this release, you have the option to save them as Version 2 orchestrations.	See the following topic in the <i>JD Edwards EnterpriseOne Tools Orchestrator Guide for Studio Version 8 and Prior</i> : <ul style="list-style-type: none"> <li>• <a href="#">Creating Orchestrations</a></li> <li>• <a href="#">Updating Version 1 Orchestrations to Version 2 Orchestrations</a></li> </ul>
Version 2 AIS services for AIS clients	Version 2 AIS services include all services available prior to version 2 AIS services and additional services that support: <ul style="list-style-type: none"> <li>• Retrieving the next set of records in a grid in the same request in an application stack or data request service.</li> <li>• Simple queries over EnterpriseOne tables and business views in a data request service.</li> <li>• Simple queries in EnterpriseOne forms or a form in a particular application version.</li> <li>• Sending messages to external email systems or the EnterpriseOne Work Center.</li> </ul>	See the following topic in the <i>JD Edwards EnterpriseOne Application Interface Services Server Reference Guide</i> : <ul style="list-style-type: none"> <li>• <a href="#">Version 1 and Version 2 AIS Services</a></li> </ul> See the <i>JD Edwards EnterpriseOne Tools REST API for the Application Interface Services Server Guide</i> .  See the following topics in the <i>JD Edwards EnterpriseOne Application Interface Services Client Java API Developer's Guide</i> : <ul style="list-style-type: none"> <li>• <a href="#">Accessing AIS Server Endpoints with the AIS Client Java API</a></li> <li>• <a href="#">Next Page Processing for Application Stack and Data Request</a></li> </ul> See the <i>JD Edwards EnterpriseOne Application Interface Services (AIS) Client API Reference 2.0.0</i> located at:  <a href="http://docs.oracle.com/cd/E53430_01/EOTJP/index.html">http://docs.oracle.com/cd/E53430_01/EOTJP/index.html</a>
AIS Client Class Generator v2.2.0	With AIS Client Class Generator v2.2.0, you can generate classes for JSON responses in GRID DATA output format, which returns grid data in simplified name-value pairs.	See the following topics in the <i>JD Edwards EnterpriseOne Application Interface Services Server Reference Guide</i> : <ul style="list-style-type: none"> <li>• <a href="#">Generating Data Classes Based on a Form</a></li> <li>• <a href="#">Generating Data Classes Based on a Data Request</a></li> </ul>
Support of Watchlist data in EnterpriseOne mobile enterprise applications	The latest version of the JD Edwards EnterpriseOne Mobile Framework Java API 2.3.3 contains classes that enable mobile applications to request EnterpriseOne Watchlist data.	See the <i>JD Edwards EnterpriseOne Mobile Framework Java API Reference</i> located at:  <a href="http://docs.oracle.com/cd/E53430_01/EOTMP/index.html">http://docs.oracle.com/cd/E53430_01/EOTMP/index.html</a>

Feature	Description	Documentation
IBM WebSphere Application Server 9 support	Support of WebSphere 9 for business services.	See the following topics in the <i>JD Edwards EnterpriseOne Tools Package Management Guide</i> : <ul style="list-style-type: none"> <li>• <a href="#">Working with Packages for Business Services (Applications Release 9.2)</a></li> <li>• <a href="#">Working with Packages for Business Services (Applications Releases 9.1 and 9.0)</a></li> </ul>

## Documentation Updates for EnterpriseOne Tools 9.2.1.4

The following table contains links to documentation updates in support of EnterpriseOne Tools 9.2.1.4:

Feature	Description	Documentation
AIS Server caching of data for UX One Charts	You can enable the AIS Server to cache responses of service requests so that the data in UX One charts is retrieved from the cache.	See the following topic in the <i>JD Edwards EnterpriseOne Tools UX One Deployment and Development Guide</i> : <ul style="list-style-type: none"> <li>• <a href="#">Enabling AIS Cache Responses</a></li> </ul>
JD Edwards Orchestrator: REST connector  <b>Note:</b> Starting with this revision of the guide, the IoT Orchestrator is now simply referred to as "Orchestrator." Although the Orchestrator is an integral part of an IoT configuration with JD Edwards EnterpriseOne, the Orchestrator functionality has expanded to support various integrations including integrations to Cloud services, third-party applications, custom programs, and many more. Keep using it for integrating JD Edwards EnterpriseOne with IoT devices. But start using it for all you REST-based integrations to JD Edwards.	In the Orchestrator Studio, you can create a connector to a REST service to enable outbound REST calls to external systems as an orchestration step. For example, an orchestration could make a REST call to a Cloud service and use the data in the response in subsequent orchestration steps.	See the following topic in the <i>JD Edwards EnterpriseOne Tools Orchestrator Guide for Studio Version 8 and Prior</i> : <ul style="list-style-type: none"> <li>• <a href="#">Configuring a Connector</a></li> </ul>
JD Edwards Orchestrator: Groovy support for custom service requests, custom rules, and manipulating output	In the Orchestrator Studio, programmers can use the popular and powerful Groovy scripting language for orchestration rules, service requests, and to manipulate the output of an orchestration. For example, a programmer could write a Groovy script to create a rule with complex calculations.	See the following topics in the <i>JD Edwards EnterpriseOne Tools Orchestrator Guide for Studio Version 8 and Prior</i> : <ul style="list-style-type: none"> <li>• <a href="#">Configuring a Custom Service Request with Groovy</a></li> <li>• <a href="#">Creating a Custom Rule with Groovy</a></li> </ul>

Feature	Description	Documentation
		<ul style="list-style-type: none"> <li><a href="#">Working with Orchestration Output</a></li> <li><a href="#">Using Apache Groovy for Custom Service Requests, Rules, and Manipulating Output</a></li> </ul>
Task Search	<p>The JD Edwards EnterpriseOne Task Search feature enables users to search for tasks within the menus for which they have access.</p> <p><b>Note:</b> JD Edwards EnterpriseOne Task Search feature is not supported with Oracle WebCenter Portal or IBM WebSphere Portal.</p>	<p>See the following topic in the <i>JD Edwards EnterpriseOne Tools Foundation Guide</i> :</p> <ul style="list-style-type: none"> <li><a href="#">JD Edwards EnterpriseOne Navigator Menu</a></li> </ul>
JD Edwards EnterpriseOne Search support on iPad and Android-based tablets	<p>Previously unsupported, the JD Edwards EnterpriseOne Search feature is now available on the iPad and Android-based tablets.</p>	<p>For information about EnterpriseOne Search, see the following topic in the <i>JD Edwards EnterpriseOne Tools Using and Approving User Defined Objects Guide</i> :</p> <ul style="list-style-type: none"> <li><a href="#">Working with EnterpriseOne Search</a></li> </ul> <p>See also:</p> <ul style="list-style-type: none"> <li><a href="#">JD Edwards EnterpriseOne for iPad Quick Start Guide</a></li> <li><a href="#">JD Edwards EnterpriseOne for Android-based Tablets Quick Start Guide</a></li> </ul>
Media objects to database or file system	<p>As an alternative to uploading media object files to the database, you now have the option to store media objects to the file system.</p>	<p>See the following topic in the <i>JD Edwards EnterpriseOne Tools Runtime Administration Guide</i> :</p> <ul style="list-style-type: none"> <li><a href="#">Uploading Media Object Files to Database</a></li> </ul>
Modal form interconnect or Shortcut Launcher to launch external applications	<p>You can also use a modal form interconnect or Shortcut Launcher to launch external applications. However, you cannot use Shortcut Launcher to open external forms that are ADF applications.</p>	<p>See the following topic in the <i>JD Edwards EnterpriseOne Tools Form Design Aid Guide</i> :</p> <ul style="list-style-type: none"> <li><a href="#">External Forms Overview</a></li> </ul>

## Documentation Updates for EnterpriseOne Tools 9.2.2

The following table contains links to documentation updates in support of EnterpriseOne Tools 9.2.2:

Feature	Description	Documentation
<p>Enhancements to simplify staying current</p>	<p>Beginning with 4.0.0.4 version, the Change Assistant supports the deployment of user defined object packages and provides a Deployment Summary report after a successful deployment.</p> <p>In addition, you can retrofit custom modifications for objects that are part of the deployed ESU bundle.</p>	<p>See the following topics in the <i>JD Edwards EnterpriseOne Tools Software Updates Guide</i> :</p> <ul style="list-style-type: none"> <li>• <a href="#">Deploying UDOs using the Change Assistant</a></li> <li>• <a href="#">Custom Modifications and Packages</a></li> </ul>
<p>Accessing contextual documents in the cloud</p>	<p>Users can share and access contextual cloud documents in Oracle Content and Experience Cloud without logging in to EnterpriseOne.</p>	<p>See the following topic in the <i>JD Edwards EnterpriseOne Tools Foundation Guide</i> :</p> <ul style="list-style-type: none"> <li>• <a href="#">Accessing Contextual Documents in Content and Experience Cloud</a></li> </ul> <p>See the following topic in the <i>JD Edwards EnterpriseOne Tools Runtime Administration Guide</i> :</p> <ul style="list-style-type: none"> <li>• <a href="#">Configuring EnterpriseOne with Oracle Content and Experience Cloud</a></li> </ul>
<p>User documents in the cloud</p>	<p>Users can now add documents that are not related to JD Edwards EnterpriseOne transactions to the cloud.</p>	<p>See the following topic in the <i>JD Edwards EnterpriseOne Tools Foundation Guide</i> :</p> <ul style="list-style-type: none"> <li>• <a href="#">Adding User Documents to the Cloud</a></li> </ul>
<p>EnterpriseOne single sign-on with Oracle Content and Experience Cloud</p>	<p>JD Edwards EnterpriseOne single sign-on through Oracle Access Management 11g Release 2 now supports Oauth 2.0 and also supports a single sign-on configuration with Oracle Content and Experience Cloud.</p>	<p>See the following topic in the <i>JD Edwards EnterpriseOne Tools Security Administration Guide</i> :</p> <ul style="list-style-type: none"> <li>• <a href="#">Configuring Federation SSO in Content and Experience Cloud (Release 9.2.2 - Release 9.2.8)</a></li> </ul>
<p>Notifications and schedules</p>	<p>In the Orchestrator Studio, you can create notifications that enable you to improve your business efficiency by notifying users of business events as they happen without the need for the user to be online. You can make these notifications actionable and you can also attach schedules, which define how often the system executes a notification.</p>	<p>See the <i>JD Edwards EnterpriseOne Tools Notifications Guide</i> .</p> <p>See the following topic in the <i>JD Edwards EnterpriseOne Tools Using and Approving User Defined Objects Guide</i> :</p> <ul style="list-style-type: none"> <li>• <a href="#">Understanding User Defined Objects (UDOs)</a></li> </ul>
<p>Subscriptions to notifications</p>	<p>In EnterpriseOne, users can use the Subscription Manager to subscribe to notifications and receive updates by email, email to SMS (Short Message Service) text message, as browser pop-up messages, through the Work Center, or on the EnterpriseOne menu bar. By subscribing to notifications, you know when key transactions or events occur without having to log in to EnterpriseOne.</p>	<p>See the following topic in the <i>JD Edwards EnterpriseOne Tools Foundation Guide</i> :</p> <ul style="list-style-type: none"> <li>• <a href="#">Understanding Subscriptions to Notifications</a></li> </ul> <p>See the following topics in the <i>JD Edwards EnterpriseOne for iPad Quick Start Guide</i> :</p> <ul style="list-style-type: none"> <li>• <a href="#">Personalization Button</a></li> </ul>

Feature	Description	Documentation
		<ul style="list-style-type: none"> <li><a href="#">Notification List Button</a></li> </ul>
Support for notifications and schedules in orchestrations	<p>In the Orchestrator Studio, you can create a schedule and attach to an orchestration to run it periodically and automatically.</p> <p>Notifications can be included as a step within an orchestration, allowing the notification to be integrated into a broader business process.</p>	<p>See the following topic in the <i>JD Edwards EnterpriseOne Tools Orchestrator Guide for Studio Version 8 and Prior</i> :</p> <ul style="list-style-type: none"> <li><a href="#">Creating Schedules for Orchestrations</a></li> <li><a href="#">Configuring a Connector to Invoke an Orchestration or Notification</a></li> </ul>
Watchlist service requests in orchestrations	<p>A Watchlist service request enables orchestrations to use information from Watchlists, such as critical and warning states, threshold levels, and number of records, within an orchestration.</p>	<p>See the following topic in the <i>JD Edwards EnterpriseOne Tools Orchestrator Guide for Studio Version 8 and Prior</i> :</p> <ul style="list-style-type: none"> <li><a href="#">Configuring a Watchlist Service Request</a></li> </ul>
Database connector for orchestrations	<p>A database connector enables orchestrations to read from and write to non-JD Edwards EnterpriseOne databases using standard SQL protocol. This enables external databases to be the source of input for orchestrations. It also allows data that is not appropriate for transaction tables to be stored for analysis, archive, or integration purposes.</p>	<p>See the following topic in the <i>JD Edwards EnterpriseOne Tools Orchestrator Guide for Studio Version 8 and Prior</i> :</p> <ul style="list-style-type: none"> <li><a href="#">Configuring a Database Connector</a></li> </ul>
Data set processing in orchestrations	<p>In the Orchestrator Studio, you can configure a form request or a data request to return a data set. You can then configure an orchestration to pass the data set to another step in an orchestration.</p>	<p>See the following topic in the <i>JD Edwards EnterpriseOne Tools Orchestrator Guide for Studio Version 8 and Prior</i> :</p> <ul style="list-style-type: none"> <li><a href="#">Retrieving and Passing Data Sets in an Orchestration</a></li> </ul>
Oauth 2.0 authorization for REST connections	<p>Adoption of the Oauth 2.0 framework allows orchestrations to exchange REST calls and data with Oracle Cloud services and other third-party systems.</p>	<p>See the following topic in the <i>JD Edwards EnterpriseOne Tools Orchestrator Guide for Studio Version 8 and Prior</i> :</p> <ul style="list-style-type: none"> <li><a href="#">Creating Connections for Connector Service Requests</a></li> </ul>
AIS Client Java API 2.0.3	<p>AIS Client Java API was updated in support of a newer version of the Jackson library.</p>	<p>See the <i>JD Edwards EnterpriseOne Application Interface Services (AIS) Client API Reference</i> located at:</p> <p><a href="http://docs.oracle.com/cd/E53430_01/EOTJP/index.html">http://docs.oracle.com/cd/E53430_01/EOTJP/index.html</a></p> <p>See "Prerequisites" in the <i>JD Edwards EnterpriseOne Application Interface Services Client Java API Developer's Guide</i> .</p>
Business function tracking and additional features in Object Usage Tracking	<p>You can track business functions with Object Usage Tracking. You can also specify the object types to track and</p>	<p>See the following topics in the <i>JD Edwards EnterpriseOne Tools Software Updates Guide</i> :</p>

Feature	Description	Documentation
	exclude specific objects. Tracking configurations can be copied from one path code to another.	<ul style="list-style-type: none"> <li>• <a href="#">Using Object Usage Tracking</a></li> </ul>
Oracle Mobile Application Framework 2.4.0 Support	You can use the latest features in Oracle MAF 2.4.0, an extension to JDeveloper, to develop EnterpriseOne mobile enterprise applications. The sample mobile application has also been updated in support of Oracle MAF 2.4.0.	See the following topic in the <i>JD Edwards EnterpriseOne Tools Developing and Customizing Mobile Enterprise Applications Guide</i> : <ul style="list-style-type: none"> <li>• <a href="#">Prerequisites</a></li> </ul>

## Documentation Updates for EnterpriseOne Tools 9.2.2.1

The following table contains links to documentation updates in support of EnterpriseOne Tools 9.2.2.1:

Feature	Description	Documentation
Server Manager setting to enable external email for notifications	A new setting in the Notifications section of Server Manager enables you to specify whether external email addresses can be used as a delivery method for notification. If email is not specified, the email delivery method is not available in Subscription Manager.	See the following topic in the <i>JD Edwards EnterpriseOne Tools Notifications Guide</i> : <ul style="list-style-type: none"> <li>• <a href="#">Prerequisites</a></li> </ul> See the following topic in the <i>JD Edwards EnterpriseOne Tools Foundation Guide</i> <ul style="list-style-type: none"> <li>• <a href="#">Prerequisites</a></li> <li>• <a href="#">Adding a New Subscription</a></li> </ul>
Enabling Task Search	To perform a task search, you must enable Feature security for Task Search.	See the following topic in the <i>JD Edwards EnterpriseOne Tools Foundation Guide</i> : <ul style="list-style-type: none"> <li>• <a href="#">JD Edwards EnterpriseOne Navigator Menu</a></li> </ul>

## Documentation Updates for EnterpriseOne Tools 9.2.2.2

The following table contains links to documentation updates in support of EnterpriseOne Tools 9.2.2.2:

Feature	Description	Documentation
Cut, copy, and paste functionality in Designer Pane	In the Designer Pane of a Composed EnterpriseOne Page, you can cut, copy, and paste tiles.	See the following topic in the <i>JD Edwards EnterpriseOne Tools Using and Approving User Defined Objects Guide</i> :

Feature	Description	Documentation
		<ul style="list-style-type: none"> <li><a href="#">Cutting, Copying, and Pasting a Tile in the Designer Pane</a></li> </ul>
EnterpriseOne Search troubleshooting	Added troubleshooting information for the EnterpriseOne Search feature.	<p>See the following topic in the <i>JD Edwards EnterpriseOne Tools Using and Approving User Defined Objects Guide</i> :</p> <ul style="list-style-type: none"> <li><a href="#">Troubleshooting</a></li> </ul>
AIS Server configuration with the EnterpriseOne Enterprise Server	Starting with EnterpriseOne Tools 9.2.2.2, an AIS Server requires a configuration with the EnterpriseOne Enterprise Server (Security Server). This configuration was previously optional, but is required with EnterpriseOne Tools 9.2.2.2 and higher releases. If not configured, all login requests to the AIS Server will fail.	<p>See the following topic in the <i>JD Edwards EnterpriseOne Application Interface Services Server Reference Guide</i> :</p> <ul style="list-style-type: none"> <li><a href="#">Configuring the AIS Server with an EnterpriseOne Enterprise Server</a></li> </ul>

## Documentation Updates for EnterpriseOne Tools 9.2.2.4

The following table contains links to documentation updates in support of EnterpriseOne Tools 9.2.2.4:

Feature	Description	Documentation
Form extension	<p>Form extension is a new user defined object (UDO) that enables users to add available (unused) business view columns to EnterpriseOne forms.</p> <p>Note that the design mode of the form extensions feature is not available in the Oracle WebCenter Portal, IBM WebSphere Portal, JD Edwards EnterpriseOne for iPad, and JD Edwards EnterpriseOne for Android-based tablets.</p>	<p>See the following topics in the <i>JD Edwards EnterpriseOne Tools Using and Approving User Defined Objects Guide</i> :</p> <ul style="list-style-type: none"> <li><a href="#">Form Extensions</a></li> <li><a href="#">UDO Types</a></li> <li><a href="#">UDO Design Panel</a></li> </ul> <p>See the following topic in the <i>JD Edwards EnterpriseOne Tools Security Administration Guide</i> :</p> <ul style="list-style-type: none"> <li><a href="#">Authorization Security for User Defined Objects</a></li> </ul> <p>See the following topic in the <i>JD Edwards EnterpriseOne Tools Foundation Guide</i> :</p> <ul style="list-style-type: none"> <li><a href="#">Controls in JD Edwards EnterpriseOne</a></li> </ul>
Menu exit personalization	The form personalization functionality has been enhanced to enable users to hide, unhide, and rename menu exits.	<p>See the following topic in the <i>JD Edwards EnterpriseOne Tools Using and Approving User Defined Objects Guide</i> :</p> <ul style="list-style-type: none"> <li><a href="#">Creating a Personal Form</a></li> </ul>

Feature	Description	Documentation
Grid header personalization	The grid personalization functionality has been enhanced to enable users to rename grid column headers in the list view and table view grid formats.	See the following topic in the <i>JD Edwards EnterpriseOne Tools Using and Approving User Defined Objects Guide</i> : <ul style="list-style-type: none"> <li>• <a href="#">Renaming Grid Column Headers</a></li> <li>• <a href="#">Working with the List View Grid Format</a></li> </ul> See the following topic in the <i>JD Edwards EnterpriseOne Tools Foundation Guide</i> : <ul style="list-style-type: none"> <li>• <a href="#">Personalize Grid Accessibility</a></li> </ul>
Delivered notification content	JD Edwards EnterpriseOne provides preconfigured notification content for EnterpriseOne applications. This content is available for several key roles, business processes, and modules within EnterpriseOne. Users can subscribe to these notifications, and notification designers can personalize them for your unique use cases or use them to seed new ideas for notifications for your specific business needs.	See the following topic in the <i>JD Edwards EnterpriseOne Tools Notifications Guide</i> : <ul style="list-style-type: none"> <li>• <a href="#">Installing Delivered Notification Content</a></li> </ul>
Assigned subscriptions to notifications	The Assigned Subscriptions (P980053X) application provides a manager, business analyst, or administrator the ability to assign subscriptions to groups with a common interest or role as an alternative to every user subscribing individually.  Subscription Manager enables users to work with subscriptions they have created for themselves and now also assigned subscriptions. Updates have been made to the application to reflect this.	See the following topics in the <i>JD Edwards EnterpriseOne Tools Notifications Guide</i> : <ul style="list-style-type: none"> <li>• <a href="#">Assigning Subscriptions</a></li> <li>• <a href="#">Tuning Your Configuration</a></li> </ul> See the following topic in the <i>JD Edwards EnterpriseOne Tools Foundation Guide</i> : <ul style="list-style-type: none"> <li>• <a href="#">Subscribing to Notifications</a></li> </ul>
Scheduler resilience for notifications and orchestrations	Scheduler resilience enables you to store the scheduled job properties for notifications and orchestrations centrally in the database.	See the following topic in the <i>JD Edwards EnterpriseOne Application Interface Services Server Reference Guide</i> : <ul style="list-style-type: none"> <li>• <a href="#">Configuring Scheduler Resilience</a></li> </ul> As part of this update, the Scheduler Administration section in the Notifications Guide and the Orchestrator Guide was moved to the Configuring Scheduler Resilience chapter.
Notifications - Performance characterization	Updates have been made to the notification bell user interface to improve performance.	See the following topic in the <i>JD Edwards EnterpriseOne Tools Foundation Guide</i> : <ul style="list-style-type: none"> <li>• <a href="#">Working with Received Notifications</a></li> </ul>

Feature	Description	Documentation
Orchestrator Process Recorder	<p>The JD Edwards EnterpriseOne Orchestrator Process Recorder enables you to create form requests from within JD Edwards EnterpriseOne applications. The Process Recorder allows a business analyst to walk through a business process program by program, form by form, field by field, and record each step of the process. At the end of the process, the business analyst can save the recorded steps as a form request, which can then be edited in EnterpriseOne Orchestrator Studio 6.1.0 and added to an orchestration.</p>	<p>See the following topic in the <i>JD Edwards EnterpriseOne Tools Orchestrator Guide for Studio Version 8 and Prior</i> :</p> <ul style="list-style-type: none"> <li>• <a href="#">Creating a Form Request with the JD Edwards EnterpriseOne Orchestrator Process Recorder</a></li> </ul>
Defining mapped values and default values in a form request	<p>Orchestrator Studio 6.1.0 enables you to define mapped values and default values in the Order of Execution area. Before, you could only do this in the Available Actions area before adding an action to the Order of Execution. This makes it easier to modify these values, especially when working with a form request that was created using the Orchestrator Process Recorder.</p>	<p>See the following topic in the <i>JD Edwards EnterpriseOne Tools Orchestrator Guide for Studio Version 8 and Prior</i> :</p> <ul style="list-style-type: none"> <li>• <a href="#">Configuring Form Request Actions</a></li> </ul>
EnterpriseOne Orchestrator file transfer support	<p>Business analysts can create orchestrations that can retrieve a file or send a file to a known external location using FTP and SFTP protocols, or send a file to an external location using the REST protocol.</p> <p>In Orchestrator Studio 6.1.0, you can create and add an FTP connector or REST connector to an orchestration to enable file transfers with these protocols.</p>	<p>See the following topics in the <i>JD Edwards EnterpriseOne Tools Orchestrator Guide for Studio Version 8 and Prior</i> :</p> <ul style="list-style-type: none"> <li>• <a href="#">Configuring a REST Connector to Transfer Files to a REST Service</a></li> <li>• <a href="#">Configuring a Connector to Transfer Files Using File Transfer Protocol (FTP)</a></li> </ul>
Launch a report as an orchestration step (Orchestrator Studio 6.1.0)	<p>Add a report service request to an orchestration to launch a JD Edwards EnterpriseOne report or batch job.</p>	<p>See the following topic in the <i>JD Edwards EnterpriseOne Tools Orchestrator Guide for Studio Version 8 and Prior</i> :</p> <ul style="list-style-type: none"> <li>• <a href="#">Configuring a Report Service Request</a></li> </ul>
Orchestration error and exception handling	<p>In Server Manager, you can enable error and exception handling for orchestrations. When enabled, each exception in an orchestration is saved as a single serialized JSON object and stored in a directory on the AIS Server. In addition to storing these files, the directory serves as a buffer for storing orchestration requests if the EnterpriseOne system is down.</p>	<p>See the following topic in the <i>JD Edwards EnterpriseOne Tools Orchestrator Guide for Studio Version 8 and Prior</i> :</p> <ul style="list-style-type: none"> <li>• <a href="#">Enabling Orchestration Error and Exception Handling</a></li> </ul>
Orchestration input enhancements, including support of arrays as inputs (Orchestrator Studio 6.1.0)	<p>To simplify working with orchestration inputs in the Orchestrator Studio, the Orchestration inputs grid was redesigned with three separate expandable grids to categorize manually entered inputs, inputs</p>	<p>See the following topic in the <i>JD Edwards EnterpriseOne Tools Orchestrator Guide for Studio Version 8 and Prior</i> :</p>

Feature	Description	Documentation
	<p>defined from values returned from other orchestration components, and default system inputs.</p> <p>After adding a component as an orchestration step, use the "Add Inputs to Orchestration" button to automatically add inputs defined in the component as inputs to the orchestration. This makes it easier to define orchestration inputs that you need to, in turn, map to the inputs defined in an orchestration step or component.</p> <p>When creating orchestrations, business analysts can include an array as an orchestration input, defining the set of data to pass within the array. You can use an array in two ways: with the orchestration "Iterate Over" feature to repeatedly call a service request for each row in the array; or add to or update a grid by referencing the array name inside the service request at the grid level.</p>	<ul style="list-style-type: none"> <li>• <a href="#">Adding Inputs to an Orchestration</a></li> </ul>
<p>"Select First Row" option changed to "Select Row" in the Form Request design page in Orchestrator Studio 6.1.0</p>	<p>On the Form Request design page, you can use the Select Row action to configure a form request to select the first row in an EnterpriseOne grid. You can enter a variable name for this action, which enables you to map an orchestration input to this variable in order to pass in a specific row to select. Or you can enter default value to specify a specific row to select.</p>	<p>See the following topic in the <i>JD Edwards EnterpriseOne Tools Orchestrator Guide for Studio Version 8 and Prior</i> :</p> <ul style="list-style-type: none"> <li>• <a href="#">Configuring Form Request Actions</a></li> </ul>
<p>"Select All Rows" option in the Form Request design page in Orchestrator Studio 6.1.0</p>	<p>Use the "Select All Rows" option in the Form Request design page to configure a form request to perform an action on all rows in a grid. The form invoked by the form request must have a feature or button for performing an action on all selected grid rows. For example, if you want to update the PO status for all rows in a grid, add this action to the Order of Execution area and then configure the next action to update the PO status.</p>	<p>See the following topic in the <i>JD Edwards EnterpriseOne Tools Orchestrator Guide for Studio Version 8 and Prior</i> :</p> <ul style="list-style-type: none"> <li>• <a href="#">Configuring Form Request Actions</a></li> </ul>
<p>Run synchronously option for form requests in Orchestrator Studio 6.1.0</p>	<p>Enabled by default in the Form Request design page, this option ensures that the form request completes all actions before the Orchestrator executes the next step in the orchestration. It also ensures that the events in the EnterpriseOne application are run synchronously.</p>	<p>See the following topic in the <i>JD Edwards EnterpriseOne Tools Orchestrator Guide for Studio Version 8 and Prior</i> :</p> <ul style="list-style-type: none"> <li>• <a href="#">Load the EnterpriseOne Application Form Fields and Controls</a></li> </ul>
<p>Orchestrator Studio 6.1.0 - Passing in an application version from an orchestration input</p>	<p>When creating a form request, you can leave the version of the form blank, which</p>	<p>See the following topic in the <i>JD Edwards EnterpriseOne Tools Orchestrator Guide for Studio Version 8 and Prior</i> :</p>

Feature	Description	Documentation
	gives you the option to pass in the version from an orchestration input.	<ul style="list-style-type: none"> <li><a href="#">Configuring Form Request Actions</a></li> </ul>
Additional services in the REST API for AIS Server	With EnterpriseOne Tools 9.2.2.4, the REST API for the AIS Server includes additional services for invoking external REST services, transferring files to external REST services, launching a report or batch job in EnterpriseOne, and administering multiple schedulers for scheduling orchestrations and notifications.	See the <a href="#">JD Edwards EnterpriseOne Tools REST API for the Application Interface Services Server Guide</a> .
Oracle Application Development Framework (ADF) 12.2.1.3 Certification	Verified support of Oracle ADF 12.2.1.3 to create EnterpriseOne ADF applications.	See the following topic in the <a href="#">JD Edwards EnterpriseOne Tools Deploying and Developing Oracle Application Development Framework (ADF) Applications for EnterpriseOne</a> : <ul style="list-style-type: none"> <li><a href="#">Prerequisites for Developing EnterpriseOne ADF Applications</a></li> </ul>

## Documentation Updates for EnterpriseOne Tools 9.2.2.5

The following table contains links to documentation updates in support of EnterpriseOne Tools 9.2.2.5:

Feature	Description	Documentation
Composite Application Framework - Additional ways to map web page URL parameters to an EnterpriseOne form	Check boxes and combo boxes (drop-down lists) in the header area of the form are valid form-level fields that can be mapped. And if in the grid, they are valid grid columns that can be mapped.	See the following topic in the <a href="#">JD Edwards EnterpriseOne Tools Composite Application Framework (CafeOne) User's Guide</a> : <ul style="list-style-type: none"> <li><a href="#">Mapping Web Page URL Parameters to the EnterpriseOne Form</a></li> </ul>

## Documentation Updates for EnterpriseOne Tools 9.2.3

The following table contains links to documentation updates in support of EnterpriseOne Tools 9.2.3:

Feature	Description	Documentation
Message Center	The Message Center application (P980051X) provides access to both notifications and Work Center messages. The straightforward user interface allows	See the following topics in the <a href="#">JD Edwards EnterpriseOne Tools Foundation Guide</a> :

Feature	Description	Documentation
	<p>you to view all of your messages in a list, sort messages, read messages in the reading pane, delete, and mark as unread.</p>	<ul style="list-style-type: none"> <li>• <a href="#">Message Center</a></li> <li>• <a href="#">Using Message Center to View Work Center Messages</a></li> <li>• <a href="#">Working with Received Notifications</a></li> </ul> <p>See the following topic in the <i>JD Edwards EnterpriseOne Tools Notifications Guide</i> :</p> <ul style="list-style-type: none"> <li>• <a href="#">Overview</a></li> </ul>
<p>My Worklist composed page</p>	<p>Oracle provides a downloadable My Worklist composed page, which enables users to view watchlists, Message Center messages, and Orchestrator Health information in one location.</p>	<p>See the following topic in the <i>JD Edwards EnterpriseOne Tools Foundation Guide</i> :</p> <ul style="list-style-type: none"> <li>• <a href="#">My Worklist</a></li> </ul>
<p>Manage Notifications menu and new Message Heading field</p>	<p>A new menu called Manage Notifications is available in the user ID drop-down list, and it contains the following menu options: My Subscriptions, Assigned Subscriptions, and Message Center.</p> <p>There is also a new field, Message Heading, in the My Subscriptions application.</p>	<p>See the following topic in the <i>JD Edwards EnterpriseOne Tools Foundation Guide</i> :</p> <ul style="list-style-type: none"> <li>• <a href="#">Adding a New Subscription</a></li> </ul> <p>See the following topic in the <i>JD Edwards EnterpriseOne Tools Notifications Guide</i> :</p> <ul style="list-style-type: none"> <li>• <a href="#">Adding a New Assigned Subscription</a></li> </ul>
<p>UDO management usability: Viewing and managing UDO dependencies</p>	<p>The View Dependencies feature enables you to identify all the dependent objects that are required to set up and implement a UX One role.</p> <p>You can review and manage object dependencies for Composed Page and Composite Application Framework user defined objects. This is helpful when you want to determine if you have all the dependent objects that exist for a particular OMW project.</p>	<p>See the following topic in the <i>JD Edwards EnterpriseOne Tools UX One Deployment and Development Guide</i> :</p> <ul style="list-style-type: none"> <li>• <a href="#">View Dependencies</a></li> </ul> <p>See the following topics in the <i>JD Edwards EnterpriseOne Tools Using and Approving User Defined Objects Guide</i> :</p> <ul style="list-style-type: none"> <li>• <a href="#">View Dependencies at Object Level</a></li> <li>• <a href="#">View Dependencies at Project Level</a></li> </ul> <p>See the following topic in the <i>JD Edwards EnterpriseOne Tools Package Management Guide</i> :</p> <ul style="list-style-type: none"> <li>• <a href="#">Object Movement</a></li> </ul>
<p>UDO management usability improvements</p>	<p>The Object Management Workbench - Web application (P98220W) enables you to copy an OMW Project that contains UDOs. You can also delete multiple objects for a single user/role.</p> <p>You can manage View security for individual UDOs or all the shared UDOs using the User Defined Object Management (P98220U) application.</p>	<p>See the following topics in the <i>JD Edwards EnterpriseOne Tools Object Management Workbench for the Web Guide</i> :</p> <ul style="list-style-type: none"> <li>• <a href="#">Creating New Projects</a></li> <li>• <a href="#">Copying a Project</a></li> <li>• <a href="#">Deleting Objects</a></li> </ul> <p>See the following topics in the <i>JD Edwards EnterpriseOne Tools Security Administration Guide</i> :</p>

Feature	Description	Documentation
		<ul style="list-style-type: none"> <li>• <a href="#">Managing UDO View Security</a></li> <li>• <a href="#">Copying Security for a User or a Role</a></li> </ul>
Form extensions for Edit forms	You can use form extensions to add available (unused) business view columns to all Edit forms except the Power Edit form.	See the following topic in the <i>JD Edwards EnterpriseOne Tools Using and Approving User Defined Objects Guide</i> : <ul style="list-style-type: none"> <li>• <a href="#">Form Extensions</a></li> </ul>
64-bit processing support	JD Edwards EnterpriseOne has supported 64-bit hardware, operating systems, databases, Java, and middleware for many years. Multiple JD Edwards components, such as HTML Server, AIS Server, Orchestrator and other Java-based components, are 64-bit enabled. To round out our architecture, JD Edwards enables 64-bit processing for the Enterprise Server and Development Client. <p><b>Note:</b> You can upgrade to EnterpriseOne Tools release 9.2.3 without implementing 64-bit processing. Support of Workflow Modeler is deprecated with 64-bit processing.</p>	See the "Implementing 64-bit Processing with JD Edwards EnterpriseOne" learning path located at: <a href="https://apexapps.oracle.com/pls/apex/f?p=44785:50:0:::50:P50_EVENT_ID,P50_COURSE_ID:6054,319">https://apexapps.oracle.com/pls/apex/f?p=44785:50:0:::50:P50_EVENT_ID,P50_COURSE_ID:6054,319</a> See the following topics in the <i>JD Edwards EnterpriseOne Tools Package Management Guide</i> : <ul style="list-style-type: none"> <li>• <a href="#">Running the 64-bit Code Converter</a></li> <li>• <a href="#">64-bit Repository Insert Logs</a></li> <li>• <a href="#">Understanding the Package Build Process</a></li> <li>• <a href="#">Building Packages</a></li> </ul> See the following topic in the <i>JD Edwards EnterpriseOne Tools Object Management Workbench Guide</i> : <ul style="list-style-type: none"> <li>• <a href="#">Action Detail with 64-bit Processing</a></li> </ul>
BLOBs in Data Browser	If a table or business view contains a BLOB, the Repository BLOB column appears in the grid on the Data Browser search form. Click the icon in the Repository BLOB column to view the content as a string. This can be helpful for troubleshooting purposes.	See the following topic in the <i>JD Edwards EnterpriseOne Tools Foundation Guide</i> : <ul style="list-style-type: none"> <li>• <a href="#">Viewing the Data in Tables and Business Views</a></li> </ul>
JDBNET Retired	Added note stating that as of JD Edwards EnterpriseOne Tools 9.2.3, JDBNET is no longer supported.	<a href="#">JD Edwards EnterpriseOne Administration Guide</a> and <a href="#">JD Edwards EnterpriseOne Tools Interoperability Guide</a>
EnterpriseOne Orchestrator: Monitoring Orchestrator health and exceptions	The EnterpriseOne Orchestrator Monitor (P980060X) enables you to perform a health check of your EnterpriseOne Orchestrator environment. It provides information about which objects are performing well and which ones might need fine tuning, as well as details about	See the following topic in the <i>JD Edwards EnterpriseOne Tools Orchestrator Guide for Studio Version 8 and Prior</i> : <ul style="list-style-type: none"> <li>• <a href="#">Orchestrator Health and Exception Monitoring</a></li> </ul>

Feature	Description	Documentation
	exceptions so that you can take corrective actions to resolve any issues.	
EnterpriseOne Orchestrator: Managing Orchestrator health and exception records in EnterpriseOne	EnterpriseOne provides the Orchestrator Health and Orchestrator Exceptions program (P980060) so you can manage health and exception records outside of the Orchestrator Monitor. You can delete records in P980060, effectively resetting the data displayed in the Orchestrator Monitor. And you can create a watchlist over a query of exception records so that you can be alerted to new exceptions.	See the following topic in the <i>JD Edwards EnterpriseOne Tools Orchestrator Guide for Studio Version 8 and Prior</i> : <ul style="list-style-type: none"> <li>• <a href="#">Managing Orchestrator Health and Exception Records in EnterpriseOne</a></li> </ul>
EnterpriseOne Orchestrator Studio 7.0.0.0: Returning multiple values from an application stack form request	With Orchestrator Studio 7.0.0.0, in the Form Design page, you can configure a form request to return values from multiple forms in an application stack. You can also return values from multiple forms when using the Process Recorder with EnterpriseOne Tools 9.2.3. Prior to this release, you could only return values from the last form in an application stack.	See the following topics in the <i>JD Edwards EnterpriseOne Tools Orchestrator Guide for Studio Version 8 and Prior</i> : <ul style="list-style-type: none"> <li>• <a href="#">Loading EnterpriseOne Application Form Fields and Controls</a></li> <li>• <a href="#">Using the Process Recorder to Create a Form Request</a></li> </ul>
EnterpriseOne Orchestrator Studio 7.0.0.0: Using an FTP connector to import data from a CSV file	Business analysts can create an FTP connector, a type of service request, to import data from a CSV file.	See the following topic in the <i>JD Edwards EnterpriseOne Tools Orchestrator Guide for Studio Version 8 and Prior</i> : <ul style="list-style-type: none"> <li>• <a href="#">Configuring an FTP Connector to Import Data from a CSV File</a></li> </ul>
EnterpriseOne Orchestrator Studio 7.0.0.0: Defining error handling for orchestration steps	In the Orchestration design page, you can set up error handling for individual orchestration steps. This determines how the Orchestrator handles an error, whether it: <ul style="list-style-type: none"> <li>-Continues processing the orchestration after the error occurs, effectively ignoring the error.</li> <li>-Cancels the orchestration.</li> <li>-Cancels the orchestration and invokes an alternate orchestration or notification.</li> </ul>	See the following topic in the <i>JD Edwards EnterpriseOne Tools Orchestrator Guide for Studio Version 8 and Prior</i> : <ul style="list-style-type: none"> <li>• <a href="#">Defining Error Handling for Orchestration Steps</a></li> </ul>
AIS Server REST APIs: New and updated media object services	Updates to the REST API for AIS Server include updates to the Media Object services to add a text media object, view multiple text media objects, and update a particular text media object. Before this enhancement, you could only update the first text media object attached to a form.	See the <i>JD Edwards EnterpriseOne Tools REST API for the Application Interface Services Server Guide</i> .
Calling an orchestration or notification from an interactive or batch application in EnterpriseOne	Developers can configure the B98ORCH business function to invoke an EnterpriseOne orchestration or notification automatically from an	See the following topic in the <i>JD Edwards EnterpriseOne Tools Orchestrator Guide for Studio Version 8 and Prior</i> :

Feature	Description	Documentation
	EnterpriseOne interactive application or batch application.	<ul style="list-style-type: none"> <li><a href="#">Invoking Orchestrations and Notifications from an EnterpriseOne Interactive or Batch Application</a></li> </ul> See the following topic in the <i>JD Edwards EnterpriseOne Tools APIs and Business Functions Guide</i> : <ul style="list-style-type: none"> <li><a href="#">Configuring the B98ORCH Business Function to Invoke an Orchestration or Notification</a></li> </ul>

## Documentation Updates for EnterpriseOne Tools 9.2.3.2

The following table contains links to documentation updates in support of EnterpriseOne Tools 9.2.3.2:

Feature	Description	Documentation
Data packs for UX One	The UX One data packs are necessary if you want to install the UX One security roles rather than create them manually and if you want to install demo data for testing the shipped UX One pages.	See the following topic in the <i>JD Edwards EnterpriseOne Tools UX One Deployment and Development Guide</i> : <ul style="list-style-type: none"> <li><a href="#">Data Packs for UX One</a></li> </ul>
Configuring EnterpriseOne HTML Server for JSON Web Token	This feature updates HTML Server configuration for JSON Web Token (JWT) to allow for separate internal and external JWT trust configuration for authentication.	See the following topic in the <i>JD Edwards EnterpriseOne Tools Security Administration Guide</i> : <ul style="list-style-type: none"> <li><a href="#">Configuring EnterpriseOne HTML Server for JSON Web Token (JWT)</a></li> </ul>
Multiple Actions in Messages	Messages can now contain multiple actions, such as application shortcuts, so an Actions drop-down list is provided when viewing notifications.	See the following topics in the <i>JD Edwards EnterpriseOne Tools Foundation Guide</i> : <ul style="list-style-type: none"> <li><a href="#">Viewing Notifications in the Notification List</a></li> <li><a href="#">Working with Notification List Messages</a></li> <li><a href="#">Working with Notification Messages</a></li> <li><a href="#">Working with Work Center Messages</a></li> </ul>
Multiple Actions in Messages	With Orchestrator 7.1.0.0, users can add multiple actions, such as application shortcuts, to a notification message. They can also specify a personal form, query, or watchlist to use when opening the application. And they can define	See the following topic in the <i>JD Edwards EnterpriseOne Tools Notifications Guide</i> :

Feature	Description	Documentation
	pretext and posttext to use with the link text in the message.	<ul style="list-style-type: none"> <li>• <a href="#">Defining the Notification Message</a></li> </ul> See the following topic in the <i>JD Edwards EnterpriseOne Tools Orchestrator Guide for Studio Version 8 and Prior</i> : <ul style="list-style-type: none"> <li>• <a href="#">Configuring a Message Request</a></li> </ul>
Variable Inputs in an Orchestration	This feature enables users to enter a variable as an orchestration input.	See the following topic in the <i>JD Edwards EnterpriseOne Tools Orchestrator Guide for Studio Version 8 and Prior</i> : <ul style="list-style-type: none"> <li>• <a href="#">Adding Inputs to an Orchestration</a></li> </ul>
Special Values for Dates in a Data Request	Starting with Orchestrator Studio 71.0.0, if the field is a date, users can use the down arrow to set a special value, such as today plus or minus the number of days, months, or years that they specify.	See the following topics in the <i>JD Edwards EnterpriseOne Tools Orchestrator Guide for Studio Version 8 and Prior</i> : <ul style="list-style-type: none"> <li>• <a href="#">Configuring a Data Request</a></li> <li>• <a href="#">Configuring a Data Request with Aggregation</a></li> </ul>

## Documentation Updates for EnterpriseOne Tools 9.2.3.3

The following table contains links to documentation updates in support of EnterpriseOne Tools 9.2.3.3:

Feature	Description	Documentation
Subscription Categories	A new application, Category Manager, enables you to add subscription categories.  When adding a subscription, a drop-down list of categories is available. You can also make any new category you add to your subscription available for others to use by clicking the Share button.	See the following topic in the <i>JD Edwards EnterpriseOne Tools Notifications Guide</i> : <ul style="list-style-type: none"> <li>• <a href="#">Working with Categories</a></li> </ul> See the following topic in the <i>JD Edwards EnterpriseOne Tools Foundation Guide</i> : <ul style="list-style-type: none"> <li>• <a href="#">Adding a New Subscription</a></li> </ul>
Filtering Subscriptions and Notifications in Subscription Manager	You can use the search field to filter your notifications and subscriptions in Subscription Manager. You can also use the Show field to filter subscriptions.	See the following topics in the <i>JD Edwards EnterpriseOne Tools Foundation Guide</i> : <ul style="list-style-type: none"> <li>• <a href="#">Adding a New Subscription</a></li> <li>• <a href="#">Updating a Subscription</a></li> </ul>

Feature	Description	Documentation
		See the following topics in the <i>JD Edwards EnterpriseOne Tools Notifications Guide</i> : <ul style="list-style-type: none"> <li>• <a href="#">Adding a New Assigned Subscription</a></li> <li>• <a href="#">Updating an Assigned Subscription</a></li> </ul>
Report Output and Services as Attachments in Messages	Notification designers can now add links to notifications, orchestrations, URLs, EnterpriseOne reports, and BI Publisher reports to notification messages and these can be accessed from Message Center, email, and the Notifications List.	See the following topics in the <i>JD Edwards EnterpriseOne Tools Foundation Guide</i> : <ul style="list-style-type: none"> <li>• <a href="#">Viewing Notifications in the Notification List</a></li> <li>• <a href="#">Working with Notification List Messages</a></li> <li>• <a href="#">Working with Notification Messages</a></li> <li>• <a href="#">Working with Work Center Messages</a></li> </ul> See the following topic in the <i>JD Edwards EnterpriseOne Tools Notifications Guide</i> : <ul style="list-style-type: none"> <li>• <a href="#">Defining the Notification Message</a></li> </ul> See the following topic in the <i>JD Edwards EnterpriseOne Tools Orchestrator Guide for Studio Version 8 and Prior</i> : <ul style="list-style-type: none"> <li>• <a href="#">Configuring a Message Request (Orchestrator Studio 7.2.0.0)</a></li> </ul>
Open Standards 2.0 Support for Orchestrations, Version 3, and XML Formatting for orchestrations	These features allow external systems to discover orchestrations and notifications with inputs and outputs using the OpenAPI 2.0 standard (formerly known as Swagger). A new Version 3 format for orchestrations is also available and it is compliant with the OpenAPI 2.0 standard. Finally, you can now use XML notation for orchestration inputs instead of JSON by specifying "application/XML" in the message header.	See the following topic in the <i>JD Edwards EnterpriseOne Tools Orchestrator Guide for Studio Version 8 and Prior</i> : <ul style="list-style-type: none"> <li>• <a href="#">Open Standards for Orchestrations</a></li> </ul>
Orchestrations: High Volume Data	With Orchestrator Studio 7.2.0.0, you can use page size for data services and form services (application stack) to indicate the number of records that the AIS Server fetches at a time using the HTML Server.	See the following topics in the <i>JD Edwards EnterpriseOne Tools Orchestrator Guide for Studio Version 8 and Prior</i> : <ul style="list-style-type: none"> <li>• <a href="#">Page Size Considerations (Orchestrator Studio 7.2.0.0)</a></li> </ul>

Feature	Description	Documentation
	<p>With the High Volume feature, some of the fields that were previously in this section have been moved to the Options menu.</p>	<ul style="list-style-type: none"> <li>• <a href="#">Loading EnterpriseOne Application Form Fields and Controls</a></li> </ul>
<p>Message Center</p>	<p>Starting with Tools Release 9.2.3.3, Message Center is available on iPad.</p>	<p>See the following topic in the <i>JD Edwards EnterpriseOne for iPad Quick Start Guide</i> :</p> <ul style="list-style-type: none"> <li>• <a href="#">JD Edwards EnterpriseOne Features Not Supported on the iPad or in JD Edwards EnterpriseOne for iPad</a></li> </ul>
<p>SSH Key Soft Coding Record for FTP Server Connection</p>	<p>You can now choose SSH Key as the connection type for the soft coding record for an FTP server connection.</p>	<p>See the following topic in the <i>JD Edwards EnterpriseOne Tools Orchestrator Guide for Studio Version 8 and Prior</i> :</p> <ul style="list-style-type: none"> <li>• <a href="#">Creating a Soft Coding Record for an FTP Server Connection (Orchestrator Studio 6.1.0)</a></li> </ul>
<p>Form Extensibility: Adding Unused Table Columns Associated with Business View</p>	<p>Starting with Tools Release 9.2.3.3, you can use the form extensibility framework to add the available (unused) table columns associated with a business view as additional form controls.</p>	<p>See the following topic in the <i>JD Edwards EnterpriseOne Tools Using and Approving User Defined Objects Guide</i> :</p> <ul style="list-style-type: none"> <li>• <a href="#">Extending EnterpriseOne Forms Using Business Views</a></li> </ul>
<p>Form Extensibility: Associating Orchestrations with Events</p>	<p>You can associate orchestrations with the events on an EnterpriseOne form by using the form extensibility framework. You can also add a new web button on a form without performing customizations.</p>	<p>See the following topics in the <i>JD Edwards EnterpriseOne Tools Using and Approving User Defined Objects Guide</i> :</p> <ul style="list-style-type: none"> <li>• <a href="#">Extending EnterpriseOne Forms by Associating Orchestrations with Events</a></li> <li>• <a href="#">Adding a New Web Button</a></li> </ul>
<p>Decustomizer Analysis Report</p>	<p>The JD Edwards EnterpriseOne Decustomizer Analysis Report enables you to identify the UI customizations to Applications that can be replaced using the personalization and the extensibility framework.</p>	<p>See the following topic in the <i>JD Edwards EnterpriseOne Tools Software Updates Guide</i> :</p> <ul style="list-style-type: none"> <li>• <a href="#">Decustomizer Analysis Report</a></li> </ul>
<p>Oracle Access Manager 12.2.1.3 and Oracle Internet Directory 12.2.1.3</p>	<p>The JD Edwards EnterpriseOne Security Administration guide has been updated with a new chapter that explains how to set up single sign-on through Oracle Access Management (OAM) 12c.</p> <p>The JD Edwards EnterpriseOne Interface Services Server Reference guide has</p>	<p>See the following topics in the <i>JD Edwards EnterpriseOne Tools Security Administration Guide</i> :</p> <ul style="list-style-type: none"> <li>• <a href="#">Setting Up JD Edwards EnterpriseOne Single Sign-</a></li> </ul>

Feature	Description	Documentation
	been updated with information on how to configure the OAuth 2.0 resource servers with OAM 12c.	<p><i>On Through Oracle Access Management 12c</i></p> <ul style="list-style-type: none"> <li>• <i>Setting Up EnterpriseOne for Single Sign-On Integration with OAM</i></li> </ul> <p>See the following topic in the <i>JD Edwards EnterpriseOne Application Interface Services Server Reference Guide</i> :</p> <ul style="list-style-type: none"> <li>• <i>Configuring OAuth 2.0 Resource Servers with OAM 12c</i></li> </ul>

## Documentation Updates for EnterpriseOne Tools 9.2.3.4

The following table contains links to documentation updates in support of EnterpriseOne Tools 9.2.3.4:

Feature	Description	Documentation
Form Extensibility: Mapping Orchestration Output Parameters to Form Controls	When associating orchestrations with the events on an EnterpriseOne form by using the form extensibility framework, you can map the orchestration output parameters to the form controls.	<p>See the following topic in the <i>JD Edwards EnterpriseOne Tools Report Printing Administration Technologies Guide</i> :</p> <ul style="list-style-type: none"> <li>• <i>Extending EnterpriseOne Forms by Associating Orchestrations with Events</i></li> </ul>
Orchestration for System Administration	The JD Edwards EnterpriseOne Orchestrator Studio can be used for JD Edwards System Administration. System administrators can call the Server Manager REST services from the Orchestrator Studio to automate the administrative tasks.	<p>See the following topics in the <i>JD Edwards EnterpriseOne Tools Orchestrator Guide for Studio Version 8 and Prior</i> :</p> <ul style="list-style-type: none"> <li>• <i>Creating Orchestrations for System Administration with Orchestrator Studio 7.3.0.0</i></li> </ul>
Scheduler Service REST Endpoints	With EnterpriseOne Tools 9.2.3.4, the REST APIs for the AIS Server include additional services for administering multiple schedulers for scheduling orchestrations and notifications.	See the following guide: <i>JD Edwards EnterpriseOne Tools REST API for the Application Interface Services Server Guide</i>
Clearing the data cache	The new REST API clearatacache can be used for clearing the data cache on the AIS and HTML Servers.	<p>See the following topic in the <i>JD Edwards EnterpriseOne Tools Server Manager Guide</i> :</p> <ul style="list-style-type: none"> <li>• <i>Clear Data Cache</i></li> </ul>

Feature	Description	Documentation
Orchestration/Notification shortcut links in JD Edwards EnterpriseOne for iPad.	With EnterpriseOne Tools 9.2.3.4, you can launch notification and orchestration links in JD Edwards EnterpriseOne for iPad.	See the following topic in the <i>JD Edwards EnterpriseOne for iPad Quick Start Guide</i> : <ul style="list-style-type: none"> <li>• <a href="#">Orchestration/Notification Shortcut Links</a></li> </ul>
Collect and Generate Diagnostics	Collect and Generate Diagnostics provides a simple interface that you use to efficiently and automatically collect diagnostic data and system information. You have the flexibility to collect just the data that pertains to a specific server.	See the following topic in the <i>JD Edwards EnterpriseOne Tools Server Manager Guide</i> : <ul style="list-style-type: none"> <li>• <a href="#">Collect and Generate Diagnostics</a></li> </ul>
Object type for Orchestration input	You can include an object as an orchestration input type, which allows you to pass a JSON object into an orchestration. You can use this input type to pass nested arrays of data by defining arrays of objects.	See the following topic in the <i>JD Edwards EnterpriseOne Tools Orchestrator Guide for Studio Version 8 and Prior</i> : <ul style="list-style-type: none"> <li>• <a href="#">Adding Inputs to an Orchestration</a></li> </ul>
Allow Input JSON Object	You can use the Allow Input JSON Object toggle to map a JSON object to the orchestration connector. This enables you to pass arrays to an orchestration that is called through a connector.	See the following topic in the <i>JD Edwards EnterpriseOne Tools Orchestrator Guide for Studio Version 8 and Prior</i> : <ul style="list-style-type: none"> <li>• <a href="#">Configuring a Connector Service Request to Invoke an Orchestration or Notification</a></li> </ul>

## Documentation Updates for EnterpriseOne Tools 9.2.4

The following table contains links to documentation updates in support of EnterpriseOne Tools 9.2.4:

Feature	Description	Documentation
Header Based Authentication	Starting with Tools Release 9.2.4, users have an option to use the Header based authentication method for requesting an AIS token and using an AIS token.	See the following topic in the <i>JD Edwards EnterpriseOne Application Interface Services Server Reference Guide</i> : <ul style="list-style-type: none"> <li>• <a href="#">Understanding AIS Authentication - Overview</a></li> </ul> See the <i>Authentication</i> topic in the <i>JD Edwards EnterpriseOne Tools REST API for the Application Interface Services Server Guide</i> .

Feature	Description	Documentation
Scheduler User Interface	<p>Starting with Tools Release 9.2.4, users have an option to designate an AIS server as a Scheduler server.</p> <p>The Scheduler user interface enables you to start, stop, and view your scheduled notifications and orchestrations. The Scheduler user interface gives you the flexibility to automatically start jobs at scheduled intervals.</p>	<p>See the following topic in the <i>JD Edwards EnterpriseOne Application Interface Services Server Reference Guide</i> :</p> <ul style="list-style-type: none"> <li>• <a href="#">Configuring AIS Server Manager Settings</a></li> </ul> <p>See the following topic in the <i>JD Edwards EnterpriseOne Tools Notifications Guide</i> :</p> <ul style="list-style-type: none"> <li>• <a href="#">Working with Scheduler</a></li> </ul>
Setting Up Color Coded Environment	<p>You can set up environments to be color coded for when you need a clear visual distinction as to which environment you are logged into.</p>	<p>See the following topic in the <i>JD Edwards EnterpriseOne Tools Foundation Guide</i></p> <ul style="list-style-type: none"> <li>• <a href="#">Adding a UDC to Color Code an Environment</a></li> </ul> <p>See the following topic in the <i>JD Edwards EnterpriseOne Tools System Administration Guide</i></p> <ul style="list-style-type: none"> <li>• <a href="#">Setting Up Color Coded Environments</a></li> </ul>
Orchestrator Studio Usability Improvements	<p>This new guide provides an overview of the new JD Edwards EnterpriseOne Orchestrator Studio version 9.2.4. This guide describes how to create orchestrations that enable the transformation of data from disparate devices into actionable business processes in JD Edwards EnterpriseOne.</p>	<p>See the following guide: <i>JD Edwards EnterpriseOne Tools Orchestrator Guide</i></p>
Orchestrator Studio Usability Improvements	<p>Added a new chapter that describes how to use the JD Edwards EnterpriseOne Orchestrator Studio version 8.</p>	<p>See the following topic in the <i>JD Edwards EnterpriseOne Tools Orchestrator Guide for Studio Version 8 and Prior</i> :</p> <ul style="list-style-type: none"> <li>• <a href="#">Creating Orchestrations with Orchestrator Studio 8</a></li> </ul>
Change Component for the Deployment Server	<p>This section discusses the changes in Server Manager to apply the Tools Release 9.2.4 including how to uplift the Deployment Server to 64-bit.</p>	<p>See the following topic in the <i>JD Edwards EnterpriseOne Tools Server Manager Guide</i> :</p> <ul style="list-style-type: none"> <li>• <a href="#">Change Component for the Deployment Server (Release 9.2.4)</a></li> </ul>
Understanding 64-bit Enablement with the Release Master	<p>Tools Release 9.2.4 and beyond presents the ability to have a 64-bit only system. The Release Master application is used to indicate a 64-bit only system.</p>	<p>See the following topic in the <i>JD Edwards EnterpriseOne Tools Package Management Guide</i> :</p>

Feature	Description	Documentation
		<ul style="list-style-type: none"> <li>• <a href="#">Understanding 64-bit Enablement with the Release Master</a></li> </ul>
Setting Up Base Form Security	You can restrict access to a base EnterpriseOne form so that users can access only the personalized forms and not the base forms.	See the following topic in the <i>JD Edwards EnterpriseOne Tools Security Administration Guide</i> : <ul style="list-style-type: none"> <li>• <a href="#">Setting Up Base Form Security</a></li> </ul>
Form Extensibility: Associating an Orchestration with Grid Events	Using form extensibility, you can associate orchestrations and notifications with grid events and map outputs to the controls in an update grid.	See the following topic in the <i>JD Edwards EnterpriseOne Tools Using and Approving User Defined Objects Guide</i> : <ul style="list-style-type: none"> <li>• <a href="#">Extending EnterpriseOne Forms by Associating Orchestrations with Events</a></li> </ul>
JD Edwards EnterpriseOne Features Not Supported	Orchestrator Studio is not supported on iPad and Android-based tablets.	See the following topic in the <i>JD Edwards EnterpriseOne for iPad Quick Start Guide</i> : <ul style="list-style-type: none"> <li>• <a href="#">JD Edwards EnterpriseOne Features Not Supported on the iPad or in JD Edwards EnterpriseOne for iPad</a></li> </ul> See the following topic in the <i>JD Edwards EnterpriseOne for Android-based Tablets Quick Start Guide</i> : <ul style="list-style-type: none"> <li>• <a href="#">JD Edwards EnterpriseOne Features Not Supported on Android-based Tablets</a></li> </ul>
New Merge Tools	Tools Release 9.2.4 and later include a compare tool for RDA and merge tools for business views and tables.	See the following topic in the <i>JD Edwards EnterpriseOne Tools Software Updates Guide</i> : <ul style="list-style-type: none"> <li>• <a href="#">Using JD Edwards Compare and Merge Tools</a></li> </ul>
Deprecate Tools Mail Merge & Document Generation functionality	Starting with Tools Release 9.2.4, Mail Merge & Document Generation functionality has been deprecated. A note is added with the list of functionalities that have been deprecated.	See the following topics in the <i>JD Edwards EnterpriseOne Tools Form Design Aid Guide</i> : <ul style="list-style-type: none"> <li>• <a href="#">A.1 System Functions</a></li> <li>• <a href="#">Mail Merge &amp; Doc Gen (Web Only)</a></li> </ul>
Introduction	Introduction is updated to included Tools Release 9.2.4.	See the following topic in the <i>JD Edwards EnterpriseOne Tools Release Upgrade Process Guide</i> : <ul style="list-style-type: none"> <li>• <a href="#">Introduction</a></li> </ul>

## Documentation Updates for EnterpriseOne Tools 9.2.4.2

The following table contains links to documentation updates in support of EnterpriseOne Tools 9.2.4.2:

Feature	Description	Documentation
Orchestrator Categories	The Category Manager enables you to add Orchestrator categories. You can attach these categories to orchestrations and the orchestration components to group orchestrations with a common purpose or business goal. You can also create the orchestrator categories on the fly using the orchestration design page and share them for reuse by other users. You can make any new category you add to your orchestration available for others to use by clicking the Share button.	See the following topic in the <i>JD Edwards EnterpriseOne Tools Orchestrator Guide</i> : <ul style="list-style-type: none"> <li>• <a href="#">Working with Categories</a></li> </ul>
Exporting by Category	The Orchestrator Studio Export tool enables you to export orchestrations belonging to a specific category. The Orchestrator Studio also gives you the option to export only the orchestrations or the orchestration along with all of the components that are associated with an orchestrator category.	See the following topic in the <i>JD Edwards EnterpriseOne Tools Orchestrator Guide</i> : <ul style="list-style-type: none"> <li>• <a href="#">Exporting by Category</a></li> </ul>

## Documentation Updates for EnterpriseOne Tools 9.2.4.3

The following table contains links to documentation updates in support of EnterpriseOne Tools 9.2.4.3:

Feature	Description	Documentation
Orchestration Debugger	The JD Edwards EnterpriseOne Orchestrator provides a way to debug your orchestrations. Debug Orchestrations is the tool that you can use to determine the state of your orchestration at any point during execution. Debug Orchestrations provides a view into an orchestration, enabling the designer to run an orchestration step-by-step and ensure that the data is correct at each step until the final orchestration output.	See the following topic in the <i>JD Edwards EnterpriseOne Tools Orchestrator Guide</i> : <ul style="list-style-type: none"> <li>• <a href="#">Debugging an Orchestration</a></li> </ul>

Feature	Description	Documentation
<p>Orchestrator - Customer Requested Improvements</p>	<p>The JD Edwards EnterpriseOne Orchestrator enables you to add local orchestrations or notifications directly as a step to an orchestration without the need for creating a connector service request.</p> <p>It also enables you to invoke a business function from an orchestration. In addition to "Groovy" and "Java", you can now select "Business Function" as the type for a Custom Request. You can pass inputs into the business function and receive outputs.</p> <p>Starting with Tools Release 9.2.3.4, the Orchestrator Studio sends notifications during the session time out. In the case of a time out, you will be automatically redirected to the Orchestrator Studio login page. This session management functionality relies on the WebSocket technology.</p>	<p>See the following topics in the <i>JD Edwards EnterpriseOne Tools Orchestrator Guide</i> :</p> <ul style="list-style-type: none"> <li>• <a href="#">Adding a Local Orchestration or Notification as a Step to an Orchestration</a></li> <li>• <a href="#">Configuring a Custom Business Function Service Request</a></li> <li>• <a href="#">WebSphere WebSocket Support Configuration</a></li> </ul>
<p>Support Long Complex case sensitive password for EnterpriseOne DB Proxy User</p>	<p>As of Tools Release 9.2.4.3, the Database Proxy User password exists on both Database and JD Edwards EnterpriseOne. This Database Proxy password is used to establish the connection between JD Edwards EnterpriseOne and the Database that contains the EnterpriseOne tables.</p> <p>The JD Edwards EnterpriseOne allows a maximum length of 40 characters for the Database Proxy User Password field.</p>	<p>See the following topics in the <i>JD Edwards EnterpriseOne Tools Security Administration Guide</i> :</p> <ul style="list-style-type: none"> <li>• <a href="#">Enabling the Long DB Proxy Password</a></li> <li>• <a href="#">Enabling the Short DB Proxy Password</a></li> <li>• <a href="#">Configuring the Enterprise Server JDE.INI File</a></li> </ul>
<p>Support Long Complex case sensitive password for EnterpriseOne DB Proxy User</p>	<p>Added information about how to map the new Business Functions.</p>	<p>See the following topic in the <i>JD Edwards EnterpriseOne Tools Auditing Administration Including 21 CFR Part 11 Administration Guide</i> :</p> <ul style="list-style-type: none"> <li>• <a href="#">Understanding Database Triggers for Audited Tables</a></li> </ul>
<p>Form Extensibility Improvements</p>	<p>Beginning with Release 9.2.4.3, the form extensibility framework enables users to hide, unhide, rename, and reset form controls.</p>	<p>See the following topic in the <i>JD Edwards EnterpriseOne Tools Using and Approving User Defined Objects Guide</i> :</p> <ul style="list-style-type: none"> <li>• <a href="#">Hiding, Unhiding, Renaming, and Resetting Form Controls</a></li> </ul>
<p>Page Composer Navigation Improvements</p>	<p>Beginning with Release 9.2.4.3, Page Composer has been enhanced to streamline navigation by enabling users to navigate EnterpriseOne menus</p>	<p>See the following topics in the <i>JD Edwards EnterpriseOne Tools Using and Approving User Defined Objects Guide</i> :</p>

Feature	Description	Documentation
	seamlessly. Users can specify personal favorites for searches and pages. The task index build can be scheduled by calling a business function using an orchestration. Corresponding UDOs can now be launched through the EnterpriseOne form content and application tiles, thereby making a page easier to use.	<ul style="list-style-type: none"> <li>• <a href="#">Adding a Menu Pane to a Composed EnterpriseOne Page</a></li> <li>• <a href="#">Menu Pane at Runtime</a></li> <li>• <a href="#">Working with Task Index Builds</a></li> </ul> See the following topic in the <i>JD Edwards EnterpriseOne Tools Foundation Guide</i> : <ul style="list-style-type: none"> <li>• <a href="#">Personalization</a></li> </ul>
JD Edwards EnterpriseOne RDA Compare	Added new compare content for RDA.	See the following topic in the <i>JD Edwards EnterpriseOne Tools Software Updates Guide</i> : <ul style="list-style-type: none"> <li>• <a href="#">JD Edwards EnterpriseOne RDA Compare</a></li> </ul>

## Documentation Updates for EnterpriseOne Tools 9.2.4.4

The following table contains links to documentation updates in support of EnterpriseOne Tools 9.2.4.4:

Feature	Description	Documentation
Printing an Orchestration	The JD Edwards EnterpriseOne Orchestrator print functionality enables you to capture your orchestrations on a standard letter page or as a PDF file. The printed document will include a summary page with the graphical representation of the orchestration flow and supplemental pages with details regarding orchestration inputs, variables, outputs, scheduling, and so on.	See the following topic in the <i>JD Edwards EnterpriseOne Tools Orchestrator Guide</i> : <ul style="list-style-type: none"> <li>• <a href="#">Printing an Orchestration</a></li> </ul>
Expanding and Collapsing the Nested Orchestration Steps	When an orchestration is included as a step within another orchestration, you can click the Expand icon to expand the included orchestrations inline. This enables you to see what the sub-orchestrations accomplish without navigating away from the parent orchestration.	See the following topic in the <i>JD Edwards EnterpriseOne Tools Orchestrator Guide</i> : <ul style="list-style-type: none"> <li>• <a href="#">Expanding and Collapsing the Nested Orchestration Steps</a></li> </ul>
Editing Orchestrations within Orchestrations	You can double-click the collapsed orchestration step or double-click the white space within the bounding box of	See the following topic in the <i>JD Edwards EnterpriseOne Tools Orchestrator Guide</i> :

Feature	Description	Documentation
	an expanded orchestration to edit the child orchestration.	<ul style="list-style-type: none"> <li>• <a href="#">Editing the Nested Orchestration Steps</a></li> </ul>
Return Orchestration Inputs in the Output	If you have inputs defined for an orchestration, you can see the Orchestration Inputs section in the Orchestration Output window. This functionality enables you to include any input value in the final output of an orchestration.	See the following topic in the <i>JD Edwards EnterpriseOne Tools Orchestrator Guide</i> : <ul style="list-style-type: none"> <li>• <a href="#">Working with Orchestration Output</a></li> </ul>
Performance Improvements	Starting with Tools Release 9.2.4.4, the Number of Threads option is displayed when you enable the Fire and Forget toggle. This option enables you to select the number of threads for an iterated step.	See the following topic in the <i>JD Edwards EnterpriseOne Tools Orchestrator Guide</i> : <ul style="list-style-type: none"> <li>• <a href="#">Configuring a Connector Service Request to Invoke an Orchestration or a Notification</a></li> </ul>
Debug Orchestration Raw Output	You can click the Raw Output button in the Last Step tab of the Debug Orchestration panel to view the complete response of the step in the JSON format.	See the following topic in the <i>JD Edwards EnterpriseOne Tools Orchestrator Guide</i> : <ul style="list-style-type: none"> <li>• <a href="#">Debug Orchestration Features</a></li> </ul>
External REST Authentication via Public Key Certificates	Authentication to an external REST service is established through X.509 public key certificates to securely integrate the EnterpriseOne Orchestrator with third-party systems and cloud services. This section describes the steps on how to use an X.509 Client Certificate while invoking an external REST call through an orchestration.	See the following topic in the <i>JD Edwards EnterpriseOne Tools Orchestrator Guide</i> : <ul style="list-style-type: none"> <li>• <a href="#">Authenticating Orchestration Through Public Key Certificates</a></li> </ul>
Queue Control for AIS Requests	<p>You can specify how you want to process an orchestration: in a single-threaded queue, in a fire-and-forget multithreaded queue, or in the default queue. Using this feature, you can have more control over the runtime processing of orchestrations.</p> <p>Starting with Tools release 9.2.4.4, you can override the queues while testing the orchestrations.</p>	See the following topics in the <i>JD Edwards EnterpriseOne Tools Orchestrator Guide</i> : <ul style="list-style-type: none"> <li>• <a href="#">Setting Up Job Queue and Scope for an Orchestration</a></li> <li>• <a href="#">Testing an Orchestration</a></li> </ul>
Grouped Arrays from CSV Files	You can designate one or more columns individually as a Header Field when you import the CSV file as an array through an FTP connector. You can designate columns of data within the CSV files as indicators of grouped data, thereby giving the flat CSV data a certain amount of structure.	See the following topics in the <i>JD Edwards EnterpriseOne Tools Orchestrator Guide</i> : <ul style="list-style-type: none"> <li>• <a href="#">Configuring an FTP Connector to Import Data from a CSV File</a></li> </ul>

Feature	Description	Documentation
		<ul style="list-style-type: none"> <li>• <a href="#">Defining the Header Field</a></li> </ul>
Process Exceptions	You can pass the exception message to the called orchestration or notification. For example, you can choose to receive a notification email that includes the exception message from the failed step.	See the following topic in the <i>JD Edwards EnterpriseOne Tools Orchestrator Guide</i> : <ul style="list-style-type: none"> <li>• <a href="#">Defining Error Handling for Orchestration Steps</a></li> </ul>
Repositioning Fields Marked as Required	You can move a required field in a personal form from one container to another container.	See the following topic in the <i>JD Edwards EnterpriseOne Tools Using and Approving User Defined Objects Guide</i> : <ul style="list-style-type: none"> <li>• <a href="#">Personal Forms</a></li> </ul>
Create Form and Row Exits with Extensibility Framework	<p>You can use the form extensibility framework to create form and row exits dynamically and then associate form interconnections with the newly created menu exits.</p> <p>The form personalization and form extensibility features have also been enhanced to support translations for renamed labels in personal forms and form extensions.</p> <p>In addition, you can use the advanced media objects functionality to select multiple attachments at one time to download or delete them.</p>	See the following topics in the <i>JD Edwards EnterpriseOne Tools Using and Approving User Defined Objects Guide</i> : <ul style="list-style-type: none"> <li>• <a href="#">Form Extensibility</a></li> <li>• <a href="#">Personal Forms</a></li> </ul> See the following topic in the <i>JD Edwards EnterpriseOne Tools Foundation Guide</i> : <ul style="list-style-type: none"> <li>• <a href="#">Advanced Media Object Attachments</a></li> </ul>

## Documentation Updates for EnterpriseOne Tools 9.2.5

The following table contains links to documentation updates in support of EnterpriseOne Tools 9.2.5:

Feature	Description	Documentation
Configurable AIS Session Initialization	Starting with Tools Release 9.2.5, you can use the Server Manager Console to configure the AIS Login On Demand setting for the HTML server. This setting ensures that the AIS session used by the HTML server is not established until it is required.	See the following topic in the <i>JD Edwards EnterpriseOne Application Interface Services Server Reference Guide</i> : <ul style="list-style-type: none"> <li>• <a href="#">Additional EnterpriseOne HTML Server Instance for Processing AIS Requests</a></li> </ul>
Allow Variables in REST File Uploads	The orchestration designer can use variables in the definition of the connector. For example, the name of a file might be represented by a variable, enabling the orchestration to dynamically determine the file that is to be uploaded.	See the following topic in the <i>JD Edwards EnterpriseOne Tools Orchestrator Guide</i> : <ul style="list-style-type: none"> <li>• <a href="#">Configuring a REST Connector to Transfer Files to a REST Service</a></li> </ul>

Feature	Description	Documentation
<p>Enhanced Configuration Between Enterprise and AIS Servers</p>	<p>Customers who deploy a single enterprise server for all the environments can now associate that enterprise server with AIS servers in multiple environments. This configurability facilitates the segregation of AIS servers across environments, such as development, test, and production, while making it possible for a single enterprise server to serve all the environments.</p>	<p>See the following topic in the <i>JD Edwards EnterpriseOne Application Interface Services Server Reference Guide</i> :</p> <ul style="list-style-type: none"> <li>• <a href="#">Configuring Multiple AIS Servers</a></li> </ul> <p>See the following topic in the <i>JD Edwards EnterpriseOne Tools Orchestrator Guide</i> :</p> <ul style="list-style-type: none"> <li>• <a href="#">Creating a Soft Coding Record for an Enterprise Server AIS Connection</a></li> </ul>
<p>Assertion Framework for Orchestrations</p>	<p>The Orchestration Assertions functionality enables you to specify the values that you expect to be produced by an orchestration and validate the data produced by an orchestration. For example, you can assert that a value is expected to be within a certain range or must match a specific numeric value.</p>	<p>See the following topic in the <i>JD Edwards EnterpriseOne Tools Orchestrator Guide</i> :</p> <ul style="list-style-type: none"> <li>• <a href="#">Working with Orchestration Assertions</a></li> </ul>
<p>Orchestrator Optimized Retrieval of Large Data Sets</p>	<p>This feature enables the Orchestrator to retrieve very large data sets, possibly thousands of rows, from the EnterpriseOne tables and pass the results in the orchestration output.</p>	<p>See the following topic in the <i>JD Edwards EnterpriseOne Tools Orchestrator Guide</i> :</p> <ul style="list-style-type: none"> <li>• <a href="#">Using Disk Caching</a></li> </ul>
<p>Improved Online Help</p>	<p>Users can use the application-level Help option on EnterpriseOne forms to search separately for EnterpriseOne documentation and UPK documentation. In addition, users can access LearnJDE, the JD Edwards resource library, from the user drop-down menu in the EnterpriseOne menu bar.</p>	<p>See the following topics in the <i>JD Edwards EnterpriseOne Tools Foundation Guide</i> :</p> <ul style="list-style-type: none"> <li>• <a href="#">Using Online Documentation</a></li> <li>• <a href="#">Resources</a></li> </ul> <p>See the following topic in the <i>JD Edwards EnterpriseOne for iPad Quick Start Guide</i> :</p> <ul style="list-style-type: none"> <li>• <a href="#">Application Button</a></li> </ul>
<p>EnterpriseOne Search Improvements</p>	<p>EnterpriseOne Search has been enhanced with the following capabilities:</p> <ul style="list-style-type: none"> <li>• Exact match search</li> <li>• Exporting search results</li> <li>• Query and personal form selection in Related Actions</li> <li>• Search capabilities for available columns in Mapping section</li> <li>• Setting special values as additional attributes for date columns</li> </ul>	<p>See the following topics in the <i>JD Edwards EnterpriseOne Tools Using and Approving User Defined Objects Guide</i> :</p> <ul style="list-style-type: none"> <li>• <a href="#">Creating Search Groups</a></li> <li>• <a href="#">Using the EnterpriseOne Search</a></li> </ul> <p>See the following topic in the <i>JD Edwards EnterpriseOne for iPad Quick Start Guide</i> :</p> <ul style="list-style-type: none"> <li>• <a href="#">JD Edwards EnterpriseOne Features Not Supported on the iPad or in JD Edwards EnterpriseOne for iPad</a></li> </ul>
<p>Form Extensibility Improvements: Adding Hidden Business View Columns to Grid and Marking Fields as Required</p>	<p>You can unhide business view grid columns that are hidden in the Form Design Aid. In addition, you can mark a field as a required field in a form extension.</p>	<p>See the following topics in the <i>JD Edwards EnterpriseOne Tools Using and Approving User Defined Objects Guide</i> :</p> <ul style="list-style-type: none"> <li>• <a href="#">Extending EnterpriseOne Forms Using Business Views</a></li> </ul>

Feature	Description	Documentation
		<ul style="list-style-type: none"> <li>• <a href="#">Creating a Form Extension Using Business Views</a></li> </ul>
IDCS with JD Edwards EnterpriseOne on Oracle Cloud Infrastructure	Adopting IDCS will provide additional choice for JD Edwards EnterpriseOne customers for their identity management needs.	<p>See the following topics in the <i>JD Edwards EnterpriseOne Tools Security Administration Guide</i> :</p> <ul style="list-style-type: none"> <li>• <a href="#">Configure OAuth Services in IDCS</a></li> <li>• <a href="#">Configure IDCS Settings for the HTML Server in Server Manager</a></li> </ul>
Development Client Simplification	<p>The 9.2.5 Tools Rollup ESU delivers new definitions for an empty copy of the Central Object tables with new OCM mappings. These are the same tables created by a package build with US (User Specs) appended to the name.</p> <p>Removal of the E1Local database modifies the component change in Server Manager.</p> <p>The E1Local database is removed from the development client in Tools Release 9.2.5.</p>	<p>See the following topic in the <i>JD Edwards EnterpriseOne Tools Server Manager Guide</i> :</p> <ul style="list-style-type: none"> <li>• <a href="#">Change Component for the Deployment Server</a></li> </ul> <p>See the following topics in the <i>JD Edwards EnterpriseOne Tools Package Management Guide</i> :</p> <ul style="list-style-type: none"> <li>• <a href="#">Assembling Packages</a></li> <li>• <a href="#">Understanding the Package Build Process</a></li> <li>• <a href="#">Appendix A - Adding a Security Override for Package Build</a></li> <li>• <a href="#">Adding a Security Override for the User Building Packages</a></li> </ul> <p>See the <i>JD Edwards EnterpriseOne Tools Object Management Workbench for the Web Guide</i></p> <p>See the following topic in the <i>JD Edwards EnterpriseOne Tools Release Upgrade Process Guide</i> :</p> <ul style="list-style-type: none"> <li>• <a href="#">Removal of E1Local Database (Tools Release 9.2.5.x)</a></li> </ul>
Long Database Password	<p>In Tools Release 9.2.5 and later you can use long database passwords. You must perform the software update process with the Security Server turned on if you are using long database passwords.</p> <p>To use the long DB proxy password during an upgrade and ESU installation, you must have the Security Server on and you must add security overrides for all data sources related to the upgrade / ESU target environment.</p>	<p>See the following topic in the <i>JD Edwards EnterpriseOne Tools Software Updates Guide</i> :</p> <ul style="list-style-type: none"> <li>• <a href="#">Preparing Environments for Update</a></li> </ul> <p>See the following topic in the <i>JD Edwards EnterpriseOne Tools Security Administration Guide</i> :</p> <ul style="list-style-type: none"> <li>• <a href="#">Change Default EnterpriseOne System User Passwords for the Database</a></li> </ul>
Virtual Batch Queues	Starting with Tools Release 9.2.5, you can add or remove servers from a batch cloud virtual host without rerouting UBEs that are waiting to be processed. By using a virtual host, you can tie multiple EnterpriseOne batch processing servers to that virtual host name. This capability simplifies scaling of EnterpriseOne batch processing.	<p>See the following topics in the <i>JD Edwards EnterpriseOne Administration Guide</i> :</p> <ul style="list-style-type: none"> <li>• <a href="#">Understanding the Work With Locations and Machines Web Program</a></li> </ul>

Feature	Description	Documentation
		<ul style="list-style-type: none"> <li><a href="#">Understanding the Work With Virtual Hosts Program</a></li> </ul>
Web Enable OMW	<p>Starting with Tools Release 9.2.5, you can define, assemble, and deploy packages on the web server. Additionally, this capability enables you to automate, schedule, and send notifications about package builds using orchestrations.</p> <p>You can use the Web Object Management Workbench program to advance or delete projects that contain non-User Defined Objects (non-UDOs).</p>	<p>See the following topics in the <i>JD Edwards EnterpriseOne Tools Package Management Guide</i> :</p> <ul style="list-style-type: none"> <li><a href="#">Package Implementation from the Web</a></li> <li><a href="#">Assembling a Package Using Web Applications</a></li> <li><a href="#">How the System Builds Packages from the Web</a></li> <li><a href="#">Building a Package from the Web</a></li> </ul> <p>See the following topics in the <i>JD Edwards EnterpriseOne Tools Object Management Workbench for the Web Guide</i> :</p> <ul style="list-style-type: none"> <li><a href="#">Advancing Projects</a></li> <li><a href="#">Deleting Projects</a></li> </ul>

## Documentation Updates for EnterpriseOne Tools 9.2.5.1

The following table contains links to documentation updates in support of EnterpriseOne Tools 9.2.5.1:

Feature	Description	Documentation
Web Enable OMW (Web Enable LCM – All Objects:Run & Maintain)	Starting with Tools Release 9.2.5.1, the gencert.cmd file can be run on the Deployment Server. This, along with the SSL INI settings, is required in order to encrypt the data that is sent between the enterprise server and the deployment server when building a web-enabled package using the deployment server.	<p>See the following topic in the <i>JD Edwards EnterpriseOne Tools Security Administration Guide</i> :</p> <ul style="list-style-type: none"> <li><a href="#">Configuring the Deployment Server JDE.INI File</a></li> </ul>

## Documentation Updates for EnterpriseOne Tools 9.2.5.2

The following table contains links to documentation updates in support of EnterpriseOne Tools 9.2.5.2:

Feature	Description	Documentation
Pass OAuth 2.0 Client ID and Secret in the Request Body of an Orchestration	This enhancement provides the orchestration designer the choice of sending the client ID and client secret in the request header or	See the following topic in the <i>JD Edwards EnterpriseOne Tools Orchestrator Guide</i> :

Feature	Description	Documentation
	<p>in the request body, as is required by some third-party systems. With this added flexibility, Orchestrator can interact securely with a broader range of third-party systems.</p>	<ul style="list-style-type: none"> <li>• <a href="#">Creating a Soft Coding Record for a REST Connection</a></li> </ul>
<p>Return REST Header Parameters as Orchestration Variables</p>	<p>Orchestrator can integrate with external REST services. Orchestration designers can parse values from the body of the response from those REST services, and pass those values to subsequent orchestration steps. This feature extends that capability to parameters that are passed through the response header instead of the body.</p>	<p>See the following topic in the <i>JD Edwards EnterpriseOne Tools Orchestrator Guide</i> :</p> <ul style="list-style-type: none"> <li>• <a href="#">Configuring a REST Connector to Invoke a REST Service</a></li> </ul>
<p>Array Variables for External REST Calls</p>	<p>The external service can return data either as simple variables, such as strings or numbers, or as an array such as a list of customer names, account numbers, and addresses. This feature enables you to map those returned arrays to orchestration variables, which can then be acted upon and iterated over by subsequent orchestration steps.</p>	<p>See the following topic in the <i>JD Edwards EnterpriseOne Tools Orchestrator Guide</i> :</p> <ul style="list-style-type: none"> <li>• <a href="#">Defining Array Outputs from Connectors</a></li> </ul>
<p>Secure Session Balancing across AIS Servers</p>	<p>This enhancement improves the scalability and fault tolerance of the EnterpriseOne architecture by facilitating a load of session requests to be shared among multiple AIS servers.</p>	<p>See the following topic in the <i>JD Edwards EnterpriseOne Application Interface Services Server Reference Guide</i> :</p> <ul style="list-style-type: none"> <li>• <a href="#">Understanding Stateless Load Balancing for the AIS Server (Tools Release 9.2.5.2)</a></li> </ul>
<p>Select Multiple Rows in a Form Request</p>	<p>You can enter a comma delimited list of row numbers such as 1,2,4 as value for Select Row. In the previous releases it was possible to pass a single row number only. You can enter the row numbers as a Default Value or pass them into the Form Request through the variable defined for the Select Row action.</p>	<p>See the following topic in the <i>JD Edwards EnterpriseOne Tools Orchestrator Guide</i> :</p> <ul style="list-style-type: none"> <li>• <a href="#">Configuring Form Request Actions</a></li> </ul>
<p>Pass a Version to a Report Service Request</p>	<p>This feature enables the orchestration designer to pass a report version into the report step dynamically as a variable. For example, for a report that has many versions, an orchestration designer can build a single report request and pass a version into that step from an orchestration input, or even from a value that is derived in a previous orchestration step. In this way, a single report step can serve to run any version of the report, giving orchestrations greater flexibility and intelligence.</p>	<p>See the following topic in the <i>JD Edwards EnterpriseOne Tools Orchestrator Guide</i> :</p> <ul style="list-style-type: none"> <li>• <a href="#">Configuring a Report Service Request</a></li> </ul>

## Documentation Updates for EnterpriseOne Tools 9.2.5.3

The following table contains links to documentation updates in support of EnterpriseOne Tools 9.2.5.3:

Feature	Description	Documentation
Form Extensibility: Associating a Description with an Edit Control	You can associate a description with a text field or an edit control on a form in a form extension.	See the following topic in the <i>JD Edwards EnterpriseOne Tools Using and Approving User Defined Objects Guide</i> : <ul style="list-style-type: none"> <li>• <a href="#">Creating a Form Extension Using Business Views</a></li> </ul>
UDO Dependencies for Orchestrations and Notifications	You can view information about dependent components for orchestrations and notifications such as orchestrations, notifications, form requests, rules, and so on.	See the following topic in the <i>JD Edwards EnterpriseOne Tools Using and Approving User Defined Objects Guide</i> : <ul style="list-style-type: none"> <li>• <a href="#">View Dependencies at Object Level</a></li> </ul>
Extension of EnterpriseOne User Session to Externally Hosted Web Applications	This enhancement improves the user experience by enabling EnterpriseOne and third-party applications to share certain data, such as session information, to provide a more integrated user experience and ensure efficient use of shared resources.	See the following topic in the <i>JD Edwards EnterpriseOne Tools Foundation Guide</i> : <ul style="list-style-type: none"> <li>• <a href="#">Understanding External Forms</a></li> </ul> See the following topic in the <i>JD Edwards EnterpriseOne Tools Form Design Aid Guide</i> : <ul style="list-style-type: none"> <li>• <a href="#">Understanding External Forms</a></li> </ul>
Enhanced Browser Support for Media Objects	With this enhancement, you can now preview the text media objects in a new browser, find and replace the existing content in a text attachment, and copy text from Microsoft Word, Microsoft Excel, and Google Docs and paste it in a text attachment. You can also create and edit tables in the text attachment.	See the following topic in the <i>JD Edwards EnterpriseOne Tools Foundation Guide</i> : <ul style="list-style-type: none"> <li>• <a href="#">Previewing Text Media Objects</a></li> </ul>

## Documentation Updates for EnterpriseOne Tools 9.2.5.4

The following table contains links to documentation updates in support of EnterpriseOne Tools 9.2.5.4:

Feature	Description	Documentation
Enhanced User Experience Using JavaScript Applications in External Forms	For JavaScript applications hosted in external forms, new JavaScript variables are available. You can use the new variables to enable the JET page to consume the application version and the processing options for the external application. In addition, new APIs are available	See the following topics in the <i>JD Edwards EnterpriseOne Tools UX One Deployment and Development Guide</i> :

Feature	Description	Documentation
	for saving, modifying, and clearing the user's session state in the browser session storage.	<ul style="list-style-type: none"> <li>• <a href="#">Session State APIs in JET or JavaScript Pages (Release 9.2.5.4)</a></li> <li>• <a href="#">Consuming Application Version and Processing Options from External Forms (Release 9.2.5.4)</a></li> </ul> See the following topic in the <i>JD Edwards EnterpriseOne Tools Foundation Guide</i> : <ul style="list-style-type: none"> <li>• <a href="#">Soft Coding Reference (Release 9.2.5.3)</a></li> </ul>
Enhanced Browser Support for Grid Import and Export	In EnterpriseOne, users can export all the records from a grid and import records from an external spreadsheet into a grid. With this enhancement, you can enable this feature in a non-ActiveX mode in the Google Chrome, Edge Chromium, Firefox, Internet Explorer, and Safari browsers.	See the following topic in the <i>JD Edwards EnterpriseOne Tools Foundation Guide</i> : <ul style="list-style-type: none"> <li>• <a href="#">Exporting All Records from a Grid</a></li> </ul>
Create an Orchestration with a Single Click	You can now create an orchestration for a single orchestration component simply by selecting the option Create Orchestration from a drop-down menu.	See the following topic in the <i>JD Edwards EnterpriseOne Tools Orchestrator Guide</i> : <ul style="list-style-type: none"> <li>• <a href="#">Creating a Component</a></li> </ul>
Orchestrator: Continuation for Steps that Generate Warnings	This enhancement enables you to control the processing on certain EnterpriseOne applications for steps that generate warnings that require a double acknowledgement for the step to proceed.	See the following topic in the <i>JD Edwards EnterpriseOne Tools Orchestrator Guide</i> : <ul style="list-style-type: none"> <li>• <a href="#">Loading EnterpriseOne Application Form Fields and Controls</a></li> </ul>
User-defined Orchestration Response Message	You can customize messages to display success information, warning, error conditions, and choose to display additional information in the orchestration response.	See the following topic in the <i>JD Edwards EnterpriseOne Tools Orchestrator Guide</i> : <ul style="list-style-type: none"> <li>• <a href="#">Defining Orchestration Response Messages</a></li> </ul>
End-User Authentication Through JSON Web Token	This enhancement enables secure authentication of a user to the EnterpriseOne web client and Orchestrator Studio through a JSON web token (JWT).	See the following topic in the <i>JD Edwards EnterpriseOne Tools Security Administration Guide</i> : <ul style="list-style-type: none"> <li>• <a href="#">Accessing the Web Client with JSON Web Tokens</a></li> </ul>
Extensible Scripting Framework	Starting with Tools Release 9.2.5.4, orchestrations support JRuby and Jython as additional scripting languages along with Groovy.	See the following topic in the <i>JD Edwards EnterpriseOne Tools Orchestrator Guide</i> : <ul style="list-style-type: none"> <li>• <a href="#">Installing Optional Scripting Languages on the AIS Server</a></li> </ul>
Include Empty Query Values	You can enable the Include Empty Query Values option to include the empty values in the query when the data request runs.	See the following topics in the <i>JD Edwards EnterpriseOne Tools Orchestrator Guide</i> : <ul style="list-style-type: none"> <li>• <a href="#">Configuring a Data Request to Return Field Data</a></li> <li>• <a href="#">Configuring a Data Request with Data Aggregation</a></li> </ul>

Feature	Description	Documentation
Rows Only Option	You can enable the Rows Only option for the arrays to further simplify the output. If you enable this option, only the rows in the array are included in the output.	See the following topic in the <i>JD Edwards EnterpriseOne Tools Orchestrator Guide</i> : <ul style="list-style-type: none"> <li>• <a href="#">Mapping Orchestration Outputs</a></li> </ul>

## Documentation Updates for EnterpriseOne Tools 9.2.6

The following table contains links to documentation updates in support of EnterpriseOne Tools 9.2.6:

Feature	Description	Documentation
Form Extension Improvements	This feature enables users to disable an extended form control, enable a grid column, identify the label associated with a hidden text field, set the number of grid records, and associate a description with a grid column.	See the following topic in the <i>JD Edwards EnterpriseOne Tools Using and Approving User Defined Objects Guide</i> : <ul style="list-style-type: none"> <li>• <a href="#">Creating a Form Extension Using Business Views</a></li> </ul>
Launch Orchestration from Composed EnterpriseOne Page	This feature enables users to run orchestrations and notifications from a Composed EnterpriseOne page.	See the following topics in the <i>JD Edwards EnterpriseOne Tools Using and Approving User Defined Objects Guide</i> : <ul style="list-style-type: none"> <li>• <a href="#">Adding and Configuring a Component in Designer Pane</a></li> <li>• <a href="#">Configuring an Orchestration or Notification Component (Release 9.2.6)</a></li> <li>• <a href="#">Running Orchestration and Notifications from Designer Pane (Release 9.2.6)</a></li> </ul> See the following topic in the <i>JD Edwards EnterpriseOne Tools Orchestrator Guide</i> : <ul style="list-style-type: none"> <li>• <a href="#">Invoking Orchestration and Notifications from a Composed EnterpriseOne Page</a></li> </ul>
Creating External Forms from EnterpriseOne Web Client	This feature enables users to create external form application objects in Web Object Management Workbench.	See the following topic in the <i>JD Edwards EnterpriseOne Tools Form Design Aid Guide</i> : <ul style="list-style-type: none"> <li>• <a href="#">Creating External Forms from EnterpriseOne Web Client (Release 9.2.6)</a></li> </ul> See the following topic in the <i>JD Edwards EnterpriseOne Tools Object Management Workbench for the Web Guide</i> : <ul style="list-style-type: none"> <li>• <a href="#">Creating Objects</a></li> </ul>
Offline Server Manager Monitoring and Notification	Starting with Tools Release 9.2.6, system administrators can automate system administration tasks by using administrative orchestrations even when the core EnterpriseOne servers are down.	See the following topics in the <i>JD Edwards EnterpriseOne Tools Server Manager Guide</i> :

Feature	Description	Documentation
		<ul style="list-style-type: none"> <li>• <a href="#">Simplification and Automation of System Administration Tasks by Using Orchestrations (Release 9.2.6)</a></li> <li>• <a href="#">Manage System Administration Tasks by Using Administrative Orchestrations (Release 9.2.6)</a></li> </ul>
Pop-up Messages for Orchestrations Launched from the EnterpriseOne User Interface	This enhancement enables users to specify a response message that is displayed to the end user when an orchestration is launched from the EnterpriseOne user interface.	See the following topic in the <i>JD Edwards EnterpriseOne Tools Using and Approving User Defined Objects Guide</i> : <ul style="list-style-type: none"> <li>• <a href="#">Associating Orchestrations with Events</a></li> </ul>
Orchestrator Support for Media Objects	Using Attachments in the Orchestrator Studio, you can automate EnterpriseOne transactions and include the options to manage text attachments, and upload or download file attachments (media objects) in transactions.	See the following topic in the <i>JD Edwards EnterpriseOne Tools Orchestrator Guide</i> : <ul style="list-style-type: none"> <li>• <a href="#">Creating Attachments (Release 9.2.6)</a></li> </ul>
Managing Media Object Security	Media object services security was added in Tools Release 9.2.6 and it enables users to configure security for AIS media object attachment services; both REST services and the orchestrator attachment steps.	See the following topic in the <i>JD Edwards EnterpriseOne Tools Orchestrator Guide</i> : <ul style="list-style-type: none"> <li>• <a href="#">Managing Media Object Security</a></li> </ul>
Logic Extensions	Using logic extensions, you can create business logic to perform operations such as string manipulation, arithmetic calculations, conditions, loops, and even table I/O.	See the following topic in the <i>JD Edwards EnterpriseOne Tools Orchestrator Guide</i> : <ul style="list-style-type: none"> <li>• <a href="#">Creating Logic Extensions (Release 9.2.6)</a></li> </ul>
Attachments to Messages: Media Objects	This feature enables the orchestration or notification designer to specify the JD Edwards media objects that can be attached to the orchestration and notification messages.	See the following topic in the <i>JD Edwards EnterpriseOne Tools Orchestrator Guide</i> : <ul style="list-style-type: none"> <li>• <a href="#">Configuring a Message Request</a></li> </ul> See the following topic in the <i>JD Edwards EnterpriseOne Tools Notifications Guide</i> : <ul style="list-style-type: none"> <li>• <a href="#">Defining the Notification Message</a></li> </ul>
Return Associated Descriptions for Data Requests	This enhancement enables the orchestration designer to retrieve the associated descriptions of data items easily from a data request.	See the following topics in the <i>JD Edwards EnterpriseOne Tools Orchestrator Guide</i> : <ul style="list-style-type: none"> <li>• <a href="#">Configuring a Data Request to Return Field Data</a></li> <li>• <a href="#">Configuring a Data Request with Data Aggregation</a></li> </ul>
Files as Orchestration Input and Output	This enhancement expands the capabilities of Orchestrator by allowing files as orchestration input and output. A file or files can be provided directly as orchestration input by including them in a multi-part form data REST call from the system that is invoking the orchestration. The data that is collected or generated as part of an orchestration, and subsequently is written	See the following topics in the <i>JD Edwards EnterpriseOne Tools Orchestrator Guide</i> : <ul style="list-style-type: none"> <li>• <a href="#">Defining Files as Orchestration Input</a></li> <li>• <a href="#">Defining Files as Orchestration Output</a></li> </ul>

Feature	Description	Documentation
	as file(s) in the AIS server temporary directory, can be included in the orchestration output.	
Bypass Warnings During Process Recording	This feature enables the user to bypass warnings that application forms show while Process Recorder is used.	See the following topic in the <i>JD Edwards EnterpriseOne Tools Orchestrator Guide</i> : <ul style="list-style-type: none"> <li>• <a href="#">Using the Process Recorder to Create a Form Request</a></li> </ul>
Removal of Groovy from the EnterpriseOne package	Starting with Tools Release 9.2.6, the AIS Server is no longer preconfigured to create and run Groovy scripts. To edit or run existing Groovy scripts or to create new ones you must first configure the AIS servers with the Groovy libraries. This is also true for Jython. The AIS servers are preconfigured for JRuby.	See the following topic in the <i>JD Edwards EnterpriseOne Tools Orchestrator Guide</i> : <ul style="list-style-type: none"> <li>• <a href="#">Installing Optional Scripting Languages on the AIS Server</a></li> </ul> See the following topic in the <i>JD Edwards EnterpriseOne Tools Server Manager Guide</i> : <ul style="list-style-type: none"> <li>• <a href="#">Configure the Scripting Libraries</a></li> </ul>
Add Current Environment as a System Value in Orchestrations	This enhancement adds the EnterpriseOne runtime environment to the list of system values that are available to an orchestration.	See the following topic in the <i>JD Edwards EnterpriseOne Tools Orchestrator Guide</i> : <ul style="list-style-type: none"> <li>• <a href="#">Adding Inputs to an Orchestration</a></li> </ul>
Service-only User	This enhancement allows the security administrator to designate that a user can invoke an EnterpriseOne application functionality indirectly, for example through an orchestration, but cannot sign on to the EnterpriseOne user interface directly.	See the following topic in the <i>JD Edwards EnterpriseOne Tools Security Administration Guide</i> : <ul style="list-style-type: none"> <li>• <a href="#">Assigning Standard, Simplified, and Service-only Modes to User Profiles</a></li> </ul>
Display Messages in Orchestrator Monitor	This enhancement provides information on Orchestration processing status by displaying Orchestration errors and warnings. Additionally, users can see the custom message configured in Orchestrator Studio.	See the following topic in the <i>JD Edwards EnterpriseOne Tools Orchestrator Guide</i> : <ul style="list-style-type: none"> <li>• <a href="#">Reviewing Detailed Exception Information in the List View</a></li> </ul>
Health Check API for a Group of Interdependent Servers	This enhancement enables the health status of an interdependent group of servers to be validated through a single API call.	See the following topic in the <i>JD Edwards EnterpriseOne Tools Server Manager Guide</i> : <ul style="list-style-type: none"> <li>• <a href="#">Understanding Pod Health Check (Release 9.2.6)</a></li> </ul>
Enhanced User Security Activity Tracking for Auditing	Starting with Tools Release 9.2.6, the enhanced security history application provides additional user-level details such as client hostname, environment, pathcode, role, long user ID, applications release, and tools release. You can also view, analyze, and report user activity by using the UXOne graphs based on the data captured. These graphs help in providing better input to the security audit process and helps in troubleshooting security	See the following topic in the <i>JD Edwards EnterpriseOne Tools Security Administration Guide</i> : <ul style="list-style-type: none"> <li>• <a href="#">Tracking User Activity</a></li> </ul> See the following topic in the <i>JD Edwards EnterpriseOne Applications UX One Roles User Guide</i> : <ul style="list-style-type: none"> <li>• <a href="#">System Administrator Roles: System Administrator</a></li> </ul>

Feature	Description	Documentation
Export E1 Search Results to Microsoft Excel	With this enhancement, we provide users the ability to export E1 search results to Microsoft Excel.	See the following topic in the <i>JD Edwards EnterpriseOne Tools Using and Approving User Defined Objects Guide</i> : <ul style="list-style-type: none"> <li>• <a href="#">Using the EnterpriseOne Search</a></li> </ul>
Bypass Printer Selection Prompt	Starting with Tools Release 9.2.6, users can bypass the printer selection prompt while submitting jobs through batch versions. This enhancement streamlines UBE submissions by providing the choice to make printer selection an optional step	See the following topic in the <i>JD Edwards EnterpriseOne Tools Report Printing Administration Technologies Guide</i> : <ul style="list-style-type: none"> <li>• <a href="#">Bypass Printer Selection at Runtime (Release 9.2.6)</a></li> </ul>
Define Default Report Logging	Starting with Tools Release 9.2.6, you can change the default report logging level and set the UBE logging level for specific users, roles, versions, environments, and reports. You would not have to remember to enable logging at every UBE launch.	See the following topic in the <i>JD Edwards EnterpriseOne Administration Guide</i> : <ul style="list-style-type: none"> <li>• <a href="#">Defining Default Logging Levels for Jobs (Release 9.2.6)</a></li> </ul>
Define Default Job Queue	Starting with Tools Release 9.2.6, you can define default job queues for UBEs. This enhancement simplifies UBE queue management by enabling customers to easily define the relationship between a UBE version and the default queue in which it will run, a process previously performed during UBE submissions.	See the following topic in the <i>JD Edwards EnterpriseOne Administration Guide</i> : <ul style="list-style-type: none"> <li>• <a href="#">Defining and Using Default Job Queues (Release 9.2.6)</a></li> </ul>
Updated Status of Terminated Jobs	Starting with Tools Release 9.2.6, the status of terminated jobs moves to T, Terminated. Prior to this, the terminated jobs would move to status E, Error. This enhancement helps to distinguish the jobs terminated by the users from the jobs that ended in error. This enhancement further eases the troubleshooting process by saving the appropriate UBE termination statuses in the log files as well as in the Work with Submitted Jobs applications.	See the following topic in the <i>JD Edwards EnterpriseOne Administration Guide</i> : <ul style="list-style-type: none"> <li>• <a href="#">Terminating Jobs (Release 9.2.6)</a></li> </ul>
Next-Generation Workflows	Starting with Tools Release 9.2.6, you can use Workflows to design and configure the workflow process. Workflows is a web-based user interface that you can launch from the Orchestrator Studio. This enhancement removes the dependency on the development client to design and modify workflow processes.	See the following topics in the <i>JD Edwards EnterpriseOne Tools Workflow Tools Guide</i> : <ul style="list-style-type: none"> <li>• <a href="#">JD Edwards EnterpriseOne Workflow Overview</a></li> <li>• <a href="#">Understanding How to Create a JD Edwards EnterpriseOne Workflow Process (Release 9.2.6)</a></li> <li>• <a href="#">Designing a JD Edwards Workflow Process in Orchestrator Studio Workflows (Release 9.2.6)</a></li> <li>• <a href="#">Activating or Deactivating a JD Edwards EnterpriseOne Workflow Process Version</a></li> </ul>
JD Edwards Update Manager for Applications	With Tools Release 9.2.6, you can summarize, analyze, and set special instructions for	See the following topics in the <i>JD Edwards EnterpriseOne Tools Software Updates Guide</i> :

Feature	Description	Documentation
	<p>selected packages using Change Assistant. You can also enter the bug number in the First-In field to view the details of where the bug was first deployed. With this enhancement, you can copy an object from a base object and customize it as according to your requirements instead of creating an object from start.</p>	<ul style="list-style-type: none"> <li>• <a href="#">Special Instructions (Release 9.2.6)</a></li> <li>• <a href="#">Working with Software Update - Web (Release 9.2.6)</a></li> </ul> <p>See the following topic in the <i>JD Edwards EnterpriseOne Tools Object Management Workbench Guide</i> :</p> <ul style="list-style-type: none"> <li>• <a href="#">Copying Objects (Release 9.2.6)</a></li> </ul>
<p>Zero Downtime Deployment for Applications</p>	<p>With Tools Release 9.2.6, you can deploy packages with zero downtime. With Zero Downtime Package Deployment, customers can deploy full packages to the EnterpriseOne Enterprise and Web Servers without requiring to obtain a lock on services. After the new full package is deployed, any existing user sessions and jobs (UBEs) will continue to run off the previous package until their session completes, retaining the previous package specifications and logic. Any new user session or jobs that start after the package deployment, will run in the environment under the new package specifications and logic.</p>	<p>See the following topics in the <i>JD Edwards EnterpriseOne Tools REST API for Server Manager Guide</i> :</p> <ul style="list-style-type: none"> <li>• <a href="#">useractivitypkg (Release 9.2.6)</a></li> <li>• <a href="#">changecomponent64 (Release 9.2.6)</a></li> </ul> <p>See the following topic in the <i>JD Edwards EnterpriseOne Tools Server Manager Guide</i> :</p> <ul style="list-style-type: none"> <li>• <a href="#">Search for User Resources</a></li> </ul> <p>See the following topic in the <i>JD Edwards EnterpriseOne Tools Package Management Guide</i> :</p> <ul style="list-style-type: none"> <li>• <a href="#">Action Taken on the JAS Server (Tools Release 9.2.6.0)</a></li> </ul>
<p>Setting Up OAM SSO Validation for JD EdwardsEnterpriseOne (9.2.6)</p>	<p>This section explains how to set up the SSO token in OAM for JD Edwards EnterpriseOne.</p>	<p>See the following topic in the <i>JD Edwards EnterpriseOne Tools Security Administration Guide</i> :</p> <ul style="list-style-type: none"> <li>• <a href="#">Setting Up OAM SSO Validation for JD EdwardsEnterpriseOne</a></li> </ul>
<p>Replace Castor with JAXB</p>	<p>Added these .jar files for Tools Release 9.2.6 and greater:</p> <ul style="list-style-type: none"> <li>• jakarta.activation.jar (Tools Releases 9.2.6 and greater)</li> <li>• jakarta.xml.bind-api.jar (Tools Releases 9.2.6 and greater)</li> <li>• jaxb-core.jar (Tools Releases 9.2.6 and greater)</li> <li>• jaxb-impl.jar (Tools Releases 9.2.6 and greater)</li> </ul>	<p>See the following topic in the <i>JD Edwards EnterpriseOne Tools BI Publisher for JD Edwards EnterpriseOne Guide</i> :</p> <ul style="list-style-type: none"> <li>• <a href="#">Installing the JD Edwards EnterpriseOne Data Access Driver</a></li> </ul> <p>See the following topic in the <i>JD Edwards EnterpriseOne Tools Connectors Guide</i> :</p> <ul style="list-style-type: none"> <li>• <a href="#">Understanding jdeinterop ini File for COM Connector</a></li> </ul>
<p>AIS REST APIs to Discover Objects and Execute Business Functions</p>	<p>This feature provides two REST APIs on the Application Interface Services (AIS) server: one API to retrieve lists of EnterpriseOne objects, such as programs, reports, and tables; and another API to list and optionally to execute EnterpriseOne business functions.</p>	<p>See the <i>JD Edwards EnterpriseOne Tools REST API for the Application Interface Services Server Guide</i>.</p>

## Documentation Updates for EnterpriseOne Tools 9.2.6.2

The following table contains links to documentation updates in support of EnterpriseOne Tools 9.2.6.2:

Feature	Description	Documentation
Grid Format in Modal Forms	The ability to customize the grid in modal forms accessed using a visual assist has been enabled. The JD Edwards EnterpriseOne Tools Using and Approving User Defined Objects Guide has been updated to include this information.	See the following topic in the <i>JD Edwards EnterpriseOne Tools Using and Approving User Defined Objects Guide</i> : <ul style="list-style-type: none"> <li><a href="#">Understanding Grid Formats</a></li> </ul>
API to Manage Files in the AIS Root Temporary Directory	This feature provides the orchestration designer with an API to access files that are stored on the AIS server's root temporary directory.	See the following topic in the <i>JD Edwards EnterpriseOne Tools Orchestrator Guide</i> : <ul style="list-style-type: none"> <li><a href="#">Additional Attributes and Methods Available in the Groovy Script Templates</a></li> </ul>
Manage File Output from REST Responses	This feature enables orchestrations to accept files from the response from external REST calls.	See the following topic in the <i>JD Edwards EnterpriseOne Tools Orchestrator Guide</i> : <ul style="list-style-type: none"> <li><a href="#">Configuring a REST Connector to Invoke a REST Service</a></li> </ul>
Ability To Define Assertions for All Rows in a Grid	This feature enables you to define an assertion criteria that is used to evaluate all the rows returned from a step, even if the number of rows is unknown or variable.	See the following topic in the <i>JD Edwards EnterpriseOne Tools Orchestrator Guide</i> : <ul style="list-style-type: none"> <li><a href="#">Working with Orchestration Assertions</a></li> </ul>
Exclude the Summary Row from a Form Request Response	This feature gives you control over whether to include the summary row of a grid as part of the output of a form request.	See the following topic in the <i>JD Edwards EnterpriseOne Tools Orchestrator Guide</i> : <ul style="list-style-type: none"> <li><a href="#">Loading EnterpriseOne Application Form Fields and Controls</a></li> </ul>
Default Values for Array Inputs to an Orchestration	This feature enables you to specify default values for orchestration inputs that are in an array.	See the following topic in the <i>JD Edwards EnterpriseOne Tools Orchestrator Guide</i> : <ul style="list-style-type: none"> <li><a href="#">Adding Inputs to an Orchestration</a></li> <li><a href="#">Testing an Orchestration</a></li> </ul>

## Documentation Updates for EnterpriseOne Tools 9.2.6.3

The following table contains links to documentation updates in support of EnterpriseOne Tools 9.2.6.3:

Feature	Description	Documentation
Adoption of Oracle Analytics Server 5.9 for CafeOne and Composite Pages	Oracle Business Intelligence is being rebranded and repackaged as Oracle Analytics Server 5.9 with better functionalities and therefore it is important to adopt OAS 5.9. For CafeOne and Composite Pages, JD Edwards currently supports OBIEEE 11.1.1.7 and 7.9.6.3, which have become out of support from December 2018 and May 2014, respectively. OAS 5.9 has been already adopted for OVR and DAD components in Release 22 and it is important to bring CafeOne and Composite Pages also to the same level of OAS version.	See the following topic in the <i>JD Edwards EnterpriseOne Tools Composite Application Framework (CafeOne) User's Guide</i> : <ul style="list-style-type: none"> <li>• <a href="#">Understanding Oracle Analytics Server</a></li> </ul>
Capability to Export Grid Data to an Excel Macro File Extension Type .XLSM	Customers have built business processes that include the ability to easily import and export EnterpriseOne grid data from the JD Edwards application to Microsoft Excel across the browsers supported by JD Edwards. This enhancement provides customers with the capabilities to export grid data to an Excel macro file (XLSM extension) in addition to the existing support for XLSX and XLS extensions.	See the following topic in the <i>JD Edwards EnterpriseOne Tools Foundation Guide</i> : <ul style="list-style-type: none"> <li>• <a href="#">Exporting All Records from a Grid</a></li> </ul>
QR Code Enablement for EnterpriseOne BI Publisher Reports	JD Edwards customers can now have easy access to online information through the digital camera on a smartphone or a tablet with the enablement of QR(Quick Response) codes in EnterpriseOne embedded BI publisher reports. This opens several opportunities for customers to improve their efficiency by automating the process of invoicing and payments by enabling a wider usage of computerized invoicing programs and supporting paperless transactions.	See the following topics in the <i>JD Edwards EnterpriseOne Tools BI Publisher for JD Edwards EnterpriseOne Guide</i> : <ul style="list-style-type: none"> <li>• <a href="#">Enabling the QR Code to the PDF Output (Release 9.2.6.3)</a></li> <li>• <a href="#">Mapping the QR Code in your RTF Template</a></li> <li>• <a href="#">Generating QR-Coded PDF Output</a></li> </ul>
Rich Formatting of Messages	This enhancement enables you to create a message body that includes rich formatting of the text, such as the designer's choice of typefaces, emphasis, and colors. You can create layouts for messages that include links and images that are interspersed with text. The recipients then experience messages that are as visually appealing as they are effective.	See the following topic in the <i>JD Edwards EnterpriseOne Tools Orchestrator Guide</i> : <ul style="list-style-type: none"> <li>• <a href="#">Configuring a Message Request</a></li> </ul> See the following topic in the <i>JD Edwards EnterpriseOne Tools Notifications Guide</i> : <ul style="list-style-type: none"> <li>• <a href="#">Defining the Notification Message</a></li> </ul>
Accept Null as a Criteria for a Rule	This feature enhances Orchestrator rules to be able to evaluate "null" as a criteria.	See the following topics in the <i>JD Edwards EnterpriseOne Tools Orchestrator Guide</i> : <ul style="list-style-type: none"> <li>• <a href="#">Adding Inputs to an Orchestration</a></li> <li>• <a href="#">Mapping Orchestration Inputs</a></li> <li>• <a href="#">Configuring the Order of Execution</a></li> <li>• <a href="#">Creating a Rule</a></li> <li>• <a href="#">Defining Error Handling for Orchestration Steps</a></li> </ul>

Feature	Description	Documentation
Manage Report Output in Orchestrations	You can use an orchestration to run a report (or to locate an existing report) and save the output files during the orchestration execution. The report output files can then be delivered in the response of the orchestration itself.	See the following topic in the <i>JD Edwards EnterpriseOne Tools Orchestrator Guide</i> : <ul style="list-style-type: none"> <li><a href="#">Configuring a Report Service Request</a></li> </ul>
Logic Extensions Diagnostics	This feature provides a diagnostic tool that gives you the visibility into the values of variables and the execution path while a logic extension is executing.	See the following topic in the <i>JD Edwards EnterpriseOne Tools Orchestrator Guide</i> : <ul style="list-style-type: none"> <li><a href="#">Testing the Logic Extension Using the Diagnostic Mode</a></li> </ul>
Logic Extensions: Business Function Support	This feature enables you to create logic extensions that call EnterpriseOne business functions.	See the following topics in the <i>JD Edwards EnterpriseOne Tools Orchestrator Guide</i> : <ul style="list-style-type: none"> <li><a href="#">Adding a Report (Release 9.2.6.3)</a></li> <li><a href="#">Adding a Business Function (Release 9.2.6.3)</a></li> </ul>

## Documentation Updates for EnterpriseOne Tools 9.2.6.4

The following table contains links to documentation updates in support of EnterpriseOne Tools 9.2.6.4:

Feature	Description	Documentation
Creation and Deletion of Workflows from the Orchestrator Studio	Starting with Tools Release 9.2.6.4, you can create and delete a workflow process from the Orchestrator Studio. This capability eliminates the dependency on the development client to create and delete workflow objects.	See the following topics in the <i>JD Edwards EnterpriseOne Tools Workflow Tools Guide</i> : <ul style="list-style-type: none"> <li><a href="#">Creating a JD Edwards EnterpriseOne Workflow Process in Orchestrator Studio Workflows (Release 9.2.6.4)</a></li> <li><a href="#">Deleting a JD Edwards EnterpriseOne Workflow Process in Orchestrator Studio Workflows (Release 9.2.6.4)</a></li> <li><a href="#">Using Save As Option in Orchestrator Studio Workflows (Release 9.2.6.4)</a></li> </ul>
Enhanced Workflow Specifications Portability	You can export and save the workflow specifications as a compressed file which can be easily imported in different environments. This capability eliminates the dependency on the Windows development client for managing the workflow by enabling easy portability of workflow specifications.	See the following topic in the <i>JD Edwards EnterpriseOne Tools Workflow Tools Guide</i> : <ul style="list-style-type: none"> <li><a href="#">Understanding How to Export or Import a JD Edwards EnterpriseOne Workflow Process (Release 9.2.6.4)</a></li> </ul>
Improved Layout for Workflows	The Orchestrator Studio has been enhanced to save the layout of workflows in a more precise way. This enhancement eliminates the time and effort of the workflow designer in realigning	See the following topic in the <i>JD Edwards EnterpriseOne Tools Workflow Tools Guide</i> :

Feature	Description	Documentation
	<p>the individual components of a workflow every time when it is saved and reopened. Moreover, it optimizes the workflow design process by minimizing the effort in realigning the components of the workflow.</p>	<ul style="list-style-type: none"> <li>• <a href="#">Understanding How to Align Tasks in Orchestrator Studio Workflows (Release 9.2.6.4)</a></li> </ul>
<p>Array Inputs for Orchestrations Launched from an EnterpriseOne Composed Page</p>	<p>The JD Edwards Extensibility Framework provides many ways to extend and augment the EnterpriseOne system. One such extension is the ability to launch an orchestration from an EnterpriseOne Composed Page. This feature enhances the capabilities of Composed Pages by enabling the user to provide arrays in addition to single values as inputs to an orchestration.</p>	<p>See the following topics in the <i>JD Edwards EnterpriseOne Tools Using and Approving User Defined Objects Guide</i> :</p> <ul style="list-style-type: none"> <li>• <a href="#">Configuring an Orchestration or Notification Component (Release 9.2.6)</a></li> <li>• <a href="#">Running Orchestrations and Notifications from Designer Pane (Release 9.2.6)</a></li> </ul>
<p>Free-Form Input for Orchestrations Launched from Form Extensions</p>	<p>The Extensibility Framework enables users to launch an orchestration from an event on a form extension to extend the application functionality. The business analyst can map the data on the form as inputs to the orchestration. This feature enables the orchestration designer to provide input to the orchestration that is not on the form, thereby enabling the designer to address a wider range of process automation scenarios.</p>	<p>See the following topic in the <i>JD Edwards EnterpriseOne Tools Using and Approving User Defined Objects Guide</i> :</p> <ul style="list-style-type: none"> <li>• <a href="#">Associating Orchestrations with Events</a></li> </ul>
<p>Start a Workflow Process from a Logic Extension</p>	<p>This feature enhances the capabilities of logic extensions by allowing them to start an EnterpriseOne workflow.</p>	<p>See the following topic in the <i>JD Edwards EnterpriseOne Tools Orchestrator Guide</i> :</p> <ul style="list-style-type: none"> <li>• <a href="#">Adding a Workflow (Release 9.2.6.4)</a></li> </ul>
<p>Environment Properties for Orchestrations</p>	<p>Starting with Tools Release 9.2.6.4, you can use orchestrations to access environment properties configured in the F951000 table using the P951000 (Business Service Property) application.</p>	<p>See the following topic in the <i>JD Edwards EnterpriseOne Tools Orchestrator Guide</i> :</p> <ul style="list-style-type: none"> <li>• <a href="#">Using Environment Properties in Orchestrations</a></li> </ul> <p>See the following topic in the <i>JD Edwards EnterpriseOne Tools Business Services Development Guide</i> :</p> <ul style="list-style-type: none"> <li>• <a href="#">Adding a Business Service Property Record</a></li> </ul>
<p>Orchestrator Multipart REST Connector without File Attachments</p>	<p>Starting with Tools Release 9.2.6.4, when you configure a REST connector to invoke a REST service, you can select the File Upload option to configure files as input to the REST service in addition to any text-based input to the request or you can select the Multipart option to allow for multipart request without sending a file.</p>	<p>See the following topic in the <i>JD Edwards EnterpriseOne Tools Orchestrator Guide</i> :</p> <ul style="list-style-type: none"> <li>• <a href="#">Configuring a REST Connector to Invoke a REST Service</a></li> </ul>
<p>Outbound and Third-party Cross-references for Orchestrations</p>	<p>You can specify the direction of the cross-reference as inbound or outbound and you can use the existing Third Party App ID field to further refine the mappings between EnterpriseOne and third-party systems.</p>	<p>See the following topic in the <i>JD Edwards EnterpriseOne Tools Orchestrator Guide</i> :</p> <ul style="list-style-type: none"> <li>• <a href="#">Creating a Cross Reference</a></li> </ul>

Feature	Description	Documentation
Validate WebCenter Portal 12.2.1.4 on Release 22	JD Edwards partners and customers using portal solutions can be confident that their JD Edwards-delivered portlets will be supported if they move to JD Edwards Release 22 and a supported version of Oracle WebCenter Portal such as 12.2.1.4.	See the following topics in the <i>JD Edwards EnterpriseOne Tools Portal Reference for Oracle Web Center Guide</i> : <ul style="list-style-type: none"> <li>• <a href="#">Using This Guide</a></li> <li>• <a href="#">Installing Oracle Webcenter Portal</a></li> <li>• <a href="#">Configuring Oracle Webcenter Portal for EnterpriseOne</a></li> <li>• <a href="#">Starting the WebLogic Node Manager</a></li> <li>• <a href="#">Associate a Machine to a Server</a></li> <li>• <a href="#">Accessing the Oracle WebCenter</a></li> <li>• <a href="#">Create Database Schemas with Repository Creation Utility</a></li> <li>• <a href="#">Installing the WebLogic Server</a></li> </ul>

## Documentation Updates for EnterpriseOne Tools 9.2.7

The following table contains links to documentation updates in support of EnterpriseOne Tools 9.2.7:

Feature	Description	Documentation
Logic Extensions: Aggregation Support	This feature enhances the capabilities of logic extensions by providing the ability to aggregate data that is read from EnterpriseOne tables. In addition to reading data from EnterpriseOne tables, logic extensions can now provide functions such as sums, averages, counts, and minimum or maximum values. These aggregated results can then be used in subsequent operations within the logic extension or passed as output to the next step in an orchestration.	See the following topic in the <i>JD Edwards EnterpriseOne Tools Orchestrator Guide</i> : <ul style="list-style-type: none"> <li>• <a href="#">Adding an Aggregation Statement</a></li> </ul>
Data Set Processing for Logic Extensions	This feature enhances the capabilities of logic extensions by providing the ability to accept arrays as inputs and return arrays as outputs for efficient iterative processing.	See the following topic in the <i>JD Edwards EnterpriseOne Tools Orchestrator Guide</i> : <ul style="list-style-type: none"> <li>• <a href="#">Adding an Array Function</a></li> </ul>
Access to AIS APIs from e1pagehelper	This enhancement broadens the list of APIs that can be invoked through e1pagehelper.js to include essentially all AIS APIs, thus expanding the services you can use to build your custom JavaScript pages.	See the following topic in the <i>JD Edwards EnterpriseOne Tools UX One Deployment and Development Guide</i> : <ul style="list-style-type: none"> <li>• <a href="#">AIS Call APIs</a></li> </ul>
Complex Queries to EnterpriseOne Database	Starting with Tools Release 9.2.7, you can configure a database connector in the Orchestrator Studio that uses the JD Edwards	See the following topic in the <i>JD Edwards EnterpriseOne Tools Orchestrator Guide</i> :

Feature	Description	Documentation
	EnterpriseOne Data Access Driver (DADriver). Using this connector, you can read data from the EnterpriseOne database by using complex SQL statements and joined tables.	<ul style="list-style-type: none"> <li>• <a href="#">Configuring a Database Connector Using DADriver</a></li> </ul>
File Selector for Orchestrations Launched from an EnterpriseOne Page	The JD Edwards extensibility framework provides many ways to extend and enhance the EnterpriseOne system without the need for deep technical skills or traditional customizations. One such extension is the ability to launch an orchestration from an EnterpriseOne page and enable the orchestration to upload or download files.	See the following topic in the <i>JD Edwards EnterpriseOne Tools Using and Approving User Defined Objects Guide</i> : <ul style="list-style-type: none"> <li>• <a href="#">Running Orchestrations and Notifications from Designer Pane (Release 9.2.6)</a></li> </ul>
Call Logic Extensions Using Form Extensions	Logic extensions are self-contained, specific set of instructions for a given purpose. This enhancement enables you to launch logic extensions directly from a form extension and simplifies the process of associating the logic extension to an event in interactive forms and manages it as a user-defined object.	See the following topic in the <i>JD Edwards EnterpriseOne Tools Using and Approving User Defined Objects Guide</i> : <ul style="list-style-type: none"> <li>• <a href="#">Configuring an Orchestration or Notification or Logic Extension Component (Release 9.2.6)</a></li> </ul>
Enhanced Security for JD Edwards EnterpriseOne Messages to Email Servers	Starting with Tools Release 9.2.7, the security for messages to email servers have been secured. This enables the users to be compliant with the requirements of organizations for email communications.	See the following topic in the <i>JD Edwards EnterpriseOne Tools Server Manager Guide</i> : <ul style="list-style-type: none"> <li>• <a href="#">E-Mail Configuration</a></li> </ul> See the following topic in the <i>JD Edwards EnterpriseOne Tools Server Manager Guide</i> : <ul style="list-style-type: none"> <li>• <a href="#">SMTP Settings</a></li> </ul>
Calling an Orchestration from a Workflow	Starting with Tools Release 9.2.7, you can use the Orchestration task to add existing orchestrations or notifications to your JD Edwards EnterpriseOne workflow process. With this enhancement workflows can also invoke automated orchestrations. Additionally, workflows can send the traditional “push” messages, or they can send subscription-based notifications.	See the following topic in the <i>JD Edwards EnterpriseOne Tools Workflow Tools Guide</i> : <ul style="list-style-type: none"> <li>• <a href="#">Using Orchestration Tasks</a></li> </ul>
Centralized Configuration for HTML Servers	Starting with Tools Release 9.2.7, you can use Centralized Configuration in Server Manager Console to configure settings for EnterpriseOne HTML Servers. Centralized Configurations allows you to set up a default configuration that servers can inherit as well as eliminates the manual effort to populate common settings across multiple servers.	See the following topic in the <i>JD Edwards EnterpriseOne Tools Server Manager Guide</i> : <ul style="list-style-type: none"> <li>• <a href="#">Using Centralized Configuration for EnterpriseOne HTML Servers</a></li> </ul>
Enhanced Authentication for Data Access through Data Access Driver	Enhanced authentication for data access through Data Access Driver enables customers to have seamless authentication through a token-based process as an alternative to using a user name and password. This capability enables customers to make highly secure requests for data access without exposing	See the following topic in the <i>JD Edwards EnterpriseOne Tools Server Manager Guide</i> : <ul style="list-style-type: none"> <li>• <a href="#">Create an Application Interface Services (AIS) Server as a New Managed Instance</a></li> </ul>

Feature	Description	Documentation
	<p>the user credentials. This feature provides enhanced security and enables customers to eliminate repetition of user credentials for every request made through the Data Access Driver.</p>	<p>See the following topic in the <i>JD Edwards EnterpriseOne Tools Interoperability Guide</i> :</p> <ul style="list-style-type: none"> <li>• <a href="#">Establishing Connection and Execute Query Using JDBC Driver</a></li> </ul>
<p>Web OMW Specification based Object Support</p>	<p>Starting with Tools Release 9.2.7, you can use Web Object Management Workbench (Web OMW) to import and export specification-based objects and transfer projects with combined object types. These enhancements reduce the dependency on the windows development client to just design and development work of specification-based objects, extending the flexibility of life cycle management to multiple platforms. In addition, Web OMW has been enhanced to support direct and complete development of Workflow and Data Structure objects, forgoing the necessity for a Windows Development Client completely for these object types.</p>	<p>See the following topics in the <i>JD Edwards EnterpriseOne Tools Workflow Tools Guide</i> :</p> <ul style="list-style-type: none"> <li>• <a href="#">Working with Projects</a></li> <li>• <a href="#">Working with Objects</a></li> <li>• <a href="#">Creating a Save Location</a></li> </ul> <p>See the following topic in the <i>JD Edwards EnterpriseOne Tools Data Structure Design Guide</i> :</p> <ul style="list-style-type: none"> <li>• <a href="#">Creating Business Function Data Structures</a></li> </ul> <p>See the following topic in the <i>JD Edwards EnterpriseOne Tools Workflow Tools Guide</i> :</p> <ul style="list-style-type: none"> <li>• <a href="#">Creating a JD Edwards EnterpriseOne Workflow Object in Object Management Workbench - Web</a></li> </ul>
<p>Applying Software Updates Using the Web Client</p>	<p>Starting with Tools Release 9.2.7, you can use the JD Edwards Web Client to apply application updates or patches from any device, anywhere, and at any time. This eliminates the dependency on Windows Deployment Server thereby facilitating remote patch management and automation.</p>	<p>See the following topic in the <i>JD Edwards EnterpriseOne Tools Software Updates Guide</i> :</p> <ul style="list-style-type: none"> <li>• <a href="#">Deploying Software Updates Using the Web Client</a></li> </ul> <p>See the following topics in the <i>JD Edwards EnterpriseOne Tools Package Management Guide</i> :</p> <ul style="list-style-type: none"> <li>• <a href="#">Understanding Server Package Deployment</a></li> <li>• <a href="#">Deploying a Server Package</a></li> </ul> <p>See the following topic in the <i>JD Edwards EnterpriseOne Tools Server Manager Guide</i> :</p> <ul style="list-style-type: none"> <li>• <a href="#">Install JDBC Drivers to JD Edwards EnterpriseOne Data Access Servers</a></li> </ul> <p>See the following topic in the <i>JD Edwards EnterpriseOne Tools REST API for Server Manager Guide</i> :</p> <ul style="list-style-type: none"> <li>• <a href="#">changecomponent64</a></li> </ul> <p>See the following topic in the <i>JD Edwards EnterpriseOne Tools Release Upgrade Process Guide</i> :</p> <ul style="list-style-type: none"> <li>• <a href="#">Deploying the ASI Using Change Assistant</a></li> </ul>
<p>Provisioning New Enterprise Servers with Customized Application Package</p>	<p>Starting with Tools Release 9.2.7, you can use your own customized applications package</p>	<p>See the following topics in the <i>JD Edwards EnterpriseOne Tools Package Management Guide</i> :</p>

Feature	Description	Documentation
	component to create or recreate new Enterprise Servers during package build.	<ul style="list-style-type: none"> <li>• <a href="#">How the System Builds a Full Server and Client Package</a></li> <li>• <a href="#">Compressing Application Component</a></li> </ul> <p>See the following topic in the <i>JD Edwards EnterpriseOne Tools Server Manager Guide</i> :</p> <ul style="list-style-type: none"> <li>• <a href="#">Create (Install) an Enterprise Server as a New Managed Instance</a></li> </ul>
Password Reset Self-Service	Starting with Tools Release 9.2.7, you can use the JD Edwards password self-service to reset the JDE password without involving the system administrator	<p>See the following topic in the <i>JD Edwards EnterpriseOne Tools Security Administration Guide</i> :</p> <ul style="list-style-type: none"> <li>• <a href="#">Enabling Self-Service on System Password Reset</a></li> </ul>
Uplift System code (MBR) to Visual Studio 2022 and latest Windows SDK for Windows	JD Edwards EnterpriseOne Applications and Tools releases prerequisites are uplifted to receive the latest patches and fixes, the newest features, and the longest possible support life cycle.	<p>See the following topic in the <i>JD Edwards EnterpriseOne Tools Connectors Guide</i> :</p> <ul style="list-style-type: none"> <li>• <a href="#">Setting Up an Environment for GenCOM</a></li> </ul> <p>See the following topic in the <i>JD Edwards EnterpriseOne Tools Package Management Guide</i> :</p> <ul style="list-style-type: none"> <li>• <a href="#">Defining the Compiler Level</a></li> </ul> <p>See the following topic in the <i>JD Edwards EnterpriseOne Development Client Installation Guide for Oracle WebLogic Server (WLS) and WebSphere Application Server (WAS) Express</i> :</p> <ul style="list-style-type: none"> <li>• <a href="#">Obtaining and Installing Visual Studio and the Microsoft Windows SDK</a></li> </ul>
Refresh Environment on Oracle Database	Starting with Tools Release 9.2.7, for Oracle RAC databases, you can use a setting to enable the time interval in seconds to send a broadcast message to refresh the environment whenever any JD Edwards EnterpriseOne Enterprise Server receives a message from an Oracle database indicating the Oracle Call Interface (OCI) Server is not connected.	<p>See the following topic in the <i>JD Edwards EnterpriseOne Tools Server Manager Guide</i> :</p> <ul style="list-style-type: none"> <li>• <a href="#">Refresh Environment on Oracle Database</a></li> </ul>
Improve Workload Performance for an Oracle Database	Increasing the fetch size for JD Edwards EnterpriseOne components to an optimal value may improve the performance of queries from the JD Edwards database driver to an Oracle database.	<p>See the following topic in the <i>JD Edwards EnterpriseOne Tools Server Manager Guide</i> :</p> <ul style="list-style-type: none"> <li>• <a href="#">Improve Workload Performance for an Oracle Database</a></li> </ul>

## Documentation Updates for EnterpriseOne Tools 9.2.7.2

The following table contains links to documentation updates in support of EnterpriseOne Tools 9.2.7.2:

Feature	Description	Documentation
Import Excel Data Containing Formulas, Functions, and Cell Formatting	This enhancement allows users to import the values in the cells, even if those values are derived from Excel formulas, functions, or cell formatting.	See the following topic in the <i>JD Edwards EnterpriseOne Tools Foundation Guide</i> : <ul style="list-style-type: none"> <li>• <a href="#">Importing Data from an External Spreadsheet to a Grid</a></li> </ul>
Exclude Orchestrations from OpenAPI Definition	This feature enables you to mark orchestrations as "private," thus excluding them from the discoverable list of available orchestrations in the OpenAPI 2.0 and Swagger documents.	See the following topic in the <i>JD Edwards EnterpriseOne Tools Orchestrator Guide</i> : <ul style="list-style-type: none"> <li>• <a href="#">Understanding Open Standards for Orchestrations</a></li> </ul>
User Modifications to the Orchestrator OpenAPI	Orchestrator automatically generates the OpenAPI document from the internal specifications of orchestration objects; however, from time to time customers find it necessary to edit that OpenAPI document to reflect modifications they have made, for example, when they have redefined the orchestration response using the Manipulate Outputs page in Orchestrator Studio.  This feature provides an editing window that allows a user to manually modify the automatically generated OpenAPI document.	See the following topic in the <i>JD Edwards EnterpriseOne Tools Orchestrator Guide</i> : <ul style="list-style-type: none"> <li>• <a href="#">Working with Orchestration Output</a></li> </ul>
Define Inputs for a Scheduled Orchestration	Starting with Tools Release 9.2.7.2, you can override the inputs that are associated with the scheduled runs of an orchestration.	See the following topic in the <i>JD Edwards EnterpriseOne Tools Orchestrator Guide</i> : <ul style="list-style-type: none"> <li>• <a href="#">Adding a Schedule to an Orchestration</a></li> </ul>
Text Attachment API Enhancements	This feature provides you with enhanced control over how text attachments are updated using the REST APIs, for example: <ul style="list-style-type: none"> <li>• To control whether an uploaded text attachment replaces, appends to the last line, or appends to a new line of an existing text attachment</li> <li>• To control whether a text attachment is uploaded or downloaded including its HTML tags or as plain text with HTML tags stripped out</li> </ul>	See the following topics in the <i>JD Edwards EnterpriseOne Tools Orchestrator Guide</i> : <ul style="list-style-type: none"> <li>• <a href="#">Updating Text Attachment</a></li> <li>• <a href="#">Getting a Text Attachment</a></li> </ul> See the <i>JD Edwards EnterpriseOne Tools REST API for the Application Interface Services Server Guide</i>

# Documentation Updates for EnterpriseOne Tools 9.2.7.3

The following table contains links to documentation updates in support of EnterpriseOne Tools 9.2.7.3:

Feature	Description	Documentation
JDE Update Manager – UBE Log from Software Updates	The enhanced JDE Update Manager provides a quicker way to access various log files generated by reports that run during the process of applying the software update into the system.	See the following topic in the <i>JD Edwards EnterpriseOne Tools Software Updates Guide</i> : <ul style="list-style-type: none"> <li><a href="#">Running the Software Update (ESU) Using the Web Client</a></li> </ul>
Enhanced Scheduler Password Encryption	This feature enhances the encryption level at which EnterpriseOne stores and uses passwords in the database for the user who runs UBE jobs through the scheduler.	See the following topic in the <i>JD Edwards EnterpriseOne Tools System Administration Guide</i> : <ul style="list-style-type: none"> <li><a href="#">Enhanced Scheduler Password Encryption (Release 9.2.7.3)</a></li> </ul> See the following topic in the <i>JD Edwards EnterpriseOne Tools Security Administration Guide</i> : <ul style="list-style-type: none"> <li><a href="#">Enhanced Scheduler Password Encryption (Release 9.2.7.3)</a></li> </ul>
Package Build - Object Repository Repair	This feature provides administrators an option to automatically repair missing object records with their artifacts during the package build process.	See the following topics in the <i>JD Edwards EnterpriseOne Tools Security Administration Guide</i> : <ul style="list-style-type: none"> <li><a href="#">Understanding Package Build with 64-bit (Release 9.2.3)</a></li> <li><a href="#">How the System Builds a Full Server and Client Package</a></li> <li><a href="#">How the System Builds an Update Server/ Client Package</a></li> <li><a href="#">How the System Builds a Full Server and a Client Package from the Web</a></li> <li><a href="#">How the System Builds an Update Server or Client Package from the Web</a></li> </ul>
Centralized Configuration for HTML Servers	Starting with Tools Release 9.2.7, you can use Centralized Configuration in Server Manager Console to configure settings for EnterpriseOne AIS Servers. Centralized Configurations allows you to set up a default configuration that servers can inherit as well as eliminates the manual effort to populate common settings across multiple servers.	See the following topic in the <i>JD Edwards EnterpriseOne Tools Server Manager Guide</i> : <ul style="list-style-type: none"> <li><a href="#">Using Centralized Configuration for EnterpriseOne AIS Servers (Release 9.2.7.3)</a></li> </ul>
Support for Grid Data Export and Import with Cloud-based Productivity Tools	This feature enables you to import and export grid data from EnterpriseOne to Microsoft	See the following topic in the <i>JD Edwards EnterpriseOne Tools Foundation Guide</i> :

Feature	Description	Documentation
	SharePoint sites using Microsoft Office 365 tools.	<ul style="list-style-type: none"> <li>• <a href="#">Importing and Exporting Grid Data to Microsoft SharePoint using Microsoft Office 365 (Release 9.2.7.3)</a></li> </ul>
Oracle Guided Learning (OGL) Integration with JD Edwards	This feature integrates Oracle Guided Learning (OGL) with JD Edwards enabling users to quickly master the processes. This feature helps to accelerate the adoption of JD Edwards applications by providing step-by-step guidance to complete a task in the flow of work. Additionally, the information can be easily accessed through a widget.	<p>See the following topic in the <i>JD Edwards EnterpriseOne Tools Foundation Guide</i> :</p> <ul style="list-style-type: none"> <li>• <a href="#">Integrating Oracle Guided Learning (OGL) with JD Edwards EnterpriseOne (Release 9.2.7.3)</a></li> </ul>
Rich Formatting of Text Attachments in Orchestrator Studio	Orchestrator provides a step type called "Attachments" to automate the upload, download, and updating of these attachments. This feature enhances Orchestrator Studio with an editor for adding rich formatting to text attachments. The body of the text attachment can contain rich-formatted text interspersed with variables, images, and tables, essentially providing a template for creating text attachments with rich formatting.	<p>See the following topics in the <i>JD Edwards EnterpriseOne Tools Orchestrator Guide</i> :</p> <ul style="list-style-type: none"> <li>• <a href="#">Adding Text or URL Attachment</a></li> <li>• <a href="#">Updating Text Attachment</a></li> </ul>
Logging and Monitoring of AIS REST API Requests and Responses	This enhancement enables logging and monitoring of AIS REST API requests similar to the logging and monitoring of orchestrations and notifications in Orchestrator Monitor.	<p>See the following topic in the <i>JD Edwards EnterpriseOne Tools Orchestrator Guide</i> :</p> <ul style="list-style-type: none"> <li>• <a href="#">Understanding the EnterpriseOne Orchestrator Monitor</a></li> </ul>
Form Control Extensions	This feature enhances logic extensions with the ability to act on the properties of controls on the form, for example, to show, hide, enable, disable, or change the color of a field.	<p>See the following topic in the <i>JD Edwards EnterpriseOne Tools Orchestrator Guide</i> :</p> <ul style="list-style-type: none"> <li>• <a href="#">Adding a Form Control Function (Release 9.2.7.3)</a></li> </ul> <p>See the following topic in the <i>JD Edwards EnterpriseOne Tools Using and Approving User Defined Objects Guide</i> :</p> <ul style="list-style-type: none"> <li>• <a href="#">Associating Orchestrations with Events</a></li> </ul>
Nested Logic Extensions	This feature enables you to create logic extensions that call other logic extensions, thus enabling a common pattern in programming in which code snippets are designed as reusable objects.	<p>See the following topic in the <i>JD Edwards EnterpriseOne Tools Orchestrator Guide</i> :</p> <ul style="list-style-type: none"> <li>• <a href="#">Adding a Logic Extension (Release 9.2.7.3)</a></li> </ul>
Enable or Disable Fields in Form Extensions	This feature enhances form extensions by giving you the ability to enable or disable fields on a form. For example, you can modify an application form to disable certain input fields because you intend to replace manual user input with input that is automated by an orchestration or logic extension.	<p>See the following topics in the <i>JD Edwards EnterpriseOne Tools Using and Approving User Defined Objects Guide</i> :</p> <ul style="list-style-type: none"> <li>• <a href="#">Disabling Form Controls (Release 9.2.7.3)</a></li> <li>• <a href="#">Enabling Form Controls (Release 9.2.7.3)</a></li> <li>• <a href="#">Disabling Form, Row, and Report Exits (Release 9.2.7.3)</a></li> </ul>

Feature	Description	Documentation
		<ul style="list-style-type: none"> <li>• <a href="#">Enabling Form, Row, and Report Exits (Release 9.2.7.3)</a></li> </ul>
File Selector for Orchestrations Launched from a Form Extension	This feature enhances the capabilities of form extensions by providing a file selector so that the end user can easily supply file inputs to orchestrations that are launched from form extensions. If the orchestration returns a file as output, this feature also allows the end user to download that file to the browser's download location.	See the following topic in the <i>JD Edwards EnterpriseOne Tools Using and Approving User Defined Objects Guide</i> : <ul style="list-style-type: none"> <li>• <a href="#">Associating Orchestrations with Events</a></li> </ul>
Pass the Application Version from a Form Extension to an Orchestration or Logic Extension	This enhancement enables the designer to map the application version as input into an orchestration or a logic extension when it is launched from a form extension, thereby allowing alternative processing depending on the runtime value of the version.	See the following topic in the <i>JD Edwards EnterpriseOne Tools Using and Approving User Defined Objects Guide</i> : <ul style="list-style-type: none"> <li>• <a href="#">Associating Orchestrations with Events</a></li> </ul>
TLS Support for Enterprise Server to Database Communication	This feature enables a secured communication using TLS between Enterprise Server and database servers. The communication through ODBC connections from the Enterprise Server, development clients, and deployment server to database server is also secured with SSL enablement.	See the following topic in the <i>JD Edwards EnterpriseOne Tools Security Administration Guide</i> : <ul style="list-style-type: none"> <li>• <a href="#">Overview</a></li> </ul> See the following topics in the <i>JD Edwards EnterpriseOne Tools Server Manager Guide</i> : <ul style="list-style-type: none"> <li>• <a href="#">Enabling TLS on the Enterprise Server (Release 9.2.7.3)</a></li> <li>• <a href="#">Enabling TLS on the Deployment Server (Release 9.2.7.3)</a></li> </ul> See the following topic in the <i>JD Edwards EnterpriseOne Tools System Administration Guide</i> : <ul style="list-style-type: none"> <li>• <a href="#">Updating TLS Port for Database Servers (Release 9.2.7.3)</a></li> </ul> See the following topic in the <i>JD Edwards EnterpriseOne Development Client Installation Guide for Oracle WebLogic Server (WLS) and WebSphere Application Server (WAS) Express</i> : <ul style="list-style-type: none"> <li>• <a href="#">General</a></li> </ul>

## Documentation Updates for EnterpriseOne Tools 9.2.7.4

The following table contains links to documentation updates in support of EnterpriseOne Tools 9.2.7.4:

Feature	Description	Documentation
Optimized Loading of the Notification List	Starting with Tools Release 9.2.7.4, the loading of messages in the Notifications list is optimized. When the user signs in, only the most recent messages are loaded in the notification list. The user can then load additional messages, page by page, to gain access to the entire notification list without overtaxing the servers when they sign in.	See the following topic in the <i>JD Edwards EnterpriseOne Tools Notifications Guide</i> : <ul style="list-style-type: none"> <li>• <a href="#">Optimized Notifications in EnterpriseOne (Tools Release 9.2.7.4)</a></li> </ul>
Logic Extension Assertions	You can validate a logic extension by saving a set of inputs and a set of outputs using the built-in framework provided by the JD Edwards Orchestrator. You can save multiple test cases and run them individually or as a set. This feature enables you to test and revalidate the logic whenever something changes, for example, after applying a software update.	See the following topics in the <i>JD Edwards EnterpriseOne Tools Orchestrator Guide</i> : <ul style="list-style-type: none"> <li>• <a href="#">Working with Logic Extension Assertions</a></li> <li>• <a href="#">Testing the Logic Extension Using the Diagnostic Mode</a></li> </ul>
User-defined Orchestration Monitoring	<p>Orchestrator Monitor gives you visibility into the overall health of your orchestrations, notifications, and AIS REST services as well as details about any exceptions. However, depending on the nature and frequency, some orchestrations and notifications might require more fine-grained monitoring as well as a more comprehensive record of all successful transactions.</p> <p>When monitoring is enabled, the records generated for each execution are displayed in the Run Details tab of the Orchestrator Monitor.</p> <p>In the REST API for JD Edwards EnterpriseOne AIS Server guide, two header values have been added to all of the orchestrator endpoints to support monitoring.</p>	<p>See the following topics in the <i>JD Edwards EnterpriseOne Tools Orchestrator Guide</i> :</p> <ul style="list-style-type: none"> <li>• <a href="#">Monitoring Orchestrations</a></li> <li>• <a href="#">Monitoring Orchestrator Run Details</a></li> </ul> <p>See the following topic in the <i>JD Edwards EnterpriseOne Tools Notifications Guide</i> :</p> <ul style="list-style-type: none"> <li>• <a href="#">Monitoring Notifications</a></li> </ul> <p>See the following guide: <i>JD Edwards EnterpriseOne Tools REST API for the Application Interface Services Server Guide</i> .</p>
Return Status Code for Maximum User Count	Starting with Tools Release 9.2.7.4, if the JAS instance reaches the maximum user limit, the pod health check service returns the 409 status with the message "Exceeds maximum JAS user limit".	See the following topic in the <i>JD Edwards EnterpriseOne Tools Server Manager Guide</i> : <ul style="list-style-type: none"> <li>• <a href="#">Understanding Pod Health Check</a></li> </ul>
Map Inputs from a CSV File	<p>You can create a custom service request that creates an orchestration array from a CSV file or a JSON array.</p> <p>This custom service request enables you to mass-process data by uploading CSV files and JSON array data from orchestrations called from an EnterpriseOne page, a form extension, a mobile device, or any client that can pass a CSV as input.</p>	See the following topic in the <i>JD Edwards EnterpriseOne Tools Orchestrator Guide</i> : <ul style="list-style-type: none"> <li>• <a href="#">Configuring a Custom Service Request to Create an Array</a></li> </ul>
Uplift CK Editor	Starting with Tools Release 9.2.7.4, the subscript, superscript, list properties, and page break options are available in the editor for creating text attachments and messages.	See the following topics in the <i>JD Edwards EnterpriseOne Tools Orchestrator Guide</i> : <ul style="list-style-type: none"> <li>• <a href="#">Configuring a Message Request</a></li> </ul>

Feature	Description	Documentation
		<ul style="list-style-type: none"> <li>• <a href="#">Adding Text or URL Attachment</a></li> </ul> <p>See the following topic in the <i>JD Edwards EnterpriseOne Tools Foundation Guide</i> :</p> <ul style="list-style-type: none"> <li>• <a href="#">Attaching Text</a></li> </ul> <p>See the following topic in the <i>JD Edwards EnterpriseOne Tools Notifications Guide</i> :</p> <ul style="list-style-type: none"> <li>• <a href="#">Defining the Notification Message</a></li> </ul>
Watchlist Badges on EnterpriseOne Page Tiles	You can associate Watchlist Badges to EnterpriseOne Page tiles. This feature enables you to associate Watchlists with launchable actions in a single tile on an EnterpriseOne page.	<p>See the following topics in the <i>JD Edwards EnterpriseOne Tools Using and Approving User Defined Objects Guide</i> :</p> <ul style="list-style-type: none"> <li>• <a href="#">Associating Watchlists with Watchlist Badges (Release 9.2.7.4)</a></li> <li>• <a href="#">Removing Watchlist from Watchlist Badges (Release 9.2.7.4)</a></li> <li>• <a href="#">Watchlist Badges at Runtime (Release 9.2.7.4)</a></li> </ul>
Link Between EnterpriseOne Pages	You can create tiles of Tile Type Page in the Designer Pane to link EnterpriseOne pages. Additionally, when you navigate between EnterpriseOne pages using Page tile, you can use the breadcrumb to navigate to an EnterpriseOne page in your navigation history or you can use the Back button to go back to the previous page.	<p>See the following topics in the <i>JD Edwards EnterpriseOne Tools Notifications Guide</i> :</p> <ul style="list-style-type: none"> <li>• <a href="#">Adding and Configuring a Component in Designer Pane</a></li> <li>• <a href="#">Navigating to EnterpriseOne pages from Designer Pane (Release 9.2.7.4)</a></li> </ul>

## Documentation Updates for EnterpriseOne Tools 9.2.8

The following table contains links to documentation updates in support of EnterpriseOne Tools 9.2.8:

Feature	Description	Documentation
Workflow Monitor	The Workflow Monitor enables you to have an enterprise-wide visualization into the metrics of the human workflow activities. It enables you to get confirmation that workflows are running smoothly, provide early awareness of exceptions or processes ending in error, helps to gather metrics for broad analysis, and enables you to access data visually.	<p>See the following topic in the <i>JD Edwards EnterpriseOne Tools Workflow Tools Guide</i> :</p> <ul style="list-style-type: none"> <li>• <a href="#">Workflow Monitor</a></li> </ul>
Prebuilt Workflow Data Structures	This feature simplifies the process of creating new workflows by providing a set of prebuilt data structures that are suitable for a wide variety of workflows. Designers can simply use	<p>See the following topics in the <i>JD Edwards EnterpriseOne Tools Workflow Tools Guide</i> :</p> <ul style="list-style-type: none"> <li>• <a href="#">Prebuilt Data Structures</a></li> </ul>

Feature	Description	Documentation
	<p>these prebuilt data structures and entirely avoid the process of creating and deploying them. The feature also delivers a generic workflow approval process that designers can copy and modify for their own scenarios, and a generic message template.</p>	<ul style="list-style-type: none"> <li>• <a href="#">Prebuilt JD Edwards EnterpriseOne Workflow Process</a></li> </ul>
<p>Server Manager - Centralized Configuration for EnterpriseOne Enterprise and Integration Servers</p>	<p>This feature extends the capability of Centralized Configuration by including the remaining server types: Enterprise Servers, Business Services (BSSV) Servers, and Real Time Events (RTE) Servers. With this enhancement, administrators can now set up configuration groups to which all the servers can belong. This eliminates the manual effort of managing the configurations, as well as to make configuration changes that would take effect for all servers belonging to the group.</p>	<p>See the following topic in the <i>JD Edwards EnterpriseOne Tools Server Manager Guide</i> :</p> <ul style="list-style-type: none"> <li>• <a href="#">Using Centralized Configuration for Enterprise, BSSV, and Transaction (RTE) Servers</a></li> </ul>
<p>Simplified Management of User Logging</p>	<p>This feature provides you the ability to enable user-level logging for all instances in a single place without having to do it at every instance. This makes it simpler to enable and collect user logs from multiple instances for debugging which saves a lot of time and effort.</p>	<p>See the following topic in the <i>JD Edwards EnterpriseOne Tools Server Manager Guide</i> :</p> <ul style="list-style-type: none"> <li>• <a href="#">Understanding User Logging</a></li> </ul>
<p>Support for Auditing of Shared Tables and Objects in Multi-Pathcode Environments</p>	<p>This feature provides you the ability to enable auditing for tables and objects shared between multiple pathcodes.</p>	<p>See the following topic in the <i>JD Edwards EnterpriseOne Tools Auditing Administration Including 21 CFR Part 11 Administration Guide</i> :</p> <ul style="list-style-type: none"> <li>• <a href="#">Understanding Auditing for Shared Tables and Objects Across Multiple EnterpriseOne Path Codes</a></li> </ul>
<p>Notification Reminders</p>	<p>This feature enables you to easily set reminders for important tasks or assignments. You can assign follow-up dates to notification messages and easily view and sort the messages in the My Worklist application. This feature enables you to keep track of time-sensitive priorities.</p>	<p>See the following topic in the <i>JD Edwards EnterpriseOne Tools Notifications Guide</i> :</p> <ul style="list-style-type: none"> <li>• <a href="#">Notification Reminders</a></li> </ul> <p>See the following topic in the <i>JD Edwards EnterpriseOne Tools Foundation Guide</i> :</p> <ul style="list-style-type: none"> <li>• <a href="#">Notifications List (Bell icon)</a></li> </ul>
<p>JDE Update Manager - Impact Analysis Dashboard</p>	<p>This feature enables you to configure and analyze the impact that the software update will have on your system, using the Software Update Dashboard on the web client.</p>	<p>See the following topic in the <i>JD Edwards EnterpriseOne Tools Software Updates Guide</i> :</p> <ul style="list-style-type: none"> <li>• <a href="#">Software Update Impact Analysis Using the Web Client</a></li> </ul>
<p>JDE Update Manager - Batch Update Through Web Client</p>	<p>This feature enables you to deploy multiple updates in batch mode using Change Assistant on the web client.</p>	<p>See the following topic in the <i>JD Edwards EnterpriseOne Tools Software Updates Guide</i> :</p> <ul style="list-style-type: none"> <li>• <a href="#">Deploying Batch Updates Using Change Assistant - Web Client (Release 9.2.8)</a></li> </ul>
<p>JDE Update Manager – Webify UDC and Glossary Compare/Merge Utility</p>	<p>This feature enables you to review, compare, and apply text updates for User Defined Codes</p>	<p>See the following topic in the <i>JD Edwards EnterpriseOne Tools Software Updates Guide</i> :</p>

Feature	Description	Documentation
	(UDCs) and Data Dictionary Glossaries, using the web client.	<ul style="list-style-type: none"> <li>• <a href="#">Managing Special Instructions (UDCs and DD Glossaries) Using the Web Client</a></li> </ul>
User-defined Delimiter for Orchestrator Output to CSV	This feature enables you to specify a separator character other than a comma when outputting data to a CSV file in an orchestration.	See the following topic in the <i>JD Edwards EnterpriseOne Tools Orchestrator Guide</i> : <ul style="list-style-type: none"> <li>• <a href="#">Using Disk Caching</a></li> </ul>
Output Stream Access for Orchestrations	This feature enables the Orchestrator Report step to generate OSA output. When used together, you have a wide array of capabilities for automating processes using orchestrations and generating custom-formatted output using OSA.	See the following topics in the <i>JD Edwards EnterpriseOne Tools Orchestrator Guide</i> : <ul style="list-style-type: none"> <li>• <a href="#">Executing a Report</a></li> <li>• <a href="#">Downloading an Existing Report</a></li> </ul>
Task Tracking	This feature enables you to set due dates for tasks that are assigned to recipients through orchestration, and notification messages. The tasks can then be monitored to ensure their timely completion or for historical analysis.	See the following topics in the <i>JD Edwards EnterpriseOne Tools Orchestrator Guide</i> : <ul style="list-style-type: none"> <li>• <a href="#">Setting Up Task Tracking</a></li> <li>• <a href="#">Understanding the Task Tracking Application</a></li> </ul> See the following topics in the <i>JD Edwards EnterpriseOne Tools Notifications Guide</i> : <ul style="list-style-type: none"> <li>• <a href="#">Setting Up Task Tracking</a></li> <li>• <a href="#">Understanding the Task Tracking Application</a></li> </ul>
Automated Tools Release Configuration (P96ATRC)	For Tools Release 9.2.7 or later and Apps release 9.2, you can use the Automated Tools Release Configuration (P96ATRC) to apply OCM changes and database changes along with the Tools Release enhancements instead of Tools Automated Special Instruction (TR927001).	See the following topics in the <i>JD Edwards EnterpriseOne Tools Release Upgrade Process Guide</i> : <ul style="list-style-type: none"> <li>• <a href="#">Running Tools Configuration using Web Application P96ATRC (Tools Release 9.2.7 and later)</a></li> <li>• <a href="#">Appendix B - Deploying the ASI Using Change Assistant</a></li> </ul>
Web OMW – Business View Design Aid	Starting with Tools Release 9.2.8, you can create Business View using Business View Design Aid in the Web Object Management Workbench (Web OMW).	See the following topic in the <i>JD Edwards EnterpriseOne Tools Business View Design Guide</i> : <ul style="list-style-type: none"> <li>• <a href="#">Creating Business Views in Web Object Management Workbench</a></li> </ul>
Web OMW – Promote Objects to Package	Starting with Tools Release 9.2.8, you can promote specification-based objects and projects containing specification-based objects to live package without package build and deployment.	See the following topics in the <i>JD Edwards EnterpriseOne Tools Object Management Workbench for the Web Guide</i> : <ul style="list-style-type: none"> <li>• <a href="#">Promoting Projects</a></li> <li>• <a href="#">Promoting Objects</a></li> </ul>

## Documentation Updates for EnterpriseOne Tools 9.2.8.2

The following table contains links to documentation updates in support of EnterpriseOne Tools 9.2.8.2:

Feature	Description	Documentation
Orchestrator Variable for Report Queue	This feature enables Orchestrator to automate EnterpriseOne report processing, thereby combining the intelligence and flexibility of orchestrations with the power and efficiency of EnterpriseOne report processing. This feature also allows the job queue to be passed into an orchestration report step as a variable. The specified job queue can be supplied by the third-party system or client as an orchestration input, or it can be derived from some other orchestration step.	See the following topic in the <i>JD Edwards EnterpriseOne Tools Orchestrator Guide</i> : <ul style="list-style-type: none"> <li>• <a href="#">Executing a Report</a></li> </ul>
Ability to Reorder Data Request and Form Request Grid Outputs	This feature enables the key capability of the EnterpriseOne Orchestrator to fetch data from the EnterpriseOne database and pass that data to subsequent orchestration steps or as an orchestration output. The two primary ways to fetch data sets (arrays) are through a data request or to return grid data through a form request. This functionality improves the readability of the output by enabling the designer to control the order of elements, specifically for the output generated in a CSV file.	See the following topics in the <i>JD Edwards EnterpriseOne Tools Orchestrator Guide</i> : <ul style="list-style-type: none"> <li>• <a href="#">Configuring Form Request Actions</a></li> <li>• <a href="#">Configuring a Data Request to Retrieve a Data Set</a></li> </ul>
EnterpriseOne Pages and Form Extensions: Rename Inputs to Orchestrations	This feature enables you to modify input names of orchestration or notification from form extensions and EnterpriseOne pages. If you modify the name of the input from a tile or form, the system displays the renamed input only when the orchestration is called from that tile or form.	See the following topics in the <i>JD Edwards EnterpriseOne Tools Using and Approving User Defined Objects Guide</i> : <ul style="list-style-type: none"> <li>• <a href="#">Associating Orchestrations with Events</a></li> <li>• <a href="#">Configuring an Orchestration or Notification Component</a></li> </ul>
Ascending or Descending Thresholds on Watchlists	This feature enables you to create Watchlists with ascending or descending thresholds. In a Watchlist with Ascending threshold type, the threshold is breached when the Watchlist count is greater than the threshold value whereas in a Watchlist with Descending threshold type the threshold is breached when the Watchlist count is lower than the threshold value.	See the following topics in the <i>JD Edwards EnterpriseOne Applications One View Watchlists Implementation Guide</i> : <ul style="list-style-type: none"> <li>• <a href="#">Viewing One View Watchlists</a></li> <li>• <a href="#">Adding a One View Watchlist</a></li> </ul> See the following topics in the <i>JD Edwards EnterpriseOne Tools Using and Approving User Defined Objects Guide</i> : <ul style="list-style-type: none"> <li>• <a href="#">Watchlist Pane at Runtime</a></li> <li>• <a href="#">Watchlist Badges at Runtime</a></li> </ul>

Feature	Description	Documentation
Execute a Watchlist v2	Starting with Tools Release 9.2.8.2, a new output called thresholdType is added to the output of the Watchlist service.	See the <i>JD Edwards EnterpriseOne Tools REST API for the Application Interface Services Server Guide</i> .
Update Manager: UDO Deployment	This feature enhances JD Edwards Update Manager to support deploying UDO packages in addition to the standard object ESU and cumulative update packages using the Work with Software Updates - Web application. This enhancement also supports deploying UDO packages using Change Assistant with the AIS server connection.	See the following topics in the <i>JD Edwards EnterpriseOne Tools Software Updates Guide</i> : <ul style="list-style-type: none"> <li>• <a href="#">Deploying User Defined Objects (UDOs) Using the Web Client</a></li> <li>• <a href="#">Deploying UDOs Using Change Assistant with the Application Interface Services (AIS) Server Connection</a></li> </ul>
View PDF Attachments with a Single Click	This feature enables you to view a PDF attachment without the requirement to first download the file to local desktop.	See the following topics in the <i>JD Edwards EnterpriseOne Tools Foundation Guide</i> : <ul style="list-style-type: none"> <li>• <a href="#">Using Media Objects</a></li> <li>• <a href="#">Viewing Advanced Media Object Attachments</a></li> </ul>
View Attachments in Composite Application Framework	This feature enables you to create a Composed Application Framework (CafeOne) layout for the media object viewer.	See the following topics in the <i>JD Edwards EnterpriseOne Tools Composite Application Framework (CafeOne) User's Guide</i> : <ul style="list-style-type: none"> <li>• <a href="#">Viewing and Using Attachment Content on a Layout</a></li> <li>• <a href="#">Understanding Attachment Content</a></li> <li>• <a href="#">Understanding the Media Object Viewer</a></li> </ul>
Improved Automatic Serialized Object Generation	This feature enables you to automatically generate serialized objects for frequently used objects, objects based on language preference, and objects for a specific path code. Additionally, you can clear serialized objects for specific object.	See the following topics in the <i>JD Edwards EnterpriseOne Tools Server Manager Guide</i> : <ul style="list-style-type: none"> <li>• <a href="#">Serialized Objects</a></li> <li>• <a href="#">Configuring Automatic Spec Generation</a></li> </ul>
Authentication for Oracle Cloud Infrastructure Services	This feature extends the supported authentication mechanisms that EnterpriseOne Orchestrator can use to invoke external services provided by Oracle Cloud Infrastructure. Specifically, this feature enables the use of Oracle Cloud Infrastructure API Signature Version 1 to authenticate to services such as Oracle Document Understanding.	See the following topic in the <i>JD Edwards EnterpriseOne Tools Orchestrator Guide</i> : <ul style="list-style-type: none"> <li>• <a href="#">Creating a Soft Coding Record for a REST Connection</a></li> </ul>
Return Connector Response Status as a Variable	This feature enhances the Orchestrator connector step (REST or OpenAPI) to assign the returned HTTP status code to an orchestration variable. Having the HTTP status code as an orchestration variable then gives the orchestration designer more control over an intelligent reaction to the HTTP status.	See the following topics in the <i>JD Edwards EnterpriseOne Tools Orchestrator Guide</i> : <ul style="list-style-type: none"> <li>• <a href="#">Configuring an Open API Connector to Invoke a REST Service</a></li> <li>• <a href="#">Configuring a REST Connector to Invoke a REST Service</a></li> <li>• <a href="#">Defining Error Handling for Orchestration Steps</a></li> </ul>

Feature	Description	Documentation
Include Control Information in Orchestration Form Service Exception Response	This feature enhances the exception response from an error on a form service request to include the field name, data item alias, and table where the data is stored. For grid errors, the exception response also includes the row number on which the error occurred.	See the following topic in the <i>JD Edwards EnterpriseOne Tools Orchestrator Guide</i> : <ul style="list-style-type: none"> <li>• <a href="#">Understanding Run Orchestrations</a></li> </ul>
Orchestrator: Send a File without Multipart Request	This feature enables the Orchestrator Connector step to allow files to be sent to external REST APIs either as a multipart request or as a "direct" request (without multipart boundaries in the request body).	See the following topics in the <i>JD Edwards EnterpriseOne Tools Orchestrator Guide</i> : <ul style="list-style-type: none"> <li>• <a href="#">Configuring an Open API Connector to Invoke a REST Service</a></li> <li>• <a href="#">Configuring a REST Connector to Invoke a REST Service</a></li> </ul>
Orchestration Variable for Maximum Records in Form Requests and Data Requests	This feature enhances the Maximum Records option in Orchestrator form requests and data requests to be able to accept a variable number of rows to be returned.	See the following topic in the <i>JD Edwards EnterpriseOne Tools Orchestrator Guide</i> : <ul style="list-style-type: none"> <li>• <a href="#">Processing Settings</a></li> </ul>
Reorder Orchestration Inputs	This feature allows you to reorder orchestration inputs, thus enabling orchestrations to more easily integrate to user interfaces or third-party systems that might be sensitive to the order of inputs.	See the following topic in the <i>JD Edwards EnterpriseOne Tools Orchestrator Guide</i> : <ul style="list-style-type: none"> <li>• <a href="#">Adding Inputs to an Orchestration</a></li> </ul>
User Access and Application Usage Tracking	This feature enables administrators to track application usage across the various application modules in EnterpriseOne. The administrators now have visualization of unique user access of application modules and unique user access of application modules based on roles.	See the following topic in the <i>JD Edwards EnterpriseOne Tools Software Updates Guide</i> : <ul style="list-style-type: none"> <li>• <a href="#">User Access and Application Usage Tracking (Release 9.2.8.2)</a></li> </ul> See the following topic in the <i>JD Edwards EnterpriseOne Applications UX One Roles User Guide</i> : <ul style="list-style-type: none"> <li>• <a href="#">UX One: JDE Usage Tracking Composed EnterpriseOne Page (Release 9.2.8.2)</a></li> </ul>
Server Manager - Enterprise Server Component Change Retain External Files	Starting with Tools Release 9.2.8.2, Server Manager retains the required external files when a Change Component for change is initiated for the Enterprise Server. The system automatically migrates external files such as custom SSL certificates, any imported fonts that are utilized, and critical day-to-day job operations of the Enterprise Server without additional manual intervention post component change.	See the following topic in the <i>JD Edwards EnterpriseOne Tools Server Manager Guide</i> : <ul style="list-style-type: none"> <li>• <a href="#">Change Component for the Enterprise Server (Tools Release 9.2 Update 3)</a></li> </ul> See the following topic in the <i>JD Edwards EnterpriseOne Tools Security Administration Guide</i> : <ul style="list-style-type: none"> <li>• <a href="#">Enabling SSL Communication between Enterprise Server and AIS Server on UNIX and Microsoft Windows (Release 9.2.8.2)</a></li> </ul>
My Workflow Monitor	This feature expands the capability of the Workflow Monitor feature and enables users	See the following topic in the <i>JD Edwards EnterpriseOne Tools Workflow Tools Guide</i> : <ul style="list-style-type: none"> <li>• <a href="#">My Workflow Monitor (Release 9.2.8.2)</a></li> </ul>

Feature	Description	Documentation
	to view only those workflows in which they are involved as participants.	
Enabling Orchestrator Studio Single Sign-on	Added a new section describing how to enable Single Sign-On for Orchestrator Studio.	See the following topic in the <i>JD Edwards EnterpriseOne Tools Orchestrator Guide</i> : <ul style="list-style-type: none"> <li>• <a href="#">Enabling Orchestrator Studio Single Sign-on (Release 9.2.8.2)</a></li> </ul>
Understanding AIS Authentication	Added a section describing how to configure OAuth 2.0 services with OCI Identity Access Management (IAM).	See the following topic in the <i>JD Edwards EnterpriseOne Application Interface Services Server Reference Guide</i> : <ul style="list-style-type: none"> <li>• <a href="#">Configuring OAuth 2.0 Services with OCI Identity Access Management</a></li> </ul>
Setting Up JD Edwards EnterpriseOne Single Sign-On Through Oracle Access Management 12c	Added a section to support single sign-on with applications that run on the AIS Server, which include EnterpriseOne mobile enterprise applications. This setup is required to support e-signatures in an EnterpriseOne SSO configuration.	See the following topic in the <i>JD Edwards EnterpriseOne Tools Security Administration Guide</i> : <ul style="list-style-type: none"> <li>• <a href="#">Configure IDCS for AIS Clients and E-Signature in the JD Edwards EnterpriseOne HTML Server in Server Manager</a></li> </ul>

## Documentation Updates for EnterpriseOne Tools 9.2.8.3

The following table contains links to documentation updates in support of EnterpriseOne Tools 9.2.8.3:

Feature	Description	Documentation
File Discovery for Orchestrator FTP Connector	This feature enhances the Orchestrator FTP connector with the ability to read the names of files in a given directory in an FTP site. In this way orchestrations can automatically read and iterate over a list of files in a directory even if the file names change or are unknown at the time the orchestration runs.	See the following topic in the <i>JD Edwards EnterpriseOne Tools Orchestrator Guide</i> : <ul style="list-style-type: none"> <li>• <a href="#">Configure an FTP Connector to Read Directory Content Attributes</a></li> </ul>
User-Defined Name for a URL Attachment Created with the REST API or Orchestration Step	When you create a URL attachment using the AIS REST API or Orchestrator Attachment step, this feature enables you to assign a name to a URL attachment that is different than the path to the URL resource itself.	See the following topic in the <i>JD Edwards EnterpriseOne Tools Orchestrator Guide</i> : <ul style="list-style-type: none"> <li>• <a href="#">Adding Text or URL Attachment</a></li> </ul>
Dynamic Date Filters for Data Service and Form Service REST APIs	This feature enhances the AIS data service and form service REST APIs to accept a date filtering syntax that expresses a dynamic date, for example "Today plus 3 days."When these APIs are called using a GET method, a parameter in the REST header can include this date filtering	See the <i>JD Edwards EnterpriseOne Tools REST API for the Application Interface Services Server Guide</i> .

Feature	Description	Documentation
	<p>syntax, thus allowing the API to fetch data for a dynamic date range.</p>	
<p>Default the Appropriate Accept Type for Orchestrations that Return Files</p>	<p>This feature simplifies the user interface in the Run Orchestrations page in Orchestrator Studio by automatically setting the Accept Type to application/octet-stream when the orchestration is configured to return a file.</p>	<p>See the following topic in the <i>JD Edwards EnterpriseOne Tools Orchestrator Guide</i> :</p> <ul style="list-style-type: none"> <li>• <a href="#">Testing an Orchestration</a></li> </ul>
<p>Create a Table from a Data Set in a Message</p>	<p>Starting with Tools Release 9.2.8.3, you can pass in a data set (array) and format that data as a table in the message in the Orchestrator messages and notifications.</p>	<p>See the following topic in the <i>JD Edwards EnterpriseOne Tools Orchestrator Guide</i> :</p> <ul style="list-style-type: none"> <li>• <a href="#">Configuring a Message Request</a></li> </ul> <p>See the following topic in the <i>JD Edwards EnterpriseOne Tools Notifications Guide</i> :</p> <ul style="list-style-type: none"> <li>• <a href="#">Adding Data Tables</a></li> </ul>
<p>Stateful Orchestrations</p>	<p>This feature provides a framework for persisting the state of orchestrations - an overview of all relevant data at a given point- thereby enabling orchestrations to tolerate time gaps in processing, pauses for external systems to respond, starting and stopping between steps, and other asynchronous behaviors.</p>	<p>See the following topics in the <i>JD Edwards EnterpriseOne Tools Orchestrator Guide</i> :</p> <ul style="list-style-type: none"> <li>• <a href="#">Creating a Stateful Orchestration</a></li> <li>• <a href="#">Adding the While Step</a></li> </ul>
<p>Workflow Monitor Process View</p>	<p>This feature enhances the Workflow Monitor by adding a model visualization of workflow processes, enabling you to view the status and metrics of a workflow process in the context of the workflow model.</p>	<p>See the following topic in the <i>JD Edwards EnterpriseOne Tools Workflow Tools Guide</i> :</p> <ul style="list-style-type: none"> <li>• <a href="#">Summary</a></li> </ul>

## Documentation Updates for EnterpriseOne Tools 9.2.9

The following table contains links to documentation updates in support of EnterpriseOne Tools 9.2.9:

Feature	Description	Documentation
<p>Enterprise Process Modeler</p>	<p>The Enterprise Process Modeler provides a graphical tool for designing processes and the interrelationships among processes, defining metrics about those processes, and visualizing a real-time view of how those processes are running. As a foundational piece of the Enterprise Automation framework, the Enterprise Process Modeler enables you to define, monitor, and measure the processes that are essential to your operations.</p>	<p>See the <i>JD Edwards EnterpriseOne Tools Enterprise Process Modeler Guide</i> :</p> <ul style="list-style-type: none"> <li>• <a href="#">Introduction to Enterprise Process Modeler</a></li> </ul>

Feature	Description	Documentation
Return System Values in Orchestration Outputs and Assertions	This feature enhances Orchestrator Studio by enabling you to choose available system data, such as environment, user ID, and orchestration name, to include in the orchestration output.	See the following topics in the <i>JD Edwards EnterpriseOne Tools Orchestrator Guide</i> : <ul style="list-style-type: none"> <li>• <a href="#">Working with Orchestration Output</a></li> <li>• <a href="#">Working with Orchestration Assertions</a></li> </ul>
List of Criteria Variables into Orchestration Rules	This feature enhances Orchestrator Studio by enabling you to choose available system data, such as environment, user ID, and orchestration name, to include in the orchestration output.	See the following topics in the <i>JD Edwards EnterpriseOne Tools Orchestrator Guide</i> : <ul style="list-style-type: none"> <li>• <a href="#">Creating a Rule</a></li> <li>• <a href="#">Executing a Report</a></li> <li>• <a href="#">Configuring a Data Request to Return Field Data</a></li> <li>• <a href="#">Configuring a Data Request with Data Aggregation</a></li> </ul>
Real-Time Access to Media Objects Stored in External File Store	Starting with Tools Release 9.2.9, you can upload media objects stored in file systems to the database without running the R98MODAT.	See the following topic in the <i>JD Edwards EnterpriseOne Tools Runtime Administration Guide</i> : <ul style="list-style-type: none"> <li>• <a href="#">Uploading Media Object Files to Database</a></li> </ul>
Server Manager - Developer Foundation and Interface	This feature facilitates access and segregates functionality for the EnterpriseOne developers in Server Manager. EnterpriseOne developer users can access log files that are created for their user ID on a centralized web server. In addition, this feature enables administrators to manage users from EnterpriseOne to Server Manager and the functionality those users can access. Finally, Server Manager APIs are created for the development client to retrieve user logs and enable/disable logging levels in a single interface (rather than through INI files) and for administrators to manage the Server Manager users.	See the following topic in the <i>JD Edwards EnterpriseOne Tools REST API for Server Manager Guide</i> : <ul style="list-style-type: none"> <li>• <a href="#">REST APIs for Server Manager User Log Configuration (Tools Update Release 9.2.9)</a></li> </ul> See the following topic in the <i>JD Edwards EnterpriseOne Tools Server Manager Guide</i> : <ul style="list-style-type: none"> <li>• <a href="#">Assign Server Group Permissions</a></li> </ul>
UDO Altering	This feature enhances the management of User Defined Objects by enabling you to rename and edit the Product Code at any point for any UDO.	See the following topic in the <i>JD Edwards EnterpriseOne Tools Object Management Workbench for the Web Guide</i> : <ul style="list-style-type: none"> <li>• <a href="#">Editing the Properties of UDOs (Release 9.2.9)</a></li> </ul>
Call an Orchestration from a Row or Form Exit	This feature enhances the EnterpriseOne extensibility framework with the ability to launch orchestrations, notifications, and logic extensions from form and row exits, which you can add as form extensions.	See the following topics in the <i>JD Edwards EnterpriseOne Tools Using and Approving User Defined Objects Guide</i> : <ul style="list-style-type: none"> <li>• <a href="#">Associating Orchestrations with Form or Row Exit (Release 9.2.9)</a></li> <li>• <a href="#">Modifying Orchestrations Associated with Form or Row Exit</a></li> <li>• <a href="#">Deleting Orchestrations Associated with Form or Row Exit</a></li> </ul>

Feature	Description	Documentation
Text and Images on EnterpriseOne Pages	This feature enhances EnterpriseOne pages with tile types for adding text and images. In addition to the active tiles that launch applications, reports, and orchestrations, Text and Image tiles can present text and images to augment the page as a whole.	See the following topic in the <i>JD Edwards EnterpriseOne Tools Using and Approving User Defined Objects Guide</i> : <ul style="list-style-type: none"> <li>• <a href="#">Adding and Configuring a Component in Designer Pane</a></li> </ul>
Server Manager - Performance Workbench	This feature injects the Performance Workbench functionality directly into the Server Manager interface. Performance Workbench can now be triggered to summarize log files directly through the Server Manager Console, no matter what platform the managed log files come from. The users can directly access the summarized results from the Server Manager Console and the results can also be downloaded to a local workstation for further evaluation if desired.	See the following topic in the <i>JD Edwards EnterpriseOne Tools Server Manager Guide</i> : <ul style="list-style-type: none"> <li>• <a href="#">Overview</a></li> </ul>
Development HTML Server	The Development HTML Server enables multiple users to access the development web server without conflict and continued isolation of user workspace. This enhancement eliminates the local WLS/WAS (WebLogic or WebSphere) and H4A (HTML for Applications - H4A) installation.	See the following topic in the <i>JD Edwards EnterpriseOne Tools Server Manager Guide</i> : <ul style="list-style-type: none"> <li>• <a href="#">Development HTML Server (Release 9.2.9)</a></li> </ul> See the following topic in the <i>JD Edwards EnterpriseOne Deployment Server Reference Guide for Enterprise Systems for Microsoft Windows</i> : <ul style="list-style-type: none"> <li>• <a href="#">Configuring the Web Client (Tools Release 9.2.9)</a></li> </ul>
OUI Rebuild	This feature uplifts and rebuilds the Oracle Universal Installers (OUI) that are used for JD Edwards EnterpriseOne products to utilize the latest third-party software versions that are required to run the OUI – Microsoft Visual Studio Runtime (MSVCRT) and Java Runtime Environment (JRE) in particular.	See the following topic in the <i>JD Edwards EnterpriseOne Server Manager Installation Guide</i> : <ul style="list-style-type: none"> <li>• <a href="#">Running the WebLogic Server Installer for the Server Manager Console</a></li> </ul>
JD Edwards Update Manager - Reset Merges of Updates	This feature enhances JD Edwards Update Manager to reset merges that were performed as a part of updates using the web client. You can reset to rerun the merges (Business Data Table Conversions and Control Table Merges) as needed to refresh the data in the target environment.	See the following topic in the <i>JD Edwards EnterpriseOne Tools Software Updates Guide</i> : <ul style="list-style-type: none"> <li>• <a href="#">Resetting Software Update Merge (Control Tables and Table Conversions) Using the Web Client</a></li> </ul>
JD Edwards Update Manager - Custom Multi-Platform Deliverable	The enhanced JD Edwards Update Manager supports deployment of multi-platform deliverable (PAR) configuration files using the web client. It also supports deploying Configurations using Change Assistant on the Deployment Server and by using the web client with the AIS Server connection.	See the following topics in the <i>JD Edwards EnterpriseOne Tools Software Updates Guide</i> : <ul style="list-style-type: none"> <li>• <a href="#">Deploying Configurations Using the Web Client</a></li> <li>• <a href="#">Deploying Configurations Using Change Assistant</a></li> </ul>

Feature	Description	Documentation
Optimized Full Package Build Performance	This feature enables you to run a full package build with optimized performance in the net change mode. The EnterpriseOne package build application enables system administrators to alter the full package build, to only compile functions that are updated since the last active full package build.	See the following topic in the <i>JD Edwards EnterpriseOne Tools Package Management Guide</i> : <ul style="list-style-type: none"> <li>• <a href="#">Software Update Impact Analysis Using the Web Client</a></li> </ul>
Enhanced Data Access Driver for Multiple Environments	Starting with Tools Release 9.2.9, the Data Access Driver is enhanced to connect to multiple JD Edwards environments for collating and analyzing data.	See the following topic in the <i>JD Edwards EnterpriseOne Tools BI Publisher for JD Edwards EnterpriseOne Guide</i> : <ul style="list-style-type: none"> <li>• <a href="#">Configuring the JDBC Driver in Oracle Business Intelligence Publisher</a></li> </ul> See the following topic in the <i>JD Edwards EnterpriseOne Tools Server Manager Guide</i> : <ul style="list-style-type: none"> <li>• <a href="#">Create a Data Access Driver</a></li> </ul>
Allowed Domain(s) and Attribute(s) for Content Security Policy	JD Edwards EnterpriseOne provides you the ability to allow trusted domains and attributes by using a soft coding template. This chapter includes information on how to create a soft coding record to allow the trusted domains and attributes.	See the following topic in the <i>JD Edwards EnterpriseOne Tools Security Administration Guide</i> : <ul style="list-style-type: none"> <li>• <a href="#">Allowed Domains and Attributes for Content Security Policy</a></li> </ul>

## Documentation Updates for EnterpriseOne Tools 9.2.9.3

The following table contains links to documentation updates in support of EnterpriseOne Tools 9.2.9.3:

Feature	Description	Documentation
EnterpriseOne Widgets	Using EnterpriseOne Widgets, you can create, publish, and visualize data that an orchestration can produce. EnterpriseOne Widgets evolve the concept of One View Watchlists by allowing the source of data to come from orchestration output. This guide contains instructions on how you can design different types of Widgets using the JD Edwards EnterpriseOne Orchestrator Studio.	See the following topic in the <i>JD Edwards EnterpriseOne Tools EnterpriseOne Widgets Guide</i> : <ul style="list-style-type: none"> <li>• <a href="#">EnterpriseOne Widgets</a></li> </ul> See the following topics in the <i>JD Edwards EnterpriseOne Tools Using and Approving User Defined Objects Guide</i> : <ul style="list-style-type: none"> <li>• <a href="#">UDO Types</a></li> <li>• <a href="#">Adding and Configuring a Component in Designer Pane</a></li> <li>• <a href="#">Associating Tiles with Badges</a></li> <li>• <a href="#">Removing Watchlists and Widgets from Badges</a></li> <li>• <a href="#">Widget Badges at Runtime</a></li> </ul>

Feature	Description	Documentation
Enterprise Process Modeler: Connected Processes	The Connected Processes feature establishes a framework that allows process models to be linked to other processes, thus acting as a subprocess to a parent. In this way, processes can be viewed as modular components, and process designers and users can easily change their focus and context by drilling into a subprocess from a parent process.	See the following topics in the <i>JD Edwards EnterpriseOne Tools Enterprise Process Modeler Guide</i> : <ul style="list-style-type: none"> <li>• <a href="#">Creating an Enterprise Process</a></li> <li>• <a href="#">Analyzing an Enterprise Process</a></li> </ul>
Comparative Criteria on Form Requests, Data Requests, Data Service, and Logic Extensions	This feature enhances Orchestrator form requests, data requests, the AIS data service API, and logic extensions to allow both the left and the right comparison operands to be mapped from data items. For example, if you wanted to get data about your efficiency on fulfilling orders, you can query for: Request Date > Promised Delivery.	See the following topics in the <i>JD Edwards EnterpriseOne Tools Orchestrator Guide</i> : <ul style="list-style-type: none"> <li>• <a href="#">Configuring a Data Request with Data Aggregation</a></li> <li>• <a href="#">Configuring a Data Request to Return Field Data</a></li> <li>• <a href="#">Adding an Aggregation Statement</a></li> </ul>
JD Edwards Update Manager - Change Assistant Force Merge Option	This feature enables you to force merge object changes to a target environment when updates are applied using Change Assistant with AIS (Application Interface Server). The Force Spec Merge option enables you to bypass object evaluation process in Update Manager (which only merges the objects which are new or updated by Oracle) and merge the object, regardless of whether the incoming object is new or not.	See the following topic in the <i>JD Edwards EnterpriseOne Tools Software Updates Guide</i> : <ul style="list-style-type: none"> <li>• <a href="#">Deploying ESUs with Force Spec Merge Using Change Assistant and AIS</a></li> </ul>
Web Package Build Definition: Direct Access to Log and Output Files	This feature enables you to download package build logs and access the Server Package Build (R9621S) and Client Package Build (R9622C) reports using the Work With Package Build (P9621W) web application.	See the following topic in the <i>JD Edwards EnterpriseOne Tools Package Management Guide</i> : <ul style="list-style-type: none"> <li>• <a href="#">Accessing Package Build Logs and Reports Using the Work With Package Build (P9621W) Web Application</a></li> </ul>
Comparative Criteria on Queries and Watchlists	This feature enhances queries to allow the right comparison operand to be mapped from a field on the form.	See the following topics in the <i>JD Edwards EnterpriseOne Tools Using and Approving User Defined Objects Guide</i> : <ul style="list-style-type: none"> <li>• <a href="#">Creating and Saving Queries to Search for Data</a></li> <li>• <a href="#">Selecting Additional Fields</a></li> </ul>
My Tasks	This feature provides two enhancements. First, in addition to notification messages, orchestration messages can now be delivered to the notification list. Second, messages with tracked tasks are easier to identify, thus helping the message recipient be aware of important tasks to complete.	See the following topics in the <i>JD Edwards EnterpriseOne Tools Foundation Guide</i> : <ul style="list-style-type: none"> <li>• <a href="#">Working with Notification Messages</a></li> <li>• <a href="#">Working with Work Center Messages</a></li> <li>• <a href="#">Notifications List (Bell icon) in Message Center</a></li> </ul> See the following topic in the <i>JD Edwards EnterpriseOne Tools Orchestrator Guide</i> :

Feature	Description	Documentation
		<ul style="list-style-type: none"> <li>• <a href="#">Configuring a Message Request</a></li> </ul>
Restrict File Access to AIS Temporary Directory	<p>This feature adds a layer of administrative control over the location in which files are temporarily stored on the AIS server, for orchestrations that exchange files using FTP or REST connectors. System administrators can configure a setting to restrict orchestration files to the AIS temporary directory, or they can permit orchestration designers to specify an absolute path to any directory on the AIS server file system.</p>	<p>See the following topics in the <i>JD Edwards EnterpriseOne Tools Orchestrator Guide</i> :</p> <ul style="list-style-type: none"> <li>• <a href="#">Set Up a Temporary Directory on the AIS Server for File Transfers</a></li> <li>• <a href="#">Configuring a Message Request</a></li> <li>• <a href="#">Configuring a REST Connector to Transfer Files to a REST Service</a></li> <li>• <a href="#">Configuring a Connector to Transfer Files Using File Transfer Protocol (FTP)</a></li> <li>• <a href="#">Configure an FTP Connector to Transfer a File from the AIS Server to an External Server</a></li> <li>• <a href="#">Downloading a File</a></li> </ul>
Watchlists on EnterpriseOne Page Connectors	<p>This feature expands the value of EnterpriseOne pages, particularly pages used to depict process models, by exposing metrics about the relationships between adjacent steps in a business process. For example, metrics could be used to measure the number of transactions that are queued or are moving from one step to another.</p>	<p>See the following topic in the <i>JD Edwards EnterpriseOne Tools Using and Approving User Defined Objects Guide</i> :</p> <ul style="list-style-type: none"> <li>• <a href="#">Associating Tiles with Badges</a></li> </ul>
Translatable Orchestration Input Labels	<p>This feature extends the capabilities of launching orchestrations, notifications, and logic extensions from EnterpriseOne pages and form extensions by enabling you to not only change the labels on inputs, but also to provide language translations for those labels.</p>	<p>See the following topics in the <i>JD Edwards EnterpriseOne Tools Using and Approving User Defined Objects Guide</i> :</p> <ul style="list-style-type: none"> <li>• <a href="#">Configuring an Orchestration or Notification Component</a></li> <li>• <a href="#">Associating Orchestrations with Events</a></li> </ul>
Support for HMACSHA256 String Encoding	<p>This feature enables users to encode their JD Edwards generated invoices and supplier payment files with stronger encryption of HMACSHA256 encoding.</p>	<p>See the following topic in the <i>JD Edwards EnterpriseOne Tools Development Standards for Business Function Programming Guide</i> :</p> <ul style="list-style-type: none"> <li>• <a href="#">HMAC-SHA-256 API (Release 9.2.9.3)</a></li> </ul>
Pass Application Version as a Variable in Message Links	<p>This feature enhances the action links in messages by allowing the designer to pass the application version as an orchestration variable rather than hard-coding a specific version. This enables the application version to be configured dynamically, either by passing in a version as an orchestration or notification input, or by allowing the orchestration to derive the version in a previous orchestration step.</p>	<p>See the following topic in the <i>JD Edwards EnterpriseOne Tools Orchestrator Guide</i> :</p> <ul style="list-style-type: none"> <li>• <a href="#">Configuring a Message Request</a></li> </ul> <p>See the following topic in the <i>JD Edwards EnterpriseOne Tools Notifications Guide</i> :</p> <ul style="list-style-type: none"> <li>• <a href="#">Defining the Notification Message</a></li> </ul>
Server Manager: EnterpriseOne Page Clear Cache	<p>This feature enables system administrators to clear the cache for EnterpriseOne pages from the Server Manager Console. This updates the</p>	<p>See the following topic in the <i>JD Edwards EnterpriseOne Tools Server Manager Guide</i> :</p> <ul style="list-style-type: none"> <li>• <a href="#">Clear Data Cache</a></li> </ul>

Feature	Description	Documentation
	changes made to the EnterpriseOne pages without any delay.	
Synchronized Cache Clear Between Enterprise Server and HTML Server	This feature enables system administrators to clear the caches of the Enterprise Server and its associated HTML servers automatically with a single click.	See the following topic in the <i>JD Edwards EnterpriseOne Tools Server Manager Guide</i> : <ul style="list-style-type: none"> <li>• <a href="#">Clear Table Cache by Environment</a></li> <li>• <a href="#">Clear All Tables Caches in All Environments</a></li> </ul>
Automatic Negotiation of TLS for Secure Communication	This feature automatically negotiates the TLS version to be used for secure communication between the various components of JD Edwards. This enables seamless and secure communication between components supporting different versions of TLS.	See the following topic in the <i>JD Edwards EnterpriseOne Tools Server Manager Guide</i> : <ul style="list-style-type: none"> <li>• <a href="#">Applying TLS Configuration Setting for Server Manager Console and Agent</a></li> </ul> See the following topic in the <i>JD Edwards EnterpriseOne Tools REST API for Server Manager Guide</i> : <ul style="list-style-type: none"> <li>• <a href="#">Rest APIs for TLS Automation</a></li> </ul>

## Documentation Updates for EnterpriseOne Tools 9.2.9.4

The following table contains links to documentation updates in support of EnterpriseOne Tools 9.2.9.4:

Feature	Description	Documentation
EnterpriseOne Pages: Widget Pane	This feature extends the places on the EnterpriseOne user interface at which Widgets can be published. Specifically, this feature adds a new pane type to EnterpriseOne composed pages that enables you to drag-and-drop a widget pane onto a composed page and choose the Widget to be shown there.	See the following topic in the <i>JD Edwards EnterpriseOne Tools EnterpriseOne Widgets Guide</i> : <ul style="list-style-type: none"> <li>• <a href="#">Designing the EnterpriseOne Widgets</a></li> </ul> See the following topics in the <i>JD Edwards EnterpriseOne Tools Using and Approving User Defined Objects Guide</i> : <ul style="list-style-type: none"> <li>• <a href="#">Creating a New Composed EnterpriseOne Page</a></li> <li>• <a href="#">Adding a Widget Pane to a Composed EnterpriseOne Page</a></li> <li>• <a href="#">Widget Pane at Runtime</a></li> </ul> See the following topic in the <i>JD Edwards EnterpriseOne Tools Security Administration Guide</i> : <ul style="list-style-type: none"> <li>• <a href="#">Understanding Content Security</a></li> </ul>
Switch Statement in Logic Extensions	This feature adds a Switch statement to logic extensions, enabling you to establish	See the following topic in the <i>JD Edwards EnterpriseOne Tools Orchestrator Guide</i> :

Feature	Description	Documentation
	evaluation criteria in the form of cases in which you can compare criteria in the form of the same left operands, the equals operator, and multiple right operands. In this way you can efficiently create cases to evaluate data structure elements, variables, system literals, and constants to create branches of logic.	<ul style="list-style-type: none"> <li><a href="#">Adding a Switch Statement</a></li> </ul>
Rich Formatting of Workflow Messages	This feature enhances workflow messages to include rich-formatted text, tables, and graphics, increasing their visual appeal and effectiveness.	See the following topic in the <i>JD Edwards EnterpriseOne Tools Workflow Tools Guide</i> : <ul style="list-style-type: none"> <li><a href="#">Configuring an Information or Action Task</a></li> </ul>
Allow System Values in Orchestration Input Default Values	This feature enhances the automation capabilities of Orchestrator by allowing orchestration and schedule inputs to be assigned to system variables such as system date, environment, and user ID. For example, you can create an orchestration that includes a rule that branches based on the system environment value, and you can create an orchestration that runs on a weekly schedule and processes last week's data based on the system date "Today minus 7 days."	See the following topic in the <i>JD Edwards EnterpriseOne Tools Orchestrator Guide</i> : <ul style="list-style-type: none"> <li><a href="#">Adding Inputs to an Orchestration</a></li> </ul>

## Documentation Updates for EnterpriseOne Tools 9.2.26.0

The following table contains links to documentation updates in support of EnterpriseOne Tools 9.2.26.0:

Feature	Description	Documentation
Enterprise Automation Dashboard	<p>This feature provides a central, unified view of enterprise process models, metrics, key performance indicators (KPIs), and other data that you can use to get a broad view or drill into a detailed view of your enterprise.</p> <p>Specifically, this feature provides the following:</p> <ul style="list-style-type: none"> <li>An Oracle by Example that describes how to use EnterpriseOne pages to build a unified view of EnterpriseOne automation systems</li> <li>The ability to host up to two enterprise process models on an EnterpriseOne page</li> <li>The ability to create split views of process models and snapshots in the Enterprise Process Modeler</li> </ul>	<p>See the following Oracle by Example: <a href="#">Building an Enterprise Automation Dashboard</a></p> <p>See the following topics in the <i>JD Edwards EnterpriseOne Tools Using and Approving User Defined Objects Guide</i> :</p> <ul style="list-style-type: none"> <li><a href="#">Adding an Enterprise Process Pane to a Composed EnterpriseOne Page</a></li> <li><a href="#">Enterprise Process Pane at Runtime</a></li> </ul> <p>See the following topics in the <i>JD Edwards EnterpriseOne Tools Enterprise Process Modeler Guide</i> :</p> <ul style="list-style-type: none"> <li><a href="#">Understanding Split View in Enterprise Process Modeler</a></li> <li><a href="#">Using the Drill into Data Option</a></li> </ul>

Feature	Description	Documentation
	<ul style="list-style-type: none"> <li>The ability to highlight differences between split views based on user-defined thresholds</li> <li>The ability to drill into the query definition and the source data that generated the metrics and KPIs in a process model</li> </ul>	<ul style="list-style-type: none"> <li><a href="#">Using the Show Query Details Option</a></li> </ul> <p>See the following topic in the <i>JD Edwards EnterpriseOne Tools Security Administration Guide</i> :</p> <ul style="list-style-type: none"> <li><a href="#">Understanding Content Security</a></li> </ul>
Widgets with User Input	<p>This feature extends the ability to provide widget input to users themselves. For example, if you want to create a widget that shows the total value of all open sales orders for a business unit, and your company has 20 business units, you don't need to create and publish 20 widgets. You can create a single widget and enable the user to define the business unit as input. In this way widgets can be personalized for each user, without designers having to create, publish, and manage many widgets for every possible combination of inputs.</p>	<p>See the following topics in the <i>JD Edwards EnterpriseOne Tools Using and Approving User Defined Objects Guide</i> :</p> <ul style="list-style-type: none"> <li><a href="#">Adding a Widget Pane to a Composed EnterpriseOne Page</a></li> <li><a href="#">Widget Pane at Runtime</a></li> </ul>
Debug Orchestrations with File Inputs	<p>This feature enhances the Debug capability in Orchestrator Studio by enabling you to debug orchestrations that have file inputs. Similar to running an orchestration in Orchestrator Studio, you can specify files as inputs and then step into Debug mode to monitor the step-by-step execution of the orchestration.</p>	<p>See the following topic in the <i>JD Edwards EnterpriseOne Tools Orchestrator Guide</i> :</p> <ul style="list-style-type: none"> <li><a href="#">Debug Orchestration Features</a></li> </ul>
Detailed Debugging of Orchestration Form Requests	<p>This feature enhances the Debug capability in Orchestrator Studio by providing more granularity in debugging form requests that have multiple forms. The debugger can show you how many forms are within a form request step, which forms executed successfully, and on precisely which form an error occurred. With this enhancement you can easily identify the exact source of an error and debug orchestrations more efficiently.</p>	<p>See the following topic in the <i>JD Edwards EnterpriseOne Tools Orchestrator Guide</i> :</p> <ul style="list-style-type: none"> <li><a href="#">Debug Orchestration Features</a></li> </ul>
Scan for Cross-Site-Scripting (XSS) Vulnerabilities embedded in Media Object SVG or PDF files.	<p>This feature enables the system to scan PDF and SVG file types for cross-site scripting (XSS) vulnerabilities during the upload process. When the setting is enabled, files containing scripts are blocked.</p>	<p>See the following topic in the <i>JD Edwards EnterpriseOne Tools Security Administration Guide</i> :</p> <ul style="list-style-type: none"> <li><a href="#">User-Defined Inclusion List</a></li> </ul> <p>See the following topic in the <i>JD Edwards EnterpriseOne Tools Foundation Guide</i> :</p> <ul style="list-style-type: none"> <li><a href="#">Attaching a File</a></li> </ul>
OAuth Authentication Support for Outbound Messaging	<p>This feature provides additional authentication security for EnterpriseOne outbound messages through OAuth 2.0. Unlike basic authentication, OAuth 2.0 uses token-based access, eliminating the need to store or transmit sensitive credentials, thus reducing the</p>	<p>See the following topic in the <i>JD Edwards EnterpriseOne Tools Server Manager Guide</i> :</p> <ul style="list-style-type: none"> <li><a href="#">E-mail Configuration</a></li> </ul> <p>See the following topic in the <i>JD Edwards EnterpriseOne Tools Workflow Tools Guide</i> :</p>

Feature	Description	Documentation
	risk of unauthorized access and data breaches significantly.	<ul style="list-style-type: none"> <li>• <a href="#">SMTP Settings</a></li> </ul>
XLSX Format Support in JD Edwards EnterpriseOne Embedded BI Publisher	This enhancement enables users to choose XLSX format type in the Embedded Business Intelligence Publisher (BIP). User can select this output type along with existing output formats during the report design and submission process.	See the following topics in the <i>JD Edwards EnterpriseOne Tools BI Publisher for JD Edwards EnterpriseOne Guide</i> : <ul style="list-style-type: none"> <li>• <a href="#">BI Publisher for JD Edwards EnterpriseOne Overview</a></li> <li>• <a href="#">Defining Languages and Output Types</a></li> <li>• <a href="#">Viewing Report Definition Output Details</a></li> </ul>
Store Longer Media Object URLs	This feature enables users to store and access media objects in external cloud storage locations regardless of URL length.	See the following topics in the <i>JD Edwards EnterpriseOne Tools Runtime Administration Guide</i> : <ul style="list-style-type: none"> <li>• <a href="#">URL Media Object</a></li> <li>• <a href="#">Uploading Media Object Files to Database</a></li> </ul>
Form Extensions for Power Edit Forms: Launch Orchestrations, Notifications, and Logic Extensions	This feature expands the capabilities of form extensions to power edit forms. Specifically, this feature enables you to call orchestrations, notifications, and logic extensions from events on power edit forms. It also enables you to modify the controls on power edit forms as you can with form extensions on other form types.	See the following topic in the <i>JD Edwards EnterpriseOne Tools Using and Approving User Defined Objects Guide</i> : <ul style="list-style-type: none"> <li>• <a href="#">Form Extensibility Overview</a></li> </ul>
Notifications on EnterpriseOne Page Tiles	This feature enables you to associate notifications (by subscription) with tiles and connectors on EnterpriseOne pages. You can then see a notification badge, similar to Watchlists and Widgets, displaying the number of unread messages for that subscription right in the context of an EnterpriseOne page tile. For example, suppose you have built an EnterpriseOne page with tiles that depict a Purchase Order process, and one step in that process is "Approve PO." Also suppose that you have built notifications that request approval for purchase orders. With this feature you can associate those notifications to the specific Approve PO step in the process. Even if you have very many notifications, you can view which ones apply directly to the Approve PO step, thus helping you focus on the completion of critical tasks in the context of a process model.	See the following topics in the <i>JD Edwards EnterpriseOne Tools Using and Approving User Defined Objects Guide</i> : <ul style="list-style-type: none"> <li>• <a href="#">Adding and Configuring a Component in Designer Pane</a></li> <li>• <a href="#">Associating Tiles with Badges</a></li> <li>• <a href="#">Removing Notifications from Badges (Release 9.2.26.0)</a></li> <li>• <a href="#">Notification Badges at Runtime (Release 9.2.26.0)</a></li> </ul>
Conditional Launch of an Orchestration, Notification, or Logic Extension from a Form	This feature enables the designer to set conditions under which an orchestration, notification, or logic extension is launched from an event on a form extension.	See the following topic in the <i>JD Edwards EnterpriseOne Tools Using and Approving User Defined Objects Guide</i> : <ul style="list-style-type: none"> <li>• <a href="#">Associating Orchestrations with Events</a></li> </ul>

Feature	Description	Documentation
Support for 4096-bit Certificates for LDAP over SSL	Starting with Tools Release 9.2.26.0, you can use 4096-bit certificates for LDAP over SSL for stronger security.	See the following topic in the <i>JD Edwards EnterpriseOne Tools Security Administration Guide</i> : <ul style="list-style-type: none"> <li>• <a href="#">Using LDAP Over SSL/TLS</a></li> </ul>
Web OMW Table Operations	Starting with Tools Release 9.2.26.0, you can use table operations to create and maintain the EnterpriseOne environment. With this feature, you can manage the physical attributes of tables from the EnterpriseOne web client, instead of the development client. This functionality provides extended options for table indexes such as the ability to generate a single index. EnterpriseOne users can perform an *ALTER operation on existing tables with changed formats to retain the existing data.	See the following topic in the <i>JD Edwards EnterpriseOne Tools Object Management Workbench for the Web Guide</i> : <ul style="list-style-type: none"> <li>• <a href="#">Table Operations</a></li> </ul>
Pass Printer Output Options as Orchestration Variables	Starting with Tools Release 9.2.26.0, Orchestrator's ability to call EnterpriseOne reports enables you to create implementations that merge the automation and intelligence of Orchestrator with the classic processing of the EnterpriseOne report engine. For report processing that is intended to generate printed output, the automation and intelligence of Orchestrator can be used by dynamically setting several print options.	See the following topic in the <i>JD Edwards EnterpriseOne Tools Orchestrator Guide</i> : <ul style="list-style-type: none"> <li>• <a href="#">Executing a Report</a></li> </ul>
Job Scheduler – Web Interface Application	This feature provides a web version of the Job Scheduler application, offering the same functionality as the Windows development client version and enabling system administrators to manage all tasks related to the scheduler without the need for a development client. The Scheduler Kernel has an interface that enables system administrators to control, configure, maintain, and monitor scheduled jobs on the web client.	See the following topic in the <i>JD Edwards EnterpriseOne Tools System Administration Guide</i> : <ul style="list-style-type: none"> <li>• <a href="#">Scheduling Jobs Using the Web Client</a></li> </ul>
JD Edwards Update Manager: Language Support through Web Software Updates	This feature enables you to apply cumulative (UN) language packages, language fix packages, and language update packages using the Software Updates application run over the web client. Language Packages are provided as a multi-platform deliverable that can be checked into the JD Edwards Update Manager repository, using the web client, and tracked with the software updates history.	See the following topics in the <i>JD Edwards EnterpriseOne Tools Software Updates Guide</i> : <ul style="list-style-type: none"> <li>• <a href="#">Deploying Language Packages Using the Web Client</a></li> <li>• <a href="#">Deploying Language Packages Using Change Assistant with the AIS Server Connection</a></li> </ul>
Support for Microsoft SQL Server Clustering	Starting with Tools Release 9.2.26.0, customers using Microsoft SQL Server as their database can take advantage of its clustering capabilities with Always On Failover Cluster Instance and Always On availability groups to achieve better business continuity and system availability. This feature provides high availability of the	See the following topic in the <i>JD Edwards EnterpriseOne Tools Server Manager Guide</i> : <ul style="list-style-type: none"> <li>• <a href="#">Overview</a></li> </ul>

Feature	Description	Documentation
	database with graceful database failover during planned maintenance.	
Optimized Sessions Management on Oracle Database	This feature enables you to set a time limit for the database session while you are running your JD Edwards with Oracle Database. It ensures termination of the database sessions whenever the session time exceeds a threshold thereby freeing up the database resources in a timely manner, which can be utilized for subsequent database sessions.	See the following topic in the <i>JD Edwards EnterpriseOne Tools Server Manager Guide</i> : <ul style="list-style-type: none"> <li><a href="#">Overview</a></li> </ul>

## Additional Documentation Updates for Supplemental EnterpriseOne Updates

The following table describes additional documentation updates to the JD Edwards EnterpriseOne Tools Documentation Library for other minor software updates and supplemental releases.

Feature	Publication Date	Description	Documentation
Active Content Pages	February 2016	As of EnterpriseOne Tools release 9.2.0.2, EnterpriseOne Pages are referred to as Classic EnterpriseOne Pages. A new type of Classic EnterpriseOne Pages called Active Content Pages—prebuilt pages that contain enhanced content based on "personas"—are now available.  A prerequisite to supporting Active Content Pages requires updating a Server Manager setting for the EnterpriseOne HTML Server to point to the EnterpriseOne Application Interfaces Services (AIS) Server.	See the following topic: <ul style="list-style-type: none"> <li><a href="#">Classic EnterpriseOne Pages Overview</a> in the <i>JD Edwards EnterpriseOne Tools Using and Approving User Defined Objects Guide</i></li> </ul>
JD Edwards EnterpriseOne mobile enterprise applications integration with Oracle Mobile Cloud Service	June 2016	You can configure a JD Edwards EnterpriseOne mobile application archive (MAAs), which enable developers to create a custom mobile application from an existing EnterpriseOne mobile enterprise application, to work with Oracle Mobile Cloud Service. Oracle Mobile Cloud Service is a cloud-based service that provides a unified hub for developing, deploying, maintaining, monitoring, and analyzing your mobile applications and the resources that they rely on.	See the following topic: <ul style="list-style-type: none"> <li><a href="#">Integration with Oracle Mobile Cloud Service</a> in the <i>JD Edwards EnterpriseOne Tools Developing and Customizing Mobile Enterprise Applications Guide</i></li> </ul>

Feature	Publication Date	Description	Documentation
Using Enterprise Manager 13.2 Cloud Control with JD Edwards EnterpriseOne	July 2016	In Enterprise Manager, you can add a JD Edwards domain for a cloud instance, and use new metrics and available servers.	See the following topic: <ul style="list-style-type: none"> <li><a href="#">Using Enterprise Manager 13.2 Cloud Control with JD Edwards EnterpriseOne (Release 9.2.1 Update) in the JD Edwards EnterpriseOne Application Pack for Oracle Enterprise Manager Cloud Control 13c Implementation Guide</a></li> </ul>
REST APIs for JD Edwards EnterpriseOne AIS Server	January 2017	The JD Edwards EnterpriseOne Application Interface Services (AIS) Server REST APIs provide services that AIS clients can use to interact with EnterpriseOne applications.	See the <a href="#">JD Edwards EnterpriseOne Tools REST API for the Application Interface Services Server Guide</a> .
Case-insensitive search setting	August 2017	As of EnterpriseOne Tools release 9.2.1.5, EnterpriseOne Search and Task Search has a new case-insensitive configuration setting.	See the following topic in the <a href="#">JD Edwards EnterpriseOne Tools Using and Approving User Defined Objects Guide</a> : <ul style="list-style-type: none"> <li><a href="#">Working with EnterpriseOne Search</a></li> </ul> See the following topic in <a href="#">JD Edwards EnterpriseOne Tools Foundation Guide</a> : <ul style="list-style-type: none"> <li><a href="#">JD Edwards EnterpriseOne Navigator Menu</a></li> </ul> See the following topic in the <a href="#">JD Edwards EnterpriseOne Tools Runtime Administration Guide</a> : <ul style="list-style-type: none"> <li><a href="#">Setting Up Case-Insensitive Search</a></li> </ul>
Universal Cache Browser deprecation	August 2017	The Universal Cache Browser utility has been deprecated with Bug 26362447.	See the following topic in the <a href="#">JD Edwards EnterpriseOne Tools Runtime Administration Guide</a> : <ul style="list-style-type: none"> <li><a href="#">Using the Universal Cache Browser</a></li> </ul>
Viewing table definitions	August 2018	Added new section about viewing table definitions from an EnterpriseOne web client in support of an EnterpriseOne Applications update.	See the following topic in the <a href="#">JD Edwards EnterpriseOne Tools Foundation Guide</a> : <ul style="list-style-type: none"> <li><a href="#">Viewing Table Definition</a></li> </ul>
Automatic WebSphere WebSocket Configuration Support on Application Interface Services (AIS) Server	June 2020	This section describes the automatic configurations in the WAS administrative console of the J2EE container when you create or upgrade an AIS component (Release 9.2.4.3 or higher) using Server Manager Release 9.2.4.4 or higher.	See the following topic in the <a href="#">JD Edwards EnterpriseOne Tools Orchestrator Guide</a> : <ul style="list-style-type: none"> <li><a href="#">Automatic WebSphere WebSocket Configuration Support on Application</a></li> </ul>

Feature	Publication Date	Description	Documentation
			<i>Interface Services (AIS) Server</i>



## 2 Documentation Corrections

### Documentation Corrections

This chapter describes revisions made to the JD Edwards EnterpriseOne Tools guides due to reported documentation issues:

### Application Interface Services (AIS) Client Java API Developer's Guide

The following table describes updates to the *JD Edwards EnterpriseOne Application Interface Services Client Java API Developer's Guide* :

Publication Date	Revision Description	Documentation
December 2015	Added the /tokenrequest/logout endpoint URI to the list of endpoints for accessing EnterpriseOne applications and data.	See the following topic: <ul style="list-style-type: none"> <li><a href="#">Accessing AIS Server Endpoints with the AIS Client Java API</a></li> </ul>

### Application Interface Services (AIS) Server Reference Guide

The following table describes updates to the *JD Edwards EnterpriseOne Application Interface Services Server Reference Guide* :

Publication Date	Revision Description	Documentation
November 2016	You can set up an additional HTML Server instance for processing only requests from an AIS Server.	See the following topic in the <i>JD Edwards EnterpriseOne Application Interface Services Server Reference Guide</i> : <ul style="list-style-type: none"> <li><a href="#">Additional EnterpriseOne HTML Server Instance for Processing AIS Requests</a></li> </ul>
December 2017	Added descriptions of version 2 capabilities available with version 2 AIS services released with EnterpriseOne Tools 9.2.1.2.	See the following topics: <ul style="list-style-type: none"> <li><a href="#">AIS Server Capabilities</a></li> </ul>

Publication Date	Revision Description	Documentation
		<ul style="list-style-type: none"> <li><a href="#">Version 2 AIS Server Capabilities</a></li> </ul>
April 2018	A description of OAuth 2.0 for AIS client authentication was added to this guide, which is supported starting with EnterpriseOne Tools release 9.2.1.2.	See the following topic: <ul style="list-style-type: none"> <li><a href="#">Understanding AIS Authentication</a></li> </ul>

## Auditing Administration Guide

The following table describes updates to the *JD Edwards EnterpriseOne Tools Auditing Administration Including 21 CFR Part 11 Administration Guide* :

Publication Date	Revision Description	Documentation
July 2017	Auditing of system tables is NOT supported due to system tables being shared across multiple path codes.	See the following topic: <ul style="list-style-type: none"> <li><a href="#">Setting Up Multiple Path Codes for Auditing and Electronic Signatures</a></li> </ul>
October 2017	Added steps to describe the configuration of SQL Server 2005/2008/2012/2014 database for auditing.	See the following topic: <ul style="list-style-type: none"> <li><a href="#">Configuring SQL Server 2005/2008/2012/2014 Database for Auditing</a></li> </ul>
December 2017	In the OCM mappings steps, corrected typo in name of business function from B950005 to B9500005.	See the following topic: <ul style="list-style-type: none"> <li><a href="#">Creating OCM Mappings for 21 CFR Part 11</a></li> </ul>

## Business Services Server Reference Guide

The following table describes updates to the *JD Edwards EnterpriseOne Tools Business Services Server Reference Guide* :

Publication Date	Revision Description	Documentation
November 2016	Added the section "WebLogic Server 12c with Tools Release 9.2.x and above" to this guide.	See the following topic: <ul style="list-style-type: none"> <li><a href="#">Removing the Security Policy from an EnterpriseOne Web Service</a></li> </ul>
April 2018	Added section on how to increase the performance of Business Service Server while starting it in WebSphere 9.0 by adding a custom JVM property.	See the following topic:

Publication Date	Revision Description	Documentation
		<ul style="list-style-type: none"> <li><a href="#">Adding a Custom Property for Improving Business Service Server Startup in IBM WebSphere 9.0</a></li> </ul>
November 2020	Added details about the enqueueTimeout parameter.	See the following topic: <ul style="list-style-type: none"> <li><a href="#">Configuring a Business Services Server to Use a Single Port</a></li> </ul>

## Deploying and Developing Oracle Application Development Framework (ADF) Applications for JD Edwards EnterpriseOne Guide

The following table describes updates to this guide:

Publication Date	Revision Description	Documentation
July 2016	<p>This guide was reorganized into separate parts to include the contents of the <i>JD Edwards EnterpriseOne ApplicationInterface Services Server for Application Developer Framework (ADF) Applications Configuration Guide</i> .</p> <p>It was updated to reduce duplication of content among guides related to the development of applications that use the AIS Server to interact with EnterpriseOne. In particular:</p> <ul style="list-style-type: none"> <li>Most of the contents in the "Executing AIS Calls for Retrieving Data" chapter has been removed and replaced with a cross reference to the same content in the <i>JD Edwards EnterpriseOne Application Interface Services Client Java API Developer's Guide</i> .</li> <li>AIS Client Class Generator content was moved to the <i>JD Edwards EnterpriseOne Application Interface Services Server Reference Guide</i> .</li> <li>AIS Server capabilities content was moved to the <i>JD Edwards EnterpriseOne Application Interface Services Server Reference Guide</i> .</li> </ul>	See the following topics: <ul style="list-style-type: none"> <li><a href="#">Executing AIS Calls for Retrieving Data</a></li> <li><a href="#">Part I, "EnterpriseOne ADF Applications Overview"</a></li> <li><a href="#">Part II, "EnterpriseOne ADF Application Deployment"</a></li> <li><a href="#">Part III, "EnterpriseOne ADF Application Development Resources"</a></li> </ul>
November 2016	Described how the process for applying the JRF template is different based on the	See the following topic: <ul style="list-style-type: none"> <li><a href="#">Create a Managed Server</a></li> </ul>

Publication Date	Revision Description	Documentation
	version of Oracle WebLogic Server being used.	
April 2017	Added this note: For WLS 12.2.1, the JRF template is automatically applied to the new server as long as the managed server was created before extending ADF runtime. Therefore, you can disregard the above instructions. However, if the managed server was created after, then you must apply the JRF template manually as described above.	See the following topic: <ul style="list-style-type: none"> <li><a href="#">Apply the JRF Template to the New Managed Server</a></li> </ul>
October 2017	Described default timeout settings for the AIS Server and ADF Server, including a caution that the ADF Server timeout setting must never be higher than the AIS Server timeout setting.	See the following topic: <ul style="list-style-type: none"> <li><a href="#">Runtime Architecture for EnterpriseOne ADF Applications</a></li> </ul>
April 2018	Moved the steps to manually deploy EnterpriseOne ADF applications to an appendix. Replaced the content in the main part of the guide with a cross reference to the chapter in the <i>Server Manager Guide</i> that describes how to deploy EnterpriseOne ADF applications and an ADF Server instance through Server Manager.	See the following topic: <ul style="list-style-type: none"> <li><a href="#">Deploy an Oracle Application Development Framework (ADF) Server Instance (Release 9.2.1.2) in the JD Edwards EnterpriseOne Tools Server Manager Guide</a></li> </ul>

## Developing and Customizing Mobile Enterprise Applications Guide

The following table describes updates to the *JD Edwards EnterpriseOne Tools Developing and Customizing Mobile Enterprise Applications Guide* :

Publication Date	Revision Description	Documentation
December 2015	Added the /tokenrequest/logout endpoint URI to the list of endpoints for accessing EnterpriseOne applications and data.	See the following topic: <ul style="list-style-type: none"> <li><a href="#">Working with the EnterpriseOne REST Services Interface</a></li> </ul>
December 2015	In the "Including the Resource Bundle" section, added the following note after step 1 for clarification:  <b>Note:</b> The ViewController project is dependent on the ApplicationController project. Adding the bundle to the	See the following topic: <ul style="list-style-type: none"> <li><a href="#">Including the Resource Bundle</a></li> </ul>

Publication Date	Revision Description	Documentation
	ApplicationController project will also make it available to the ViewController project.	
April 2016	Added clarification about the gettext Service on the AIS Server. Clarified the format of the plain text returned in the media object is Unicode (UTF-8).	See the following topic: <ul style="list-style-type: none"> <li><a href="#">gettext Service</a></li> </ul>
July 2016	This guide was updated to reduce duplication of content among guides related to the development of applications that use the AIS Server to interact with EnterpriseOne. In particular: <ul style="list-style-type: none"> <li>AIS Client Class Generator content was moved to the AIS Server Reference Guide (formerly the AIS Server for JD Edwards EnterpriseOne Mobile Enterprise Applications Configuration Guide).</li> <li>AIS Server capabilities content was moved to the AIS Server Reference Guide.</li> <li>AIS Server services (endpoints) was moved to the AIS Server Reference Guide.</li> </ul>	See the <a href="#">JD Edwards EnterpriseOne Tools Developing and Customizing Mobile Enterprise Applications Guide</a> .
February 2018	Added an example of the code for closing an applicationStack, which was not previously in the mobile application code example.	See the following topic: <ul style="list-style-type: none"> <li><a href="#">Mobile Application Example</a></li> </ul>

## Development Tools Overview Guide

The following table describes updates to the *JD Edwards EnterpriseOne Tools Development Tools Overview Guide* :

Publication Date	Revision Description	Documentation
July 2017	Removed reference to SAR in list of acronyms because the SAR system is for Oracle internal use only.	See the following topic: <ul style="list-style-type: none"> <li><a href="#">Acronym List</a></li> </ul>

## Foundation Guide

The following table describes updates to the *JD Edwards EnterpriseOne Tools Foundation Guide* :

Publication Date	Revision Description	Documentation
October 2015	Added a note that One View Reports and queries are UDOs that must be shared for other users to see them. Also noted that users must have appropriate permissions to view the UDOs.	See the following topic: <ul style="list-style-type: none"> <li><a href="#">Adding One View Reporting (OVRs) to EnterpriseOne Pages</a></li> </ul>
April 2017	UDO topics have been moved to the <i>JD Edwards EnterpriseOne Tools Using and Approving User Defined Objects Guide</i> , and the Foundation guide has been reorganized to make it easier to navigate and find content.	See the <a href="#">JD Edwards EnterpriseOne Tools Foundation Guide</a> . See the <a href="#">JD Edwards EnterpriseOne Tools Using and Approving User Defined Objects Guide</a>
June 2017	Due to discontinued support of voice commands for EnterpriseOne, the chapter about voice commands was removed from the guide.	
July 2017	The configuration information in the "Prerequisites" section of the "Using Oracle Content and Experience Cloud for JD Edwards EnterpriseOne (Release 9.2.1.2)" chapter was moved to the <i>JD Edwards EnterpriseOne Tools Runtime Administration Guide</i> . Also, the chapter was revised for clarity.	See the following topic: <ul style="list-style-type: none"> <li><a href="#">Using Oracle Content and Experience Cloud for JD Edwards EnterpriseOne (Release 9.2.1.2 - Release 9.2.8)</a></li> </ul>

## JD Edwards EnterpriseOne Tools IBM WebSphere Portal for IBM i for Power Systems Guide

The following table describes updates to the *JD Edwards EnterpriseOne Tools IBM WebSphere Portal for IBM i for Power Systems Guide* :

Publication Date	Revision Description	Documentation
October 2016	Changed the documentation to direct users to the IBM web site to download IBM components.	See <a href="#">Installing the Portal Server</a> .

## JD Edwards EnterpriseOne Tools IBM WebSphere Portal for IBM WebSphere Portal for Microsoft Windows Guide

The following table describes updates to the *JD Edwards EnterpriseOne Tools IBM WebSphere Portal for Microsoft Windows Guide* :

Publication Date	Revision Description	Documentation
October 2016	Changed the documentation to direct users to the IBM web site to download IBM components.	See <i>Installing the Portal Server</i> .

## JD Edwards EnterpriseOne Tools IBM WebSphere Portal for UNIX Guide

The following table describes updates to the *JD Edwards EnterpriseOne Tools IBM WebSphere Portal for Unix Guide* :

Publication Date	Revision Description	Documentation
March 2016	Changed the documentation to direct users to the IBM web site to download IBM components.	See <i>Installing the Portal Server</i> .

## JD Edwards EnterpriseOne Tools IBM WebSphere Portal Reference Guide

The following table describes updates to the *JD Edwards EnterpriseOne Tools IBM WebSphere Portal Reference Guide* :

Publication Date	Revision Description	Documentation
March 2016	Due to discontinued support of Collaborative Portal, chapters containing Collaborative Portal content were removed from the guide.	See the <i>JD Edwards EnterpriseOne Tools IBM WebSphere Portal Reference Guide</i> .

## Notifications Guide

The following table describes updates to the *JD Edwards EnterpriseOne Tools Notifications Guide* :

Publication Date	Revision Description	Documentation
August 2018	Added information regarding a scenario where you might want to allow subscriber overrides for a notification, but run that notification as a proxy user rather than as each individual subscriber.	See the following topic: <ul style="list-style-type: none"> <li><a href="#">Planning for "Run As Subscriber" and "Allowing Subscriber Overrides"</a></li> </ul>

## One View Administration Guide

The following table describes updates to the *JD Edwards EnterpriseOne Tools One View Administration Guide* :

Publication Date	Revision Description	Documentation
December 2015	Added explicit instructions that when creating a soft coding record, the root catalog value must be "JD Edwards" and should not be changed to anything else.	See the following topics: <ul style="list-style-type: none"> <li><a href="#">Creating a Soft Coding Record</a></li> <li><a href="#">Soft Coding Value Guidelines</a></li> <li><a href="#">Soft Coding Value Guidelines</a></li> </ul>
August 2017	Added steps to this chapter to describe how to add a BI Publisher Group since default groups no longer exist in Oracle BI Publisher 12c.	See the following topic: <ul style="list-style-type: none"> <li><a href="#">Configuring BI Publisher Users for One View Reporting</a></li> </ul>

## Orchestrator Guide

The following table describes updates to the *JD Edwards EnterpriseOne Tools Orchestrator Guide for Studio Version 8 and Prior* :

Publication Date	Revision Description	Documentation
July 2016	Previously, the section that referred to configuring Oracle WebLogic Server with ADF runtime (required for running the Orchestrator Studio) included a	See the following topic: <ul style="list-style-type: none"> <li><a href="#">Deploying and Setting Up the Orchestrator Studio</a></li> </ul>

Publication Date	Revision Description	Documentation
	link to instructions in the <i>Oracle Fusion Middleware Guide for Oracle WebLogic Server</i> . This cross reference was replaced with a link to step-by-step instructions for this configuration in the <i>JD Edwards EnterpriseOne Deploying and Developing Oracle Application Development Framework (ADF) Applications for JD Edwards EnterpriseOne Guide</i> .	
February 2017	Added recommended security setup for customers who expose orchestrations for their business partners or customers to invoke.	See the following topic: <ul style="list-style-type: none"> <li><a href="#">Restricting Access to Exposed Orchestrations</a></li> </ul>
April 2017	Added information on how to maintain a single AIS Server session for multiple calls to an orchestration.	See the following topic: <ul style="list-style-type: none"> <li><a href="#">How to Maintain a Single Session for Multiple Calls to an Orchestration</a></li> </ul>
July 2017	Clarified that the Orchestrator Studio 5.1.0 deployment is supported on a minimum of Oracle WebLogic Server 12.2.1.	See the following topic: <ul style="list-style-type: none"> <li><a href="#">Prerequisites</a></li> </ul>
July 2017	<p>Provided additional information about how orchestrations are saved to the AIS Server, where the name of the orchestration becomes the endpoint. Third-party applications and IoT devices can invoke an orchestration endpoint with a POST call in a URL.</p> <p>Also added information about using curl to test orchestrations in addition to testing in the Orchestrator Client.</p>	See the following topics: <ul style="list-style-type: none"> <li><a href="#">Understanding the Orchestrator Studio and Orchestrations</a></li> <li><a href="#">Creating an Orchestration</a></li> <li><a href="#">Using Curl to Simulate Testing from a Third-Party Application or IoT Device</a></li> </ul>
October 2017	Updated Prerequisites section to reference Orchestrator Studio 6.0.1, which supersedes and replaced Orchestrator Studio 6.0.0 on the Update Center. Orchestrator Studio 6.0.1 contains bug fixes and enhanced menu navigation for selecting new service request types and rule types.	See the following topic: <ul style="list-style-type: none"> <li><a href="#">Prerequisites</a></li> </ul>
January 2018	Described the attributes and methods available in the <code>OrchestrationAttributes</code> class, which can be used in all Groovy script templates in the Orchestrator Studio. You can use the attributes and methods in this class to include additional information in the Groovy scripts.	See the following topic: <ul style="list-style-type: none"> <li><a href="#">Additional Attributes and Methods Available in the Groovy Script Templates</a></li> </ul>
July 2018	Added a link to view a recording on how to use the Orchestrator Process Recorder, a tool in EnterpriseOne that enables you to record a series of actions in EnterpriseOne	See the following topic:

Publication Date	Revision Description	Documentation
	and save those actions as a new form request.	<ul style="list-style-type: none"> <li>• <a href="#">Creating a Form Request with the JD Edwards EnterpriseOne Orchestrator Process Recorder</a></li> </ul>
August 2018	In the rules for using the Process Recorder, clarified that users must start the Process Recorder before performing the first action in an EnterpriseOne application.	See the following topic: <ul style="list-style-type: none"> <li>• <a href="#">Rules for Creating a Form Request in the Process Recorder</a></li> </ul>
June 2021	This section describes how the references to values in the code are related to the inputs and outputs defined in the table below the script.	See the following topic: <ul style="list-style-type: none"> <li>• <a href="#">Defining the Input and Output Variables</a></li> </ul>

## Product Packaging Guide

The following table describes updates to the *JD Edwards EnterpriseOne Tools Product Packaging Guide* :

Publication Date	Revision Description	Documentation
July 2017	Removed obsolete section regarding problems caused by objects created with a SAR that contains an alpha character. The SAR system is for Oracle internal use only.	See the following topic: <ul style="list-style-type: none"> <li>• <a href="#">Problems with Object Librarian Records</a></li> </ul>

## Runtime Administration Guide

The following table describes updates to the *JD Edwards EnterpriseOne Tools Runtime Administration Guide* :

Publication Date	Revision Description	Documentation
February 2017	Added new and updated steps for Uploading Media Object Files to Database using R98MODAT in support of Objects to the Database.	See the following topic: <ul style="list-style-type: none"> <li>• <a href="#">Uploading Media Object Files to Database</a></li> </ul>
July 2017	The configuration information for using Oracle Content and Experience Cloud with JD Edwards EnterpriseOne (Release 9.2.1.2) was moved from the Foundation Guide to this guide.	See the following topic: <ul style="list-style-type: none"> <li>• <a href="#">Configuring EnterpriseOne with Oracle Content and Experience Cloud (Release 9.2.1.2 - Release 9.2.8)</a></li> </ul>

Publication Date	Revision Description	Documentation
April 2022	The URLs for the JD Edwards EnterpriseOne online documentation, Oracle Help Queue, and the corresponding screenshots have been updated. This information is required for setting up Help for the JD Edwards EnterpriseOne web client and development client.	See the following topics: <ul style="list-style-type: none"> <li>• <a href="#">Setting up Help for the JD Edwards EnterpriseOne Web Client</a></li> <li>• <a href="#">Setting up Help for the JD Edwards EnterpriseOne Development Client</a></li> <li>• <a href="#">JD Edwards EnterpriseOne Online Documentation</a></li> </ul>

## Security Administration Guide

The following table describes updates to the *JD Edwards EnterpriseOne Tools Security Administration Guide* :

Publication Date	Revision Description	Documentation
December 2015	Replaced outdated screenshots in the "Managing UDO View Security from P98220U" section.	See the following topic: <ul style="list-style-type: none"> <li>• <a href="#">Managing UDO View Security</a></li> </ul>
January 2017	Corrected description of the features that are disabled when EnterpriseOne is enabled for user profile management through an LDAP system.	See the following topic: <ul style="list-style-type: none"> <li>• <a href="#">User Profile Management in LDAP-Enabled JD Edwards EnterpriseOne</a></li> </ul>
January 2017	Added sections describing how to add JD Edwards EnterpriseOne HTML Server user to the OID and creating Identity Store in OAM Console	See the following topics: <ul style="list-style-type: none"> <li>• <a href="#">Adding JD Edwards EnterpriseOne HTML Server User to the OID</a></li> <li>• <a href="#">Creating Identity Store in OAM Console</a></li> </ul>
April 2017	Added instructions for configuring single sign-on support of AIS clients, including mobile enterprise applications, as part of an EnterpriseOne SSO configuration with OAM.	See the following topic: <ul style="list-style-type: none"> <li>• <a href="#">Configuring SSO Support for EnterpriseOne AIS Server Clients</a></li> </ul>
October 2017	A chapter describing the SSL/TLS configuration between the BI Publisher Server and the EnterpriseOne HTML Server has been replaced by a chapter describing SSL/TLS configuration for all EnterpriseOne servers.	See the following topic: <ul style="list-style-type: none"> <li>• <a href="#">Configuring SSL for EnterpriseOne Servers on Oracle WebLogic Server</a></li> </ul>
October 2017	Starting with EnterpriseOne Tools 9.2.1, if you do not set up site keys for data encryption, then you can not add new database proxy users.	See the following topic: <ul style="list-style-type: none"> <li>• <a href="#">Encrypting Database Proxy User Passwords</a></li> </ul>

Publication Date	Revision Description	Documentation
November 2017	Added section on how to disable weak cipher suites in Oracle WebLogic or Java for an SSL configuration.	See the following topic: <ul style="list-style-type: none"> <li><a href="#">Disabling Weak Cipher Suites</a></li> </ul>
April 2018	Provided information about EnterpriseOne Application Interface Services (AIS) Server security and AIS client security.	See the following topic: <ul style="list-style-type: none"> <li><a href="#">Application Interface Services (AIS) Server and AIS Client Security</a></li> </ul>
November 2018	Updated guide with additional SSL configuration information for EnterpriseOne servers. Updates include adding references to IBM documentation for configuring SSL on IBM WebSphere Application Server and IBM HTTP server. Also added information on how to configure SSL communication between the EnterpriseOne Enterprise Server and AIS Server, which is required to authenticate requests to the AIS Server starting with EnterpriseOne Tools 9.2.2.2.	See the following topic in the <i>JD Edwards EnterpriseOne Tools Security Administration Guide</i> : <ul style="list-style-type: none"> <li><a href="#">Configuring SSL for EnterpriseOne Servers</a></li> </ul>
July 2019	Updated the guide to include the link to the white paper "JD Edwards EnterpriseOne HCM Applications Data Security" on the Oracle Learning Library site.	See the following topic in the <i>JD Edwards EnterpriseOne Tools Security Administration Guide</i> : <ul style="list-style-type: none"> <li><a href="#">Understanding Application Security</a></li> </ul>
April 2020	This section describes how to set up the Microsoft Active Directory Server and enable it for using SSL.	See the following topic in the <i>JD Edwards EnterpriseOne Tools Security Administration Guide</i> : <ul style="list-style-type: none"> <li><a href="#">Setting Up Microsoft Active Directory Server</a></li> </ul>
April 2021	Added a note that as of Tools Release 9.2.5.3, Mozilla Network Security Services (NSS) does not support the AIX platform.	See the following topic in the <i>JD Edwards EnterpriseOne Tools Security Administration Guide</i> : <ul style="list-style-type: none"> <li><a href="#">Understanding LDAP with SSL/TLS</a></li> </ul>
June 2021	In some cases, specifically when load balancers are used, the device name may be required in the tokenrequest and in the subsequent requests.	See the following topic: <ul style="list-style-type: none"> <li><a href="#">Using Stateless Load Balancing</a></li> </ul>
October 2022	Made changes to the screenshot to represent accurate information after the enhancement in 9.2.5.4 to allow JWT sign on to the Web Client. Added information about the additional flow directly from browser to web client with JWT (not through AIS).	See the following topic: <ul style="list-style-type: none"> <li><a href="#">"JWT Authentication Flow"</a></li> </ul>
June 2023	Starting with Tools Release 9.2.7.4, the always option is not available for frameBustingForApp.	See the following topic: <ul style="list-style-type: none"> <li><a href="#">Framebusting</a></li> </ul>

# Software Updates Guide

The following table describes updates to the *JD Edwards EnterpriseOne Tools Software Updates Guide* :

Publication Date	Revision Description	Documentation
December 2015	In the instructions for the Version Compare Report, removed bullet point that stated that data selection differences for batch versions are compared because it was misleading.	See the following topic: <ul style="list-style-type: none"> <li>• <a href="#">Reading the Report</a></li> </ul>
July 2017	Removed all references to "SAR" in the Change Assistant chapter since the term is no longer used in the Change Assistant application.	See the following topic: <ul style="list-style-type: none"> <li>• <a href="#">Using Change Assistant</a></li> </ul>
August 2018	Added information about validating if the Software Update Report (R96701) has updated the Object Librarian Archive Repository (F98780R) and Object Librarian Archive History (F98780H) tables in central objects.	See the following topic: <ul style="list-style-type: none"> <li>• <a href="#">Validating the Update</a></li> </ul>
August 2018	Added note that you should apply the latest Planner ESU before applying any Applications ESUs.	See the following topics: <ul style="list-style-type: none"> <li>• <a href="#">Understanding the Update Process</a></li> <li>• <a href="#">Installing the Software Update on the Deployment Server</a></li> </ul>
June 2025	<ul style="list-style-type: none"> <li>• Included a Note each in the Prerequisite, User Access by Application Modules and User Access by Application Modules – Based on Roles sections.</li> <li>• Updated the pie chart to bar graph in the sections User Access by Application Modules and User Access by Application Modules – Based on Roles.</li> <li>• Included the updated information for the records in the sections User Access by Application Modules and User Access by Application Modules – Based on Roles.</li> </ul>	See the following topics: <ul style="list-style-type: none"> <li>• <a href="#">Prerequisite</a></li> <li>• <a href="#">User Access by Application Modules</a></li> <li>• <a href="#">User Access by Application Modules – Based on Roles</a></li> </ul>

## Using and Approving User Defined Objects Guide

The following table describes updates to the *JD Edwards EnterpriseOne Tools Using and Approving User Defined Objects Guide* :

Publication Date	Revision Description	Documentation
April 2017	This guide was formerly titled <i>Management of User Defined Objects Approval Application Guide</i> . All UDO content formerly in the <i>Foundation Guide</i> has been moved to this guide.	See the <a href="#">JD Edwards EnterpriseOne Tools Using and Approving User Defined Objects Guide</a> .
April 2017	Updated the content regarding language translations for UDO names, descriptions, and content.	See the following topic: <ul style="list-style-type: none"> <li>• <a href="#">Translations</a></li> </ul>
November 2018	In the Managing Queries section, added a note to the description of the "Run When Selected" field suggesting that this option should be selected if the query is used for a Watchlist and should not be selected (in order to improve performance) if the query is used for a UX One analytic component.	See the following topic: <ul style="list-style-type: none"> <li>• <a href="#">Managing Queries</a></li> </ul>

## UX One Deployment and Development Guide

The following table describes updates to the *JD Edwards EnterpriseOne Tools UX One Deployment and Development Guide* :

Publication Date	Revision Description	Documentation
October 2017	Added description of basic navigation and context menu navigation features.	See the following topic: <ul style="list-style-type: none"> <li>• <a href="#">UX One Development with Oracle JET</a></li> </ul>
November 2018	Added a note that Oracle WebLogic Server with ADF runtime is only required if you are using a modernized UI component such as a calendar or organizational chart. Also, referenced LearnJDE.com to find a list of available UX One applications.	See the following topic: <ul style="list-style-type: none"> <li>• <a href="#">Prerequisites</a></li> </ul>

## UX One Roles User Guide

The following table describes updates to the *JD Edwards EnterpriseOne Applications UX One Roles User Guide* :

Publication Date	Revision Description	Documentation
June 2025	<ul style="list-style-type: none"> <li>Included a Note each in the Prerequisite and UX One: Security Activity Tracking Page sections.</li> <li>Updated the pie chart to bar graph in the UX One: Security Activity Tracking Page section.</li> </ul>	See the following topics: <i>Prerequisite</i> <i>UX One: Security Activity Tracking Page</i>

## Business Functions Guide

The following table describes updates to the *JD Edwards EnterpriseOne Tools APIs and Business Functions Guide* :

Publication Date	Revision Description	Documentation
April 2020	Changed the maximum character limit from 3200 to 32000 for the JSON string.	See the following topic: <ul style="list-style-type: none"> <li><i>Configuring B98ORCH</i></li> </ul>

## Packet Management Guide

The following table describes updates to the *JD Edwards EnterpriseOne Tools Package Management Guide* :

Publication Date	Revision Description	Documentation
April 2020	Added clarification for the steps in the How the System Builds Client Only Update Package section.	See the following topic: <ul style="list-style-type: none"> <li><i>How the System Builds Client Only Update Package.</i></li> </ul>
June 2020	Added a note identifying the long password feature, which enables users to create case sensitive passwords up to a maximum of 40 characters.	See the following topic: <ul style="list-style-type: none"> <li><i>Understanding Security Overrides for Package Build.</i></li> </ul>

## Tools Release Upgrade Process Guide

The following table describes updates to the *JD Edwards EnterpriseOne Tools Release Upgrade Process Guide* :

Publication Date	Revision Description	Documentation
April 2020	Added note that after installing the ESUs, apply the DD glossary and UDC description changes.	See the following topic: <ul style="list-style-type: none"> <li><a href="#">Applying the Current EnterpriseOne Tools Application Enhancement ASU and ESUs</a></li> </ul>

## REST API for JD Edwards EnterpriseOne AIS Server

The following table describes updates to the *JD Edwards EnterpriseOne Tools REST API for the Application Interface Services Server Guide* :

Publication Date	Revision Description	Documentation
June 2020	Added an example with multiple filters and multiple fields for the Simple Table Query v2 API.	See the following guide: <ul style="list-style-type: none"> <li><a href="#">JD Edwards EnterpriseOne Tools REST API for the Application Interface Services Server Guide</a></li> </ul>

## Interoperability Guide

The following table describes updates to the *JD Edwards EnterpriseOne Tools Interoperability Guide* :

Publication Date	Revision Description	Documentation
November 2020	Added missing information about Function Name for Windows 64 bit platform.	See the following topic: <ul style="list-style-type: none"> <li><a href="#">Adding a Data Export Control Record</a></li> </ul>

## System Administration Guide

The following table describes updates to the *JD Edwards EnterpriseOne Tools System Administration Guide* :

Publication Date	Revision Description	Documentation
April 2021	Replaced outdated illustrations in the Path Codes and Object Storage section and added release-specific deployment details.	See the following topic in the <i>JD Edwards EnterpriseOne Tools System Administration Guide</i> : <ul style="list-style-type: none"><li>• <a href="#">Path Codes and Object Storage</a></li></ul>

