



EBOOK

The State of JD Edwards EnterpriseOne

Prepare your business for the transition to JD Edwards EnterpriseOne Applications Release 9.2

- New Features of EnterpriseOne 9.2
- Upgrading to JD Edwards 9.2
- Top enhancements for JD Edwards 9.2

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JD Edwards EnterpriseOne: Building a Better ERP User Experience

For a very long time, enterprise software was hard to use, hard to look at, and even harder to understand. Green screens and clunky interfaces were the norm. But the software world has changed. Enterprise users are demanding that their software be intuitive, functional, and even pleasing to look at. Oracle understands this and has transformed their JD Edwards EnterpriseOne software to meet the demands of an evolving marketplace.

A report from Allied Market Research states that the global ERP market will reach \$78.40 billion by 2026.¹ Oracle knows this ever-growing market better than almost anyone. They also understand that their software products must be functional for a broad range of users. The evolution of JD Edwards EnterpriseOne shows that Oracle is ready to meet user demands and help companies embrace the future.

This is part of the reason why many of the upgrades to JD Edwards EnterpriseOne in version 9.2 are focused on ease of use. User interface and experience features enable employees to train quickly during onboarding so they can begin using and receiving value from the ERP system immediately. A changing workforce needs to be up and running quickly. Gone are the days of spending months reading thick manuals and training to be an ERP expert.

A recent data study performed by IT Central Station ranked JD Edwards EnterpriseOne as a leader in the ERP field.²

¹ Allied Market Research | <https://www.alliedmarketresearch.com/press-release/global-ERP-software-market-is-expected-to-reach-41-69-billion-by-2020.html>

² IT Central Station | <https://www.itcentralstation.com/landing/report-erp>

Enhanced Capabilities

The continuous release of enhancements to the JD Edwards EnterpriseOne Applications 9.2 release delivers numerous new products and capabilities that enable customers to transform their business. By adopting modern best practices, the competitive dynamics of the global economy are changing.

This release also includes a variety of innovative industry-specific new products and features that create competitive advantages for customers in the engineering and construction, manufacturing, distribution, and asset-intensive industries. JD Edwards EnterpriseOne provides an integrated suite of ERP applications for a comprehensive solution that combines business value, standards-based technology, and deep industry experience with a low total cost of ownership.

Join the Future of JD Edwards with Syntax

About this Guide

Oracle is always transforming to provide more value to their customers. To keep you informed and up-to-date, this comprehensive Guide to JD Edwards provides:

- An overview of new features and technology that will make your ERP better than ever.
- Suggestions on how best to take advantage of JD Edwards.
- Advice on how to use JD Edwards in the context of new technology trends.

Reading this guide will help prepare your business for what to expect from the transition to JD Edwards EnterpriseOne Applications Release 9.2 and the subsequent enhancements delivered as a result of the Continuous Innovation approach.



Table of Contents

- Ch. 1 How JD Edwards Stacks Up Against Its Competition
- Ch. 2 New User Interface Features for JD Edwards 9.2
- Ch. 3 Top Features of EnterpriseOne 9.2
- Ch. 4 How to Upgrade to JD Edwards 9.2
- Ch. 5 EnterpriseOne Pages Implementation in JD Edwards
- Ch. 6 How to Deploy and Use Café One in JD Edwards
- Ch. 7 Getting on Board with RedStack
- Ch. 8 How to Make the Most of Mobile with JD Edwards
- Ch. 9 How to Take Advantage of the Internet of Things (IoT) in JD Edwards
- Ch. 10 Finding the Best Cloud Platform for JD Edwards

Chapter 1

How JD Edwards Stacks Up Against Its Competitors

ERP systems are a big investment, but the right ERP can lower your total cost of ownership (TCO) and raise your return on investment (ROI). JD Edwards reduces operating expenses and boosts profitability by increasing employee productivity. Its drag-and-drop customization for user navigation leads to vastly improved business process flows.

Once you choose an ERP platform, you want it to work for the long run. To this end, Oracle is continuously evolving JD Edwards to better meet a wide variety of business needs. JD Edwards has built on its already deep functionality and usability by becoming even more user-friendly, open, and flexible.

JD Edwards has distinguished itself as the first ERP to run all applications on the Apple iPad with an intuitive user interface. JDE delivers over 80 mobile applications designed to make working in the field easier.

JD Edwards also beats its competitors in the area of flexibility. Unlike other ERP systems, JDE is open to virtually any database or operating system. In addition, JD Edwards EnterpriseOne maintains a competitive edge by responding to the needs of its users with regular updates and upgrades. The new simplified upgrade process makes assimilating these upgrades easier than ever before.

JD Edwards Versus SAP ERP

Unlike its competitors, JDE is disruptive in a good way with its regularly scheduled upgrades. According to IT Central Station, one of the most valuable features of JD Edwards is its user interface. In comparison to SAP, it is less complex, more intuitive, and easier to use.³

JD Edwards Versus Microsoft Dynamics AX

Compared with JD Edwards, Microsoft Dynamics AX has limited cloud ERP options.⁴ The need to rely on third parties for additional applications to complete a solution adds up to a higher TCO and more difficult implementations and upgrades. Users also complained about a lack of training by skilled personnel.⁴

³ IT Central Station | <https://www.itcentralstation.com/questions/sap-erp-vs-jd-edwards-entepreone>

⁴ ERP Search | <http://erpsearch.com/dynamics-ax-strengths.php>

Chapter 2

New User Interface Features for JD Edwards 9.2

Oracle has tailored JD Edwards EnterpriseOne's 9.2 features to bridge the growing IT skills gap. COMPTIA reports 74% of companies cite IT skills as a primary factor in reaching business objectives and over half of large companies state the skills gap is growing.⁵

To offset the need for specialized technical knowledge, the theme guiding JD Edwards 9.2 is usability. Oracle recognizes that no two employees are alike. With JDE, Oracle listens to what their users want and makes changes to accommodate for them. The new version of JD Edwards, for instance, is designed with user-friendly navigation, which enhances employee productivity.

Compared to JD Edwards 9.1, the 9.2 user interface features a simpler and cleaner look, as well as easy drag-and-drop adjustment to design customized navigation. Users can modify their view of grid information and choose where to place their favorite reports and applications. Menu breadcrumbs allow quick access to applications that have recently been run.

Additional 9.2 user experience features include:

Mobile Cloud Service (MCS): With MCS, you can track and analyze mobile application use, as well as easily build mobile applications.

Mobility, Tablet, and Smartphone Applications: Employees can work with their device of choice using a modern user interface for role-based applications.

UX One: When employees receive alerts about conditions, UX One provides the analytics necessary to take the appropriate actions. The system also offers a path to the applications needed to respond to the conditions. Real-time information enables employees to make complex business decisions quickly.

One View Reporting: An intuitive interface enables employees to access and personalize transactional data into lists, charts, graphs, and tables. There are 20 out-of-the-box Functions Areas Reports Packages available and the tool is designed to be used by end users.

COMPTIA reports 74% of companies cite IT skills as a primary factor in reaching business objectives and over half of large companies state the skills gap is growing.

⁵ COMPTIA | <https://www.comptia.org/content/research/assessing-the-it-skills-gap>

Chapter 3

Top Enhancements to EnterpriseOne 9.2

To add to the level of personalization offered by JD Edwards EnterpriseOne 9.2, users that JD Edwards calls “citizen developers” can design customized screen layouts without mastering code.

Here’s a quick look at how JD Edwards has expanded its industry-specific functionality in version 9.2:

- **IoT Orchestrator** allows users to collect, filter, analyze, and react to real-time data. Data can be harvested from sensors on connected objects and transformed into actionable information. For example, you can create an orchestration to enable EnterpriseOne to perform journal batch approvals and automatically approve all machine generated G/L batches.
- **Preconfigured Orchestration for IRS Compliance:** JD Edwards EnterpriseOne plans to deliver a solution to help Human Resources managers in the U.S. monitor income tax withholding for employees who have an IRS lock-in letter.
- **One View Financial Statements** is a feature of One View Reporting. Having a user-friendly interface, this feature allows financial system end-users to create financial statements, such as balance sheets and income statements. Financial statements can be created using records in payroll, fixed assets, accounts receivable, accounts payable, inventory management, warehouse management, and sales order management. Reports can be generated on records in the Account Master, Account Balances, and Business Unit Master.
- **Watchlists** are part of One View Reporting and display alerts that give real-time information about approaching or past thresholds and outstanding tasks. Users define criteria for notifications.
- **E1 Pages Composer** empowers users to use drag-and-drop technology to design and create pages with a clickable process flow. Layouts can be designed based on specific roles.
- **User Defined Objects** include grid formatting, queries, Café One, One View Pages, Watchlists, and EnterpriseOne Pages. The new release makes managing, securing, and sharing these objects easier. Industry-specific, persona-based content can be created in Active Content Pages, helping users to visualize their data.



- **Notifications:** EnterpriseOne now provides immediate business value by delivering 35 preconfigured notifications. Use these to expedite approvals and improve process efficiency. Users can also subscribe to these notifications, which can be personalized based on unique use cases and business needs.
- **JD Edwards EnterpriseOne Notifications** simplify, streamline, and optimize your business processes by enabling you to stay in touch with your business and ERP system whether you are at your desk or on the go. Notifications enable you to work with processes and data at the tempo of your business by detecting and alerting you to important events or conditions based on JD Edwards business data or external systems. They also improve business efficiency by proactively alerting your users and by providing improved visibility, thus saving cost and time.
- **Forms Personalization:** JD Edwards EnterpriseOne Personal Forms enable you to customize how your form is displayed. You can personalize a form based on your requirements, roles, and specific needs. Using the Personal Forms Manager user interface, you can customize the forms by hiding/showing, moving, renaming, resizing, and repositioning the controls in a form. Additionally, you can hide, unhide, or rename the Form, Row, and Report exits on a form (Release 9.2.2.4). The Personal Forms Manager design panel enables you to implement your specific user interface changes without any form design aid (FDA) based modifications.
- **Form Extensibility Enhancements:** JD Edwards has further improved Form Extension to include support for entry forms and power browse forms as well as the ability to invoke extended forms using orchestrations. These improvements enable citizen developers to capture additional information in the core business applications by adding business view columns on the glass to meet industry and regional data requirements.
- **Extensibility** enables customers to retire customizations created using traditional tools like Form Design Aid to meet their industry and business process requirements.
- **Advanced Job Forecasting** delivers key capabilities for project-focused industries, such as engineering and construction. It prevents project cost overruns caused by a lack of detailed forecast visibility. It also provides accurate cash flow management throughout the project lifecycle.

The forecast can include anticipated material quantities, material cost changes, specific skill sets, and pay levels required for remaining job phases. Furthermore, this product provides several forecast calculation methods and the ability to create userdefined calculations. Users can save and compare multiple what-if scenarios and store audit trails of forecasted versus actual factors.

Simplify, streamline, and optimize your business processes by enabling you to stay in touch with your business and ERP system whether you are at your desk or on the go.

- **Outbound Inventory Management** optimizes inventory performance and significantly reduces the business complexity for suppliers in the consumer goods, manufacturing, and distribution industries that provide vendor-managed or consignment inventory services for their customers.

Outbound Inventory Management manages the complete VMI/consignment lifecycle, from defining agreements through ordering, shipments, invoicing, and replenishments. This supports stronger customer collaboration, reduced customer stock-outs, and improved forecast accuracy. These capabilities result in increased customer loyalty, which translates to improved supplier profitability.

- **Work Center Load Review Calendar** provides daily, weekly, and monthly calendar views of scheduled work center resources with a real-time view into remaining available capacity. The application displays over- and under-capacity conditions in an intuitive graphical format. It also provides drill-down options to make scheduling adjustments, update work orders, and support planning. This information enables production schedulers to quickly and easily make scheduling decisions and changes.

- **64-bit Enablement** with Tools Release 9.2.3 and Application Release 9.2, JD Edwards supports 64-bit processing for the Enterprise server and development client, joining the previously 64-bit enabled HTML, AIS, BSSV, and RTE servers. This enables customers to adopt future technology and future proof their JD Edwards environment.

- **Performance testing** identified performance gains with interactive response times and batch processing. For example, performance testing results showed about a 10% performance improvement for heavy interactive and batch processing.

- **Form Personalization (Repositioning Form Controls Marked as Required):** Citizen developers have been empowered with additional frameworks to personalize and extend their EnterpriseOne implementation without the need for custom modifications and developer skill sets. The form personalization feature has been enhanced to enable users to reposition the form controls that are marked as required from a tab or group box to a different tab or group box on the same form.

- **Creating Form and Row Exits in Form Extensions:** The extensibility framework has been enhanced to reduce the need for users to customize JD Edwards. New capabilities in Form Extensibility include the ability to create Form and Row exits. This capability enables citizen developers to create new exits to other forms and leverage the form interconnection capability to pass data. Additionally, the enhancements to the Personal Form and Form Extensibility support the translation of labels.

- **Form Extensibility Improvements:** Improvements to the extensibility framework have removed barriers for customers to adopt innovation packs, helped customers reduce customization, and enabled them to meet their business requirements at a low cost. These include un hiding business view columns in the FDA, adding hidden business view columns in the CSI application, and being able to make fields required in the ABR application.



Manufacturing Production Execution

The production process can include many manual touchpoints and communication between many roles before an item is produced. New tools have been provided that can be used to simplify and streamline the execution of the production process. This includes:

- A new work order scheduling application that presents all scheduled operations along with the available capacity at every work center required to complete a work order, graphically in a Gantt style bar chart. Remaining capacity is displayed daily in either a green or red bar, red indicating an overcapacity condition. Dragging and dropping any operation to a new date will trigger an update to the work order requested date and reschedule the parts list and routing accordingly, with the effects of any change made immediately visible
- A new processing option that allows the parts list and routing to be attached automatically when a work order is created
- Automated shortage management
- Automatic cycle count generation for unexpected shortages
- Notifications of exception conditions and/or action required, such as unexpected shortage, operational yield lower than expected, and test/inspection failures awaiting disposition
- Mobile applications for Inventory Transfers and Cycle Count

Lease Management Enhancements

EnterpriseOne 9.2 has been enhanced to support upcoming global accounting standards for lessees of property. In addition to compliance to the standards, companies can gain significant benefits from the JD Edwards solution including:

- Improved operational efficiencies through programs that facilitate the import of real estate lease data, automatic creation of assets in the Asset Master from the Real Estate Management Unit Master, and dashboard capabilities of UX One landing pages for the Lease Administrator and Lessee Accounting Manager
- Minimized errors through the ability to specify defaults for lease payable items affecting the Lease Liability and Right-of-Use asset calculations, system-generated Lease Liability and Right-of Use asset amortization schedules, and system generated initial Lease Liability and Right-of-Use asset balance sheet accounting entries
- Shortened month-end close process with automatic monthly adjusting balance sheet journal entries with an audit trail from the amortization schedules and with automatic adjustments to Right-of-Use Asset balances for specific types of subleases

Lease Term Changes for Lessee Leases

This feature enables the automated recalculation of accounting entries and for recurring payment records for lessee leases when the lease terms change.

Lease Entry Simplification

This feature provides users with a simplified lease entry form layouts and grid formats that enable them to efficiently manage complex leasing agreements for both property and non-property assets.

Joint Venture Management

You can use this solution to manage your joint ventures in any industry – from Real Estate, Engineering & Construction, Agri-Business, and beyond. This allows you to track common project costs and distribute the cost to various partners in the venture based on their predefined portion of ownership. Accurately and efficiently manage joint ventures by ensuring compliance of Joint Operating Agreements (JOA). With Joint Venture Management you will:

- Implement an industry-independent solution to handle various types of transactions – Payroll, Procurement, Travel Expenses, Revenue, General Ledger
- Lower TCO with streamlined processes
- Shorten monthly financial close with automated JV distribution process
- Minimize time and costs with improved visibility



Joint Venture Management – Overhead

The JD Edwards EnterpriseOne Joint Venture Management solution helps the managing partner on joint ventures to easily comply with the joint operating agreements by providing flexibility and transparency to calculate and distribute indirect costs (overhead).

Joint Venture Management – Billing

The JD Edwards EnterpriseOne Joint Venture Management solution provides the ability to track direct and indirect costs and then distribute and invoice the costs to the partners based on their predefined division of interest. It also provides the ability to track and distribute revenue for the joint venture and then pay the partners based on their predefined division of interest.

Continuous Adoption Enablers

Oracle has adopted a “Continuous Delivery” model which significantly improves both its software packaging and delivery processes. Oracle’s Continuous Delivery model obviates the need to deliver JDE1 enhancements via major releases. The Continuous Delivery model allows JD Edwards EnterpriseOne customers to incorporate enhancements when they meet specific business needs without the cost and disruption of a major upgrade. It is also important to note that Oracle plans to continue using this new model of delivering enhancement releases on the JDE1 9.2 code line. The “Continuous Delivery” approach helps cut the cost, time, and risk of installing changes as major releases, making your ERP solution more stable.

These new features of JD Edwards EnterpriseOne 9.2 show how it is adapting to workforce changes. Greater visibility and user adaptability enable companies to onboard employees quickly. Even if employee turnover is high, organizations can get the most out of their workers.

Chapter 4

How to Upgrade to JD Edwards 9.2

JD Edwards knows how important it is that your business maintains continuity during a major upgrade. JD Edwards 9.2 offers a simplified upgrade as an alternative to the traditional upgrade.

Fast and low-risk ERP deployments result in a lower overall TCO. The faster companies can take advantage of JD Edward's user-friendly upgrades, the faster they can see rising ROI coming from increased worker productivity.

- The traditional upgrade replaces the entire set of JD Edwards EnterpriseOne objects. In this upgrade, all code objects need to be retrofitted.
- Unaffected objects are saved, and fewer objects need to be retrofitted and tested.

Syntax runs a 100-day Upgrade Workshop that provides details about each of these components and more. The workshops are free of charge and help customers plan and execute a 9.2 upgrade in 100 days or less.



Upgrading to JD Edwards 9.2

When executing a 9.2 upgrade, you need to consider and plan for the critical components which need to be taken into account regardless of the version. Components include:

Planning

- Business Case
- Analysis
- Deployment Options

Execution

- Data
- Code Retrofit
- Integrations – 3rd party, retrofit
- Testing – Functional, Performance, Scalability
- Training –UPK
- Go Live

Upgrade Tools

- Customization Object Analyzer
- Application Configuration Analyzer
- The Decustomizer Analysis Report

The new release introduced two new utilities aimed at simplifying the upgrade and patching process by reporting on “what’s changed” in your environment. The Customization Object Analyzer provides summary and detailed level reports on customizations made to JD Edwards EnterpriseOne objects such as applications, UBEs, business functions and business views. The Application Configuration Analyzer compares two environments and reports on the differences in UDCs, Processing Options, and Versions.

The Customization Object Analyzer utility can be used to list EnterpriseOne objects that have been customized. This information is then used to determine the impact and level of effort needed to retro-fit the customizations into a newer application release of JD Edwards EnterpriseOne software.

Chapter 5

EnterpriseOne Pages Implementation in JD Edwards

EnterpriseOne Pages (E1 Pages) has come a long way since it was first developed to make use of the white space left by moving menus to the top of the screen. Like many of the new features in JD Edwards, E1 Pages empowers users to customize their workspace in minutes to enhance their experience.

E1 Pages lets users display navigation or information pages. External URLs can be defined for display. Watchlists can also be displayed, and One View reports can be embedded. E1 Pages can also launch applications and reports. Users assign content to the appropriate roles within your organization. Portlets allow users engage with applications while they are using the portal.

With the E1 Page Composer, end users can design personalized layouts, including applications, watchlists, and reports. The E1 Page Composer provides a new type of E1 page that enables users to dynamically define personalized layouts over the applications, reports, and watchlists. The features provided by this new tool are equivalent in functionality to the E1 Page Generator and provide many key advantages over “Generated E1 Pages,” including:

- Reduced build time from hours to minutes.
- No coding experience required.
- Eliminates the need for HTML developers.
- Robust capabilities for end users.
- Leverages existing UDO (User Defined Object) functionality.

The E1 Page Composer is a component of the user interface and is not external to EnterpriseOne. End users can select from a variety of elements to add to a composed page, including:

- URL
- OBIEE
- EnterpriseOne Forms
- Freestyle Form
- Legacy E1 Pages
- One View Reporting Pages
- Portlet Page
- E1 Navigation
- Data Visualization Tool Frame

Consistent with the consumerization of IT, JD Edwards tools embrace the citizen developer in everyone, making it easy to create a personalized workspace with ever-evolving tools and applications.

Chapter 6

How to Deploy and Use Café One in JD Edwards

Another example of the consumerization of IT within JD Edwards is Café One. The Composite Application Framework for EnterpriseOne (Café One) is a user interface (UI) framework that enables users to dynamically define and work with multiple sources of content across multiple page layouts within an EnterpriseOne Application Form. This content can be aggregated into a single view within a single browser window. Layouts can be shared by setting up publication lists that include particular roles within your organization.

Café One supports the inclusion of multiple sources of external and internal content in JD Edwards EnterpriseOne application forms. It has evolved into a tool that delivers a level of functionality and flexibility that helps JD Edwards earn its leading ERP status. The content can include just about anything that can be called by a URL and can automatically link to content of the primary page, including:

- **Address** – map links
- **Address** – zip code links
- **Item** – catalog links
- **Currency** – rate links
- **Smart links to charts**
- **Shipment** – route map links
- **Equipment Master** – meter readings, GPS coordinates
- **Location** – current weather, map, contact, phone numbers
- **Customer** – top items sold, margin
- **Equipment** – schematic, repair manual, maintenance history

Information can be displayed vertically or horizontally in a frame, sized to fit the available space, and mapped so that the content dynamically changes as data values on the form change. The enabled form is fully functional, and a specific version can be specified.

With the release of JD Edwards 9.2, Café One gains unified lifecycle management through the enhanced User Defined Objects (UDO) tools. Like many of the tools in JD Edwards 9.2, Café One bridges the technology skills gap that many companies are facing. It enables line of business employees to design customized layouts that simplify workloads without knowing how to code.

Chapter 7

Getting On Board with RedStack

It's time for JD Edwards customers to take advantage of RedStack. Oracle finally retired support of BlueStack on September 30, 2016. Also known as Technology Foundation, BlueStack provided a prepackaged database and middleware for JDE. BlueStack support from Oracle gave JD Edwards customers a single point of support. With the discontinuation of support from Oracle, BlueStack users need to know what options they have.

History

The clock started ticking in 2010 when Oracle introduced RedStack as competition for BlueStack. With RedStack, users need to run their ERP on Oracle platforms and middleware instead of those from IBM. As soon as RedStack was introduced, Oracle announced plans to end their BlueStack Original Equipment Manufacturer (OEM) agreement. At the end of 2013, Oracle had stopped selling additional licenses to customers.

End-of-service Options

BlueStack customers have several go-forward options, some of which are more easily executed in the short term and others that will better position them for the future. These options include:

- Purchase RedStack from Oracle and move to a new platform.
- Cancel Technology Foundation licensing with Oracle and purchase WebSphere software and support from IBM or a reseller.
- Purchase WebLogic from Oracle and use it to meet your webserver and future middleware needs.



Purchasing WebSphere presents some advantages over moving to an Oracle product. You can maintain your current implementation so that the only change is from whom you acquire the license and get support from. No migration or testing is necessary. An important point to note is that Oracle continues to certify WebSphere for use with JD Edwards. That has not changed.

Red Stack (WebLogic/Oracle DB) will garner certain advantages over retaining/implementing WebSphere. If you plan to include in your IT infrastructure other Oracle products (SOA, OBI, etc.), you should consider WebLogic. Also, if you plan to implement any of the following applications/functionality in JD Edwards, WebLogic is required.

- EnterpriseOne Internet of Things (IoT) Orchestrator *Licensed Product*
- EnterpriseOne IoT Orchestrations
- Service Management Orchestration
- Manufacturing Management Orchestrations
- Condition-Based Maintenance Orchestrations
- Capital Asset Management Orchestrations
- Blend Management Orchestrations
- EnterpriseOne ADF Applications
- Work Center Load Review Calendar
- Where Used Diagram
- Visual Bill of Material
- Staff Utilization
- Rental Item Availability
- Employee Organization Chart
- Overstated Work Order Hours Charts

Chapter 8

How to Make the Most of Mobile with JD Edwards

Workforce mobility is growing. The need to stay connected to your most important applications means that modern software must be available for and easy to use on mobile devices. The JD Edwards 9.2 upgrade supports enhanced access by mobile devices.

The convenience of smartphones, notebooks, and tablets translates to the workplace, especially for companies in the manufacturing, distribution, and engineering business. Mobile devices enable workers to stay connected on remote job sites. They can access information and make instant updates while in the field. There is no need to bring reams of paper and physical files.

The requirements for a mobile application development platform continue to evolve. Today, customers are seeking low code/no code options to empower domain experts such as business analysts with limited programming background to build line of business or departmental apps. This evolution in the industry has led JD Edwards to a mobile strategy whereby customers leverage their choice of front-end low code/no code development tools that connect to JD Edwards through orchestrations to develop their own mobile applications. This approach allows flexibility and choice so customers can deliver the right user interface for the use case and the user.

JD Edwards customers can leverage JD Edwards Orchestrator Studio along with Oracle's Visual Builder Cloud Service (VBCS) to develop their own mobile applications. Developers and non-developers alike can build custom applications to meet their mobile application needs.

This approach allows flexibility and choice so customers can deliver the right user interface for the use case and the user.



Chapter 9

Take Advantage of the Internet of Things (IoT) in JD Edwards

It is forecast that the total number of connected things will reach 25 billion by 2021, producing immense volume of data.⁶ The sensors and beacons in connected devices generate tons of data. To mine this data for valuable insights and use it to your advantage, your business needs the right tools. Only then can your company start transforming your business processes.

Recognizing the importance of IoT to the future of business, Oracle has upgraded the IoT Orchestrator to Orchestrator Studio for JD Edwards 9.2. With the Orchestrator, you can devise processes called orchestrations that consume raw data from disparate devices and transform the data into actionable business processes in JD Edwards EnterpriseOne.

The Orchestrator Studio is a web-based application for creating orchestrations and the components that comprise an orchestration. All orchestrations and orchestration components that you create in the Orchestrator Studio are saved as separate files in an orchestration directory on the EnterpriseOne Application Interface Services (AIS) Server. The IoT Orchestrator uses these files to process a single orchestration instance on the AIS Server.

The IoT Orchestrator uses the Application Interface Services (AIS) Server as its foundation. The AIS Server is a REST services server that, when configured with the EnterpriseOne HTML Server, enables access to EnterpriseOne forms and data.

With Orchestrator Studio, you can create rules, cross-references, and service requests for connected objects. You can locate equipment, measure how it is being used, and determine whether assets are operating at their full potential. Alerts can be sent for preventative maintenance to avoid equipment downtime.

⁶ JDE Source | www.gartner.com/en/newsroom/press-releases/2018-11-07-gartner-identifies-top-10-strategic-iot-technologies-and-trends

Use the Orchestrator Studio to create the following components:

- An **Orchestration** is a master component that defines incoming data from an IoT device. When the IoT Orchestrator invokes an orchestration, it processes the steps defined in the orchestration to enable the transfer of data from third-party IoT devices to EnterpriseOne.
- **Service Requests** contain a sequence of actions to perform a particular process in EnterpriseOne. The IoT Orchestrator uses Service Request to launch a JD Edwards EnterpriseOne interactive application or a Java application via a REST service call to the AIS Server.
- **Rules** are a set of conditions the orchestration uses to produce a true or false state. With rules, a false outcome or true outcome can invoke further orchestration steps. You can also nest rules, in which an outcome of one rule can invoke a different rule to produce complex evaluations.
- **Cross References** are data relationships that map third-party values to EnterpriseOne. For example, a device's serial number can be cross-referenced to a JD Edwards EnterpriseOne equipment number for use in service requests.
- A **White List** contains an inclusive set of values permitted in the orchestration. It terminates the orchestration process if the data is not recognized.

Like many of the tools in JDE EnterpriseOne, the Orchestrator Studio is designed for use by business analysts, not programmers. Orchestrator Studio's graphical user interface empowers business analysts to design and implement their own orchestrations.



Chapter 10

Finding the Best Cloud Platform for JD Edwards

Whether your business is new to JD Edwards, a long-time user, or has gone off maintenance and needs to relicense, you should consider the cloud as a deployment platform for your ERP system. Customers choose the cloud as a deployment option for many reasons, including:

- **Flexibility:** Pay for the services you need, when you need them.
- **Lower total cost of ownership:** Lower cost compared to an on-premises solution.
- **Scalability:** A cloud solution can grow as your business grows.
- **Performance:** With economies of scale working in your favor, you gain better, faster infrastructure.
- **Expertise:** Better, more specialized resources compared to most single customer environments.
- **Security:** Better, more robust security because of economies of scale.
- **Monitoring:** Helps anticipate issues before they become problems.
- **Focus:** The team managing your cloud environment is focused on the specific tasks of managing your environment, leaving you to focus on the high value-add activities that support your strategic objectives.



JD Edwards is a cloud-friendly application. Customers realize superior performance when using a cloud architected specifically for JD Edwards. Characteristics that you want to look for in a cloud solution for JD Edwards include:

- **High performance servers that are properly sized with the right amount of RAM.**
- **Flash storage that is managed automatically.**
- **Backups that include copying to disk and ultimately to tape with offsite storage.**
- **Flexible managed services for infrastructure, CNC, and applications for a single vendor solution.**
- **Scalable infrastructure that can grow instantly when you need it.**
- **Best-in-class security for the data center and environment.**

For new JD Edwards implementations, the cloud can help you realize the benefits of the software you just acquired faster. For existing JD Edwards customers, an upgrade is a great time to make the switch to the cloud.

In both cases, the cloud simplifies the process, makes it faster and less expensive, and helps better align costs with benefits received. The same goes for subsequent upgrades once you are in the cloud. When you run applications in the cloud, you can take advantage of the great new applications and features JD Edwards upgrades deliver more regularly.

Software as a Service (SaaS) for JD Edwards provides full licensing and support for a single monthly number. If you are off support, re-licensing on a SaaS model allows you to take advantage of the latest improvements in JD Edwards on a pay-as-you-go model.

Join the Future of JD Edwards with Syntax

With JD Edwards EnterpriseOne 9.2, Oracle continues to invest in functionality that creates a competitive advantage for JD Edwards customers in focus industries like engineering and construction, manufacturing, distribution, and asset-intensive industries.

JD Edwards also delivers transformational business solutions for customers to address the demands of the digital economy. Innovative new JD Edwards solutions are facilitating SMART (Strategic, Mobile, Architected for Real-Time) change. Take advantage of cutting-edge technology trends like IoT and mobility.

You can make the most of JD Edwards by working with a third party that has the right industry experience. Syntax has been providing business solutions built around JD Edwards applications since 1997. We have supported and implemented the entire suite of applications, as well as delivered development projects, integrations, and upgrades.

Today, over two decades and hundreds of implementations later, we rank at the industry forefront, a clear leader for providing the in-depth knowledge and experience demanded for the JD Edwards solution set. Syntax delivers a comprehensive range of essential services, with benefits unsurpassed in the industry.

No matter the type of implementation project, the Syntax Enterprise Cloud® makes it easier, faster, and more efficient. Our award-winning cloud environment is optimized for JD Edwards and is run by a team of JD Edwards experts. The Syntax Cloud is designed to securely host your business applications and support your business needs. Our private cloud will improve operational efficiencies, mitigate risk, and reduce costs for your business.

Syntax provides many JD Edwards services, including:

- Continuous Innovation Adoption
- Health Checks
- Implementations
- Upgrades
- Functional Consulting
- Technical Consulting
- Development
- Integrations
- Project Management
- Training
- Security Assessments
- Mobile for JD Edwards
- AWS Cloud for JD Edwards
- JD Edwards Enterprise Cloud
- Application and CNC Managed Services
- IoT Implementations

Are you considering an upgrade of your JD Edwards software?

Let's have a conversation.

Our JD Edwards experts are ready to talk with you and lay out a plan that helps you make a seamless transition to the latest release of JD Edwards.



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SYNTAX

Syntax is a leading provider of cloud and managed IT services for Oracle and SAP customers. Syntax has been providing comprehensive technology solutions to businesses of all sizes since 1972. Syntax delivers the best combination of software, infrastructure, cloud, security, migration and application management services to meet the needs of its diverse range of customers in a wide variety of industries. Syntax partners include SAP, Oracle, Amazon Web Services, Microsoft, IBM and other world-class technology leaders.