

## JD EDWARDS WORLD ENHANCED TECHNOLOGY

### KEY BENEFITS

- Flexibility of security configuration can lead to increasingly hardened security access and greater use of World Foundation capabilities
- Simplicity of security methodology means less effort to harden security
- Consistency of security methodology brings greater use of security conventions
- Interoperability enhancements mean less customization and more sustainable and robust integrations
- Usability is enhanced to broaden the spectrum of information available to World users
- Upgrades become easier and faster using Extensibility Framework

### KEY FEATURES

- Role based security
- Consistent application of role based security principles to primary security conventions
- Security workbench consolidates maintenance and strengthens security management and audits
- Field Level Masking allows masking and security protection for selected fields in World tables
- Integration of World with Oracle BI Publisher creates pixel-perfect formatted reporting
- JDBC Driver brings comprehensive yet controlled access to World data for external consumer applications
- World Import Export supports PDF export and XML import.
- Electronic Document Delivery flow control with new workbench
- Archival of formatted output in user-specified Windows directory
- Intelligent variables embedded in email templates allow remote approvals
- Related Information Framework enables broader UI access to external information
- Extensibility Framework enables easier and faster upgrade for heavily modified World environments by modularizing custom modification and executing from base code event points

### **The Issue: Some aspects of World Technology are perceived as overly rigid, limited in integration options, complex, and inconsistent to maintain.**

In the dim and distant past, certain aspects of JD Edwards World Technology required adherence to rather limiting infrastructure rules. Security went essentially unchanged for many years while security industry standards evolved and strengthened. Security rules could be rigid and complex to set up. Inconsistently applied security methods were difficult to maintain. Visibility of one's security design was limited and difficult to audit. Too often these limitations led to compromises in security because it was too difficult to set up and maintain.

Integration infrastructure was limited to batch-oriented integrations and often required extensive customization to achieve point-to-point integration requirements. And if interactive integrations were required, World capabilities fell short.

Reporting was solid, but lacked the ability to fashion reports with graphical representation to enable transformation of data into easier, more concise management information. Report distribution was often a cumbersome manual process.

The World User Interface provided an efficient mechanism for data entry, but was typically limited to displaying information in 24 lines, 80 characters per line. More modern UI standards were needed to make more information available from a variety of sources beyond World.

### **The Solution: A more flexible, consistent, and simple yet advanced set of World Technology capabilities delivered in A9.3.**

With the delivery of JD Edwards World A9.3, many World Foundation issues have been addressed with major enhancements to security, reporting, and interoperability.

#### **Security strength and flexibility**

World security is both hardened and more flexible through the addition of role-based security. This is accomplished without complete upheaval of existing security design; instead building a layer of aggregation over the top of existing security conventions such as user, group, and \*public. A user can be assigned to multiple roles and roles can have multiple groups. The resulting flexibility allows review of existing security design and either full or incremental implementation of the new concepts.

#### **Security methodology consistency**

Prior to A9.3, there were many different methods of security which increased complexity and in some cases stifled attempts to use some capabilities within World such as; FastPath commands, Menu Travel, Menu, Function Key, or Action Code security. With A9.3, role based design is applied to practically all World security conventions, creating the opportunity for a much more consistent approach to security design.

### Security visibility

A new security workbench is available with World A9.3. Security visibility and maintenance is available in a central workbench, mitigating the need to navigate to multiple menu selections to view and maintain security configuration. Auditors and security administrators will find it a powerful tool to configure and audit security design and administration. Adding, maintaining, or removing user security is dramatically streamlined, resulting in improved security maintenance speed and accuracy. Orphaned security records and versions can be a thing of the past. Both interactive and batch reporting are important components of the security workbench, helping ensure that World security is configured and hardened to desired levels.

### World Reporting –transforming data into information

While World reporting is flexible and powerful, it has lacked the ability to generate graphically-based reporting and distribute reports through a variety of electronic channels. Enhancements to World Import/Export and Electronic Document Delivery bring the ability to automatically generate pixel-perfect reports through the “gateway” to Oracle BI Publisher and distribute them to a wider variety of channels, including direct print, email, FTP, and SFTP. Simple spooled file export distribution in World Import/Export has been enhanced to support PDF and XSL output.

The World report writers are rewritten, replacing legacy PL1 code with RPGIV/ILE, enabling far greater flexibility in improving reporting capabilities. Report version security is strengthened by applying role-based security methodologies.

### Interoperability – making the connection

Making the connection with World has not always been as robust nor enjoyed as many options as it now has with the enhancements available in A9.3. World can now be part of a strategy centered on Service Oriented Architecture. Business Services, first introduced with World A9.1, have evolved in design and numbers.

Integrations can be a serious obstacle to upgrading both World and other solutions that are integrated with World. Services enable a loosely coupled, reusable interface. Unless the data model changes behind the actual data being passed back and forth, services don't care what versions of the integrated solutions are consuming them. They can also be reused by other integrations. For example, the Address Book service can be used by multiple integrations needing access to the World Address Book. They can be used for a variety of integration types; data, process flow applications, and composite web applications. Using World Services, integrations do not have to be a hurdle to upgrading World and other integrated systems.

### Interoperability - World Import/Export

Of course, batch integrations still play an important role. World Import/Export was originally created to move World data to spreadsheets and to allow import of spreadsheet data into World. It has evolved from its' humble origin in A9.1 to a more powerful integration tool in A9.3 with the addition of the ability to import XML data. XML has become a de facto standard for the passing of integration data so this enhancement means that Import/Export can be used for both export and import of XML. Import/Export also supports CSV flat file formats for integrations.

### Interoperability - Electronic Document Delivery

Electronic Document Delivery (EDD) was introduced in World A9.2. It receives data flowing from Import Export as a flat file (CSV), TXT, PDF, XML, or XMLS. EDD allows freeform or email templates to be defined, attaches the file from Import/Export, and routes the file to the desired recipients or devices.

EDD can optionally consume Oracle BI Publisher API's and marry the file with a predefined output template to create and distribute pixel perfect formatted output. With enhancements delivered in A9.3, the status of all job flows through EDD is captured in log files and can be managed with a new workbench. Intelligent variables have been added to EDD. When embedded in the body of an email template, these variables allow direct remote response to requests for approvals of address book changes, purchase orders, and employee timecards. In A9.3 Update 1, formatted output can be archived in a Windows Directory structure.

### A new World report writer – Oracle BI Publisher

Oracle BI Publisher Enterprise Server is a powerful report writer for World, made so through the use of the World JDBC Driver. The JDBC Driver has been enhanced to adopt newer standards for JDBC and is compliant with 11g, the newest version of BI Publisher. It exposes the World data model to external consumers such as BI Publisher and performs data transformations such as decimalization and dates. It is World security aware, providing a level of security equivalent to internal World applications.

### Usability for Composite Applications

More World customers are building composite web applications or need to reach outside of a World application to access additional information from another solution. Available in A9.3, Related Information Framework for World delivers the capability to access and display information from external applications through either the Web-Enabled Interface or through green screen emulation. Practically any information that can be accessed through a URL can be configured in the Generic Exit function in World.

### Extensibility Framework for World

Extensibility Framework enables modularization of custom modifications and execution from event points in World base code, resulting in easier and faster upgrades for highly customized environments.

### Contact Us

For more information about JD Edwards World, visit [oracle.com](http://oracle.com) or call +1.800.ORACLE1 to speak to an Oracle representative.



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