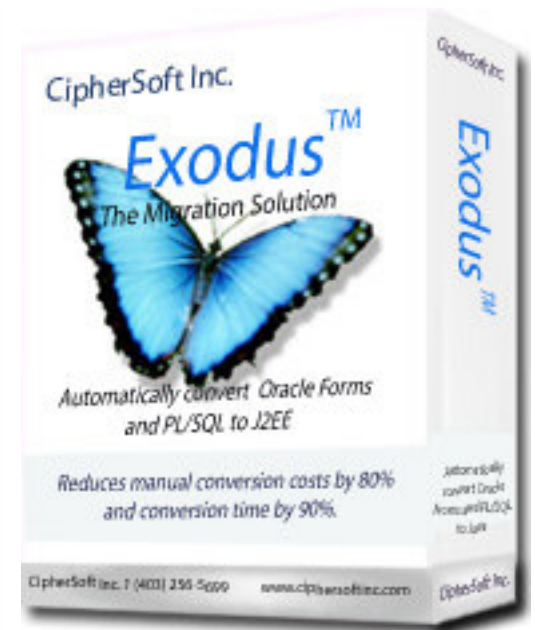




Enabling Your Applications to Provide Web Services – Migrating Oracle Forms Applications to the Web



Presented By:
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President and CEO



Agenda

- The business reasons to migrate to 10g or Java
- Migration options
- Goals for automatic migration
- Technical challenges
- Importance of maintainability & functionality
- Tips for a quick and cost efficient migration
- Conversion objections
- Conversion process – Architecture
- About CipherSoft Inc.
- Questions & Answers



The Business Reasons - Why convert to 10g

Migration to Forms 10g is beneficial if:

- The organization has very few Java resources and a retains a skill set in Forms and PL/SQL development
- The application doesn't require changes to the look and feel of the application
- Skill sets in Forms and PL/SQL are readily available to the organization long-term (Stability in resource retention)
- The Forms being used presently are character based versions of Forms (This is due to the learning curve involved in migrating from a client server technology to multi-tiered Java)
- Java plug-ins (downloads) are acceptable to clients using the application



The Business Reasons – Why Convert to Java

Migration to Java is beneficial if:

- Java has been chosen as the future development environment for the organization
- Application development costs require reduction (Java development provides much lower development costs)
- The legacy Forms application requires integration with other applications developed in other environments
- Other applications within the organization are utilizing Java technology
- Application Servers or IDE are already in use within the organization that require independence
- The use of open source technology is beneficial to the organization
- Provision of choices within the client's environment is required (such as HTML, DHTML, use of browsers, etc.)
- The use of SOA architecture is beneficial to the organization
- The organization has determined that the use of proprietary technology is no longer beneficial



The Business Reasons - Why convert to Java?

- A powerful Object Oriented Programming language
- The "most open" product that is available, conforming both to its own standardized (and published) specifications.
- JDBC (Java Database Connectivity) provides a standardized interface for Relational databases for Java, thus providing a greater level of database independence and portability
- Can eliminate costs/support of proprietary licensing
- Provides platform independence



The Business Reasons - Why is Java superior?

- Java provides a fully interactive GUI interface for the Web
- The Java architecture was designed with security in mind, and not as an afterthought. This provides a simplified and consistent means of protecting your assets.
- Java provides features that make programming easier as well as more powerful
 - multi-threading capabilities
 - automatic "garbage collection" (for efficient use of memory)
 - standardized error trapping and detection
 - distributed processing capabilities



Oracle's Strategic Direction

Oracle has been straightforward with their approach as they move towards new technology.

Their goals include:

- Pooling server-side Java virtual machines to reduce the memory footprint of applications that call middle-tier Java
- Reduced application pre-starting
- Performance and scalability on the Web
- Expanding the scope and depth of the Forms management tuning and problem diagnosis facilities within Enterprise Manager
- Extensible client and middle-tier Java integration (Java Importer and Pluggable Java Component Interface)
- Development of their own Enterprise applications with technology such as ADF and JDeveloper
- Oracle cites research from IDC to make the case that the enterprise market is headed in the J2EE direction



Migration Options

- **Web-enable Forms**
- **Rewrite Application**
- **Manual conversion**
- **Automatic conversion**



Goals for Automatic Conversion

- Fully maintainable, clean J2EE compliant code
- Portable
 - Native Java and XML code, portable from one machine to another
- No wrappers
- All semantic contents converted
- Multi-tier architecture
- Flexible deployment
- Very little impact on business operations



Goals for Automatic Conversion

- Integration option - to integrate with Oracle's *9iAS* development environment including:
 - Full integration with JDeveloper
 - Assistance in moving applications from Release 3.0 and later releases into the *9iAS* environment
 - Efficient way to get Forms, Libraries, and Procedures into *9iAS* environment



Technical Challenges

- **Questions to ask your vendor**
 - Is all the code converted?
 - What percentage of conversion effort is automatic?
 - Is it easily maintainable?
 - Is there a continued need to license Oracle Forms and PL/SQL?
 - Does converted code permit database independence?



Technical Challenges

- **Questions to ask your vendor**
 - Can the tool be purchased as a tool or is it a service offering only?
 - Can you get assistance with issues and training during/after migration?
 - Is the conversion done at the company's premises or at the vendors?
 - Any wrappers in use?



Importance of Maintainability & Functionality

- The code quality should encompass five key points:
 - Clean
 - Understandable
 - Maintainable
 - Functionally identical
 - Compact



Tips for a quick and cost efficient migration

- Project planning
 - managing project risks
 - estimating the work
 - contingency buffers
 - tracking progress
- Testing
- Executive management support
- End user training - the learning curve
- Lessons learned



About CipherSoft

- With over 25 years of conversion experience, we have successfully implemented hundreds of conversion projects!
- We offer:
 - Training, Consulting, Assessments, Quality Assurance
 - Oracle Forms Upgrades: Older versions to 10g
 - PL/SQL Converter: Automatically migrates PL/SQL to J2EE
 - EXodus™: Automatically migrates Oracle Forms and PL/SQL applications to 100% J2EE architecture
- We house a development & conversion facility at our Calgary, Alberta head office
- We have a large partner distribution channel in South Africa, Spain, Brazil, Australia, Israel, United Kingdom and throughout the United States and Europe



Endorsement from the Industry

- **Oracle Partner**
 - One of 2 global Oracle migration partners
 - The only Validated Oracle migration partner
 - Member of Oracle's Partner Network
 - Member of Oracle's Technology Network
- **Sun iForce Partner**
 - Development
 - Migration
 - Global reseller of Exodus
- **HP Partner**
 - Global reseller of Exodus



Oracle Forms

The screenshot displays the Oracle Forms Runtime environment with three windows:

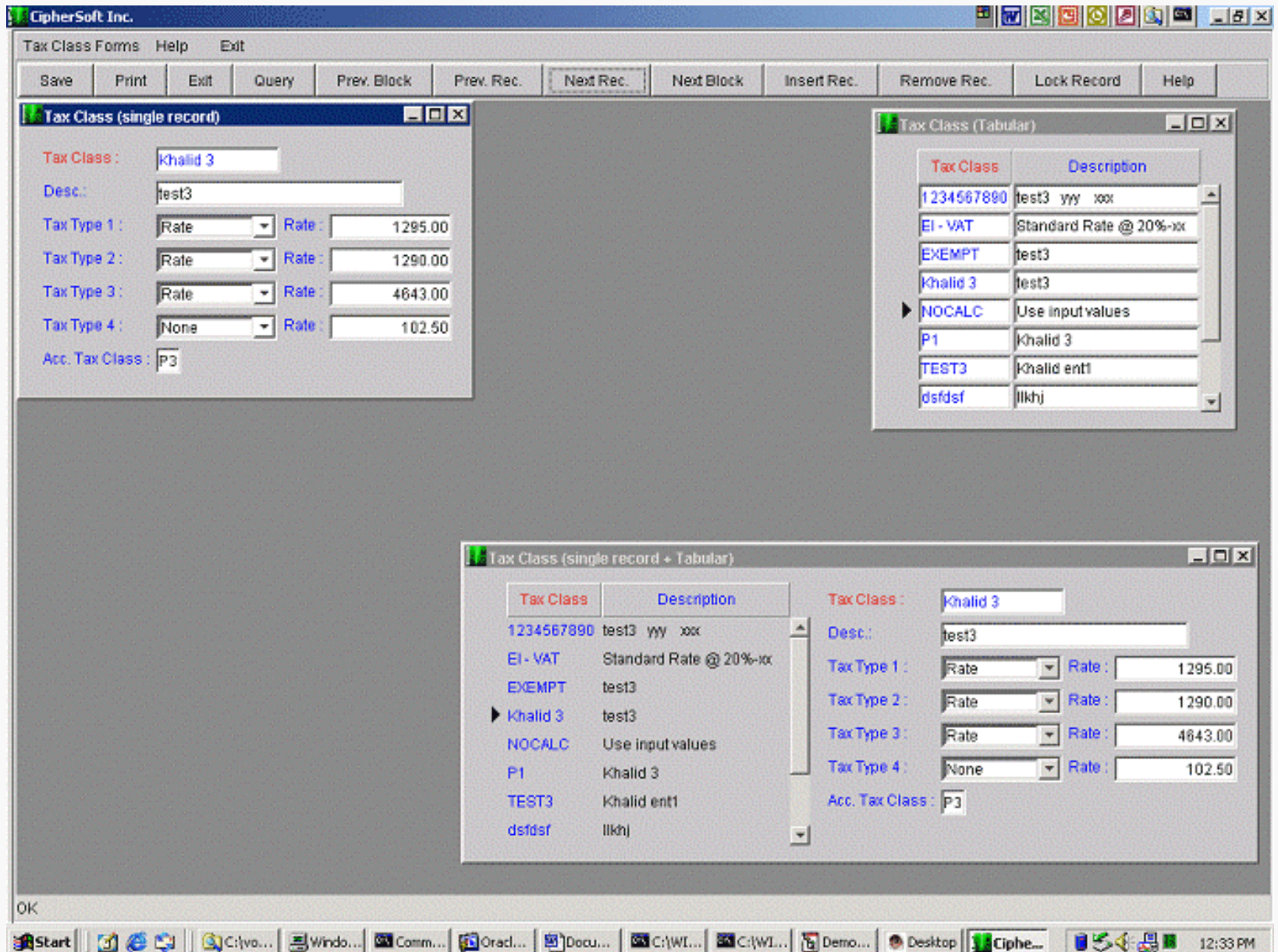
- Tax Sample Form 1:** A form with input fields for Tax Class (Khalid 3), Desc. (test3), and four Tax Type entries (YES/NO) with corresponding Rate values (1295, 1290, 4643, 102.5). An Acc Tax Class field contains 'P3'.
- Demo 2:** A table listing Tax Class and Description.
- Tax Sample Form 1 (Detailed):** A combined view showing the table from Demo 2 and the form fields from Tax Sample Form 1.


Tax Class	Description
Khalid 3	test3
EI - VAT	Standard Rate @ 20%-xxx
EXEMPT	test3
NOCALC	Use input values
P1	Khalid 3
Khalid 4	Khalid 4
1234567890	test3 yyy xxx
TEST3	Khalid ent1

Record 1/? <OSC> <DBG>

Windows Taskbar: Start, C:\voyager, C:\WINNT\System..., Windows Task..., C:\WINNT\System..., Command Prompt, Oracle Forms ... 12:30 PM

Exodus Converted Forms (Java)





Q U E S T I O N S A N S W E R S

Q U E S T I O N S
A N S W E R S



Thank you for attending!

CipherSoft Inc.

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