ORACLE DEVELOPER SUITE 10*g* OVERVIEW

KEY BENEFITS

ORACLE DEVELOPER SUITE 10g

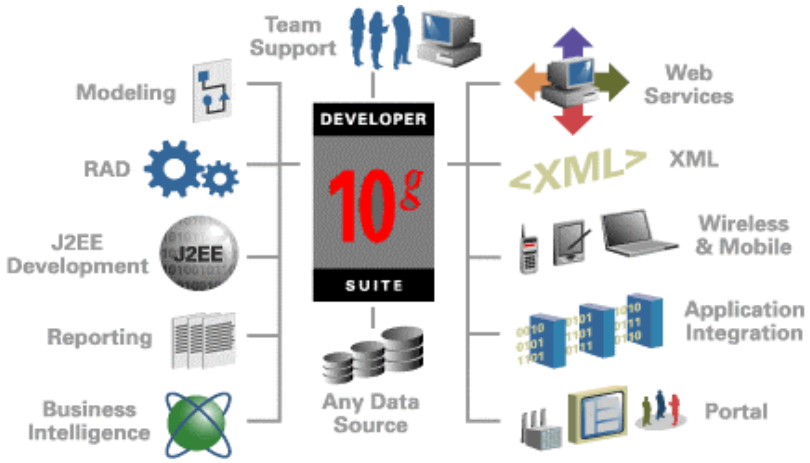
- Lower development costs with one tool for the entire application lifecycle
- Accelerate development projects in an integrated full lifecycle development environment
- Increase productivity regardless of skill level from design, analysis through implementation and maintenance
- Reduce risk with standards like Java, XML, SQL and Web services
- Analyze transactional information faster with built-in business intelligence tools.
- Improve application performance and quality with built-in performance tools and application frameworks
- Manage complexity with collaborative tools for team support and modeling with UML

Oracle Developer Suite 10g provides a complete, integrated, and open development environment for rapidly developing business applications and services that combine transactional and business intelligence capabilities. Oracle Developer Suite accelerates application development by integrating into a single environment support for the latest Internet standards including Java, XML, Web services, and SQL. Oracle Developer Suite reduces costs by supporting the full application development lifecycle including modeling, generation, code development, debugging, tuning, and deployment in an integrated suite.

Lower Development Costs

A complete and integrated development environment reduces time-to-market and lowers total cost of ownership. Rather than constructing a development environment from multiple tools with overlapping functionality and manually integrating them into a consistent framework, Oracle Developer Suite provides a complete transactional and business intelligence development platform, out-of-the-box.

On their own sophisticated tools like design and analysis modelers, rapid application development tools, data warehouse builders, analytical and reporting environments and software configuration management represent significant investments. Synchronizing multiple tools from different vendors each with independent release cycles and separate training curriculum is a time intensive, expensive maintenance effort that takes away from a team's ability to successfully deliver projects. Oracle Developer Suite changes this analysis with a suite of integrated transactional and business intelligence tools, available to every developer without additional cost or management overhead.



Oracle Developer Suite 10*g*: Complete, Integrated and Open

Accelerate Development Cycles

Integrated Lifecycle

Oracle Developer Suite helps organizations increase development productivity of high quality, standards-based applications through a single, highly integrated development environment that covers the entire application lifecycle. Developers easily move from high-level analysis, through rapid application development to reporting and analysis all within a single consistent development suite.

In each area, Oracle Developer Suite helps developers do common tasks faster. In the design and analysis phase of development, a Model Driven Architecture (MDA) turns conceptual models automatically into code. In the build phase, rapid application development components like Oracle Forms Developer and Oracle JDeveloper have intuitive visual coding environments with wizards, declarative property palettes and easy to use debugging and performance tuning tools. In the reporting and analysis phase components like Oracle Reports and Oracle Business Intelligence Beans make analyzing business transaction activity a point-and-click exercise rather than a tedious programming effort.

Integrated Platform

The components of Oracle Developer Suite are designed to work together and take advantage of each other's strengths, delivering highly optimized development cycles. For example, developers using PL/SQL in Oracle Forms can extend their applications with Java functionality developed in Oracle JDeveloper. Conversely, Java developers can extend their Java applications with business intelligence components designed with Oracle Business Intelligence Beans and Oracle Reports Developer. To simplify management, all components in Oracle Developer Suite can use Oracle Software Configuration Manager to control and share project information. This type of built-in integration speeds up development across the entire lifecycle while lowering maintenance, training and operational costs.

To make the model, build, deploy and test cycle even faster, Oracle Developer Suite embeds an instance of the Oracle Application Server J2EE Container. Developers are able to immediately test, debug and tune applications built with Oracle JDeveloper, Oracle Forms Developer and Oracle Reports Developer in the development environment itself without any complicated configuration or setup. Correspondingly, deployment to Oracle Application Server is made seamless with a single mouse-click or a simple file copy.

Oracle Developer Suite was built to work with any relational database through standard JDBC and ODBC database drivers. However, significant effort was put into enabling developers to take advantage of the unique feature set of the Oracle Database such as object relational and OLAP functionality. PL/SQL editing and debugging, functionality is built into Oracle JDeveloper and Oracle Forms allowing developers to seamlessly debug code that calls to database stored procedures in their applications.

Increase Productivity Regardless of Skill Level

Every organization has a range of skills in their developer community. The components in Oracle Developer Suite enable all levels of developers to be productive regardless of their training and pre-existing knowledge. Veteran Java developers will find Oracle JDeveloper a

natural development environment whereas traditional designers will find the Oracle Designer approach to structured analysis more appropriate. Developers seeking a more visual and declarative RAD approach will find Oracle Forms Developer meets their requirements.

Oracle Developer Suite also includes a J2EE Design Patterns framework, that helps developers rapidly and easily build high quality, high performance J2EE applications and Web services based on industry best practices. New developers will be immediately productive with the framework through a visual workbench that automates common development tasks while facilitating the construction of soundly architected applications. At the other extreme, seasoned developers will be able to focus on building applications rather than maintaining an application infrastructure.

Reduce Risk with Standards

Developing applications with industry standards helps development teams reduce risk by offering vendor choice, ensuring interoperability, enabling portability, and taking advantage of widely available developer skills. Oracle Developer Suite has aggressively adopted Java, XML and Web service standards so development teams avoid proprietary vendor lock-in while remaining in a highly productive, integrated development environment.

With Oracle JDeveloper, Oracle Developer Suite leads the industry in support for all the latest in J2EE, J2SE and J2ME standards. XML standards support includes DOM, SAX, XML Schema, JAXP and XSL. Web services standards support includes SOAP, WSDL and UDDI. Other key standards including UML, XMI, WebDAV and SQL are also extensively supported. These capabilities are available to the components in Oracle Developer Suite.

Increased productivity does not mean support for the latest standards is sacrificed in Oracle Developer Suite. In Oracle JDeveloper, UML modelers, visual editors and wizards generate J2EE components facilitating high standards-based productivity. In Oracle Reports, the report page editors generate standard Java Server Pages that can be further edited in any JSP editor. In Oracle Forms, the Java clients run on standard Java Virtual Machines and can seamlessly integrate any standard JavaBean component.

Analyze Transactional Information Faster

Producing reports and analyzing data collected from transactional systems is often left to after development completes. In many cases, developing a business intelligence system is a major undertaking requiring separate software and long development cycles. With Oracle Developer Suite, a different perspective is taken. Business intelligence is considered a normal aspect of transactional development. Developers have available a full complement of integrated business intellingence tools to help build reports and analytical applications as a natural complement or adjunct to the transactional applications.

With Oracle Reports, Oracle Developer Suite offers an enterprise-reporting tool for the development of reports based on any data source and displayed in any format. Reports can be accessed from the Web as well as printed on paper. Oracle Reports Developer provides a highly intuitive visual reports development environment for business analysts and enables Java developers to customize the reports in the Oracle JDeveloper JSP editor.

Oracle Business Intelligence Beans (BI Beans) is a set of JavaBeans that enable developers to build analytic applications taking advantage of the capabilities of Oracle Database. BI

Beans components can be categorized in three ways: presentation beans (graph, crosstab and table), OLAP beans (query and calculation builders), and catalog services. BI Beans integrate directly into Oracle JDeveloper and appear as standard Swing JavaBean controls for rich clients and a JSP tag library for HTML clients.

Improve Performance and Quality

High performance and high quality code are indicators of well-architected applications. Successful development organizations make performance and quality inherently part of the application development process. However, the skills required to build such applications can be difficult to find and nuture in most organizations.

For Java developers, Oracle JDeveloper changes the J2EE performance and quality tools landscape by ensuring every developer has multiple types of performance profilers, the industry's fastest Java debugger and on-demand code analysis and optimization with CodeCoach, all available within the same development environment. These tools enable developers, regardless of their skill and Java experience, to quickly isolate and fix code performance problems by analyzing memory usage, Java events, code execution and SQL queries.

For developers generating applications from Oracle Designer models, the resulting PL/SQL code is highly optimized from years of large-scale application deployments using this infrastructure. Oracle Forms developers automatically benefit from the built-in optimization of the Oracle Forms Web deployment infrastructure that takes care of minimizing network traffic and memory footprint. For Java developers using JDeveloper's J2EE Design Pattern framework, the performance and scalability characteristics of the resulting applications are based upon best practices in the J2EE industry. The end-result of using modeling and frameworks is a consistent, highly maintainable, scalable application infrastructure without the overhead of maintaining the framework itself.

Manage Complexity with Collaboration

As applications and services become more complex and mission critical, accurate design and analysis becomes a major factor for successful software development projects. Oracle Developer Suite offers application analysts all of the tools necessary to model applications using standards such as UML modeling in Oracle JDeveloper or Information Engineering modeling in Oracle Designer.

Analysts using Oracle Developer Suite can accurately capture end user requirements in models and automatically transform them into working software systems. Database analysts can generate database schemas from logical and physical database models. Business analysts can generate Java applications from UML in Oracle JDeveloper and PL/SQL applications from application models in Oracle Designer. Oracle Developer Suite also supports reverse engineering of existing database and Java or PL/SQL code into models for re-use and improved documentation.

With Oracle Software Configuration Manager, team collaboration capabilities for multi-stream, multi-project development is provided across all components of Oracle Developer Suite. Based on a database repository, Oracle Software Configuration Manager manages the life cycle of any structured and unstructured content including Java and PL/SQL code, documents, HTML and other common development artifacts. Oracle JDeveloper also

supports Web-based Distributed Authoring and Versioning (WebDAV) for development teams requiring project sharing over the Internet.

Innovate with New Technologies

New technologies often enable businesses to innovate in ways unthinkable previously. For example, Java, XML and SQL each represent distinct revolutions in development thought: Java for business logic, XML for interoperability, and SQL for data access. On their own they are interesting, powerful technologies but integrated together as first class languages in Oracle Developer Suite, developers are able to conceive unique answers to real business problems. For example, the Oracle JDeveloper code editor is designed with extensions specific to Java, XML, PL/SQL, JSP and HTML enabling developers to work in each language without suffering context changes or productivity loss.

In particular, as companies are looking at improving business flexibility, Oracle JDeveloper helps developer create a new generation of applications composed from reusable business services.

Services based on Internet standards, also known as Web services represent another such technology advance, providing an elegant and simple way to programmatically connect systems using Internet protocols and XML standards. Oracle JDeveloper has led the industry in adopting Web services publishing and consumption as a feature of the development cycle rather than a stand-alone, unintegrated set of utilities. Components like Oracle Forms and Oracle Reports are able to seamlessly take Web service clients from Oracle JDeveloper and incorporate them into PL/SQL applications.

Oracle Developer Suite continues to aggressively adopt new and emerging industry standards in order to keep its developer community on the cutting edge of technology. Technologies like Java, XML, Web services, WebDAV, UML and others have rapidly become required rather than nice-to-have features. By incorporating them into a highly productive, integrated development environment, developers using Oracle Developer Suite are able to keep ahead of the curve creating next generation applications, today.

Summary

Bringing together transactional development with business intelligence capabilities in one complete and integrated development environment was a design goal of Oracle Developer Suite. In one integrated environment supporting the entire application development lifecycle, developers now have a highly productive environment to deliver standards-based applications. The industry has realized that Oracle Developer Suite represents a new value proposition by recognizing individual components as leaders in their respective categories.[1] Oracle Developer Suite is available for free download from the Oracle Technology Network (http://otn.oracle.com).

[1] Components of Oracle Developer Suite have been recognized as industry leaders by Gartner in three different magic quadrants: "Java Integrated Development Environment" with Oracle JDeveloper, "Rapid Application Development" Oracle Forms Developer and Oracle Reports Developer, and "Integrated Development Frameworks" with Oracle Designer and Oracle Forms Developer.