

ORACLE WEBCENTER 10g R3

PRODUCT SUMMARY

KEY FEATURES

- Build next generation, context-aware, JSF-based applications
- Embed Web 2.0 content, collaboration, search, and communication services into JSF applications
- Build and integrate standards-compliant portlets
- Publish data quickly using Web 2.0 enterprise mashup tools
- Enable runtime customization of JSF components
- Apply standards-based security
- Expose JSF applications as portlets
- Leverage metadata management services

STANDARDS SUPPORTED

- Application: JSF
- Security: WS-Security, JAAS
- Portal: JSR 168, WSRP, and JSR 301
- Content: JCR/JSR 170
- Data Model: JSR 227
- Communication: SIP/JSR 116

KEY BENEFITS

- Empower the information worker to evolve business systems in concert with IT
- Maximize productivity by eliminating wasteful context shifts
- Seamlessly blend Web 2.0 services, processes, BI and transactions in a single JSF page

RELATED PRODUCTS

- Oracle Application Server Enterprise Edition
- Oracle SOA Suite
- Oracle JDeveloper

Oracle WebCenter – the industry’s most integrated, comprehensive and standards compliant user environment – delivers relevant tasks and information to information workers in context and brings Web 2.0 to the enterprise.

Introduction

Today we are advancing through a technology revolution commonly referred to as Service Oriented Computing (SOA). The basic architecture of business is changing as monolithic applications are transformed into reusable services. As a result, organizations are becoming more nimble and better able to react to ever changing market conditions. However, the direct impact of SOA on the daily activities of today’s information workers, who continue to use a disparate set of applications and tools, is less clear. For example, the majority of simple task application interfaces is neither simple nor consistent, and composite tasks often result in chaotic collaboration. While information workers of all types are becoming empowered, the information and services they rely on remain largely incomplete and delivered out of band. Web 2.0 technologies, though promising, are often unmanaged silos within an enterprise. In summary, the challenge is not only about how to build applications more effectively (with SOA), but also how to build more effective applications.

Next generation user interaction – Oracle WebCenter

Oracle WebCenter is an integrated suite of technology designed to deliver a united, context-aware user experience specifically targeted at needs of information workers. Oracle WebCenter combines the standards-based, declarative development of JavaServer Faces (JSF), the flexibility and power of portal technology, and a set of horizontal, Web 2.0 services. Together, these tools and services provide a unique ability to build applications that eliminate context shifts and maximize productivity. WebCenter applications allow users to interact directly with services like instant messaging, documents and content, voice over IP, discussion forums, and wiki directly within the context of the application. The user doesn’t merely pass through the application to get to the service; they are integrated as a native part of the application.

Three major components make up Oracle WebCenter 10g Release 3: WebCenter Framework, WebCenter Services, and WebCenter Anywhere.

Build context-rich, customizable applications – WebCenter Framework

WebCenter Framework supports the creation and execution of context-rich applications. To achieve this, WebCenter Framework augments the JavaServer Faces (JSF) environment by providing additional components, integration, and runtime options. In essence, the WebCenter Framework integrates capabilities historically included in portal products directly into the ‘fabric’ of the JSF environment – specially, the ability to bind portlets and customize the application at runtime. A complete, standards-based portlet development environment and business user tools support rapid creation of JSR 168-based portlets and

deployment of WSRP 2.0-based portlet producers. Content is easily integrated and published using data controls built to the JCR/JSR 170 standard. Content repositories supporting the JCR standard can be configured and adapters are available for Oracle Content Database Suite, Oracle Portal, file systems, and leading third party content management systems. In addition, all of the framework pieces are integrated into Oracle JDeveloper and implemented as an extension, providing unified access to the components as the application is built.

Embed Web 2.0 into applications – WebCenter Services

WebCenter Services include a complete set of Web 2.0 content, search, collaboration, and communication services that can be embedded directly into applications built with the WebCenter Framework. These services include:

- A content management solution for storing and managing files and documents (Oracle Content Database Suite)
- A secure enterprise search application for locating and accessing data and documents stored within the enterprise (Oracle Secure Enterprise Search)
- A presence server and instant messaging service that enable users to see who is on-line and initiate communication via text, voice or video
- A discussion forum application for on-line, topical community discussions
- A wiki/blog server for collaborative authoring of documents and sharing of ideas

Access WebCenter applications on any device – WebCenter Anywhere

WebCenter Anywhere leverages Oracle's robust wireless platform and standards-based framework for rapidly developing enterprise mobile applications (ADF Mobile) to bring the benefits of a unified work environment to all types of mobile technologies, including connected devices like PDAs and Smartphones, Mobile Voice, Mobile Messaging, and even Telnet-based devices for industrial users. With WebCenter Anywhere, the productivity and efficiency of context-rich WebCenter applications are available to users no matter what device they use and wherever they happen to be.

Summary

To go beyond the business agility benefits of SOA and achieve new levels of information worker productivity requires new approaches for building more effective applications. While application standards such as JSF and Web 2.0 services provide important foundation elements, user interaction issues still remain. Oracle WebCenter is the first product to incorporate the tools and services that can be used by developers to create context-rich applications needed by today's information workers. It provides a natural user interaction environment for SOA applications and allows you to leverage all types of services in creating a better, more effective user experience.

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