

ORACLE WEBCENTER 11g

PRODUCT SUMMARY

KEY FEATURES

- Build next generation, context-aware, JSF-based applications
- Embed Web 2.0 content, collaboration, search, social networking 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
- Collaborate Online in small groups to large communities

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 in context, empowers business users to evolve their application, 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 unified, context-aware user experience specifically targeted at the needs of information workers. Oracle WebCenter combines the standards-based, declarative development of Java Server Faces (JSF), the flexibility and power of portal technology, a set of horizontal, Web 2.0 services, and a pre-built collaborative application. Together, these tools and services provide a unique ability to build applications that eliminate context shifts and maximize productivity. Oracle 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; services are integrated as a native part of the application.

Four key components make up Oracle WebCenter 11g: WebCenter Framework, WebCenter Services, WebCenter Composer, and WebCenter Spaces.

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 – specifically, 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 task flows 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, communication and social networking 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 online, topical community discussions
- A wiki/blog server for collaborative authoring of documents and sharing of ideas
- Linking, Tagging, and People services to foster social networking
- Integration with personal tools (email, diary) and RSS publishing for personal productivity

Empower application stakeholders to participate – WebCenter Composer

WebCenter Composer is a declarative, browser-based platform that enables information workers to easily create, share, and personalize pages in the running application. After creation, the pages can be easily modified by rearranging components through drag and drop gestures and by editing components in place as indicated by visual cues. It empowers all application stakeholders to participate in the evolution and lifecycle of the application by treating the pages and the customizations as metadata.

Deliver a context-rich, collaborative environment – WebCenter Spaces

WebCenter Spaces provides an online environment for social networking, communication, collaboration, and personal productivity, enabling people to work together more effectively in the context of their everyday tasks. A group space can address small project groups targeted on a specific short term deliverable, as well as larger groups of hundreds of people who share a common topic of interest and want to interact and share information. WebCenter Spaces provides intuitive tools that allow information workers to collaborate and share information by adding resources, such as documents, charts, reports, portlets, and business applications, and Web 2.0 services, such as Wikis, Discussions, Tagging, and Linking, to the group space.

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.