ORACLE ENTERPRISE REPOSITORY AND ORACLE SERVICE REGISTRY FOR THE SOA LIFECYCLE

KEY FEATURES AND BENEFITS

ENSURE SOA ROI THROUGH END-TO-END LIFECYCLE GOVERNANCE

FEATURES

- Lifecycle management
- Advanced registration workflow
- Easy navigation for impact analysis
- Metrics and analytics
- Policy and other architecture controls
- Built-in best practices
- Comprehensive UDDI v3 compliance
- Extensible metadata management
- IDE plug-ins and lifecycle integrations
- SCA support

BENEFITS

- Gain comprehensive, enterprise wide visibility into SOA assets, to minimize redundancy, optimize service reuse, and improve ROI.
- Graphically display relationships between services and the business processes they support to maximize alignment between business and IT.
- Drive SOA adoption and growth within the organization using robust analytics to track and illustrate the progress and value of SOA initiatives.
- Extend governance across the heterogeneous IT environment to comprehensively manage and maintain all SOA assets.

Service-oriented architecture (SOA) is an approach to IT that connects people, process, and technology in a dynamic, distributed environment. Although this shift provides the agility required to innovate and compete in today’s economy, it also increases system complexity. To mitigate this risk, organizations must automate and manage the lifecycle, and control and track IT investments to ensure they align with corporate objectives. Together, Oracle Enterprise Repository and Oracle Service Registry create a solid foundation for SOA governance and lifecycle management that reduces complexity and provides comprehensive insight into the business impact of SOA at any level of SOA maturity.

Integrated, Closed-Loop SOA Lifecycle

For SOA to succeed, it takes more than just managing services. The governance process must span the entire SOA lifecycle and unite resources from across divisions and geographies in a collaborative, holistic approach to corporate decision-making and compliance. Oracle Enterprise Repository and Oracle Service Registry provide a common communication channel for the automated exchange of metadata and service information among service producers, consumers, providers, architects, policy administrators, and additional governance tooling. Working in concert, the registry and repository provide the visibility, feedback, controls, and analytics required to ensure your SOA delivers real, tangible business value.

Powered by comprehensive automation capabilities, the integration of Oracle Enterprise Repository with Oracle Service Registry—a Universal Description, Discovery and Integration (UDDI) standards-based solution—streamlines governance processes and optimizes service reuse to promote and foster SOA adoption. The combined solution establishes a foundation for the success of any SOA initiative by

- Managing the lifecycle and visibility of all SOA assets with their related artifacts
- Providing extensive automation and built-in best practices
- Focusing on business results
- Extending governance across the heterogeneous IT environment
**Key Features**

As enabling technologies for integrated, end-to-end governance of the SOA lifecycle, Oracle Enterprise Repository and Oracle Service Registry leverage the following functionality to overcome common SOA challenges and fundamentally change the way business and IT professionals work across the extended enterprise.

**Enterprise Visibility**

Provide role-based visibility into all SOA assets, regardless of source, through a centralized repository for business processes, services, composite applications, components, models, frameworks, policies, and data services. Visibility into assets under development minimizes redundancy and promotes service collaboration and reuse.

**End-to-End Traceability**

Graphically display and navigate asset-to-asset and asset-to-project relationships and interdependencies to simplify impact analysis and ensure business alignment by enabling users to organize and link SOA assets to associated business processes.

**SOA Lifecycle Management**

Support the entire SOA, process, service, and asset lifecycle with governance controls and automation that reach from the planning, design, and development of services and composites to their deployment and consumption in the live service environment.

**Advanced Registration Flows**

Automate approval and change management processes throughout the registration and lifecycle management of services. Fully automated workflows help organizations build trust and reduce risk by ensuring that services and other assets meet standards and requirements before they are promoted to consumers.

**Comprehensive, Extensible Metadata**

Create a system of record for all SOA asset information by aggregating data on the lifecycle stage, approval status, policy compliance, and more. This allows organizations to expose the right asset information to all project teams.

**Integration with Development Environments**

Allow developers to easily publish, locate, and consume SOA assets from directly within their integrated development environment (IDE) using plug-ins to JDeveloper, Eclipse-based and Microsoft Visual Studio .NET development environments.

**UDDI v3 Compliance**

Enable standards-based service discovery and dynamic binding at runtime and provide interoperability with other tools in the SOA ecosystem, such as enterprise service buses and business process management systems.
Automated Harvesting and Introspection
Enable automatic harvesting and introspection of BPEL, Web Services Description Language files, XML Schema Definitions, and other artifacts, keeping the repository services and relationships current and facilitating service endpoint management. Harvesting extends to SCA standard composites and their relationships.

Third-Party Integration
Connect assets, projects, users, and other elements of the heterogeneous enterprise using out-of-the-box, standards enabled, or custom integrations. Easily submit and access assets of any type using Web-based user interfaces, IDE plug-ins and out-of-the-box ANT tasks.

Policy Management
Optimize the enforcement of SOA policies and organizational collaboration by centralizing policy visibility, while simultaneously federating policy administration, distribution, and enforcement. Samples help expedite policy management.

Prescriptive Reuse
Prescribe SOA assets and standards for projects and deliver them directly to project team IDEs using compliance templates. Automatically track usage and measure compliance to transparently integrate reuse into the development experience.

Architecture Controls
Maintain architecture alignment by tracking and communicating progress toward the completion of your target SOA architecture. This helps enforce architectural standards during design and construction to ensure alignment and compliance.

Analytics for Measuring Value
Prove the ROI from SOA with more than 20 out-of-the-box reports to demonstrate savings, track compliance, and illustrate SOA progress. Reports target a range of stakeholders with key metrics, including business value and ROI, predicted versus actual reported savings from reuse, asset usage, and compliance.

Built-in Best Practices
Jump-start your SOA governance efforts and reduce risk through an extensive foundation of built-in best practices and templates. Oracle Enterprise Repository includes packaged content and processes to speed your success with SOA, including

- Out-of-the-box configurable workflows
- Solution packs for enterprise architecture and open source
- Sample assets, policies, and metadata
- Preconfigured asset templates

Contact Us
For more information about [insert product name], please visit oracle.com or call +1.800.ORACLE1 to speak to an Oracle representative.
Oracle’s SOA governance solution uses automation to promote the integrity and success of your SOA initiative. Through a centralized repository, policy enforcement, and monitoring of key performance metrics, the solution provides the foundation required to build business value through SOA.

RELATED PRODUCTS

- Oracle Web Services Manager
- Oracle Management Pack Plus for SOA
- Oracle SOA Suite

Oracle is committed to developing practices and products that help protect the environment.