

# SOA Governance Solution

Accelerating SOA



## Highlights

- Provides design, deploy, and run-time SOA governance to your IT infrastructure.
- Manages service life cycle, dependencies and reduces service proliferation.
- Define and manage SOA governance policies and contracts through easy-to-use management console.
- Manage and monitor service health, performance, and other Quality of Service (QoS) characteristics of services.
- Accelerates SOA enterprise adoption by rapidly exposing existing IT functional assets.
- Integrated with Sun™ Repeatable Quality (RQ) methodology to plan and guide the implementation.



Sun™ SOA Governance Solution represents the next pragmatic step forward in the accelerated evolution of Service Oriented Architecture (SOA) through delivery of a flexible and fully customizable framework for governance, monitoring, and life cycle management of services. Sun's solution — consisting of the framework, professional services, and best practices — provides advanced SOA benefits through development cost reduction, deployment and operational simplification, and consistent service management across existing enterprise IT functional assets.

## Critical success factors for SOA

Service Oriented Architecture enables today's enterprises to pursue business and technical strategies that promote the exposure of business functionality within and between enterprises in a consistent, published, secure, and contractual way. However, offering a Web services interface to existing enterprise functionality does not create an SOA. In order to turn Web services — or any other type of service-like components — into a true SOA, it is necessary to include a governance model that defines the policies and practices all services should follow. With no clear guidelines on how an enterprise would govern SOA, several SOA initiatives fail to deliver the results.

## SOA governance

Governance is determined by the policies, rules, and regulations under which an organization functions, as well as the processes that ensure compliance. While design-time governance deals with capturing information about services and policies, run-time governance enforces those policies during service discovery, management, and execution. For effective governance, centralized control within the SOA infrastructure is needed to ensure that organizational policies are consistently applied.

Defining SOA governance policies and procedures early in the project life cycle allows you to:

- Prevent service proliferation and promote reuse
- Define services with the right granularity
- Utilize a formal service description model
- Define appropriate metadata
- Develop and implement best practices for interoperability
- Approach SOA from how it will be deployed, managed, and consumed

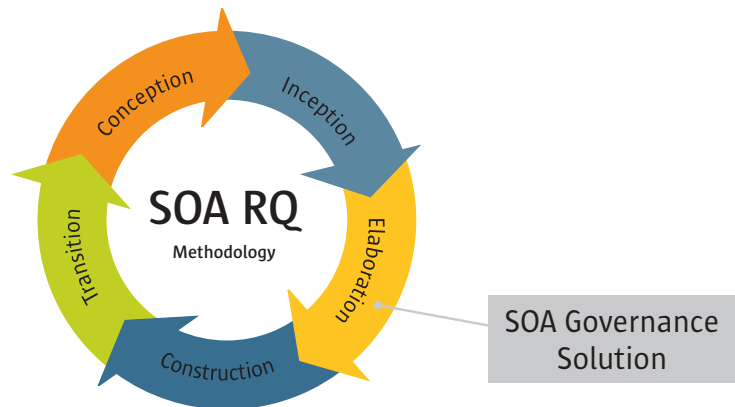
## Sun SOA Governance Solution overview

Sun SOA Governance Solution provides a customizable accelerator framework, professional services, and best practices — the fundamental building blocks of enterprise-wide SOA. This allows enterprises to take an operational view of SOA by focusing on policies like Quality of Service (QoS), auditing, chargebacks, and service throttling. Policies and contracts can be centrally defined and managed, allowing service implementers to focus on business problems. A central registry-repository is included to store all services, associated metadata, plus business and technical policies.

“In 2006, lack of working governance mechanisms in midsize-to-large (greater than 50 services) post-pilot SOA projects will be the most common reason for project failure (0.8 probability).”

#### Gartner

“Service-Oriented Architecture Craves Governance,”  
January 2006



### SOA Service Life Cycle

#### Sun SOA Governance Solution features

##### Design, deploy, and run-time governance

Governance policies and contracts are defined independent of the service implementation. Create policies for QoS, lease, chargeback, security, and throttling. New policies and contracts can be added without impacting the software development life cycle. During runtime, every service request is passed through a series of managed aspects that can mediate or modify the request to enforce compliance.

##### Service life cycle management

Complete service life cycle management support by allowing multiple concurrent service versions, as well as deprecation and retiring of services.

#### Service discovery and mediation

Service consumers can discover and call services directly using Simple Object Access Protocol (SOAP) or using native service calls in Java™, C++, .Net, or virtually any other language or platform. Service requests are routed to the right service implementation as defined in the service registry. Service implementations may be deployed as Web services or they can be other technology implementations like Enterprise JavaBeans™ (EJB™) components, plain old Java objects (POJOs), .NET objects, or any other executable code.

#### Service management and monitoring

Service health, performance, and other QoS characteristics of both local and remote service implementations can be managed and monitored through the central Governance Modeler and Management Console.

#### Sun advantage

Sun’s pragmatic approach to SOA is driven by these principles:

- *Commitment to standards and interoperability*  
Sun’s approach is based on building interoperable and extensible solutions through the use of accepted, open industry standards.
- *Sun Repeatable Quality (RQ) Methodology*  
RQ is an adaptive, role-based methodology that provides an iterative and incremental approach to discover, enable, and realize SOA. It draws from more than 2000 successful implementations worldwide, and provides Unified Modeling Language (UML) compliant artifacts and templates geared towards the SOA project life cycle.
- *Proven architecture, design patterns, blueprints, and recommended practices*  
Customers benefit from Sun’s expertise, techniques, and principles in the design and implementation of scalable, extensible architectures for their business systems.