

## Optimize SOA

Gain an integrated lifecycle solution for SOA governance, quality and management.



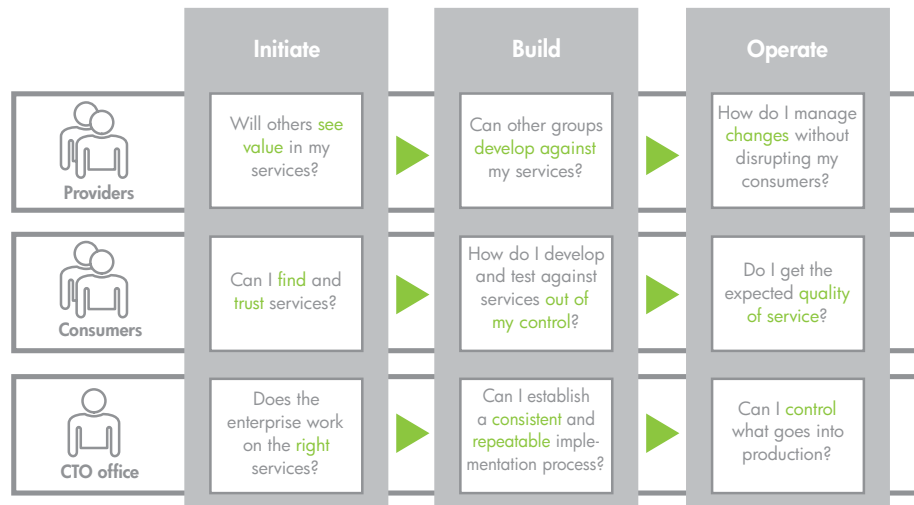
Enterprise customers are demanding more agility in their new applications. IT leaders are responding by embracing service-oriented architecture (SOA). SOA has the power to transform IT from a bottleneck and cost center into a key source of business flexibility and competitive advantage.

But with these benefits come new risks. When incorrectly implemented, SOA can disrupt your business. Instead of becoming more agile, your business could become more fragile.

Enter HP. As the leader in business technology optimization (BTO), HP is the only company that combines an integrated lifecycle solution for SOA governance, quality and management with the know-how to get it done. HP can help you achieve all the benefits of SOA while reducing the risk of moving to a new IT architecture.

**Figure 1. SOA lifecycle challenges.**

To control business risk, you must address challenges encountered across the service lifecycle.



## Solve a broad array of challenges

Today, SOA is a mainstream IT initiative that ranks among the top priorities of CIOs. SOA dramatically improves the flexibility and adaptability of enterprise organizations. It accelerates time-to-market for new applications and processes, drives down IT costs by making services highly reusable, and enables business processes that are built for change.

But with these benefits come a wide variety of new challenges:

- An inability to advertise or discover services that are spread across the enterprise prevents constituents from consistently finding them.
- Consumers don't trust or can't control a service even if they can locate it, so they recreate it.
- Testing of services designed for reuse is difficult and time consuming, so there is typically insufficient testing.
- There is no reliable way to define, measure and enforce service-level agreements between the provider and consumer.
- Changes to the service infrastructure impact the availability and performance of the service.
- There is insufficient visibility into the requirements for a service, whether it is a high-level business requirement or a functional, performance, or availability and service-level requirement.
- Services are created and deployed without enough regard for corporate governance or suitability for reuse.
- Not having the right skill set can hamper efforts to take your SOA program beyond an initial pilot or proof-of-concept project.

## SOA has unique lifecycle phases

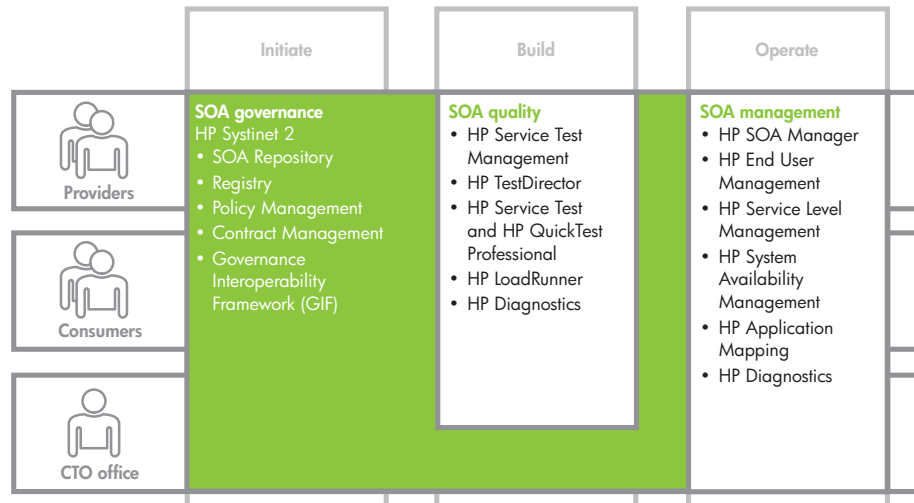
These challenges present themselves after the planning phase, which typically includes performing a readiness assessment, building a business case and choosing the right starting project. The challenges of building and deploying can be grouped into three phases of a simple SOA lifecycle: initiate, where you define the services; build, where you develop and ready the services for deployment; and operate, where customers use the services.

In each phase, the challenges affect three unique stakeholders:

- The providers who create services and publish them for reuse
- The consumers who use services as part of their composite applications to create the mission-critical application
- The CTO office, which represents the global view of the enterprise

**Figure 2. SOA lifecycle solutions.**

HP provides solutions for the initiate, build and operate phases of the SOA lifecycle.



## The HP BTO strategy for optimizing SOA

To enable SOA success, you need to take an integrated approach that increases the bonds between the stakeholders and leverages assets across the lifecycle. That's where HP BTO can add real value. BTO provides a strategy for optimizing business outcomes from IT, focusing on the areas of SOA governance, quality and management.

Benefits of this approach include:

- Greater business agility and fewer duplications of effort by providing services that are consistently discovered, understood and trusted as the basis for new applications
- Lower maintenance costs and more flexible applications by building consistency into services
- Higher-quality services and fewer service outages by providing services that meet business requirements and deliver uninterrupted performance when they are put into production
- Reduced risk of SOA initiatives by delivering the flexibility and cost savings that SOA promises without allowing complexity to turn into chaos

## A unique approach to the unique challenges of SOA

Our BTO strategy for SOA is deployed using HP optimization centers. These software product centers provide specific solutions for each of the phases of the SOA lifecycle—initiate, build and operate.

### HP SOA governance

Leveraging technology developed by Systinet, and deployed through HP SOA Center, we deliver SOA governance solutions that your service providers, service consumers and CTO can use to:

- Gain complete visibility for discovering and understanding services
- Improve trust between consumers and providers by increasing predictability and transparency
- Control the lifecycle of services and effectively manage change

### HP SOA quality

During the build phase, HP Quality Center and Performance Center offer SOA solutions that your service providers and service consumers can use to:

- Validate functional quality
- Optimize performance and enable services to scale in production
- Manage the complexity of testing multiple services and provide traceability and impact analysis

### HP SOA management

During the operate phase, HP Business Availability Center offers SOA management solutions that your service providers, service consumers and CTO can use to:

- Enforce IT security and business policies at run-time
- Increase visibility into service levels and the business impact of outages
- Improve problem detection, notification and mean time to repair
- Control the risk of changes to the implementation of services

## Leverage an integrated solution

HP is the only company that provides an integrated solution for SOA governance, quality and management. Our approach enables the efficiency, performance and operational integrity of your enterprise SOA deployment.

With HP, you can start where you need, targeting the area of greatest pain in your SOA initiative. The bottom line: HP helps deliver better outcomes for SOA projects, enabling you to achieve all the benefits of SOA while taking far fewer risks.

## HP Services

HP Services offers a complete set of services that cover the complete SOA lifecycle, regardless of what stage you are at in your SOA transformation. This includes whether you have just begun to think about SOA, whether you've completed a few small SOA projects, or have already fully embraced and have begun to implement SOA across your enterprise.

For an overview of HP software services, visit:

[www.hp.com/go/software](http://www.hp.com/go/software)

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