



SOA Governance from HP & Layer 7



Control and Manage your Design Time and Runtime SOA

Deploying Layer 7 SecureSpan or CloudSpan together with HP BAC and SOA Systinet offer:

Policy Lifecycle Management

Centrally design, create, publish, roll back, and retire design time and runtime SOA policies.

SOA Performance Optimization

Monitor, measure and proactively improve SOA user and service performance across multiple network boundaries, transports and virtualized services.

SLA Enforcement

Service Level Agreement goals defined in SOA Systinet can be enforced in Layer 7 policies, with conformance to goals monitored by BAC creating a closed-loop process to ensure SLAs are being met.

To learn more about Layer 7 and how it can address your organization's needs, call 1-800-681-9377 (toll free within North America) or +1.604.681.9377. You can also email us at info@layer7.com; friend us on facebook.com/layer7; visit us at layer7.com, or follow-us on twitter [@layer7](https://twitter.com/layer7).

For more on HP's SOA solutions please visit: www.hp.com/go/soa

HP BAC and SOA Systinet deployed in conjunction with Layer 7 provide comprehensive governance of design time policies and runtime services

The Challenge of SOA Governance

SOA governance is concerned with managing the terms and conditions (or rules) under which application services can share business functionality and data with other application services. SOA governance thus requires the ability to capture these rules in policy; centrally enforce policies to ensure terms and conditions are being adhered to, and then monitor all systems involved in order to measure policy effectiveness. However, the ability to define, enforce and coordinate policy on and between services across a distributed SOA is complicated in real-world environments by the decentralized nature of development and diverse operating environments. While effective SOA governance will ultimately depend on people following the policies and processes put in place, there are key pieces of infrastructure that can help organizations control their SOA at both design time and runtime.

Design Time Governance

HP SOA Systinet is a SOA Governance product which provides an authoritative SOA registry/repository, design time policy management, lifecycle visualization and visual representation of all service level dependencies.

Deployed in conjunction with the Layer 7 SecureSpan family of XML Gateways or CloudSpan family of cloud solutions, HP SOA Center offers Layer 7 administrators the ability to browse for available SOA assets, including service definitions, message schemas and transforms, and reference those assets to compose runtime policies. Layer 7 policies can be saved to/retrieved from HP SOA Systinet just like any other SOA asset. The lifecycle and overall management of these assets is performed in SOA Systinet, providing an authoritative, controlled source of SOA assets, while Layer 7 provides runtime enforcement of relevant policies.

Runtime Governance

Layer 7 SecureSpan and CloudSpan provide secure, scalable, centralized runtime enforcement of service-level policies for enterprise, B2B and cloud-based SOA. These policies can include access preferences, message confidentiality and integrity, content validation, message transformation, credentialing, transport mediation and SLA conditions to give some examples. Using the Layer 7 Policy Manager, organizations can create rules for governing the operational behavior of their services, and have those rules enforced inside the Layer 7 device to ensure SOA security, compliance and reliability.

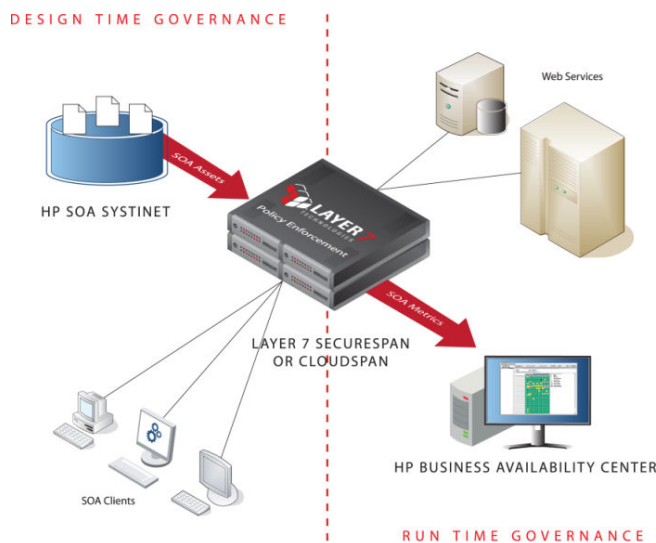
Layer 7 can also submit key SOA metrics to HP Business Activity Center (BAC) and Real User Monitor (RUM), ensuring users and services can be tracked and monitored across a distributed SOA despite message-based encryption, multiple transports and service virtualization.

HP + Layer 7 = Comprehensive SOA Governance

HP SOA Systinet and BAC/RUM deployed in combination with Layer 7 provides organizations with a solid foundation for SOA governance by delivering comprehensive policy lifecycle management, scalable policy enforcement and the ability to monitor policy compliance across users and systems. In this way, organizations can create a closed-loop process to ensure their SOA goals are continually met.

Key Features	
SOA Appliance	
Performance	<ul style="list-style-type: none"> Accelerated XML message processing
Access Management	<ul style="list-style-type: none"> Policy enforcement point for identity-driven SOA security, including client authentication and fine-grained, service level authorization
Message Security	<ul style="list-style-type: none"> Integrated PKI infrastructure helps ensure data confidentiality through message-level signing and digital encryption
Regulatory Compliance	<ul style="list-style-type: none"> Generate log and audit files at multiple levels, and export data for correlation and forensic analysis
Layer 7 / HP Interoperability	
SOA Systinet	<ul style="list-style-type: none"> Provides an authoritative, controlled source of SOA assets (including Layer 7 policies), facilitating lifecycle management Policy goals defined in SOA Systinet are enforced at runtime on Layer 7
SOA Registry Foundation	<ul style="list-style-type: none"> Enables developers to reference available service assets when composing runtime policies on the Layer 7 XML Gateway
Business Availability Center (BAC)	<ul style="list-style-type: none"> Facilitates BAC tracking when a single request is submitted to multiple backend services through service composition Facilitates BAC tracking when transports change across Message Oriented Middleware (MOM) to HTTP(s) Proactively improve performance by reporting on Layer 7 message cache hits/misses and adjusting, as required
Real User Monitor (RUM)	<ul style="list-style-type: none"> Extract identity from secured/encrypted, message-based communications and submit to RUM/BAC for tracking and reporting purposes
Supported Standards	
XML, JSON, SOAP, REST, PCI-DSS, AJAX, XPath, XSLT, WSDL, XML Schema, LDAP, SAML, XACML, OAuth, PKCS, IMAP4, X.509 Certificates, FIPS 140-2, Kerberos, XML Signature, XML Encryption, SSL/TLS, SNMP, SMTP, POP3, JMS, FTP/FTPS, HTTP/HTTPS, MQ Series, Tibco EMS, Raw TCP, WS-Security, WS-Trust, WS-Federation, WS-SecureExchange, WS-Addressing, WS-SecureConversation, WS-MetadataExchange, WS-Policy, WS-SecurityPolicy, WSIL, WS-I, WS-I BSP, WS-PolicyAttachment, UDDI, WSRR, MTOM, IPv6, WCF	

The Layer 7 SecureSpan SOA appliance is available as either a 1U rack mounted appliance (featuring 64-bit multiprocessors and optional hardware-based XML acceleration, SSL/crypto acceleration with HSM, four GE/FE NICs and dual PSUs); software for Solaris or Linux; Amazon Machine Image for EC2; or VMware virtual appliance.



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