



# SecureSpan™ XML Virtual Appliance

## Security and governance for the cloud

The SecureSpan XML Virtual Appliance offers:

### Cloud-based Security & Privacy

A virtual policy enforcement point provides isolation, monitoring and control over application services in both public and private clouds.

### Cost-effective Solution

A turnkey appliance that bundles sophisticated runtime governance, agent-less SOA management and industry-leading XML security – all at a lower TCO than assembling separate solutions.

To learn more about Layer 7 and how it can address your organization's cloud and Web services needs, call 1-800-681-9377 (toll free within North America) or +1.604.681.9377

**Control, monitor and manage application services in public, private and hybrid cloud deployments.**

### Cloud Control

Organizations are worried about their IT budget this year more than ever. In response, public and private clouds have become a topic of interest, allowing organizations to expense new capacity rather than having to realize capital costs. Unfortunately, adopting cloud-based services or moving application services to the cloud poses a number of risks, including:

- Security and Privacy – how can I be sure that my data and applications will be secure?
- Business Continuity – what happens if my ISP or cloud provider goes down?
- Business Value – how can I be sure my cloud service provider is meeting my SLA?
- Compliance – how can I ensure regulatory/legal compliance?

For organizations that require visibility, trust and control over cloud-based services, the SecureSpan XML Virtual Appliance can secure, monitor and manage interactions with public and private clouds.

The Virtual Appliance acts as a virtual Policy Enforcement Point (vPEP) that can be deployed in front of cloud applications to protect and manage services. Application-level policy enforcement allows organizations to implement fine-grained access control and gain an in-depth understanding of service usage, monitoring and protecting data and applications from unauthorized use. Additionally, policies can be implemented to manage requests to virtualized application services in order to provide load balancing and failover between private and/or public clouds, avoiding vendor lock-in.

### Cost Control

The SecureSpan XML Virtual Appliance is an all-in-one turnkey solution for governing day-to-day SOA operations, including Web services security, monitoring and management. Within the traditional bounds of the enterprise, the Virtual Appliance offers an economical alternative to hardware appliances in scenarios where hardware-based performance is non-critical (such as development and test environments), allowing organizations to reduce upfront costs.

Between enterprises, the Virtual Appliance can be deployed in conjunction with the SecureSpan XML VPN Client to securely bridge cross-domain communications without coding. The result is a cost-effective, near “drop-in” solution to the federated identity problem, eliminating the need to re-code and re-test client applications when a Web service provider's security, routing, and transaction preferences change.

For private and public clouds, the Virtual Appliance can be implemented with the Layer 7 Enterprise Service Manager to provide comprehensive, agent-less SOA management and monitoring, removing the need (and cost) to instrument endpoints, which is not always possible with cloud-based services.

<b>Key Features</b>	
<b>Cloud Governance</b>	
Virtualized Gateway	<ul style="list-style-type: none"> <li>• VMWare and ESX support facilitate deployment to both private &amp; public clouds</li> </ul>
Cloud monitoring	<ul style="list-style-type: none"> <li>• Configurable reports provide insight into cloud-based service performance health, and metrics (i.e., throughput, routing failures, utilization &amp; availability)</li> </ul>
Cloud security	<ul style="list-style-type: none"> <li>• Manage access from cloud-based application services to enterprise-based assets with industry-leading access control, alarms/audits, &amp; secure routing capabilities</li> </ul>
Cloud vendor SLA enforcement	<ul style="list-style-type: none"> <li>• Measure and track cloud service provider performance to ensure they are meeting uptime and other contractual obligations</li> </ul>
<b>SOA Governance</b>	
Runtime enforcement of governance policies	<ul style="list-style-type: none"> <li>• Enforce policies around security, compliance, reliability, SLAs, quality of services, and others in order to control, monitor and manage application services</li> </ul>
Centralized SLA enforcement/Quality of Service	<ul style="list-style-type: none"> <li>• Throttling/rate limiting controls provide the ability to support service over subscription with per-service throttling of excess messages</li> <li>• Service availability features include support for strict failover between public and private cloud providers, round robin, best effort and latency-based routing</li> </ul>
<b>AAA Security</b>	
Identity-based access to services and operations	<ul style="list-style-type: none"> <li>• Integration with leading identity, access, SSO and federation systems</li> <li>• Onboard identity store for administering identities and staging new services</li> </ul>
Manage security for cross-domain and B2B relationships	<ul style="list-style-type: none"> <li>• Credential chaining, credential remapping and support for federated identity</li> <li>• Integrated STS/SAML issuer supports SAML 1.1/2.0</li> <li>• Integrated PKI CA for automated deployment and management of client-side certificates and RA ability for external CA's including Verisign</li> </ul>
<b>Threat Protection</b>	
Filter XML content for Web 2.0 and SOA	<ul style="list-style-type: none"> <li>• Configurable validation &amp; filtering of HTTP headers, parameters and form data</li> <li>• Detection of classified or "dirty" words or arbitrary signatures with subsequent scrubbing, rejection or redaction of messages</li> <li>• Support for XML, SOAP, POX, AJAX, REST and other XML-based services</li> </ul>
Prevent XML attack and intrusion	<ul style="list-style-type: none"> <li>• Protect against XML parsing; XDoS and OS attacks; SQL and malicious scripting language injection attacks</li> <li>• Protection against XML content tampering and viruses in SOAP attachments</li> </ul>
<b>XML Acceleration</b>	
Accelerated XML message processing offload	<ul style="list-style-type: none"> <li>• High speed message transformations based on internal or external XSLT</li> <li>• High speed message validation against predefined external schema</li> <li>• High speed message searching, element detection and content comparisons</li> </ul>

The SecureSpan XML Virtual Appliance supports both VMWare and ESX, and can be deployed in public or private clouds, as well as within traditional enterprise networks.

To learn more about how Layer 7 can address your needs, call us today at +1 800.681.9377 (toll free within North America) or +1.604.681.9377 or visit us at [www.layer7tech.com](http://www.layer7tech.com).