Helping organizations secure and govern application services for SOA, Web and the Cloud
Layer 7 offers industry-leading XML security, runtime SOA governance and SaaS single sign-on solutions. Our award winning SecureSpan and CloudSpan products let organizations manage, protect and control their Web services no matter where they’re located — in the enterprise or in the cloud.

Founded in 2003, Layer 7 has more than 150 customers across the US, Canada and Europe within leading insurance, banking, telecom, cable, business services, and government organizations.
SOA has transformed how applications get integrated inside the enterprise. Cloud is now accelerating the need to extend those SOA integrations outside the enterprise.

Cloud along with initiatives around x-department integration, partner connectivity, developer enablement and application outsourcing are some of the drivers that are forcing enterprises to expose their data and application assets beyond the DMZ. New API technologies built around XML protocols like SOAP and REST have made platform-independent integration over the Internet possible. But exposing applications through Internet accessible APIs can leave those same applications vulnerable, while introducing new operational and policy governance challenges. Through its SecureSpan and CloudSpan line of gateways and management software for SOA and Cloud, Layer 7 offers enterprises the most comprehensive set of mediation, security and SLA controls for securely spanning services across internal and external organizational boundaries.

Layer 7 SOA and Cloud gateways reduce cost, time and risk associated with an integration spanning internal and external security and identity boundaries. Current middleware solutions aren’t designed for deployment in the DMZ or for dealing with security and identity reconciliation issues associated with connecting disparate application silos. Coding custom integration solutions overtop of open Web service and Web oriented technologies like SOAP and REST means developers must hard code security, management and monitoring controls reducing flexibility and increasing risk. Programmers are prone to error. Effective service governance requires integration with existing security decision points, consistent policy definition and auditable execution of policies at application runtime. All are costly and complex to implement through programming, requiring dev, test, staging and production iterations for every policy change. Using Layer 7 Gateways, policies can be consistently defined, executed and audited at application runtime without programmer risk, cost or delay, improving every integration project’s return on investment.

Layer 7 Helps Open the Enterprise to Cloud and X-Domain SOA
Layer 7 for SOA
The decomposition of applications into discrete services for simplified service oriented integration both inside and outside the enterprise has become more commonplace over the past five years. However, composing these services into functional business processes requires an ability to control the parameters for how and when the services get connected without compromising security. Layer 7 has a family of solutions designed for SOA that address the integration, security and management issues associated with production SOA services that span internal and external organizational boundaries.

SecureSpan for SOA – X-Domain Security and Integration for SOA
The Layer 7 family of SecureSpan products addresses the integration, security and management issues associated with protecting and connecting services, that span the extended enterprise. By implementing SecureSpan Gateways enterprise architects can protect their services, optimize performance, and control the way they get shared out.

SecureSpan for SOA Products
- XML Accelerator: Offload XML parsing, translation and validation to dedicated hardware
- API Data Screen: Protect SOAP and REST APIs from attack and misuse
- XML Firewall: Implement identity and message-level SOA security
- XML Networking Gateway: Mediate and govern service interactions inside and outside the enterprise through policy
- OSB Appliance: Reuse OSB licenses in a DMZ capable middleware appliance
- Enterprise Service Manager: Simplifies service promotion from development to test to production to the cloud, while helping to monitor the health and performance of your SOA
- Policy SDK: Extend the functionality of Layer 7’s products to handle specific protocols, unique data types, and integrate with custom products
- XML VPN Client: Simplify federation and portal initiatives for SOA
Cross-Department SOA Integration Hub

Problem: cost-effectively integrate heterogeneous departments running on disparate application platforms

Solution: SecureSpan SOA Gateway provides SOA-based mediation between application services hosted on different platforms across internal data centers; identity mapping between domains; and integration to external partners

Results: using a centralized, policy-driven SecureSpan gateway, the company can now onboard partners and acquired divisions quicker; share data and functionality more easily; and respond faster to business change
Federated SOA Security

Problem: faced with an aging population and escalating healthcare costs, the government needed to find a way to reduce overhead and administration costs

Solution: SecureSpan SOA Gateway facilitated the creation of a decentralized, federated SOA security environment that allows regional health providers and authorities to cost-effectively share patient information

Results: simplified access to patient records without the need for costly centralization or compromising patient privacy
Layer 7 for Cloud
Connect, Protect and Control Services in the Cloud

Cloud computing is transforming how enterprises consume computing, storage and application services. While many organizations recognize the value proposition around Software as a Service (SaaS) and Infrastructure as a Service (IaaS), they also recognize that there are a number of technical and business concerns (such as data security, application performance, and cloud provider SLAs around availability) that need to be resolved before widespread adoption can occur.

CloudSpan for Cloud – Securing Cloud-based SOA

The Layer 7 family of CloudSpan products addresses the security and connectivity issues associated with enterprise adoption of public and private clouds. By implementing CloudSpan, enterprise architects can connect, protect and control the way they consume and share cloud-based services.

Layer 7 can also help service providers monetize the cloud by providing core infrastructure that streamlines the on-boarding of customers; delivers industry-leading security; and makes it easier for third-party developers to deliver value-added, revenue-generating services via cloud platforms from VMware, Redhat, Citrix or CA.

- **CloudConnect**: Simplify Single Sign-On (SSO) and integration to SaaS applications and cloud-based services
- **CloudProtect**: Implement DMZ-level security for applications deployed in public and private clouds
- **CloudControl**: Securely expose application services to third parties from private and public clouds; simplify how Telecoms, SaaS, PaaS and IaaS providers expose their provisioning, application and data APIs to external partners, large customers, white label resellers, etc.
**Salesforce.com Integration and Single Sign On**

**Problem:** eliminate security breach of placing passwords in Salesforce.com, while providing for integration to corporate customer data

**Solution:** CloudConnect utilizes existing enterprise IAM systems to provide SSO for salesforce.com while facilitating Web services integration to internal systems securely

**Results:** users manage only a single login/password for all systems; administrators manage a single LDAP, thereby enhancing security and lowering administration costs
Cloud Based API Publishing Platform

**Problem:** publicly exposing Telecom APIs to mobile developers presents some unique challenges around how they get packaged, secured and managed for easy consumption.

**Solution:** Layer 7 allows Telco to define the message, identity and interface level security for their APIs; track usage; monitor interface health; and update APIs without breaking client applications.

**Results:** using Layer 7, Telco has created an agile API platform on which 3rd party developers can introduce new offerings faster and at less cost.
Layer 7 for Web
Controlling and Managing Services in the Browser

The Web has matured from data-driven brochure-ware to interactive Web 2.0 sites to today’s Web Oriented Architectures (WOA), which feature programmatic, REST/JSON-based Web portals that allow eBusiness customers, partners and remote workers direct access to enterprise applications – all from the convenience of the browser. However, bridging the gap between the user-centric Web and machine-centric Web services creates a number of security and management challenges.

SecureSpan for Web – Identity and API Management for the Web

The Layer 7 family of solutions for the Web addresses the security and manageability of Web Oriented applications by providing built-in access control features for browser-based and REST-oriented applications, including those requiring OAuth and SAML profiles. Moreover, Layer 7 supports a broad range of Web Oriented API security and management profiles for technologies like REST and JSON.

- **API Data Screen**: Protect SOAP and REST API’s from attack and misuse; simplify and manage the API lifecycle
- **XML Firewall**: Implement identity and message-level security for Web and Web services machine-to-machine interactions
- **Enterprise Service Manager**: Simplify service promotion from development to test to production to the cloud, while helping to monitor the health and performance of your SOA
- **Policy SDK**: Extend the functionality of Layer 7’s products to handle specific protocols, unique data types, and integrate with custom products
- **XML VPN Client**: Simplify federation and portal initiatives for Web
Open Web APIs Securely to Developers

Problem: wanted to securely expose auto and ecommerce information to third party developers

Solution: Layer 7 authorizes/authenticates third party developers attaching to ecommerce APIs directly or via a Web portal; throttles backend traffic to maintain Quality of Service targets

Results: increased revenue by monetizing their APIs; increased traffic, exposure and brand through third-party Web sites, applications and services based on automobile-focused Web service APIs
Access Control for Web-based Services

**Problem:** decrease retail customer defection rates by delivering value-added, Web-based services to the home via video phone and set-top boxes

**Solution:** Layer 7 allows the Telco’s internet customers to access services through their TV set-top box and internet phone; access control and contract limitations are strictly enforced

**Results:** Telco can now provision differentiated Web-based services to retail customers simply and securely

John: gets unlimited SMS messages
Rachel: gets 3 Pay TV shows/month