



# SecureSpan™ API Proxy

## API Management for Publishers of RESTful Services

The SecureSpan API Proxy offers:

### API Abstraction

Enterprise-strength threat protection, access controls, and SLA enforcement in a dedicated security appliance that also facilitates the creation of custom/composite API views while insulating users from backend complexity.

### Developer On-boarding

On-board, manage and support a community of 3rd-party developers, providing them with self service capabilities for API discovery, key distribution and reporting.

### API Metering & Monetization

Define custom plans for each API, developer, or 3rd-party organization; assign rate limits; T&C's; pricing; SLA criteria, etc in order to ensure mutual benefit for you and your valued partners.

### API Governance

Track usage/performance across APIs, and govern the API lifecycle from dev to testing to production with automated versioning, rollback and the ability to mediate between API versions to ensure existing applications don't break.

To learn more about the Layer 7 API Proxy 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](mailto:info@layer7.com); friend us on [facebook.com/layer7](https://www.facebook.com/layer7); visit us at [layer7.com](http://layer7.com), or follow-us on twitter @layer7.

**Secure, Monitor and Meter REST-based APIs Exposed to Mobile Programmers and Web Developers**

### Expand Market Reach and Revenue Potential

With the proliferation of mobile devices and social Web sites, enterprises from media and entertainment to e-tailers and business service providers are looking for new ways to monetize their information assets on these platforms. Exposing your application, service or data APIs to a growing pool of third-party mobile and Web developers provides the easiest, quickest and most cost-effective way for enterprises to take advantage of these emerging opportunities without having to invest in a large development effort, or take a risk on the success of any specific device or platform.

But to be successful, enterprises require the ability to not only secure and manage their publicly exposed APIs, but also create a strong third party developer community that fosters innovation, expands market reach and enhances customer retention.

The Layer 7 SecureSpan API Proxy provides a comprehensive API management solution for RESTful services that incorporates enterprise-strength security, access control and threat protection; developer management, support and community building; and API lifecycle capabilities that streamline the migration, upgrading and publication of APIs.

### Comprehensive API Management for Mobile & Web

The key to both making APIs useful to third-party developers as well as manageable for your staff is the creation of a layer of abstraction or indirection between what you provide internally and what third parties see externally. With the SecureSpan API Proxy, this layer of abstraction can be easily facilitated and then managed with policy based controls for managing how the APIs get accessed, changed, tracked and translated to ensure compatibility with your partners' development tools.

By deploying the SecureSpan API Proxy in front of your APIs, you can control the terms and conditions under which any number of APIs get exposed to third parties, as well as customize the message, identity and interface level security for the APIs you expose. You can define SAML & OAuth access methods; mediate between JSON and XML; track usage and API performance; define rate limits and SLA metrics; and create multiple API versions without touching backend applications. You can even orchestrate how backend services are called out without impacting what APIs you present to outside developers.

Layer 7 also provides a Web-based portal for on-boarding, managing and creating a community of third-party developers. The portal delivers developer self registration and support capabilities, API key distribution, API reporting, and the ability to monetize your APIs.

Layer 7 also lets you manage the API lifecycle, facilitating the migration of APIs between development, testing and production by automatically resolving discrepancies between environments, and thereby reducing migration risk. As your APIs evolve, layer 7 lets you mediate between API versions ensuring client applications don't break. This speeds time to market for new product and service offerings, since changes can be rolled out and accommodated for in infrastructure, rather than having to force APIs and client applications to evolve in lockstep.

<b>Key Features</b>	
<b>API Proxy</b>	
Threat Protection	<ul style="list-style-type: none"> <li>Protect against Cross-Site Scripting (XSS), SQL Injection, XML content/structural threats &amp; viruses</li> <li>Create custom threat profiles to extend built-in filters for message structure and XML-specific threats</li> <li>Track failed authentications and/or policy violations to identify patterns and potential threats</li> <li>Validate HTTP parameters, REST query/POST parameters, JSON data structures, XML schemas, etc</li> </ul>
Access Control	<ul style="list-style-type: none"> <li>Support for HTTP basic, digest, SSL client-side certificate authorization, Microsoft SPNEGO, etc</li> <li>Support for SAML, X.509 certificates, LDAP, OAuth, etc.</li> </ul>
Security and Compliance	<ul style="list-style-type: none"> <li>Powerful message content filtering and transformation tools help identify and suppress leakage of sensitive information (i.e. SSNs, credit card numbers, etc.)</li> <li>Layer 7's PCI-DSS installation and configuration guide allows customers to configure and deploy the API Proxy as part of a PCI-compliant process</li> <li>Support for multiple types of element or message level XML signing and encryption</li> </ul>
<b>API Management</b>	
API Lifecycle	<ul style="list-style-type: none"> <li>APIs can be smoothly migrated between environments (i.e., from Dev to Test, East to West, etc) with full dependency resolution and re-mapping</li> <li>Supports automatic API versioning including rollback to any previous version</li> <li>Global security settings, threat detection profiles, etc. can be reused across multiple APIs to save time and ensure consistency</li> </ul>
API Composition	<ul style="list-style-type: none"> <li>Point and click API composer supports quickly building composite virtual APIs from any combination and/or subset of existing APIs</li> </ul>
Orchestration	<ul style="list-style-type: none"> <li>Policy-driven API request sequencing based on administrator-defined conditions and logic</li> <li>Routing based on message content or service availability</li> <li>Run multiple back-end service calls concurrently, thereby reducing overall latency</li> </ul>
SLA/Performance Control	<ul style="list-style-type: none"> <li>Enforce availability through throttling and/or rate limiting to ensure SLAs and QoS priorities</li> <li>Prioritize traffic to specific APIs based on SLAs</li> <li>Limit API access based on user, time of day, IP address etc.</li> <li>Route traffic based on geography, IP address, back-end response times, etc for optimum performance</li> <li>Integrated clustering provides scalability and automatic failover between multiple instances of APIs/services</li> <li>Define custom data and identity caching parameters for optimal performance tuning</li> </ul>
<b>Developer Portal</b>	
Developer Registration	<ul style="list-style-type: none"> <li>Account management capabilities</li> <li>API key management and distribution</li> </ul>
Developer Support	<ul style="list-style-type: none"> <li>Discussion forums, integrated messaging, FAQs, issue resolution, etc</li> <li>API documentation, sample code/applications, etc</li> </ul>
API Reporting	<ul style="list-style-type: none"> <li>Self-tracking and metering of API usage/billing for developers</li> <li>Tracking and metering of API usage/invoices for API publisher</li> </ul>
API Monetization	<ul style="list-style-type: none"> <li>Ability to assign plans to APIs, including SLAs, pricing, rate limits, and other features</li> </ul>
<b>API Metering &amp; Reporting</b>	
Operational Metrics	<ul style="list-style-type: none"> <li>Configurable, out-of-the-box reports provide insight into API performance: meter and track API/method usage for per-user billing, capacity planning, SLA compliance etc.</li> <li>Real time monitoring dashboard provides fine-grained insight into API &amp; network level performance</li> </ul>
Customer Mapping	<ul style="list-style-type: none"> <li>Report on service performance, policy violations and SLA conformance based on specific customers, composites (i.e., processes and transactions using a service) or clients to build a profile of user experience</li> </ul>
Audit transactions	<ul style="list-style-type: none"> <li>Log files provide a granular audit trail of all API connections mediated by the API Proxy</li> </ul>
<b>Supported Standards</b>	
XML, JSON, SOAP, REST, PCI-DSS, AJAX, XPath, XSLT, XML Schema, LDAP, SAML, OAuth, PKCS, X.509 Certificates, FIPS 140-2, XML Signature, XML Encryption, SSL/TLS, SNMP, SMTP, POP3, IMAP4, HTTP/HTTPS, IPv6	

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