

Secure, High-Performing XML Delivery



Service-Oriented Architectures (SOA) and XML Web services allow enterprises to dynamically integrate their business processes and IT systems using open, standards-based specifications. Radware's AppXML™ provides the foundational infrastructure enabling secure, high-performance XML and Web services communications for mission-critical applications.

Radware AppXML® is a comprehensive Web services Security Gateway that functions as a trusted intermediary for exchanging secure Web Services between an enterprise and its business partners. It enables enterprises to achieve a higher ROI through secure e-business process integration.

The AppXML appliance combines hardware and software to improve the speed of XML document processing and secure XML-based communications. While XML provides a structured way to add context to data for sharing among applications, it is very data intensive and can take 30 to 50 times more bandwidth than other protocols. AppXML delivers performance gains by offloading tasks to dedicated hardware, off-loading servers, and is further enhanced by the integrated dedicated acceleration hardware for faster XML processing.

Web services security is enhanced as AppXML provides business-level protection from both non-deliberate and malicious attacks. Web services traffic is examined for attacks and malicious activity without altering or rewriting applications, quickly delivering complete and accurate application security without modifying Web services.

AppXML provides all of the administration and reporting capabilities needed to manage a web services security gateway deployment; including policy management, status monitoring, alerting, logging, and reporting activity.

Radware's integrated approach enhances Web services and SOA deployments by:

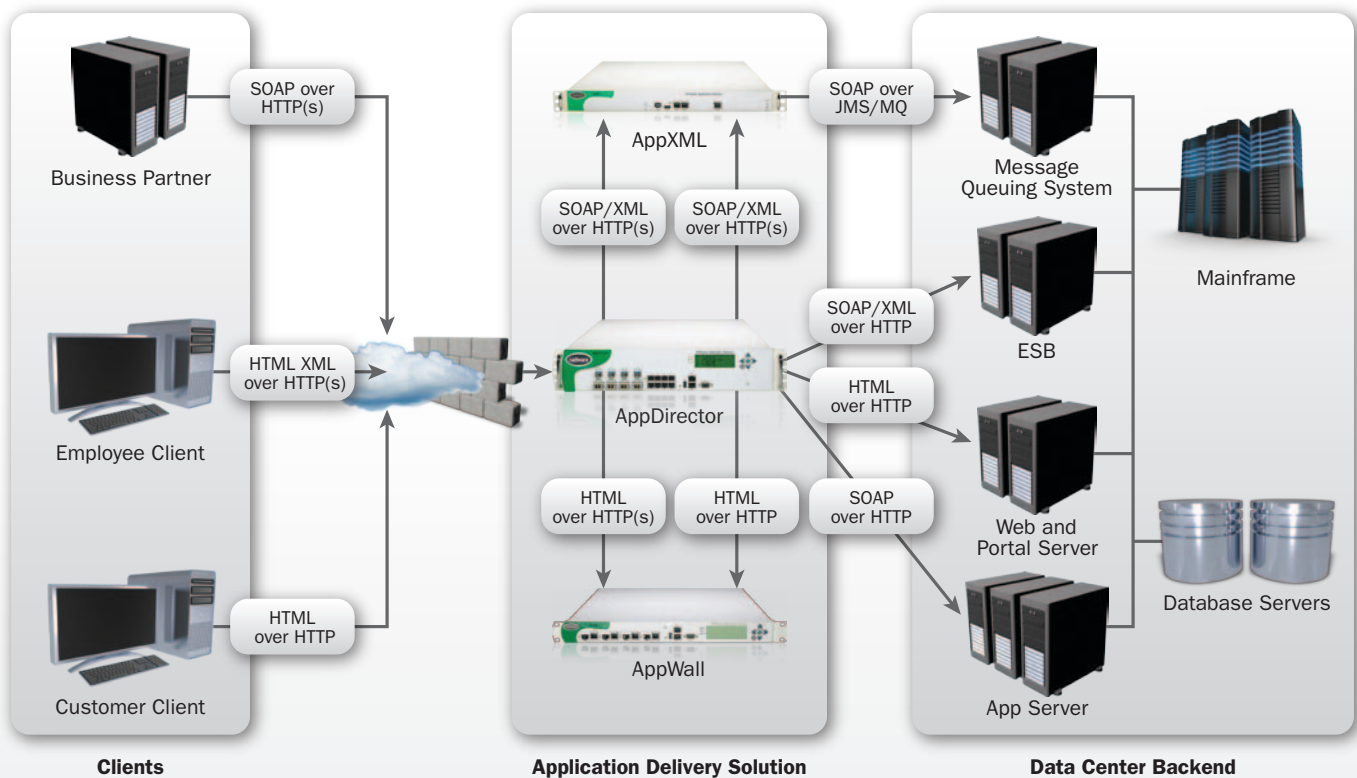
- Securing Web services and network from external and internal threats by validating XML structure, filtering malicious content, cloaking, and WSDL virtualization
- Providing authentication, authorization, and auditing for Web services
- Ensuring Web service message integrity and privacy through schema validation, SSL decryption, message encryption, and signing
- Delivering further security of Web services from Denial-of-Service attacks and scalability to accommodate growing capacity requirements
- Ensuring business continuity and Web services global availability with global redirection capabilities
- Enabling faster integration with Web services with protocol-mixing of XML and non-XML traffic, interoperability, XML processing and transformation
- Speeding implementation with minimal disruption to application services through strong WSDL policy management, a proxy-based approach, interoperability and redundancy support

Integrated Solution Protects, Accelerates and Streamlines Web Services Deployments

AppXML couples Radware's application delivery platform with industry-leading software to improve the performance of XML message processing while greatly enhancing the security of Web services and SOA deployments.

Combining AppXML with Radware's AppDirector® and AppWall® provides a comprehensive set of security, acceleration, and optimization services to ensure fast, reliable, and secure delivery of mission-critical web-enabled services to ensure secure and continuous on-line business activity. AppDirector's extensive health monitoring capabilities enables real-time identification of a faulty service, and will automatically bypass it and switch the traffic to a fully functional device. AppWall is a Web Application Firewall (WAF) appliance that secures Web applications and enables PCI compliance by mitigating web application security threats and vulnerabilities. It prevents data theft and manipulation of sensitive corporate and customer information.

Radware solutions for global, enterprise SOA environments deliver on critical business criteria: application availability, performance, manageability and security. The integrated Radware solution performs essential application delivery functions including global traffic management, traffic re-direction, health monitoring, SSL offloading, TCP optimization, caching, compression, and application security. Through an integrated behavioral DoS module, Radware ensures 100 percent transaction processing and delivery – without performance degradation.



AppXML Web Services Gateway

AppXML industry specific solutions include: government compliance, secure electronic forms, secure partner integration, secure partner collaboration, electronic notary, evidence repository, as well as secure service oriented architectures (SOA).

• Critical Web Services Security

AppXML provides business-level protection from both non-deliberate and malicious attacks. Web services traffic is examined for attacks and malicious activity without altering or rewriting applications. AppXML gives complete and accurate application security without modifying Web services.

• Enhanced Performance

Performance gains are achieved by offloading tasks to dedicated hardware, off-loading servers, and further enhanced by the integrated hardware engines for compression, caching and SSL offloading.

• Comprehensive Management Capabilities with Regulatory Compliance Reporting

AppXML provides all administration and reporting capabilities needed to manage a web services security gateway deployment, including policy management, status monitoring, alerting, logging, and reporting activity. AppXML's rich graphical reporting capabilities meets security, compliance (HIPAA, SOX) and content delivery concerns.

• Seamless Deployment and Integration without Changing Existing Network

AppXML can be transparently activated to expand the functionality of Radware's application delivery solutions without making network architecture, router or server changes. Radware's approach delivers an integration solution for external traffic with internal infrastructure using protocol conversions, transformations and smart routing.

• High Availability with Real-Time Failure Bypassing

AppDirector's extensive health monitoring capabilities enable real-time identification of a faulty AppXML service, automatically bypassing it and switching the traffic to a fully functional AppXML in the farm.

| Feature | Benefit |
|---|--|
| Ensures Interoperability and Security | <ul style="list-style-type: none">• Validates XML structure and schema• Filters malicious content• Hides web services• Supports large attachments• Ensures interoperability |
| Enhances Security and Manageability | <ul style="list-style-type: none">• Authenticates fine-grained WSDL/SOAP/XML• Performs access control on business API's• Provides identity and entitlement administration• Supports identity management integration (add-on feature) |
| Improves Performance and Security | <ul style="list-style-type: none">• Provides high-performance XML processing and element-level encryption• Supports electronic (digital) signatures• Certified for DoD PKI• Supports WS-Security 2004 |
| Provides Acceleration and Increased Performance | <ul style="list-style-type: none">• Delivers content-based routing• Supports protocol-mixing with message queue |
| Streamlines Web Services Deployments | <ul style="list-style-type: none">• Transforms synchronous web services to an asynchronous process for batch-processing• Performs content-based redirection• Offloads XML processing from servers• Accelerates SSL transport for web services |
| Protects Users from Web Services Security Risks | <ul style="list-style-type: none">• Authenticates, authorizes and audits clients• Validates XML messages for conformance and potential XML vulnerabilities• Encrypts, decrypts and digitally signs and validates signatures of XML messages• Removes sensitive data from XML messages |

Technical Specifications

| | |
|-----------------------|---|
| Platform | OnDemand VL |
| Memory | 4GB |
| Network Interfaces | 3 (two for traffic and one for management) |
| Dimensions and Weight | <ul style="list-style-type: none">• Width: 424 mm (17 in.)• Depth: 457 mm (18 in.)• Height: 44 mm (1.7 in.)• EIA Rack or Standalone: 482 mm (19 in.)• Weight: 7.7 kg (17 lbs) |
| Environment | <ul style="list-style-type: none">• Operation temperature: 0°C to 40°C (32°F to 104°F)• Humidity: 5% to 95% non-condensing |
| Power | <ul style="list-style-type: none">• Auto-range supply: 100 V to 240 V• DC: 47 Hz to 60 Hz• Power consumption: 175 W• Heat dissipation: 597 BTU/h |

Technical specifications and product information are subject to change without prior notice.

Radware APSolute™ Product Suite

Radware, the global leader in integrated application delivery solutions, assures the complete availability, performance and security of business-critical applications for more than 10,000 enterprises and carriers worldwide. With Radware's comprehensive APSolute suite of application delivery, access, and security products, companies can drive business productivity, improve profitability, and reduce IT operating and infrastructure costs by making their networks "business-smart."

Certainty Support

Radware offers technical support for all of its products through the Certainty Support Program. Each level of the Certainty Support Program consists of four elements - phone support, software updates, hardware maintenance, and on-site support. Radware also has dedicated engineering staff that can assist customers on a professional services basis for advanced project deployments.

Learn More

To learn more about how Radware's integrated application delivery solutions can enable you to get the most of your business and IT investments, email us at info@radware.com or go to www.radware.com.