



FORUM SYSTEMS

>> THE LEADER IN XML SECURITY & FEDERATED SOA



FORUM SENTRY

XML GATEWAY



Modern Federated Service Oriented Architecture (SOA) enables service consumers and producers to exchange messages via XML-, SOAP-, and REST-based communication across independent business domains. For successful Federated SOA deployments, ease-of-system integration without compromising security is paramount. XML Gateway products, such as Forum Sentry™, provide the necessary features for secure, rapid and scalable integration within an enterprise and across corporate domains.

Forum Sentry – deployed as a hardware appliance, software gateway or a Cloud-based instance – seamlessly controls access to services, protects information through data-level encryption, ensures the integrity of a message through signatures, and controls corporate information flow. Forum Sentry industry specific solutions include: government compliance, secure electronic forms, secure partner integration, secure partner collaboration, electronic notary, and evidence repository within a Service Oriented Architecture.

FORUM SENTRY™ BENEFITS

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| SERVICE VIRTUALIZATION | ⇒ Parse, merge and administer compound WSDLs from multiple endpoints |
| | ⇒ Selectively expose service definition to consumers based on credentials |
| | ⇒ Cloak Service Endpoints |
| ACCESS CONTROL | ⇒ Deep integration with external Identity Systems for Authentication and Authorization |
| | ⇒ Granular Authentication & Authorization Control: Protocol, Service, Operation, and Message Level |
| | ⇒ Identity Bridging across Protocol- and Message-based Identities |
| THREAT MITIGATION | ⇒ Defend against XML-based Threat Vectors such as XML Bombs, Malware, SQL Injection and AV |
| | ⇒ Schema Validation and Schema Tightening |
| | ⇒ Block, Throttle and Quarantine Malicious messages |
| DATA LEVEL PRIVACY & INTEGRITY | ⇒ Content-level Message Encryption and Signatures that is “always on” and transport independent |
| | ⇒ Extensive WS-Standards support for superior interoperability |
| | ⇒ Granular Message Capture for Archiving and Auditing |
| INFORMATION ENRICHMENT & FLOW | ⇒ Message Enrichment via external services |
| | ⇒ Prevent Information Leak through outbound message filtering |
| | ⇒ Message Transformation and Routing |
| CENTRALIZED POLICY MANAGEMENT | ⇒ Browser interface for secure policy management across internal & external deployments |
| | ⇒ Partial Policy import/export and full policy mirroring across instances |
| | ⇒ Decouple and centralize SOA processing policies from Service Developers for superior Productivity |
| | ⇒ Simplified on-board Key Management |
| SUPERIOR SECURITY & PERFORMANCE | ⇒ Entire Appliance FIPS Certified (not just HSM) for superior security – DMZ Ready |
| | ⇒ Accelerated XML processing for resource-intensive operations |
| | ⇒ Jumbo Payload Processing |
| NON-INTRUSIVE DEPLOYMENT | ⇒ Eliminate software libraries and APIs for XML Processing |
| | ⇒ Flexible Deployment Options – Inline and Service Mode |




FORUM SENTRY™ SPECIFICATIONS


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| BASE STANDARDS | ⇒ XML 1.0, SOAP 1.1/1.2, WSDL 1.1/1.2, UDDI 2.x+, XPath 1.0/2.0, Schema 1.0, DTD, XSLT 1.0, REST, SOAP with Attachments, MTOM, WS-Addressing, WS-ReliableMessaging, WS-I Basic Profile |
| PROTOCOLS | ⇒ HTTP, HTTPS, IBM MQ Series, Tibco Rendezvous, Tibco EMS, JMS, FTP, FTPS, SMTP, AS2, sFTP ⇒ Protocol Mixing and Remote Service Endpoint Load Balancing |
| SECURITY | ⇒ Request and Response Security Processing ⇒ XML Digital Signatures and Encryption with Granular Element-Level Security ⇒ WS-Security 1.0 and 1.1 ⇒ SSL v2.0 and v3.0, TLS v1.0 ⇒ XML Firewall with Content Level Filtering via Built-in Rules, XPath, Schema Tightening and RegEx ⇒ Denial of Service and Malware Detection |
| CRYPTOGRAPHY & PKI | ⇒ Import, Generation and Management of X.509 and PKCS Formats. Direct Java Key Store Import ⇒ PKCS #1, PKCS #7, PKCS #8, PKCS #11, PKCS #12, X.509 Certificates and CSRs ⇒ 512, 1024, 2048, 4096 key bit sizes. RSA, DSA, DES, 3DES, SHA-1, RC4, AES ⇒ OCSP, CRL via LDAP, XKMS, HTTP, FILE, CDP ⇒ Certificate Chain Validation for XML Security and SSL ⇒ FIPS 104-2 Level III Hardware Security Module for Secure Key Storage and Management |
| IDENTITY | ⇒ Protocol Level and SOAP/XML Message Level Access Control ⇒ HTTP Basic Auth, HTTPS X.509 Mutual Auth, Digest Auth, Cookies, Custom Form Post ⇒ WS-Security Auth (Username Token, X.509, Kerberos and SAML), SAML 1.0 and 2.0 ⇒ Flexible Authentication using any XML content ⇒ Identity Token mapping across all token types ⇒ Identity Management Integration: CA SiteMinder, LDAP, SunOne, MS Active Directory, RSA ClearTrust, Oracle CoreId, HP Select Access, IBM TAM, Sun JSAM, and any WS-Trust IdM |
| LOGGING & MONITORING | ⇒ Data-Level Evidence Repository with External Archiving to MySQL, IBM UDB, Oracle, MS SQL ⇒ Syslog Monitoring, SNMP v3 w/ Forum MIB and JMX, SOAP Logging, Database Logging ⇒ Integrated 3rd party Monitoring: HP-OpenView, CheckPoint ELA, Oracle WSM, CA WSDM, AP Nano ⇒ Log to any Web Services Enabled Endpoint ⇒ On-board WS Traffic Reporting, Statistics and Monitoring for SLA enforcement |
| TRANSFORMATION | ⇒ High-performance XSLT Transformation ⇒ Attributing Mapping across protocol headers, Certificate/LDAP attributes and XML content |
| ADMINISTRATION | ⇒ Simple Web-based UI. Command-line Interface (CLI) with SSH access and Serial ⇒ Global Device Management with Full Policy Mirroring and Partial Policy Promotion ⇒ WS-Policy Support ⇒ Role-based Access Control (RBAC) and Multi-Domain Administration |



FORUM SENTRY™ FORM FACTORS

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| HARDWARE MODELS | ⇒ Forum Sentry™ 3564 Production - FIPS 140-2 Level 3 HSM |  |
| | ⇒ Forum Sentry™ 3563 Production - ASIC Crypto Acceleration | |
| | ⇒ Forum Sentry™ 3563D Test and Development | |

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| SOFTWARE MODELS | ⇒ Windows |  |
| | ⇒ Linux | |
| | ⇒ Solaris | |
| | ⇒ Virtual Machine | |
| | ⇒ Cloud Amazon EC2 AMI | |
| 1Ghz CPU | | |
| 1GB RAM | | |
| 20GB DISK | | |

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| CLOUD BRIDGING | ⇒ Amazon EC2 Relational Data Service Bridge for Archiving, Logging and Data-Level Repository |  |
| | ⇒ Amazon EC2 S3 Bridge for Audit and Systems Log Archival | |
| | ⇒ Pre-packaged Amazon Machine Image (AMI) for Amazon EC2 with Dynamic Load Balancing | |

Forum Systems – a wholly owned subsidiary of Crosscheck Networks is a leader in Service Oriented Architecture (SOA) and Web services security. Through comprehensive Threat mitigation and Trust enablement, Forum's family of gateway appliances provides enterprises and government organizations with the foundation for achieving secure SOA federation. Processing more than one billion transactions per day worldwide, the FIPS- and DoD-certified Forum Sentry XML Gateway offers the industry's most comprehensive protection against XML- and SOAP-based vulnerabilities. Forum is a pioneer in XML security, and Forum Sentry has been issued an industry-first patent (7,516,333) providing broad coverage for XML Security functions such as XML-encryption, XML-decryption and XML-signatures as well as general security policy enforcement using a network appliance. Forum Systems hardware, software and cloud solutions actively manage, secure, integrate, and control data from the network edge to the application server.