



**FORUM SYSTEMS**

» THE LEADER IN XML SECURITY & FEDERATED SOA

[ IDENTIFICATION ]

[ ACCESS GRANTED ]



# FORUM STS

IDENTITY BROKER



Federated SOA enables business units and external partners to exchange information more effectively. To foster efficient, effective message exchange and satisfy increasing user demands for real-time, aggregated information from internal and external business partners, trust must be established among all entities. Comprehensive, stringent authentication and authorization through identity exchange among customer and partner HTML Portals, Web applications and XML-based Web services – the pillars of Federated SOA – is paramount. Forum STS address these requirements by providing the necessary features for secure, rapid and scalable identity decisions for applications within an enterprise and across corporate domains.



Forum STS – deployed as a hardware appliance, software gateway or a Cloud-based instance – seamlessly consumes and produces a variety of identity token types, performs authentication and authorization decisions, and controls access to services. Forum STS is “DMZ-ready” for corporations that require secure, simple, and consolidated identity decisions for internal and external users and applications.

### FORUM STS™ BENEFITS

FEDERATED SOA	⇒ Unified Identity Management for HTML/Portal applications and XML/Web services ⇒ Standards-based Interface for Identity Token exchange across multiple Identity Systems
AUTHENTICATION, AUTHORIZATION, AND 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
SIMPLIFIED TOKEN EXCHANGE	⇒ Consume and Generate Protocol- and Message-based Identity Tokens ⇒ Eliminate proprietary libraries through token exchange standards such as WS-Trust
TOKEN PRIVACY & INTEGRITY	⇒ Content-level Message Encryption and Signatures that is “always on” and transport independent ⇒ Extensive WS-Standards support for superior identity token interoperability ⇒ Granular Message Capture for Archiving and Auditing
CENTRALIZED POLICY MANAGEMENT	⇒ Decouple and Centralize Processing policies from Developers for superior Productivity ⇒ Simple browser-based interface for secure policy management across internal & external deployments ⇒ Simplified on-board Key Management
SUPERIOR SECURITY & PERFORMANCE	⇒ Entire Appliance FIPS Certified (not just HSM) for superior security – DMZ Ready ⇒ Accelerated Token processing Protocol-based Tokens and Content-based Tokens ⇒ Token Caching and Expiry control for optimized identity decisions
NON-INTRUSIVE DEPLOYMENT	⇒ Eliminate software libraries and APIs for Token Processing ⇒ Flexible Deployment Options – Hardware Appliance or Standalone Software Sever



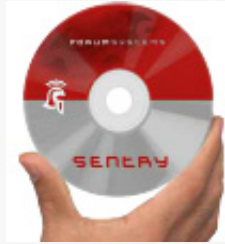
## FORUM STS™ SPECIFICATIONS


BASE STANDARDS	⇒ XML 1.0, SOAP 1.1/1.2, WSDL 1.1/1.2, 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
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
PROTOCOLS	⇒ HTTP, HTTPS, IBM MQ Series, Tibco Rendezvous, Tibco EMS, JMS, FTP, FTPS, SMTP ⇒ Protocol Mixing and Remote Service Endpoint Load Balancing
SECURITY	⇒ 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
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 and CRL lists via LDAP and XKMS, HTTP ⇒ Certificate Chain Validation for XML Security and SSL ⇒ FIPS 104-2 Level III Hardware Security Module for Secure Key Storage and Management
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
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 ⇒ Synchronize policies across multiple STS instances ⇒ Role-based Access Control (RBAC) and Multi-Domain Administration



## FORUM STS™ FORM FACTORS

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

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

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 products 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 Products offers the industry's most comprehensive protection against XML- and SOAP-based vulnerabilities. Forum Systems hardware, software and cloud solutions actively manage, secure, integrate, and control data from the network edge to the application server.