

# Vordel XML Gateway

Application Level Networking

Vordel XML Gateway applies control to Web and SOA applications by enforcing policies over traffic on the network. It also protects applications from malicious attack, allowing them to be deployed in safety and confidence. XML validation and threat-scanning is performed at wire-speed by the Vordel XML Gateway, allowing applications to run safer and faster. Vordel XML Gateway forms an integral component of any enterprise SOA infrastructure and can be deployed as part of a strategic architecture of Enterprise Service Buses, Enterprise Management, and Identity Management.

## XML Network Management

- > Offload and speed XML processing
- > Centralized policy management
- > Protect XML and Web Services
- > Full time SOA Governance

### Form Factors:

Vordel XML Gateway is available as:

- Hardware Appliance
- Software for:
  - Windows
  - Linux
  - Sun Solaris
- VMWare Appliance
- Amazon EC2 Cloud AMI Image

### Benefits

- Enforces policies on XML traffic
- View XML traffic in Network Management dashboards
- Enable SSO for Web Services
- Enable Protocol Independence
- Secure Service Interaction
- Enforce Authentication, Authorization & Accounting
- Comprehensive XML Firewalling
- Data Integrity control checks
- Throttle Service Traffic
- Wirespeed XML processing
- Protect Data Confidentiality
- Virtualize Service interfaces
- Mediate cloud traffic
- Audit Service Traffic
- Offload Application processing to accelerate performance
- Enrich XML Data from existing data sources
- Performance Optimized VX Deployment Platform
- Web 2.0 traffic filtering

## Supported Standards

Operating System Support Matrix	Windows 7, Windows Vista, Windows XP, Windows Server 2003, Windows Server 2008, Red Hat Linux, Suse Linux ES, Ubuntu Linux, Debian Linux, Solaris 10 Sparc, Oracle linux
Web Services Protocols	SOAP 1.1 & 1.2, Plain XML (POX), REST, Web 2.0 (XMLHttpRequest, JSON)
Networking	Service Virtualization, Content-based routing, Source-based routing, Identity-based routing, Protocol Conversion, XML Data Enrichment
Transport Protocols	HTTP 1.0 & 1.1, JMS, MQ, FTP, SFTP, TIBCO Rendezvous, TIBCO EMS, SMTP, POP, TCP
Service Governance	WSDL 1.2, WS-Policy 1.2, WS-SecurityPolicy 1.1, WS-Policy Attachment, UDDI
Policy Control	Drag-and-drop policy creation, Conditional branching within policies, Standards-based Import/Export of policies, Policy chaining, Policy Migration, Wildcard values within policies, Distributed Policy Enforcement with Centralized Management
Identity Management Integration	Oracle Access Manager, Sun Access Manager, Novell Access Manager, CA SiteMinder, RSA Access Manager, Entrust GetAccess, IBM Tivoli Access Manager, XACML
LDAP	Oracle Internet Directory, Sun, Novell, Siemens, Microsoft Active Directory
Security and Identity Mediation	Built-in Security Token Service (STS), SAML Token Issuance and Injection, WS-Trust, Credential Mapping, Token mapping (X.509 to SAML, Kerberos, etc),
Encryption and Signing	SSL, XML Encryption, XML Signature, WS-Security SOAP Message Security, Threat Detection
XML Firewalling	XML Entity Expansion and Recursion Attacks, XML Document Size Attacks, XML Document Width Attacks, XML Document Depth Attacks, XML Wellformedness based Parser Attacks, Jumbo Payloads, Recursive Elements, MegaTags – aka Jumbo Tag Names, Public Key DoS attack, XML Flood, XML Encapsulation, XML Virus, Replay Attacks, Resource Hijack, Dictionary Attack, Message Tampering, Falsified Message, Data Tampering, Message Snooping, XPath Injection, SQL Injection, Xquery Injection, WSDL Enumeration, Routing Detour, Schema Poisoning, Malicious Morphing, Malicious Include – also called XML External Entity (XXE) Attack, Memory Space Breach, XML Morphing, Parameter Tampering, Coercive Parsing, Field level validation, Scanning outgoing messages for sensitive content based on metadata or Regular Expression Pattern, WSDL Scanning, XML Bomb Attacks, Rogue SOAP Attachments, Detect viruses in SOAP Attachments, Schema Validation, XML Clogging Detection, SOAP Operation Filtering, IP Address Filtering, Traffic Throttling, HTTP Header Analysis, HTTP Query String Analysis, Malicious content signature library
Authentication	Kerberos, HTTP Authentication (Basic/Digest), SSL Mutual Authentication, WS-Security 1.1 & 1.0, WS-Security UsernameToken, WS-Security X.509 Certificate Token, WS-Security Kerberos Profile and other types
Authorization	Role-based access control, Authorization based on database query, Content-based authorization, Delegation to third-party Authorization systems
Audit	Traffic Logging, Log Signing
Monitoring & Alerting	Email, SNMP, Syslog, Windows Event Log, CheckPoint OPSEC, Embedded real time message monitor, Oracle Enterprise Manager, Adobe Flash Web-based monitoring
Extensibility	JavaScript API for custom filters, Java API for custom filters, Conversion, XSLT, Custom Java Message Conversion
Service Quality	Service outage detection, Service Level Agreement monitoring
Certificate Management	X.509 Certificate Issuance, Certificate Revocation List (CRL), OCSP, XKMS, Certificate chaining
Data Integration	Oracle 8,9, 10 & 11 Database, Mysql, Microsoft SQL Server, JDBC
Anti-Virus	Sophos, ClamAV, McAfee
Appliance Specification	2 x Intel Xeon 5520(2.26GHz, 8M cache, 5.86 GT/s QPI, Turbo HT), 1066Mhz Max Memory 6GB 1333MHz Memory 2 x 73GB SAS 10K 2.5" HD Hot Plug 717W Hi output redundant power supply (2 PSU), performance BIOS setting Cavium Nitrox PX NHB Acceleration Board (note optional HSM available)
Appliance Form	1U Rack-mountable chassis 30.4" (77.2cm) D x 16.7" (42.6cm) W x 1.67" (4.26cm) H with bezel attached Rack Weight 35.8 lbs (16.3 Kg)
Appliance Environmental Characteristics	Operating Temperature: 10° to 35°C (50° to 95°F) Storage Temperature: -40° to 65°C (-40° to 149°F) Storage Relative Humidity: 5% to 95% non-condensing Operating Relative Humidity: 20% to 80% (non-condensing) Operating Vibration: 0.26G at 3Hz to 350Hz for 5 mins Storage Vibration: 1.54Grms at 10Hz to 250Hz for 10 mins Operating Shock: Half sine shock in all operational orientations of 31G 5% with a pulse duration of 2.6 ms 10% Storage Shock: Half sine shock on all six sides of 71G 5% with a pulse duration of 2 ms 10% Square wave shock on all six sides of 27G with velocity change @ 235 in/sec or greater
Oracle integrations/interoperability	Oracle Access Manager, Oracle Application Server 11g, Oracle BPEL Process Manager, Oracle EDI B2B Gateway, Oracle Enterprise Manager, Oracle Internet Directory, Oracle 8,9,10,11 Database, Oracle Linux
STS	Built-in Security Token Service (STS)

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