

# VORDEL ACCESS GATEWAY

Business applications handle sensitive data such as personal identifiable information (PII), business transactions, and intellectual property. With the growing adoption of Service Oriented Architecture (SOA), Cloud computing, mobile devices, and rich user interface technologies like AJAX, these sensitive data are being accessed by an explosion of clients via application interfaces such as SOAP Web Services and REST APIs. Vordel Access Gateway is the “front door” for enterprise applications and SOA infrastructure, securing, controlling, and mediating application integration interfaces.

## Unify Access Control and Audit at a Single Point

The client explosion makes it challenging for IT to enforce consistent authentication, authorization, and other security policies. It also reduces the level of visibility and auditability. Vordel Access Gateway provides a single point of control and audit to enable centralized policy enforcement and comprehensive audit.

## Protect Applications and Manage Usage

The client explosion increases the likelihood of compromised, malfunctioning, or just poorly designed clients. Vordel Access Gateway protects applications from client issues to ensure availability and integrity. The Gateway enforces policies that route, throttle, block, or accelerate requests based on client type and behavior, traffic volume and network condition.

## Add Integration Flexibility Instantly

The client explosion complicates technology and standards interoperability. Mobile clients prefer REST with JSON, while SOA clients prefer SOAP with XML. Vordel Access Gateway performs run-time protocol and message mediation at wire speed, giving applications interfaces added flexibility instantly.

## Feature Highlights

Vordel Access Gateway secures, audits, controls, and mediates access to enterprise applications and SOA infrastructure.

### Access Control

Authenticate and authorize application access

- Authentication with HTTP Basic, HTTP Digest, WS-Username, SAML, X.509, Kerberos, etc.
- Single sign-on (SSO) and token caching
- Authorization with LDAP Group, OAuth, entitlements, XACML, etc.
- Federation with WS-Trust
- Signing & encryption

### Operational Control

Route, throttle, block, and accelerate message traffic

- Request routing based on service and client attributes
- Request throttling for SLA and quota enforcement
- Concurrent connection throttling
- Caching of responses to high frequency requests
- Traffic smoothing

### Audit and Monitoring

Monitor, log, and report on access, usage, and quality

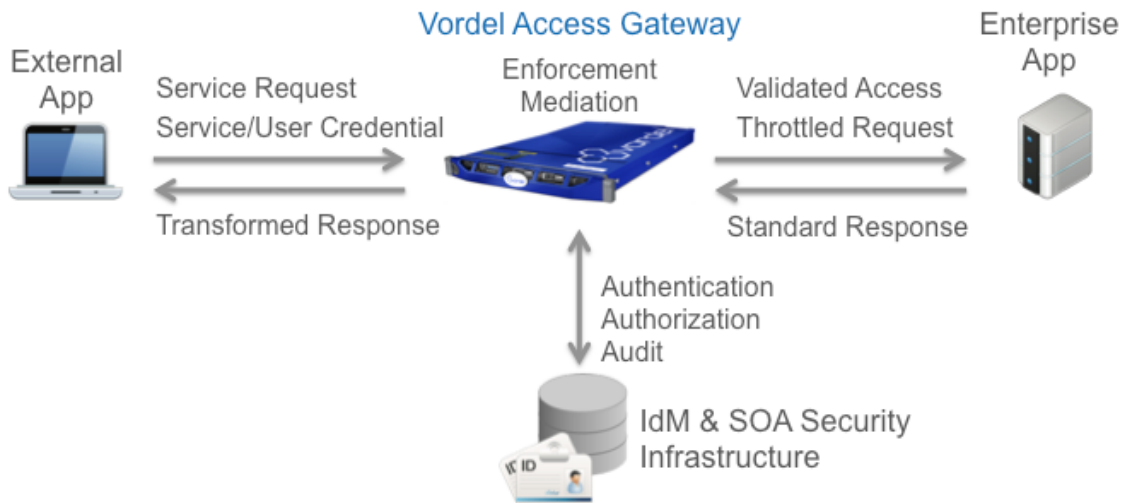
- Monitoring across all endpoints and interfaces
- User, client, view, data, and transaction level logging
- Service level agreement (SLA) monitoring and audit
- Real-time monitoring and time based analysis
- Automated report delivery
- Transaction tracking, alerting, and debugging

### Interface Integration

Integrate applications with different protocols & standards

- Protocol translation, e.g. HTTP, JMS, SFTP, TIBCO, etc.
- Message transformation, e.g. SOAP, REST, JSON, XML, etc.
- Service virtualization
- Service versioning
- Message enrichment
- Data redaction
- Content routing

## Vordel Access Gateway Solution



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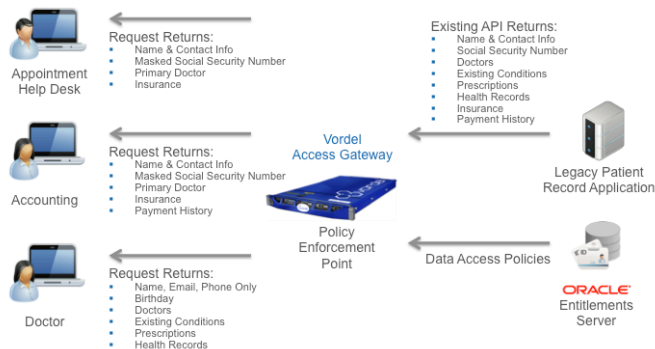
### Authenticate and Single Sign-on

Vordel Access Gateway is a policy enforcement point (PEP) for authentication policies. The Gateway has out-of-the-box integrations with leading identity and access management products. The Gateway supports all the popular authentication standards, including HTML Basic, HTML Digest, SAML, Kerberos, X.509, WS-Username, and more. The Gateway can cache and mediate security tokens to enable single sign-on and federated access.



### Authorize and Enrich Identity Data

Vordel Access Gateway is a PEP for authorization policies as well. The Gateway supports popular authorization schemes such as LDAP Group, entitlements, XACML, and OAuth. The Gateway can also enrich requests with user attributes to enhance application-side authorization. When used in conjunction with products such as Oracle Entitlements Server (OES) or Axiomatics Policy Server, the Gateway can enforce fine-grained authorization policies with on-the-wire data redaction, making it possible to externalize authorization for even legacy applications without intrusive changes.



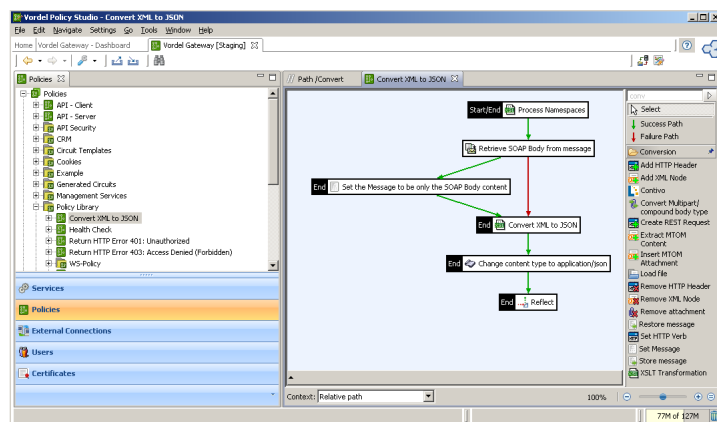
Example of Fine Grained Authorization With OES

### Throttle Traffic For Protection and Management

A malfunctioning partner service can overwhelm an application just as well as a malicious denial-of-service attack. Vordel Access Gateway monitors and enforces throttling policies to protect applications and uphold service quality. The Gateway can throttle request volume and simultaneous connections. Throttling policies can be based on client, message type, message size, client behavior, network condition, and traffic volume, etc. Throttling can also enforce quotas management or service level agreements.

### Translate Protocols and Message Formats

Enterprise applications need to integrate with legacy trading partners as well as modern mobile devices and Cloud based services. Integration protocols and message standards evolve more quickly than most applications can keep up with, especially home grown applications. Vordel Access Gateway offers extensive protocol translation and message transformation capabilities to provide a flexible integration interface for new and legacy applications. The mediation policies run external to the application at wire speed, thus no intrusive changes are required to existing application interfaces. Mediation policies are defined using Vordel's simple drag-and-drop user interface.



Drag-and-Drop Transformation Policy

### Route Messages at Wire Speed

Modern enterprise IT is a congested environment with many applications using many message types. High speed routing of messages based on message type, size, client, and payload can improve overall system and network performance. Vordel Access Gateway features the purpose-built VXA engine that can process and route messages at wire speed. For more complex routing scenarios, the Gateway can modify header, enrich client and user attributes, decrypt and extract data to streamline downstream message processing by applications or service bus.

### Audit Access and Monitor Usage

For access and usage auditing, most applications do a better job auditing access via its native user interface than via its integration interface. Less sophisticated interfaces only support access through an administrator or root login and cannot provide granular audit at the client and user level. Vordel Access Gateway provides highly configurable auditing and monitoring of the integration interface: for example, extract and log client and user attributes from the message, log before-and-after states for configuration changes. The Gateway also provides extensive analytics for service usage and quality, real-time traffic monitoring, and end-to-end audit trail logging.