Guide

Intel® XML Accelerator

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Accelerate your Web services

Intel® XML Accelerator Highlights

The Intel® XML Accelerator purpose-built appliance addresses the performance and scalability issues faced by Global 1000 enterprises in XML/XSLT-powered customer relationship management, portal, e-commerce and back-office application integration. Intel XML Accelerator appliances are proven to significantly reduce costs while improving XML performance, enhancing infrastructure reliability and speeding implementation of mission-critical Web services applications.

High-Performance XML—Reduced Infrastructure Costs

Standards-based XSLT processing overburdens the application server infrastructure resulting in poor user experience, higher server infrastructure costs and scalability limitations. By offloading XSLT processing from the application server, XML Accelerator delivers significant XSLT performance improvements and easily scales to meet increasing XML traffic demands. XML Accelerator provides this world-class performance through a highly optimized XML processing technology that is designed to handle the unique processing requirements of XML.

Flexible Deployment Options

XML Accelerator offers deployment flexibility. It can fit seamlessly into almost any corporate IT environment right out of the box with its ability to configure network settings through a sophisticated front-panel display. XML Accelerator can be configured as an inline device or an offload device by using Java API for XML Parsing (JAXP) interfaces. More sophisticated deployment scenarios can be constructed easily through the Intel® XML Configuration Manager, an Eclipse*-based interface that provides a graphical user interface (GUI) wizard that simplifies operations such as compression, schema validation, SOAP verification and XPath routing.

Reliability and Availability

The Intel XML Accelerator performs dynamic load balancing across server endpoints. It detects back-end server failures and redistributes XML processing requests to other active back-end servers and across server clusters. XML Accelerator also delivers high availability for mission-critical Web services through its highly reliable and redundant hardware components.

Simplified Plug-In Management

The Intel XML Accelerator is easy to operate, offering interfaces to multiple enterprise application management platforms such as HP OpenView*, IBM Tivoli* and Computer Associates Unicenter* software. XML Accelerator locks down its operating system, providing strong centralized authentication. It supports other management interfaces, including Web GUIs, Cisco IOS-like command line interfaces and SOAP APIs, to easily configure and manage Intel XML Accelerator operations in a protected manner. Intel XML Accelerator also provides for sophisticated error reporting, remote syslog capability and detailed transaction logging.

XML Content Mediation and Transformation

XML Accelerator enables customers to define simple or complex data transformations of XML documents across multiple transport protocols without the use of expensive hand coding. XML Accelerator supports multiple application server environments and provides for seamless integration of Web services platforms.

XML Processing

Wire-Speed XSLT Processing

- XSLT transformation, XML Schema validation, XML/SOAP routing
- XSLT 1.0, XML Schema 1.0, XPath 1.0, SOAP 1.1, SOAP 1.2, WSDL 1.1, ebXML
- Compression, XSLT/XML/XML Schema caching, URL rewriting
- Support for non-XML content

Transport Layer Security

- Multiple Secure Sockets Layer (SSL) identities and mutual authentication
- SSL v3 and Transport Layer Security (TLS) v1 acceleration, origination and termination
- Extraction and packaging of SSL identity management

XML Content Routing

Routing Features

- HTTP and SOAP header and payload routing
- One-to-many destination routing

Transport Protocols

- HTTP(S) versions 1.0, 1.1
- IBM MQSeries*
- SunMQ*

Interoperability

- Microsoft .NET*
- IBM WebSphere*
- Apache Axis*
- BEA WebLogic*

Traffic Management

- Balanced requests to multiple servers and clusters
- Failover requests within and across server clusters
- Network and server health checking
- Fast cut mode in both directions
- Real-time detailed performance statistics

Manageability

- Serial port, Telnet, SSH, HTTP(S) SNMP, SOAP, SNTP, NTP and front-panel display
- Multi-appliance configuration and deployment
- Live updates and application version control
- SNMP support through MIB and MIB II
- Qualified for IBM Tivoli Ready* and Computer Associates smart Certification*

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