Cisco Application-Oriented Networking: Announcing Cisco AON Software Release 3.0

PB458450

Cisco® is pleased to announce the Cisco AON 3.0 software release for its Application-Oriented Networking (AON) technology. Cisco AON is an intelligent message-routing system that comprises a new category of network-embedded products and solutions that mark the convergence of intelligent networks with applications based on highly distributed, service-oriented, and traditional architectures. See Figure 1.

Figure 1. Cisco AON Product Offerings

Branch Office		Enhanced Network Module for Cisco 2800/3700/3800 Routers Single-core 1 GHz Intel 373 Celeron-M CPU, 1 GB RAM, 80 GB hard disk drive
		CADE-1010 Integrated Single-Core Appliance Single-core Intel D352 3.2 GHz CPU, 1 GB RAM, 250 GB hard disk drive
Enterprise Data Center		CADE-2142 Integrated Dual Quad-Core Appliance 2 Quad-Core Intel E5320 1.86 GHz CPUs. Up to 4 GB RAM; 2x147 GB hard disk drive

Cisco AON Product Portfolio

Cisco AON 3.0 marks another significant milestone in the product roadmap, introducing several key new features while continuing to offer higher performance and deliver enhanced usability and manageability. Table 1 below lists the new features in AON 3.0.

Table 1. New Features in AON 3.0

Feature	Description
WSDL and WS-Policy import and PEP generator	Ability to import WSDL and WS-Policy documents from a file-system, or from a given HTTP URL (only clear text, not HTTPS) into the ADS and, based on this, have the ADS generate a PEP with the necessary bladelets (such as Sign, Encrypt, Send, Branch, and so on) that are required to invoke the chosen service from the WSDL and enforce the policies within the WS-Policy documents.
Create SOAP Message bladelet for callout requests	This new bladelet is similar to the existing Create Message bladelet, except that it is completely geared towards allowing the user to configure outgoing SOAP calls. The bladelet can be dragged and dropped onto the PEP when the user wishes to call out to an external Web Service. The user would then be prompted to specify a WSDL (a file system or an HTTP URL).
SAML 2.0 support	AON accepts both SAML 1.0 as well as SAML 2.0 tokens in its Identify, Verify Identity, and Authorize bladelets.
SOAP request classification and prioritization	Message type definitions now allow classification to be based on SOAP headers and body tokens like WSS username token, WSS X.509 certificate token, and WSS SAML token.

Context- and content-based routing enhancements	Enhancements to content-based routing based on sender identification in HTTP or SOAP headers, HTTP header elements (HEAD, and so on), HTTP and SOAP header information (values), SOAP header, HTTP header, source IP/port number, and context-based routing based on day, date, time.
SSL support added to BEA JMS Adapter	Processing of WebLogic JMS messages over SSL is now possible. This will guarantee message security. Both one-way SSL and two-way SSL are implemented. In one-way SSL, only the server is authenticated by the client, while for two-way SSL both client and server side authentication will be used.
HTTP pipelining support	As per HTTP 1.1 spec (RFC-2616), support is now provided for pipelining of incoming HTTP requests on persistent connections, where responses need to be sent in the same order in which the requests were received.
Data streaming support	Today, embedded adapters conform to a programming model and a set of APIs defined in the adapter SDK in order to interact correctly with the AON system. The data streaming model enhances the existing interaction to support streaming of data in discrete chunk sizes.
Syslog extended to NOTICE and DEBUG	Added support for redirecting AON logs to syslog for DEBUG and NOTICE level messages.
Multiport support on appliance	Changes have been made to enable the use of the third network interface on AON appliances.
Message order preservation	Messages may need to be delivered at the outbound in the same sequence as they were received at the inbound. A new combination of Unreliable/Ordered delivery semantics was added.
SNMP MIB metrics	A comprehensive set of SNMP MIB metrics were added as part of this release.
Notification bladelet	A new bladelet that allows the user to send a custom notification by e-mail or SNMP trap.
Microsoft SQL Server support for Log bladelet	Ability to select Microsoft SQL Server database while creating a Message Log policy in AMC has been added.
System-tunable parameters	A new policy that allows the administrator to modify system-tunable parameters such as number of threads and so on has been added.

Cisco AON Form Factors

Cisco AON Release 3.0 is available on the following three Cisco form factors—one that integrates into existing Cisco routers and two standalone appliance form factors:

- Cisco Integrated Services Router (ISR) 2800/3700/3800 series AON Enhanced Network Module, primarily deployed at branch offices
- Cisco CADE-1010 AON Appliance, primarily at branch offices
- Cisco CADE-2142 AON Appliance for data center and network-gateway applications

Table 2 outlines Cisco AON hardware and software compatibility.

Table 2.   Cisco AON Hardware and Software Compatibility Matrix

Compatibility Matrix	Cisco 2800/3800 Series Routers	Cisco AON CADE 1010 Appliance	Cisco AON CADE 2142 Appliance
Hardware models supported	Cisco 2811, 2821, 2851, 3745, 3825, 3845	Cisco AON CADE 1010 Appliance	Cisco AON CADE 2142 Appliance
Cisco IOS® Software supported	Cisco IOS 12.4(9)T CCO on 6/19/06	N/A	N/A
Cisco AON software supported	Cisco AON Software 3.0 for Cisco 2800/3700/3800 Series routers	Cisco AON Software 3.0 for AON CADE-1010	Cisco AON Software 3.0 for AON CADE-2142

Availability

Customers in Europe and in the United States who want to purchase Cisco AON modules can place an order by calling a Cisco customer service representative starting April 2, 2008.

Ordering Information

Table 3 lists ordering information for Cisco AON modules.

Table 3.   Ordering Information for Cisco AON Modules

Items	Part Number	Description
Enhanced Network Module for Cisco 2800/3700/ 3800 series routers	• NME-AON-K9=	Cisco 2800/3700/3800 Series Application-Oriented Networking Enhanced Network Module (spare)
	• SW-AON-PBR-K9	Cisco AON Software 3.0 for Cisco 2800/3700/3800 Series AON Enhanced Network Module
Cisco AON CADE 1010 Appliance	• CADE-1010-K9	Cisco ADE 1010 Application-Oriented Networking Appliance
	• SW-AON-PSMB-K9	Cisco AON Software 3.0 Platform for SMB
Cisco AON CADE 2142 Appliance	• CADE-2142-K9	Cisco ADE 2142 Application-Oriented Networking Appliance
	• SW-AON-PENT-K9	Cisco AON Software 3.0 Platform for Enterprise

For More Information

For more information about Cisco AON modules, visit http://www.cisco.com/go/aon or contact your local Cisco account representative.