

Cisco WAN Automation Engine Software Release 6.1

PB733905

Overview

This product bulletin describes the primary software features supported by Cisco® WAN Automation Engine (WAE) Software Release 6.1 (product number: WAE-61-SW-K9), for Cisco WAE, Collector, Design and Live.

Primary Features Delivered in Cisco WAE Software Release 6.1

Table1 highlights the primary new features for this release.

Table 1. Primary Features Provided by Cisco WAE Software Release 6.1

Platform	Feature	Benefits
WAE	Path Computation Element Communication Protocol (PCEP) delegation	Allows existing Resource Reservation Protocol - Traffic Engineering (RSVP TE) label switched paths (LSPs) deployed in the network to be delegated to a stateful PCEP server
	Bandwidth On-Demand Class-of-Service (CoS) Aware	Allows applications to query WAE for bandwidth availability within specific classes
	Explicit RSVP TE Optimization	Allows RSVP TE LSPs to be modified after optimization
	Clustering support	Providing High Availability for applications and PCEP programming
Collector	Continuous Poller: Allows continuous polling and gathering of statistics (interface, LSP, VPN and interface queues)	Allows for continuous and frequent collection of traffic statistics from the network in order to produce an accurate and real-time view of network traffic.
	Flow Collection enhancements: Support for extra aggregation primitives, i.e. MPLS VPN RD, IP prefixes and IP ToS information.	Enriched flow-based information in Business Intelligence and MATE Design products with additional sets of primitives collected from NetFlow/IPFIX protocols, including MPLS VPN RD, IP prefixes and IP ToS.
	Multivendor enhancements: Alcatel-Lucent/Cisco/Juniper Exact LAG port matching using LACP	Builds accurate models for LAG by using LACP to match respective pairs of member ports.
	Alcatel Lucent Collection of QoS and interface queues statistics direct from routers	Allows for improved visibility and the ability to perform QoS simulation on ALU devices when performing direct ALU Discovery.
	Service Aware Manager Operating Support Systems Interface (SAM-OSSI) <ul style="list-style-type: none"> Logging of performance and accounting statistics query response times Optimized statistics collection 	Improves troubleshooting and performance for SAM based collection.
Cisco Collection of VPWS topology (LDP signaling) and associated interface traffic statistics	Increased Network visibility and the enabling of L2 VPN failure simulation and analysis.	

Platform	Feature	Benefits
	Cisco/Juniper <ul style="list-style-type: none"> Collection of GRE tunnel traffic statistics BGP 4-byte ASNs 	Increased visibility in Live and IP tunnel demand deduction capability in Design Support for BGP 4-Byte Autonomous System Numbers (ASNs)
Design	Layer 1 protection and restoration simulation modeling, 1+1, 1+R, 1+1+R Multiprotocol Label Switching (MPLS) Simulation enhancements: Full support for Intermediate System to Intermediate System (ISIS) and Open Shortest Path First (OSPF) multi-area LSP route simulation LSP reports on disjointness Enhanced Object-based APIs (Python and Java) into MATE plan files including Layer 1 support Segment Routing TE Add-on using MATE Design	Models advanced Layer 1 resiliency mechanisms for wavelength-division multiplexing (WDM) Allows simulation and design of multi-area LSP routes Allows verification of LSP disjointness across networks Supports development of powerful add-ons, including custom design tool development, by allowing close programmatic interactions with the planning model and simulations Allows application of the object-based API. Reduces congestion in the network by addition of selective segment-routed tunnels to balance traffic
Live	Multi Network Support Enhancements <ul style="list-style-type: none"> Hardware visibility reports 	Allows users to switch between networks (This is useful, for instance, if you want to partition your data between different geographical regions. There will be a separate database for each network, and you can view each network separately.) Determines hardware line card, slot, and port availability. Allows reports on all network hardware and serial numbers

Upgrade Paths

- Cisco MATE Plan files: Plan files from previous versions are read and upgraded automatically on opening in Cisco WAE Software Release 6.1.
- Cisco Live datastore: To upgrade the datastore from a release earlier than Cisco MATE Software Release 5.6, please contact your support representative.

Support

Support for Cisco WAE Software Release 6.1, WAE-61-SW-K9, follows the standard Cisco support policy, available at:

http://www.cisco.com/en/US/products/products_end-of-life_policy.html.

Ordering Information

Table 2 provides product numbers and ordering information for Cisco WAE Software Release 6.1 and feature licenses.

Table 2. Cisco WAE Software Release 6.1 Ordering Information

Product Names	Product Identifier	Description
Cisco WAE Software Release 6.1	WAE-61-SW-K9	WAE Software Package
Cisco WAE Platform	WAE-E-PLATFORM	WAE Platform support for plan files, archive, staging, API framework, logging, notification and collection server. Perpetual license per server
Cisco WAE Collector	WAE-E-B-BA	WAN Automation Engine Collector Basic Bundle (IGP, RSVP, BGP, QoS)
	WAE-E-B-AD	WAN Automation Engine Collector Advanced Bundle (Multicast, VPN, LDP, NetFlow)
	WAE-E-COLL-BGPLS	BGP-LS support for WAE Collector. Perpetual license per managed device
	WAE-E-COLL-BASE	WAE Collector Base+IGP per managed device
	WAE-E-COLL-RSTE	WAE Collector RSVP-TE per managed device
	WAE-E-COLL-BGP	WAE Collector BGP per managed device
	WAE-E-COLL-MCAST	WAE Collector Multicast per managed device
	WAE-E-COLL-QoS	WAE Collector QoS per managed device
	WAE-E-COLL-VPN	WAE Collector VPN per managed device
	WAE-E-COLL-LDP	WAE Collector LDP per managed device
	WAE-E-COLL-DMNF	WAE Collector Demands NetFlow per managed device
	WAE-E-COLL-BINF	WAE Collector Business Intelligence (BI) Netflow per managed device
	WAE-E-COLL-NF	WAE Collector Netflow per managed device
	WAE-E-DEPLOY-BSE	Deployer basic functionality to support southbound programming. Perpetual license per managed device
	WAE-E-DEPLOY-PCEP	Optional Deployer capability to use PCEP as the programming module. Perpetual license per managed device
	WAE-E-DEPLOY-CFG	Optional Deployer capability to use configlets as the programming module. Perpetual license per managed device
	WAE-E-OPM	OPM capabilities including simulation, optimization and layer 3 RSVP TE. Perpetual license per managed device
	WAE-E-CAL-BSE	Bandwidth calendaring. Perpetual license per managed device
WAE-E-CTL-OD	WAN Automation Engine control, includes simulation, Optimization, perform Demand Admission, Traffic Engineering and programming paths. Perpetual license per managed device	
Design	MD-E-BASE	Simulation analysis of a large set of failures determining how vulnerable the network is to congestion
	MD-E-RSTE	Simulate MPLS RSVP-TE routing under normal and failover conditions
	MD-E-BGP	Model multi AS networks and simulate basic BGP routing, high-level modeling of typical peering policies
	MD-E-MCST	SSM multicast, which is specified by an (S, G) parameter per multicast flow
	MD-E-QOS	Model QoS settings to help ensure that mission-critical service levels are met
	MD-E-VPN	Model virtual subnetworks within a plan file
	MD-E-LYR1	Create and view Layer 1 (L1) topologies, thus giving a more complete view of the network
	MD-E-ARCV	Capture, store, and display network changes over time in a standard Web browser
	MD-E-TATE	Optimize primary paths (only) using the minimum number of path changes required to bring utilizations below an acceptable level
	MD-E-STTE	Reduce congestion by optimizing the placement of primary and secondary paths for selected LSPs

Product Names	Product Identifier	Description
Live	ML-E-BASE	Interface and node statistics. Navigate through current network information and visualize historical raw data (charts and graphs)
	ML-E-MAP	Near real-time interactive Weathermap, including health panels of critical traffic and network issues, drill down capabilities to regional or site maps
	ML-E-ANLY	Traffic trending reports
	ML-E-ADNT	RSVP TE and traffic demands

For Additional Information

For more information about Cisco WAE and Cisco MATE, please visit the product home pages at <http://www.cisco.com/go/wae> and <http://www.cisco.com/go/mate>, or contact your local account representative



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