

Cisco WAN Automation Engine Software Release 6.0

PB 732720

Overview

This product bulletin describes the primary software features supported by Cisco® WAN Automation Engine (WAE) Software Release 6.0 (product number: WAE-60-SW-K9), for Cisco WAE Collector, Cisco MATE Design, and Cisco MATE Live.

Primary Features Delivered in Cisco WAE Software Release 6.0

Table1 highlights the primary new features for this release.

Table 1. Primary Features Provided by Cisco WAE Software Release 6.0

Platform	Feature	Description
Cisco WAE Collector	Enhancements <ul style="list-style-type: none"> Discovery 	Newly discovered nodes are automatically added to the node list. Node collection can be based on IP addressing. Collections can be configured to run at user-specified times.
	<ul style="list-style-type: none"> Usability 	User interface is consistent across the Cisco MATE portfolio. The current configuration can be reset or cleared.
Cisco MATE Design	Simulation Enhancements <ul style="list-style-type: none"> Fast Reroute (FRR) Segment Routing Autobandwidth LSPs use Interior Gateway Protocol (IGP) metric 	FRR can be configured with Shared Risk Link Groups (SRLG) awareness. Segment routing can be added to Label Switched Paths (LSPs). LSPs can be configured with Autobandwidth. LSPs can also be configured to use IGP metrics as well as TE metrics for constrained shortest path first (CSPF) calculations
	Layer 1 Simulation	Layer 1 routes can be optimized to take account of optical feasibility constraints. Layer 1 circuits can be bulk mapped to Layer 3 circuits.
	Visualization	Sites can be nested within other sites to simplify plots.
Cisco MATE Live	Hardware Inventory	This hierarchical representation of the current hardware in the network and how it is interconnected can be used to determine available slots, cards, or ports to accommodate future growth.
	Per-Queue Interface Statistics	Each traffic queue on an interface can be monitored.
	Deviation Reports	Property value changes can be detected, such as sudden increases or decreases in interface or LSP traffic patterns.
	Import External Data	Data can be imported from third-party sources and displayed in customized tables within Cisco MATE Live Explore.
	Enhancements <ul style="list-style-type: none"> Usability Visualization 	Interface types can be viewed as a property. Nodes can reside within or outside a site representation.

Upgrade Paths

- **Cisco MATE Plan files:** Plan files from previous versions are read and upgraded automatically on opening in Cisco WAE Software Release 6.0.
- **Cisco MATE Live datastore:** To upgrade the datastore from a release earlier than Release 5.6, please contact your support representative.

Support

Support for Cisco WAE Software Release 6.0 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 6.0 and feature licenses.

Table 2. Cisco WAE Software Release 6.0 Ordering Information

Product Names	Product Identifier	Description
Cisco WAE Software Release 6.0	WAE-60-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 enable 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	

Product Names	Product Identifier	Description
Cisco MATE 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	Minimize congestion by optimizing the placement of primary and secondary paths for selected LSPs
Cisco MATE 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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