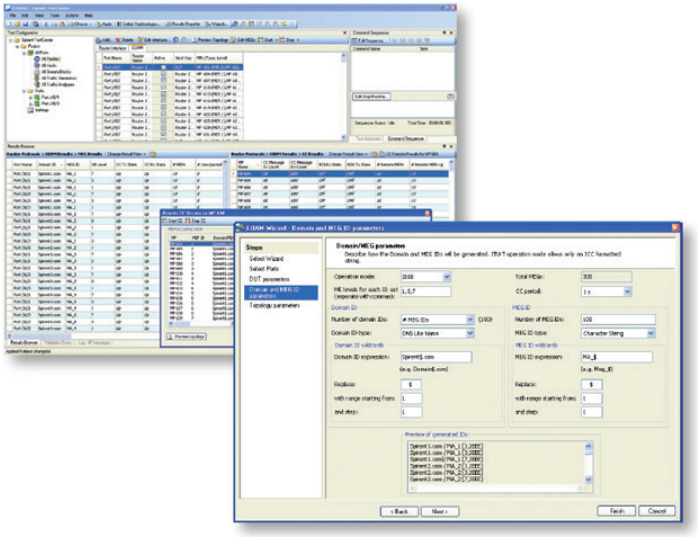
VIAVI TestCenter Carrier Ethernet Bundle

For AION

Overview

VIAVI TestCenter Carrier Ethernet Bundle for AION provides comprehensive protocol emulation necessary for functional, interoperability and performance testing of Ethernet Operations, Administration and Maintenance (EOAM) procedures in routers and switches as specified in IEEE802.1ah, IEEE 802.1ag, and ITU-T Y.1731.

The bundle allows users to create large emulated Carrier Ethernet networks from a single test system. Each node in the emulated network can be used to generate and respond to EOAM messages to provide functional or performance testing in a controlled lab environment.



Key Use Cases and Benefits

- **Enhanced Realism —** VIAVI TestCenter Access test solution emulates real world broadband subscriber behaviors, Triple Play services, and failure scenarios
- **Improved Testing Capacity —** Accomplish more in less lab space with the highest number of emulated subscribers and user planes per port and port density
- **Reduced Test Time —** Set up tests quickly and easily to validate system performance in realistic, unstable environments rather than an environment optimized for pure performance
- **Detailed Analysis —** Data plane analysis down to the subscriber, service and stream to quickly identify and resolve performance issues that occur in only a small number of subscribers when supporting tens of thousands of subscribers

Carrier Ethernet Bundle tracks comprehensive EOAM per port, MA and node statistics for quickly validating and troubleshooting devices or systems under test.

- Verify EOAM Connectivity Fault Management (IEEE 802.1AG or ITU-T Y.1731) implementations over 1G, 10G, 25G, 40G, 50G, 100G or 400G interfaces
- Verify EOAM Performance Monitoring (ITU-T Y.1731) implementations over 1G, 10G, 25G, 40G, 50G, 100G or 400G interfaces
- 3.3 ms ETH-CC interval supported simultaneously on up to 300 MEPs (Maintenance End Points) on the same port
- Validate device under test (DUT) intermediate and endpoint behavior as message initiator or responder to Continuity Check, Link Trace, Loopback, Delay Measurement and Loss Measurement messages
- Test DUT CCM database collection and reporting
- Validate DUT's ability to participate in large emulated maintenance associations with test system scale that supports thousands of emulated end points and MAs per port

Features and Benefits

- Comprehensive, real time EOAM protocol counters for interactive testing and troubleshooting
- Generate and analyze EOAM messages for thousands of emulated MEPs
- Topology preview for visualizing emulated nodes and their connectivity to other nodes
- Summarized counters and information with drill-down statistics for problem identification and analysis
- Tracks message counts, timeouts and unexpected messages for all emulated nodes
- View detailed Link Trace path information
- Test configuration wizard for quick setup of multi-node, multi-MA/MEG topologies, including MAID/MEG ID stepping/iteration
- Supports EOAM messaging over single or stacked VLANs
- Easy to use Optional TLV editor
- Chain up to 254 MIPs for Link Trace testing
- Operates in IEEE or ITU-T mode

Technical Specifications

Parameter	Description
Ethernet OAM	
IEEE 802.3ah	Ethernet Link OAM
IEEE 802.1ag	Connectivity Fault Management
ITU-T Y.1731	Fault Management and Performance Monitoring

Ordering Information

Product Number	Description
AON-PB-CARRIER-ETH*	AION Carrier Ethernet Bundle

*Requires AION Routing and Switching (AON-PB-RTSW) and MPLS (AON-PB-MPLS) licenses.

Bundles are available in different number of seats, contact your VIAVI Sales Representative to find the right combination for your testing needs.

About AION

VIAVI AION is a flexible delivery platform that enables users to achieve improved deployment and provisioning for all their cloud and network testing needs. Built with your needs in mind, offering maximum flexibility in acquiring and utilizing VIAVI TestCenter platforms.

The extended platform combines a wealth of industry-leading test solutions with a flexible licensing architecture to support a wide range of next-generation solution-based domain applications.

AION offers a centralized management hub to help leverage software and hardware functionalities across all lab users and locations for a simplified management and decision-making process:

- **Flexible purchasing options** available via subscription, consumption-based, and perpetual plans, with the ability to license different bandwidth, scale, and protocol bundles.
- **Flexible deployment options** offered include cloud-delivery, on-prem, and laptop-hosted licensing services.

Enhanced user serviceability delivers always-on platform services from auto-discovery and inventory management to user and workspace administration, notifications, and log aggregation.

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