

Spirent **TestCenter**™

Ethernet Link OAM (802.3AH) Emulation Base Package A

The Ethernet Link OAM Base Package allows one or more Spirent TestCenter™ test ports to exchange 802.3ah Link OAM protocol messages with an attached device under test (DUT) to perform functional and interoperability testing. When combined with Spirent TestCenter's other Carrier Ethernet base packages and sophisticated data packet generation and analysis, the Spirent TestCenter system enables complete testing of Carrier Ethernet devices

Applications

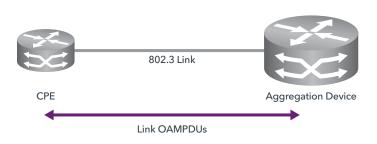
- Protocol compliance, functional and interoperability testing
- Software regression testing
- Technical marketing proof of concept testing/demonstrations
- Combine with other Spirent TestCenter base packages for complete Carrier Ethernet system testing

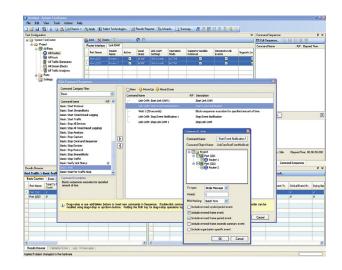
The Ethernet Link OAM Base Package allows each Spirent TestCenter interface in an enabled chassis to operate as a Link OAM capable node, with user control over configured parameters, starting and stopping discovery and initiating faults. Counters and fault information received from the DUT are recorded in real time for immediate or post test examination.

For NEMs, testing will typically be at the development, product verification or technical marketing phases. For Service Providers, usage will be at the pre-deployment verification phase.

Features & Benefits

- Granular user control of Link OAM attributes, settings and messages quickly verify DUT capability and interoperability
- Grid editing of major parameters for all ports allows bulk set up and control of dozens of interfaces simultaneously for easily managing large test beds
- NoCode™ Automation capability in Command Sequencer allows non- and novice-scripters to build automated and repeatable Link OAM test cases





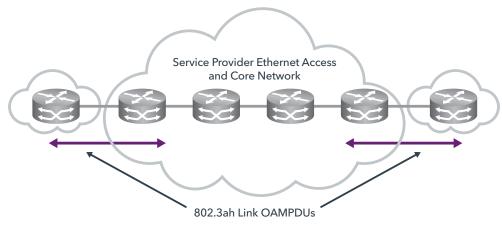
Emulate Link OAM to test CPE or Access Aggregation Devices

Link OAM Command Sequencer Configuration

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Link OAM in the Network

Technical Specifications

Key Features

- Stateful Discovery support with user configured Local Information TLV
- User configurable Organization Specific Information TLVs, Variable Response Containers and Link Event TLVs
- Send Critical Link Events and Link Events
- Send Remote Loopback Control messages
- State indicators, message counters, event counters and event notification log for each port
- Create abnormal conditions for negative testing, including pausing Link OAM discovery state machine at specific states

Configuration Parameters

- Active or Passive mode
- Unidirectional support
- Loopback support
- Link Events support
- Variable Retrieval support
- Vendor Specific Information
- Max PDU size
- OUI
- OAM version
- Organization Specific Information TLVs content
- Variable Responses content
- Event Notification content

Configurable Timers

- OAMPDU
- Lost link
- Loopback response
- Variable response OAMPDU contents

Transmit Controls

- Critical Event
- Dying Gasp
- Link Fault
- Organization Specific OAMPDU with user defined TLVs
- Loopback Control OAMPDU
- Variable Request OAMPDU
- Event Notification OAMPDU with user defined Link Event TLVs

Negative Testing Controls

- User specified version number
- Override Local Satisfied and Remote Stable state indicators
- Disable OAMPDU transmission, Loopback response and Variable Response
- Pause Discovery state machine at user-specified state
- Applicable Standards-IEEE 802.3ah, Ethernet in the
- First Mile Section 57

Supported Modules & Platforms

 BPK-1067A is supported on all Spirent TestCenter Ethernet modules

Ordering Information

Ethernet Link OAM (802.3AH) Emulation Base Package A: BPK-1067A

Contact Us

For more information, call your Spirent sales representative or visit us on the web at www.spirent.com/ContactSpirent.

www.spirent.com

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