

TestCenter™

Link Aggregation Control Protocol (IEEE 802.3AD) Base Package

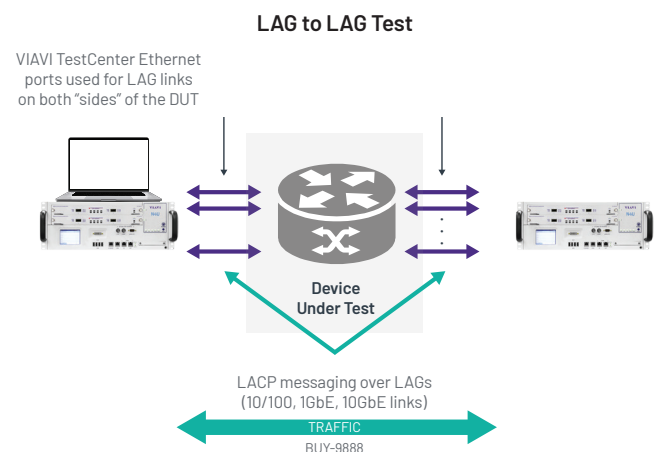
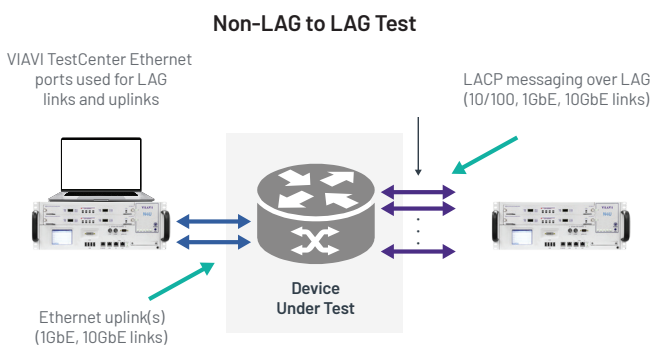
Convergence is creating a new generation of integrated network devices and services that are much more complex than ever before. The resulting increased complexity, scarcity of testing skills and architectural shortcomings in current test systems are hurting the ability of manufacturers to ship products on time at escalating quality levels and slowing service providers' ability to deploy networks that get Quality of Experience (QoE) right the first time.

Increase Productivity: Get There Faster With VIAVI TestCenter

- **Quickly assess performance:** Measure in real-time the packet rate, loss, re-sequence, delay, delay variation and packet errors for thousands of flows simultaneously
- **Easy test setup:** Parameter tables allow quick definition of multiple Link Aggregation Groups (LAGs), port assignments to LAGs and manipulation of LACP parameters for LAGs. Traffic wizard enables quick variation of flow parameters like MAC addresses, VLAN tags, IP addresses and assignment of flows to ports and LAGs.
- **Build real world test scenarios:** To simulate failures, use TestCenter's sequencer to stop and start link traffic and LACP messages

VIAVI solution enables you to create and execute more complex test cases in less time with the same resources—and scale tests higher while debugging problems faster. The results: lower CAPEX and OPEX, faster time to market, greater market share and higher profitability.

The TestCenter Link Aggregation Control Protocol (LACP) Base Package provides LACP protocol emulation for functional and interoperability testing of router and switch implementations. When combined with TestCenter's sophisticated data packet generation and analysis, this base package allows complete testing of Ethernet link aggregation capable devices.



Applications

- Verify functional capability of LACP implementations using 10/100 Mbps, 1GbE or 10GbE links
- Supported test scenarios include LAG to LAG and non-LAG to LAG configurations
- Validate LAG performance characteristics such as reliability, packet forwarding capability and load balancing efficiency under various test conditions

Key Features

- Real time LACP state information and protocol counters for interactive testing and troubleshooting
- Leverage the Inspire Architecture's Packet Generator/Analyzer Base Package to measure, in real time, parameters such as packet rate, loss, resequencing, delay, delay variation, FCS errors and PRBS errors
- Generate and analyze thousands of streams with variations in MAC addresses, VLAN IDs (including stacked VLANs), IP addresses, TCP or UDP port values, and MPLS labels
- Bi-directional real time protocol decoding for instant viewing of LACP messages and message contents
- Use the Inspire Architecture Command Sequencer to build complex and repeatable test steps within the GUI

Technical Specifications

Supported Ports

- Supported on 10/100/1000 Mbps copper, 10/100/1000 Mbps fiber, and 10GbE

LACP Configurable Parameters

- LAG parameters
 - System priority
 - System ID
 - Group name
- Actor port parameters
 - Port number
 - Port MAC address
 - Port priority
 - Key
 - Timeout mode—short or long
 - Active mode—active or passive
 - LAG association
- LACP State Information
 - Actor state and Partner state
 - Actor and Partner Key
 - Actor and Partner System ID
 - Actor and Partner Port ID
 - Partner System Priority
 - Partner Port Priority
 - Partner Collector Max Delay
 - LACP state
- LACP Counters
 - LACPDU sent and received
 - Marker PDUs sent and received
 - Marker response PDUs sent and received

Ordering Information

Product	Part Number
IEEE 802.3ad Link Aggregation Base Package A	BPK-1015A
Packet Generator and Analyzer Base Package A	BPK-1001A

Supported Modules

BPK-1015A is supported on all TestCenter Ethernet modules.



Contact Us: +1 844 GO VIAVI | (+1 844 468 4284). To reach the VIAVI office nearest you, visit viasolutions.com/contact

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30194957 900 0226

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