GARLAND
TECHNOLOGY
See every bit, byte, and packet®

fuel
FOUNDING PARTNER

paloalto
NETWORKS®

High Availability Crossfire Design
Working towards the best solution for Palo Alto Network Users

Router — Network link — Switch — Router — Network link — Switch

Forensics Wireshark IPS — Out-of-band — Forensics Wireshark IPS

In-Line Appliance   In-Line Appliance

Failover from primary to backup Appliance

Bypass TAP Traffic Flow

Bypass Mode: Active In-Line
Router Switch
TAP
In-Line **Appliance**

Bypass Mode: Off-Line
Router Switch
TAP
Out-of-band **Appliance**

Power loss
Router Switch
TAP
Out-of-band **Appliance**
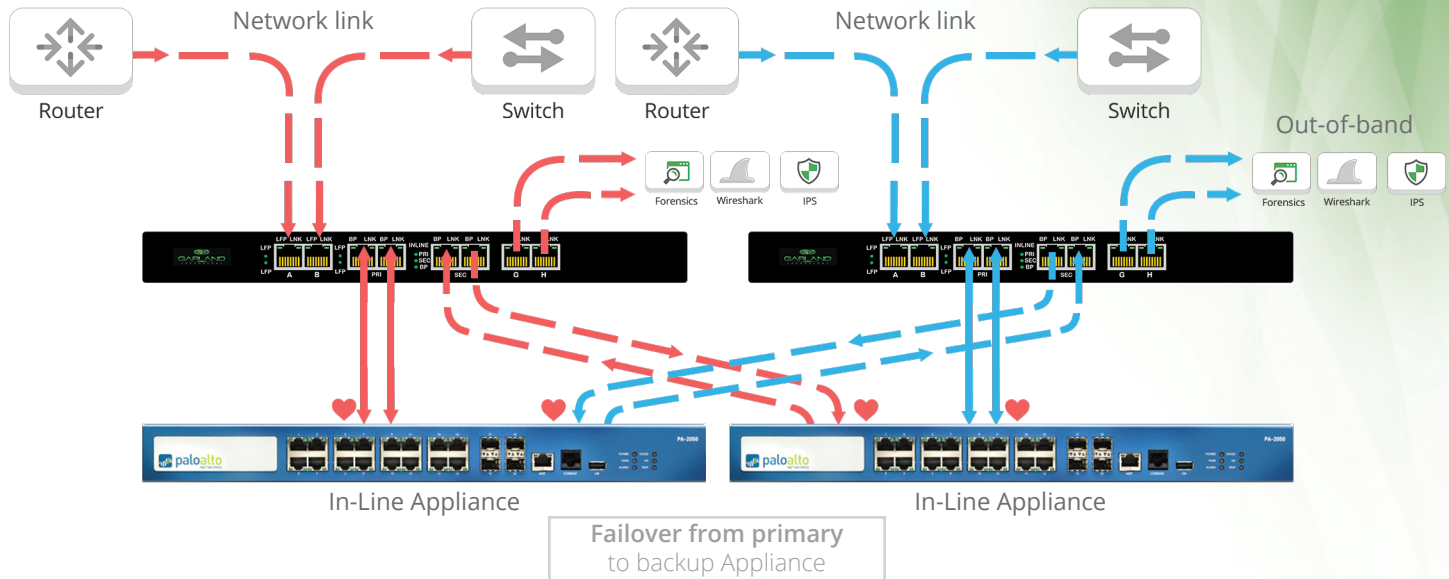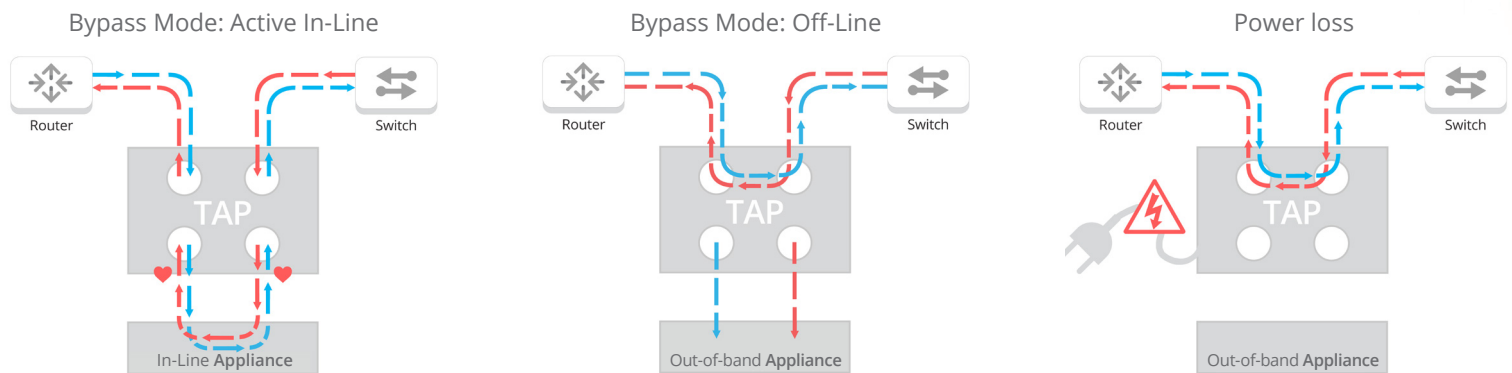
Applications

> A 1G high availability component failover matrix solution

> Take your Palo Alto appliance offline without interrupting data traffic for:
> • Updates
> • Maintenance
> • Troubleshooting

> Full redundancy for multiple units - failover to second appliance should the primary fail

> TAP is fully configurable and supports multiple modes:
> • Breakout mode
> • Bypass mode
> • Aggregation mode
> • Regenration mode

NOTE: This solution is also available in 10Gigabit with the Garland Technology EdgeLens®
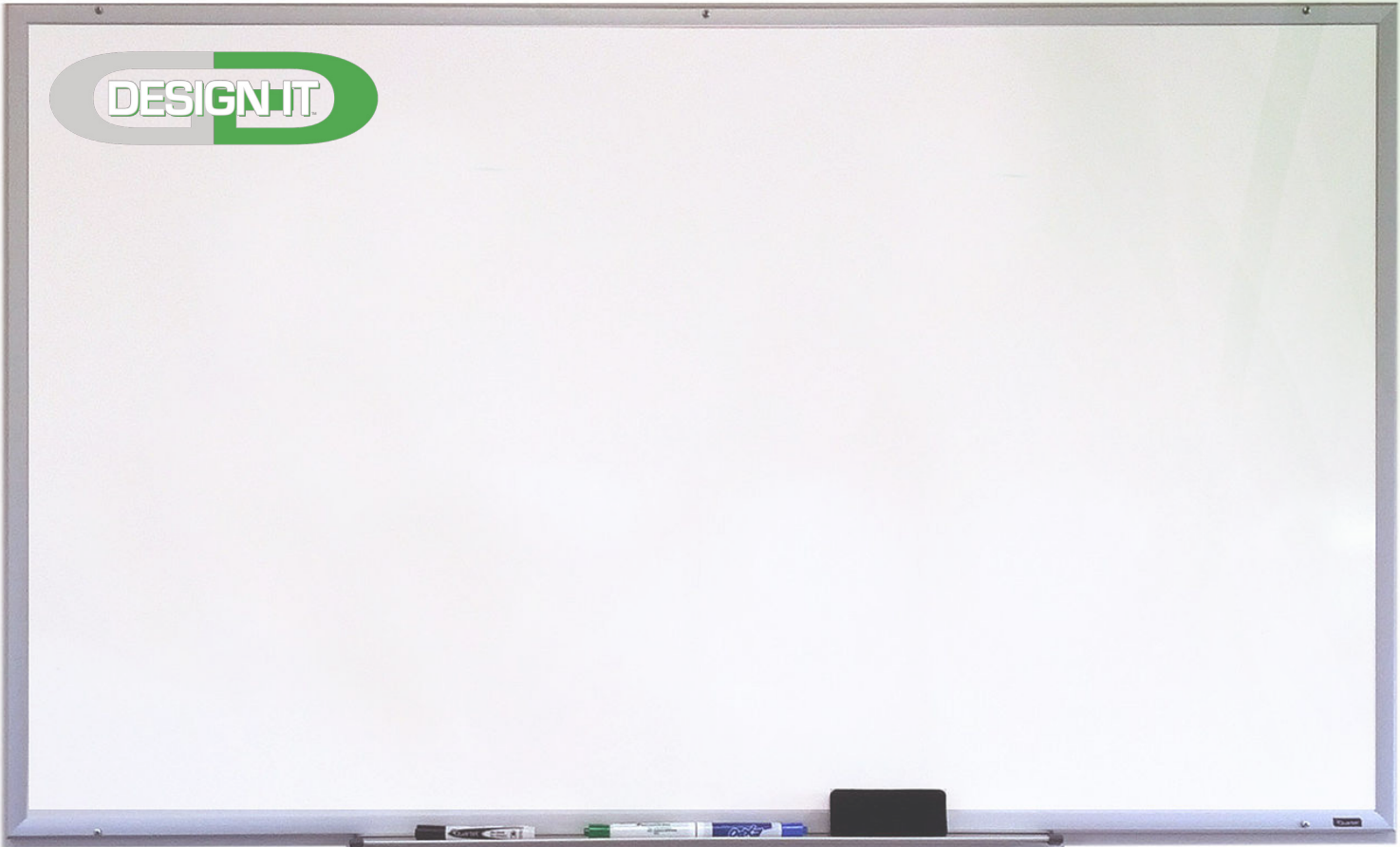
Heartbeat Packets ♥

Heartbeat packets are sent out of each monitoring port. If the heartbeat packets are not received from either direction, then Bypass Mode takes effect. Heartbeat packets are never sent on the live network.

Have Questions?

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High Availability Crossfire Design

Part Numbers and Ordering Information

Palo Alto Parts for this solution:
PA-2050
PA-2020
PA-500
PA-200

Garland Technology Ordering Information:

Part Number	Description
1U Integrated Bypass Systems:	
INT1G8CCBP	1U Integrated Copper to Copper Bypass TAP (2) 100/1000 Copper TAP Ports (A, B) (6) 100/1000 Copper Monitoring Ports (C - H) Monitoring Ports C - F support Breakout, Bypass modes Monitoring Ports G - H support Breakout, Aggregation modes
INT1G8MCBP	1U Integrated Multi-Mode to Copper Bypass TAP (2) 1000Base-SX Multi-Mode TAP Ports (A, B) (6) 100/1000 Copper Monitoring Ports (C - H) Monitoring Ports C - F support Breakout, Bypass modes Monitoring Ports G - H support Breakout, Aggregation modes
INT1G8SCBP	1U Integrated Single-Mode to Copper Bypass TAP (2) 1000Base-:X Single-Mode TAP Ports (A, B) (6) 100/1000 Copper Monitoring Ports (C - H) Monitoring Ports C - F support Breakout, Bypass modes Monitoring Ports G - H support Breakout, Aggregation modes