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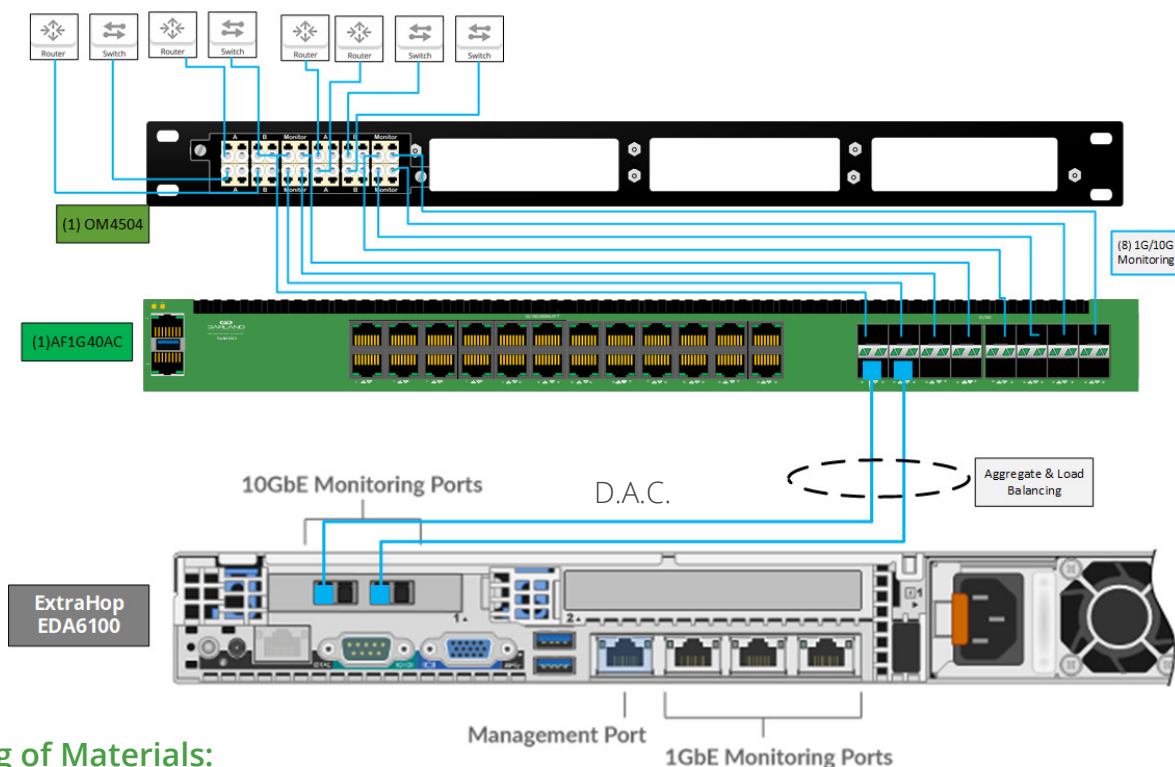sales@garlandtechnology.com

ExtraHop Bundle Start-Up Guide

Garland Technology's TAP to Aggregation integration with ExtraHop Monitoring Tool.
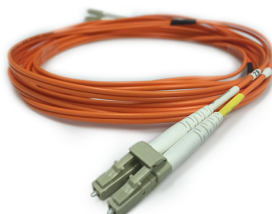
Fiber Deployment

(4) 1G/10G Multi-mode Fiber Passive TAPs Aggregates and Load-balances to (2) 10G-SR monitoring port

(1) OM4504

(8) 1G/10G Monitoring

(1)AF1G40AC

10GbE Monitoring Ports

D.A.C.

Aggregate & Load Balancing

ExtraHop EDA6100

Management Port

1GbE Monitoring Ports

Building of Materials:

QTY	Product
1	RMP 1U (Rack Mount Plate)
1	OM4504 (Fiber Network Quad TAP)
1	AF1G40AC (Advanced Features 1G Aggregator)
8	SFP+ SR10G
2	PCUSA13 (Power Cord USA)
2	TWINAX3M
8	LC-LCOMM4_3
4	LC-LCOMM4_3Y

Direct Attach Cable (D.A.C.)

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ExtraHop Bundle Start-Up Guide

Fiber TAP Port Relationship

Monitoring Device(s)

IDS | Lawful Intercept | Forensics | APM | Network Packet Broker | Network Analyzer
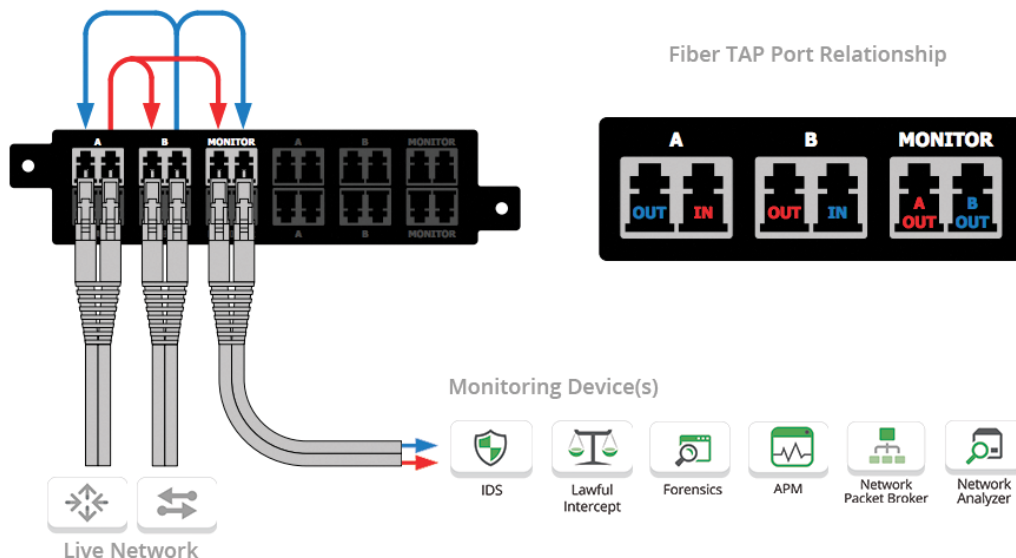
Live Network

Installation

Cabling:

- Port A is a full-duplex fiber TAP port that should be connected to one of the two network devices where network monitoring is desired.
- Port B is a full-duplex fiber TAP port that should be connected to the other side or adjacent network device where network monitoring is desired.
- MONITOR Port is a dual-simplex directional port (both sides are output only) which should be connected to the input to receive only side of two interfaces of any monitoring devices that will collect the tapped traffic
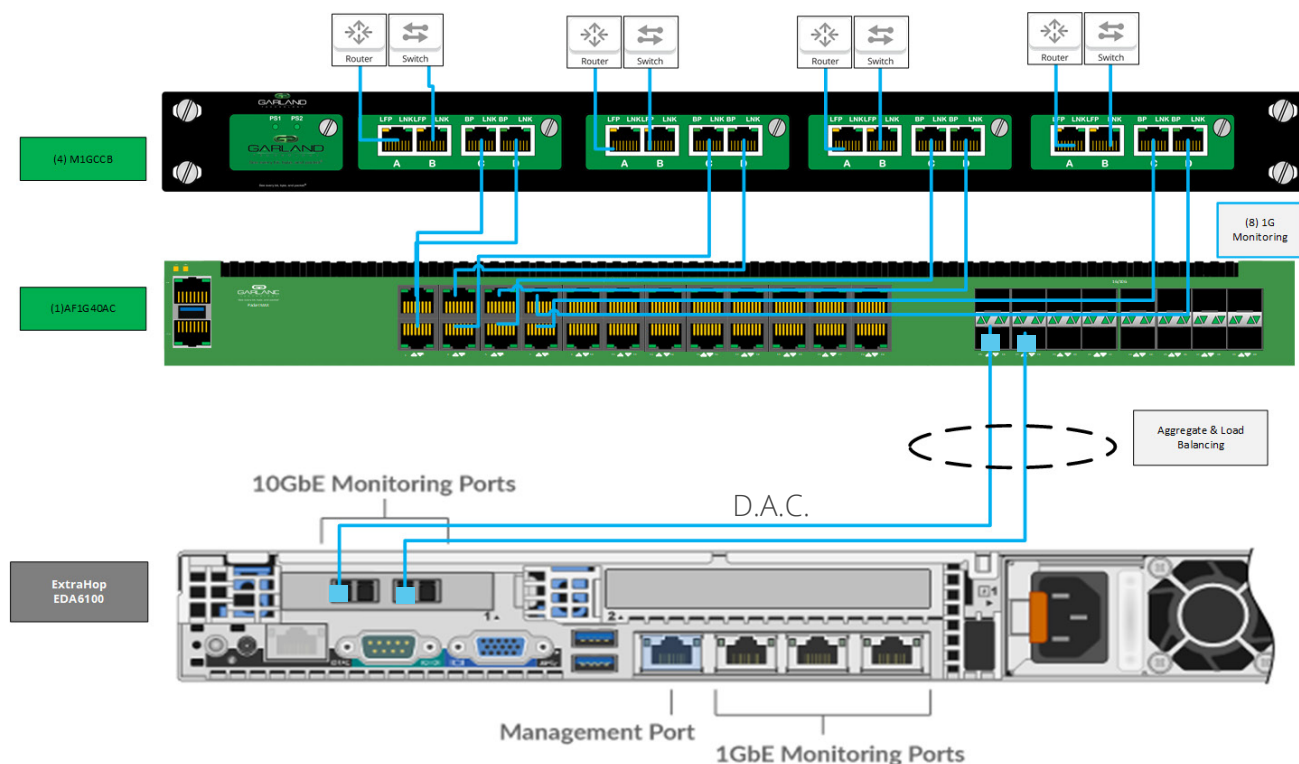
Link to Fiber Network TAP install guide:
https://www.garlandtechnology.com/hubfs/Assets/Library_Assets/Resources/Installation_Guides/Garland-InstallGuide-PassiveFiberModularChassis.pdf?t=1515782878466&hsLang=en-us

ExtraHop Bundle Start-Up Guide

Copper Deployment

(4) 1G Copper Breakout TAPs Aggregated and Load-Balanced to (2) 10G-SR Monitoring Port

Building of Materials:

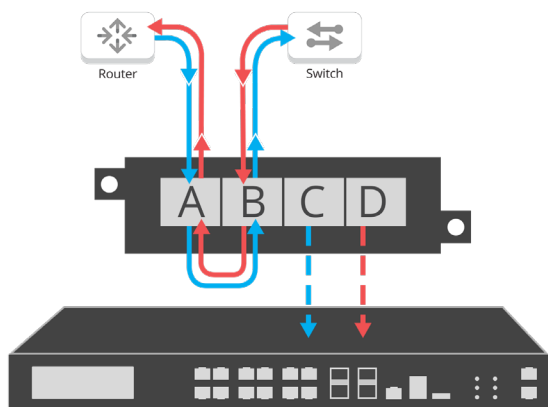| QTY	Product
1	M1GACE (Chassis 1U up to 4 TAPs)
1	M1GL (LED Console Port)
4	M1GCCB (1G Copper TAP)
1	AF1G40AC (Advanced Features Aggregator)
4	PCUSAC13 (Power Cord USA)
16	RJ-RJCAT6_3 (Copper Cables)
2	TWINAX3M

Direct Attach Cable (D.A.C.)

ExtraHop Bundle Start-Up Guide

Breakout TAP Mode

Link to Modular Copper Network TAP install guide:
https://www.garlandtechnology.com/hubfs/Assets/Library_Assets/Resources/
Installation_Guides/M1GxxCE%20Modular%20Aggregating%20and%20Filtering%20TAP%20
Installation%20Guide%20ver%201.6%206-13-2017.pdf?t=1503409297554&hsLang=en-us

ExtraHop Bundle Start-Up Guide

Configuration of the Advanced Features Box

AF1G40AC GUI Device Summary Window:
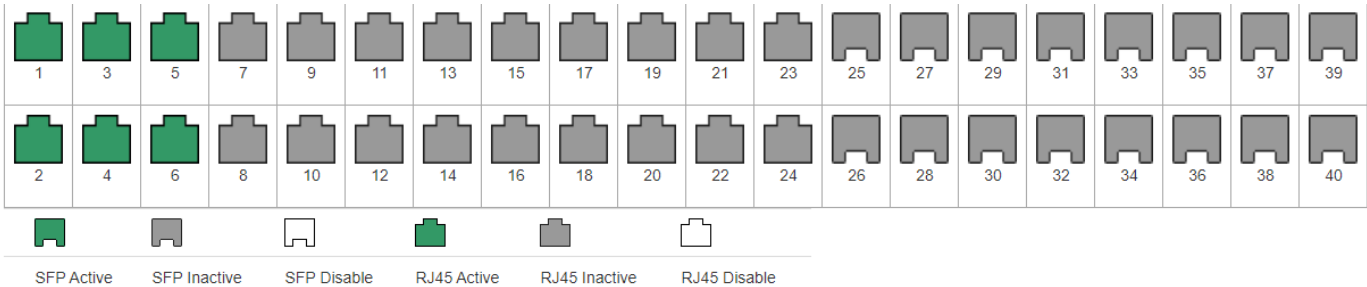
Product ID	PacketMAX-AF1G40AC		Hardware Version	2.1
Device Name	Switch		BootRom Version	A.1.7
Serial Number	E254GD19C03C		EPLD Version	1.1
Software Version	AggregatorOS-3.0.5.r1		MAC Address	f093.c5f1.5995
Image Name	AggregatorOS-AF1G40AC-v3.0.5.r1-en.bin		Uptime	0 days, 23 hours, 6 minutes

Build Link Aggregation Groups

Build Ingress Aggregation Group From Taps by Selecting Ports 1-8 (connected to fiber or copper TAPs) :

Port Configuration

✖ Cancel

Link Aggregation Name   agg 1

☑ eth-0-1   ☑ eth-0-2   ☑ eth-0-3   ☑ eth-0-4   ☑ eth-0-5   ☑ eth-0-6
☑ eth-0-7   ☑ eth-0-8   ☐ eth-0-9   ☐ eth-0-10   ☐ eth-0-11   ☐ eth-0-12

Completed Ingress Aggregation Group:

Port Configuration

➕ Add   ⚙ Load Balance Mode

☑	#	Link Aggregation Name	Load Balance Mode	Protocol	Group State	Ports in Bundle	Member Ports	Max Ports
☐	1	agg1	round-robin	static	L2	1	eth-0-1 eth-0-2 eth-0-3 eth-0-4 eth-0-5 eth-0-6 eth-0-7 eth-0-8	16

ExtraHop Bundle Start-Up Guide

Build Egress Aggregation Group by Selecting Ports 26 & 28 To ExtraHop Device:

Completed Egress Aggregation Group:

Create TAP Group Mappings Between agg1 & agg2 :

Select 'agg1' for Ingress:

ExtraHop Bundle Start-Up Guide

ExtraHop   ✕

| **☰ Ingress** | **☰ Egress** | | | | | | | | | **+ Add** |

#	Port	Flow Match	Untag	Vlan mark	Truncation	Edit-macda	Edit-macsa	Edit-ipda	Edit-ipsa	Edit-vlan	Options
1	agg1	N/A	Disable	N/A	Disable	N/A	N/A	N/A	N/A	N/A	🗑

✕ Close

Select 'agg2' for Egress:

ExtraHop   ✕

Direction	egress ▾
Port	agg2 ▾
Timestamp	off

✔ OK   **✕ Close**

ExtraHop   ✕

| **☰ Ingress** | **☰ Egress** | | **+ Add** |

#	Port	Timestamp	Options
1	agg2	NO	🗑

✕ Close

Finished TAP group:

Tap Group Statistics   **+ Add Tap Group** **⚙ Truncation** **⚙ Timestamp**

#	Tap Id	Tap Group Name	Tap Group Description	Tap Group truncation	Options
1	1	ExtraHop	N/A	NO	🗑