Introduction to TAPS

A guide to monitoring data traffic with Network Taps

What is a TAP

Taps are network device placed directly in-line on a network link. Copies of all traffic are then available for various types of monitoring tools.

Why use TAPS

- Secure 24/7 access for network tools to monitor and collect data
- Fiber taps are passive devices and copper taps are power fault tolerant, greatly reducing risk of single point of failure
- Unlike SPAN ports, taps do not impact network switch performance

Who Needs TAPs

Any organization with:

- Mission critical links that need 24x7 security monitoring
- Compliance requirements requiring uninterrupted data collection
- A need to non-intrusively access links wwwwith portable tools for troubleshooting

Standard or Aggregation?

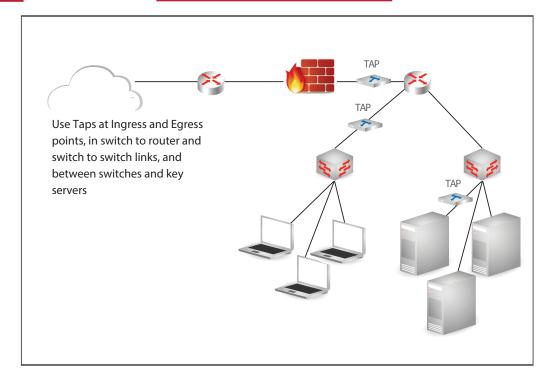
Use a standard duplex tap when:

- Link has aggregate utilization spiking over 50%
- It is useful to see the Rx and Tx sides of the duplex conversation separately
- Monitoring tool has dual capture NICs and capability to recombine the data
- Tap monitor ports will be handed off to a Network Packet Broker for aggregation

Use an aggregation tap when:

- Monitoring tool has a single capture NIC but both sides of conversation must be seen
- Aggregate link utilization is typically always below 50%
- There is a need for both aggregated and non-aggregated output (aggregation Taps can be configured for either or both)
- Media conversion is needed tap fiber links and send to copper tools or tap copper links and send to fiber tools

Where to place TAPs





		Link			Тар		1	
Product	Photograph	Media Type	Speed	Inline	assembly port pairs	Monitor Ports	Port Types**	Agg
10-100 AT	To State of the St	Copper	10/100	Yes	1	2	10/100 RJ45: 1 Tap pair and 2 Monitor ports	No
CTP-1000	CIP-1000 AMERICAN AMERIC	Copper	10/100/ 1000	Yes	1	2	10/100/1000 RJ45: 1 Tap pair and 2 Monitor ports 100 Mbps RJ45: Management port Serial DB9F: rear console port	Yes
FTP 1000 Series	Tide Line with the second seco	Fiber	1G/10G	Yes	1	2	LC , SC or MTP/MPO 50/50 or 70/30 split ratio 50, 62.5 or 9 Micron	No
FTP 2000 Series	10 Gigabit Dual FIBER <i>tap</i>	Fiber	1G/10G	Yes	2	2	LC 50/50 or 70/30 split ratio 50, 62.5 or 9 Micron	No
FTP 4000 Series	10 Gigabil Guad Fillerrop	Fiber	1G/10G	Yes	4	4	LC 50/50 or 70/30 split ratio 50, 62.5 or 9 Micron	No
Modular FIBERtap System	7999999999999999999	Fiber	1G, 25G 40G, 100G	Yes	Accepts 1 to 24 modules for up to 24 Tap port pairs	Accepts 1 to 24 modules for up to 48 Monitor ports (one Rx/Tx pair per link)	LC 50/50 or 70/30 split ratio 50, 62.5 or 9 Micron Also available in MTP for 40GSR and 100G SR links	No
SS1204BT-BT-S	SNOCKER OF STANDARD S	Copper Input Copper Output	10/100/ 1000	Yes	1	2	10/100/1000 RJ45: 1 Tap pair and 2 Monitor ports 100 Mbps RJ45: Management port Serial DB9F: rear console port	Yes
SS1204BT- SFP-S	SINGLE From S-1704BT-SFPS SINGLE From S-1704BT-SFPS DETACOM S-1704BT-SFPS DETACOM S-1704BT-SFPS DETACOM S-1704BT-SFPS SINGLE From S-1704BT-SFPS SIN	Copper Input. SFP Out- put	10/100/ 1000	Yes	1	2	10/100/1000 RJ45: 1 Tap pair SFP: 2 Monitor ports 100 Mbps RJ45: Management port Serial DB9F: rear console port	Yes
SS1204SX-BT-S	SMGLEstreen S-1204SX-8T-S ORNALED AND Last 1. Sec. 1.	Fiber Input. Copper output	1G	Yes	1	2	1G SX LC: 1 Tap pair 100/1000 RJ45: 2 Monitor ports 100 Mbps RJ45: Management port	Yes
SS2206BT-BT-S	SingLarream \$5,22068F 6F 5	Copper Input Copper Output	10/100/ 1000 Full Duplex	Yes	2	2	10/100/1000 RJ45: 2 Tap pairs and 2 Monitor ports 100 Mbps RJ45: Management port Serial DB9F: rear console port	Yes
SS2206SX-SFP	SONGE Stream SS-22003S-SSP. STATISTICS STATIST STATI	Fiber Input. SFP Output	1G Full Duplex	Yes	2	2	1G SX LC: 2 Tap pairs SFP: 2 Monitor ports 100 Mbps RJ45: Management port	Yes
SS2210BT-BT/ SFP-S	SNGLtarreem SS 22100181/SPS	Copper Input, SFP or Copper Output	10/100/ 1000 or 1GFull Duplex	Yes	2	6	10/100/1000 RJ45: 2 Tap pairs and 4 Monitor ports SFP: 2 Monitor ports 100 Mbps RJ45: Management port Serial DB9F: rear console port	Yes
SS4210BT- SFP-S	SNGLEstrom SS-421001549-5	Copper Input SFP Out- put	10/100/ 1000 or 1G Full Duplex	Yes	4	2	10/100/1000 RJ45: 4 Tap pairs SFP: 2 Monitor ports 100 Mbps RJ45: Management port Serial DB9F: rear console port	Yes

Notes:

Each network tap port pair shown on this page will tap one network link, 2 port pairs will tap 2 links, etc... Refer to product FASTstart guides for details on installation. See datasheets for specific fiber types, connector types and split ratios available. Split ratios 50/50 and 70/30 are commonly used, other variations are available.

Network Taps are used in-line in network links, to provide non-intrusive monitoring access

Product Number	Photograph	Media type	Speeds	Inline	Tap assembly port pairs	Monitor Ports	Port Types**	Aggregation
SS-G4C8C4S		Copper taps; copper and SFP+ monitor ports	100/1000 links; 100/1000 and 10G/10G monitor ports	Yes	4	12	100/1000 RJ45: 4 Tap pairs and 8 Any-to-Any ports SFP+: 4 Any-to-Any ports 100 Mbps RJ45: Management port USB: front console port	Yes
SS-G6C4C4S	E H H H H H H H H H	Copper taps; copper and SFP+ monitor ports	100/1000 links; 100/1000 and 1G/10G monitor ports	Yes	6	8	100/1000 RJ45: 6 Tap pairs and 4 Any-to-Any ports SFP+: 4 Any-to-Any ports 100 Mbps RJ45: Management port USB: front console port	Yes
SS-G8C4S		Copper taps; SFP+ monitor ports	100/1000 links; and 1G/10G monitor ports	Yes	8	4	100/1000 RJ45: 8Tap pairs SFP+: 4 Any-to-Any ports 100 Mbps RJ45: Management port USB: front console port	Yes
TS-1404	The state of the s	Fiber	1G/10G	Yes	1	2	1 10G/1G Network Tap. 2 Monitoring 10G/1G Any-to-Any. Management RJ45. Serial DB9F	Yes
TS-1406	The state of the s	Fiber	1G/10G	Yes	1	4	1 10G/1G Network Tap. 4 Monitoring 10G/1G Any-to-Any. Management RJ45. Serial DB9F	Yes
TS-2408	TE LOS	Fiber	1G/10G	Yes	2	4	2 10G/1G Network Tap. 4 Monitoring 10G/1G Any-to-Any. Management RJ45. Serial DB9F	Yes

Nootes:

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