EcoTap

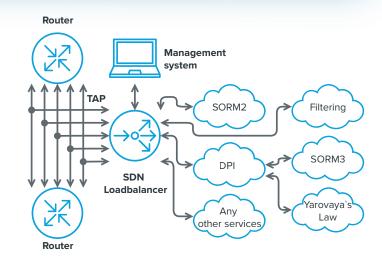


pre-filtering, modification, distribution and transmission of traffic at terabit speeds



## The solution on the "traffic copy" allows from one point of presence to carry out:

- DPI analysis for the needs of operational-search measures;
- URL filtering;
- Provide opportunities for long-term storage of traffic metadata;
- Provide opportunities for redirecting information flows regarding AntiDDoS solutions;
- Any other traffic analysis with third-party services.



## EcoSwitch Series 1020 1032 2065

Throughput         Up to 2.8 Tbps         Up to 3.2 Tbps         Up to 6.4 Tbps           Forwarding capacity         Up to 2.0 Bpps         Up to 4.7 Bpps         Up to 9.5 Bpps           Standard 19" rack mount         1U         2U           QSFP28 transceivers cages         8         32         65           SFP28 transceivers cages         48         -         -           Packet buffer         22 MB         -         -           System memory         SCP -120 GB         SSD 1.20 GB         -           SD/CF memory         SSD 8-120 GB         SSD 1.20 GB         -           CPU         Intel Xeon D-1527         Intel Pentium D           Serial console         1 x RJ-45         -           Management port         1 x 1000BASE-T         -           Redundant power supply         2 x 550W         2 x 600W         2 x 1,100W           Typical consumption with all active ports         504W         476W         1024W           Hot-swappable fans         4         5         10           Operating temperature         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -					
Standard 19" rack mount         1U         2U           QSFP28 transceivers cages         8         32         65           SFP28 transceivers cages         48         -         -           Packet buffer         22 MB           System memory         8GB DDR4           SD/CF memory         SSD 8-120 GB         SSD 120 GB           CPU         Intel Xeon D-1527         Intel Pentium D           Serial console         1 x RJ-45           Management port         1 x 1000BASE-T           Redundant power supply         2 x 550W         2 x 600W         2 x 1,100W           Typical consumption with all active ports         504W         476W         1024W           Hot-swappable fans         4         5         10           Operating temperature         0 °C 40 °C           Storage temperature         -40 °C 70 °C           Operating humidity         5 % to 95 % non-condensing           Operating altitude         0 to 10,000 feet	Throughput	Up to 2.8 Tbps	Up to 3.2 Tbps	Up to 6.4 Tbps	
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CPU Intel Xeon D-1527 Intel Pentium D  Serial console 1 x RJ-45  Management port 1 x 1000BASE-T  Redundant power supply 2 x 550W 2 x 600W 2 x 1,100W  Typical consumption with all active ports 504W 476W 1024W  Hot-swappable fans 4 5 10  Operating temperature 0 °C 40 °C  Storage temperature -40 °C 70 °C  Operating humidity 5 % to 95 % non-condensing  Operating altitude 0 to 10,000 feet	System memory	8GB DDR4			
Serial console $1 \times RJ-45$ Management port $1 \times 1000BASE-T$ Redundant power supply $2 \times 550W$ $2 \times 600W$ $2 \times 1,100W$ Typical consumption with all active ports $504W$ $476W$ $1024W$ Hot-swappable fans $4$ $5$ $10$ Operating temperature $0  ^{\circ}C  40  ^{\circ}C$ Storage temperature $-40  ^{\circ}C  70  ^{\circ}C$ Operating humidity $5 \% \text{ to } 95 \% \text{ non-condensing}$ Operating altitude $0 \text{ to } 10,000 \text{ feet}$	SD/CF memory	SSD 8-120 GB	SSD 1	120 GB	
Management port $1 \times 1000 \text{BASE-T}$ Redundant power supply $2 \times 550 \text{W}$ $2 \times 600 \text{W}$ $2 \times 1,100 \text{W}$ Typical consumption with all active ports $504 \text{W}$ $476 \text{W}$ $1024 \text{W}$ Hot-swappable fans $4$ $5$ $10$ Operating temperature $0  ^{\circ}\text{C}  40  ^{\circ}\text{C}$ Storage temperature $-40  ^{\circ}\text{C}  70  ^{\circ}\text{C}$ Operating humidity $5  ^{\circ}\text{to}  95  ^{\circ}\text{mon-condensing}$ Operating altitude $0  ^{\circ}\text{to}  10,000  \text{feet}$	CPU	Intel Xeon D-1527	Intel Pe	ntel Pentium D	
Redundant power supply2 x 550W2 x 600W2 x 1,100WTypical consumption with all active ports504W476W1024WHot-swappable fans4510Operating temperature0 °C 40 °CStorage temperature-40 °C 70 °COperating humidity5 % to 95 % non-condensingOperating altitude0 to 10,000 feet	Serial console	1 x RJ-45			
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Operating humidity 5 % to 95 % non-condensing Operating altitude 0 to 10,000 feet	Operating temperature	0 °C 40 °C			
Operating altitude 0 to 10,000 feet	Storage temperature	-40 °C 70 °C			
	Operating humidity	5 % to 95 % non-condensing			
Weight         9,5 kg         10.0 kg         14.3 kg	Operating altitude	0 to 10,000 feet			
	Weight	9,5 kg	10.0 kg	14.3 kg	

### What is pre-filter for?

- A passive optical splitter is installed on the link between two devices of the Operator, which transmits a copy of the traffic from this link to the analyzer;
- Depending on the task being solved by the analyzer, only Upstream traffic, only Downstream traffic or traffic of two directions simultaneously can be transmitted to it;
- The traffic analyzer should have sufficient performance in order to isolate from all traffic coming to it only one that requires further processing or analysis;
- With increasing traffic, the Operator is forced to install more and more expensive analyzers to cope with the growing load.

## Upstream traffic Splitter Downstream traffic Analyzer

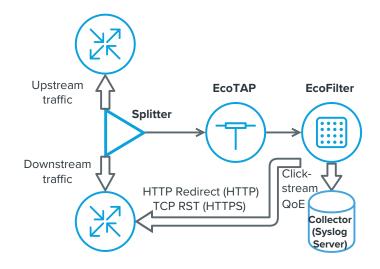
## **Using pre-filtering**

- To reduce the load on the analyzer, it is necessary to install a filter in front of the analyzer, which will discard the traffic that is not interesting to it;
- Routers are sometimes used as prefilters, comparable in performance with those whose traffic from the link is removed for analysis;
- Sometimes, dedicated servers are placed in front of the analyzer that are comparable in performance with the analyzers themselves, but whose task is exclusively to filter out "excess" traffic:
- EcoTap solution by RDP company allows you to effectively solve the problem of traffic prefiltration.

# Upstream traffic Splitter Downstream traffic Filter Analyzer

## **EcoFilter sharing option**

- Passive optical splitter removes all Upstream and Downstream traffic;
- EcoTap performs pre-filtering;
- EcoFilter analyzes the traffic coming to it to solve the following tasks:
  - URL-filtering of prohibited resources in the ILV registry;
  - Collection and uploading of Clickstream statistics;
  - Collection and upload of Quality of Experience (QoE) metrics.





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