



# *Smart Network Access System*

## SmartNA 10 Gigabit Aggregating Filtering TAP



### Gain Access and Visibility to your 10 Gigabit Links Today!

- 10 Gigabit SR or LR Passive Optical TAP or connect two (2) 10 Gigabit SR or LR SPAN / Mirrored Ports
- Two (2) 10 Gigabit directional monitoring ports with optional filtering or One (1) Aggregated 10 Gigabit monitoring port with optional filtering
- Two (2) 1 Gigabit aggregated monitoring ports with optional filtering

#### Features

- Fail-safe technology LinkLock
- 100% real time traffic visibility
- 1 Gigabit monitoring ports
- Complete packet inspection
- Classifies traffic and allows individual filtering on each monitoring port
- Time stamp available on 1 Gigabit monitoring ports
- Managed using secure web browser
- Collect one-second internal statistics
- Built-in and user-defined graphs
- View remotely over web browser

#### Benefits

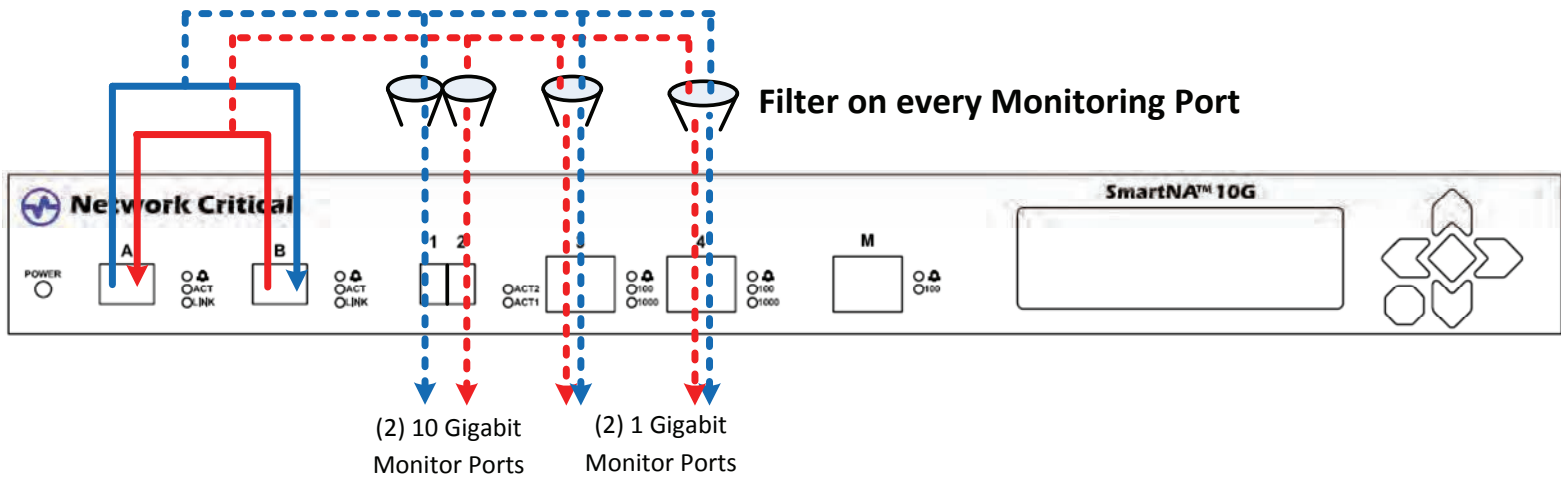
- Assures no disruption of network traffic, even if power is lost to the unit
- Layer 1 and layer 2 errors are passed through to monitoring tools for more complete results
- Use 1 Gigabit monitoring tools to analyze your 10 Gigabit links
- Does the filtering so your analysis tool doesn't have to
- Most comprehensive enterprise filtering solution on the market
- Accurate time-stamping allows accurate results
- Completely secure solution
- Monitor performance on-the-fly
- Allow you to see your network performance without an additional tool
- Local or remote access allows flexibility

**Don't get phased out! Continue using your 1 Gigabit tools to monitor your 10 Gigabit links with this innovative technology.**

# SmartNA 10 Gigabit Aggregating Filtering TAP

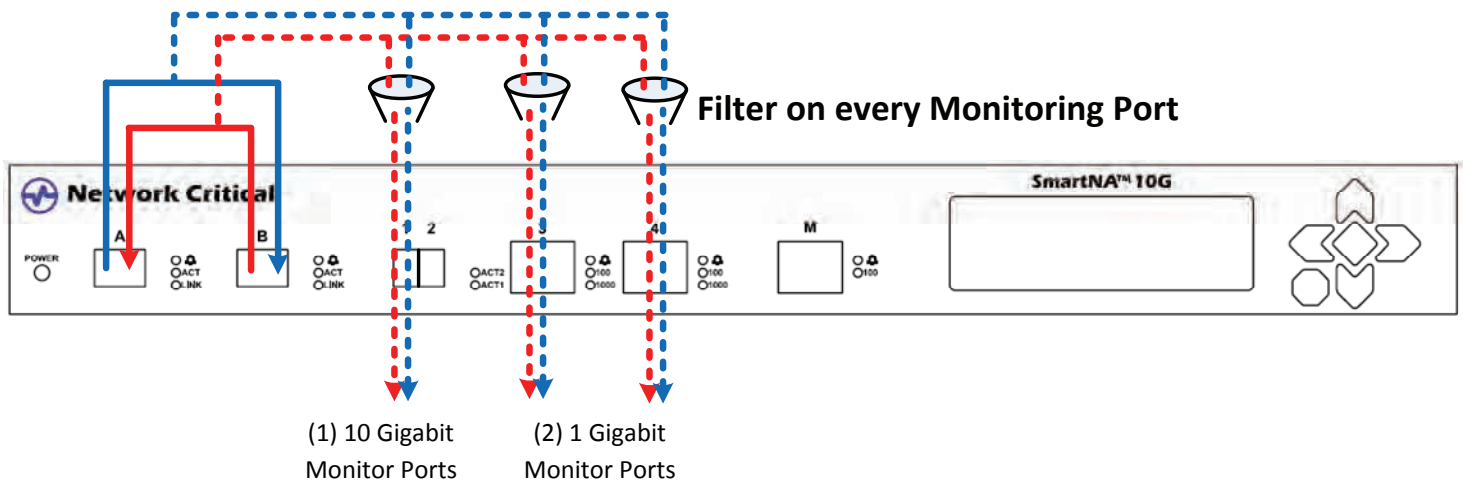
## Configuration 1: TAP a 10 Gigabit SR/LR Link or Connect two (2) 10 Gigabit SR/LR SPAN Ports

Monitoring Port Configurations: Two (2) 10 Gigabit Directional Monitoring Ports and two (2) 1 Gigabit Configurable Aggregated Monitoring Ports all with Filtering Capabilities



## Configuration 2: TAP a 10 Gigabit SR/LR Link or Connect two (2) 10 Gigabit SR/LR SPAN Ports

Monitoring Port Configurations: One (1) 10 Gigabit Aggregated Monitoring Ports and two (2) 1 Gigabit Configurable Aggregated Monitoring Ports all with Filtering Capabilities



## SmartNA 10 Gigabit Aggregating Filtering TAP

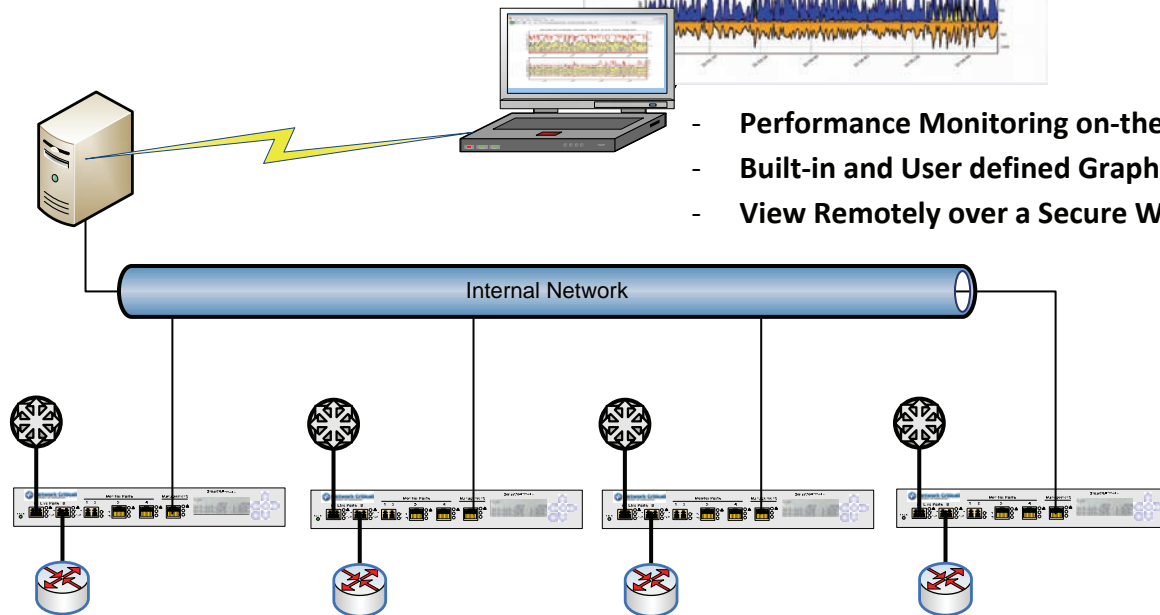
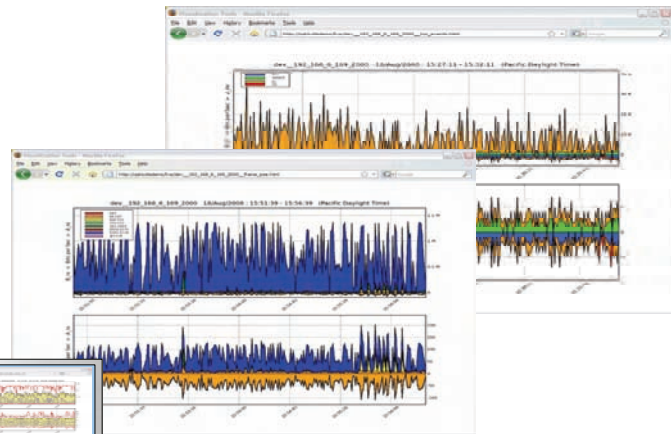
### Performance, Visualization, and Behavioral Analysis

Collect 1 Second Internal Data from all Smart 10 Gigabit TAP

#### Data Aggregation & Visualization

Collect 1 second interval data from all SmartNA 10 Gigabit TAPs to a Linux or Windows Server / PC

Export Data in CSV to Excel to your Analysis tools



- Performance Monitoring on-the-fly
- Built-in and User defined Graphs
- View Remotely over a Secure Web Browser

**Gain instant access to your 10 Gigabit traffic without installing a single Network Monitoring Tool.**

**Sane Deliberate Growth & Planning for 10 Gigabit Network Segments based on actual statistics.**

# SmartNA 10 Gigabit Aggregating Filtering TAP

Filtering traffic will eliminate the concern of oversubscribing monitoring output ports when traffic utilization is excessive.

- Enable up to 16 user definable filters with statistics
- Powerful yet simple filters provide instant feedback when applied
- Comes equipped with 30 built-in network behavioral counters

- Pattern searching and intuitive sting filtering can be done from anywhere inside the payload

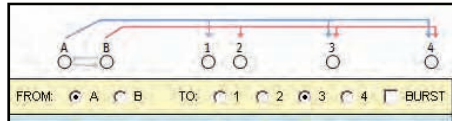
- Filters compatible with IP version 6

- Use up to three payload searches per string filter

# SmartNA 10 Gigabit Aggregating Filtering TAP

View real-time rates, up to the minute statistics and cumulative traffic statistics, all using a secure web browser.

- Flexible traffic mapping



- Detailed network and filter statistics

Min: (bps)	(pps)	Mean: (bps)	(pps)	StdDev: (bps)	(pps)	Max: (bps)	(pps)
89,960,649	13,723.64	100,553,357	14,715.69	4,988,574	492.94	113,363,040	15,860.65

- Features cumulative counters for each port and filter

Port	Total: (bytes)	(packets)
Receive A	50,394,143,590	87,021,459

- Provides individual port traffic and filter statistics

Port	Current: (bps)	(pps)
Receive A	10,936,551	1,603.26
Receive B	10,842,098	1,603.26
Duplicate 1	0	0
Duplicate 2	0	0
Duplicate 3	9,699,417	806.14
Duplicate 4	0	0

- Shows bandwidth and packet rate statistics per filter profile

Filter Name	Current: (bps)	(pps)	Percentage: (bps)	(pps)
_arp_a	0	0	0	0
_arp_b	0	0	0	0
_icmp_a	1,267,879	816.93	11.6	50.4
_icmp_b	1,249,049	804.80	11.3	49.6
_jpv4_a	10,951,229	1,621.73	100	100
_jpv4_b	11,078,379	1,621.73	100	100

- Download snippets of filtered traffic by using the Burst capture feature.

BURST

Time: Wed Jul 2 16:40:46 2008    Size: 1.5 MB    # Packets: 1029

```

24 0.000666 1.1.1.1 1.1.2.1 UDP Source port: cplscrambler-in (1087), Dst: 1.1.2.1 (1.1.2.1)
25 0.000589 1.1.1.1 1.1.2.1 UDP Source port: cplscrambler-in (1087), Dst: 1.1.2.1 (1.1.2.1)
26 0.000679 1.1.1.1 1.1.2.1 UDP Source port: cplscrambler-in (1087), Dst: 1.1.2.1 (1.1.2.1)
27 0.000645 1.1.1.1 1.1.2.1 UDP Source port: cplscrambler-in (1087), Dst: 1.1.2.1 (1.1.2.1)

Name: 1 (1504 bytes on wire, 1504 bytes captured)
Ethernet II, Src: Private_01:0d:f6 (00:0e:1e:01:0d:f6), Dst: Private_01:0d:f6 (00:0e:1e:01:0d:f6)
Internet Protocol Version 4, Src: 1.1.1.1 (1.1.1.1), Dst: 1.1.2.1 (1.1.2.1)
Transmission Control Protocol, Src Port: cplscrambler-in (1087), Dst Port: cplscrambler-in (1087)
Application/javascript (1458 bytes)

00 0e 1e 01 0c 55 00 0e 1e 01 0d f6 08 00 45 00 .....
05 ce b1 23 00 00 80 11 7e f8 01 01 01 01 01 01 ...#.
02 01 04 3f 41 a7 05 ba ed f1 61 2b 2d 60 5d 76 ...?A
8b 56 38 6a 5e 82 69 2f 27 3b 5f 33 85 5e 23 85 ...v8jA
5e 5f 2d 55 50 21 78 55 24 5f 10 21 25 6f 4b 65 ...A..ud
    
```

# SmartNA 10 Gigabit Aggregating Filtering TAP

## Frequently Asked Questions

- How many filters does the unit have and how many can be applied?
  - There are 30 built-in filters and 16 user definable filters available. Any number of the 16 user-defined filters can be provisioned at one time.
- What are the different types of filters?
  - VLAN:IP:(TCP or UDP) – Ethernet Source/Destination Address, VLAN, IPv4 SRC/DST, TCP/UDP, SPORT/DPORT, two payload searches
  - VLAN:IPV6 – Ethernet Source/Destination Address, VLAN, IPv6 SRC/DST, two payload searches
  - STRING MATCH – Three payload searches that start at the beginning of the packet
- What is Burst Capture?
  - Burst is an 8 second sample capture of traffic. Burst is primarily used to get a sample of data being captured by the filter applied to verify that it is configured correctly. Once captured, the pcap files are available for download from the burst page.
- How does Remote Packet Forwarding work?
  - Remote packet forwarding defines a UDP header, including destination MAC address and UPD port number. Original packets are encapsulated in a UDP tunnel to the specified host.
- Are bad packets passed on to the network appliance or are they filtered out?
  - Unless they are caught by a filter rule, all packets are passed through, whether they are good or bad packets.

Product Specifications	
Size Dimensions (W x H x D)	15.3 in x 1.7 in x 13.1 in / 38.9 cm x 4.3 cm x 33.2 cm
Weight	9 lbs / 4.1 kg
Operating Temperature	+32°F to 104°F / 0°C to +40°C
Operating Relative Humidity	90 % non-condensing
Storage Temperature	-4°F to +158°F / -20°C to +70°C
Power Consumption	60 Watts

Ordering Information
<b>SNA10G – SR</b> – Smart Network Access 10 Gigabit Filtering TAP, Multi-mode 10 Gigabit-SR, Passive Optical TAP, 50 micron with LC connectors, (4) monitoring ports: (2) copper 10/100/1000 RJ-45 Aggregating Monitoring Ports with Deep Packet Filtering, 1U Chassis with Ethernet Management Port, Supports Web Interface or Command Line Interface
<b>SNA10G – LR</b> – Smart Network Access 10 Gigabit Filtering TAP, Single mode 10 Gigabit-LR, Passive Optical TAP, 9 micron with LC connectors, (4) monitoring ports: (2) copper 10/100/1000 RJ-45 Aggregating Monitoring Ports with Deep Packet Filtering, 1U Chassis with Ethernet Management Port, Supports Web Interface or Command Line Interface

To learn more about the Smart Network Access System,  
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