



## Anue 5200 Series Net Tool Optimizer™

Enterprise-Class Network Monitoring Switches  
for the Dynamic Data Center



Product portfolio includes first 40G network monitoring switch on the market

### OPTIMIZE MONITORING TOOLS

- Security (IDS/IPS)
- Data Recorders
- Packet Analysis / Sniffers
- Application Performance Monitors
- VoIP Analyzers
- Data Loss Prevention
- Compliance Auditors

*"...allows us to leverage existing network monitoring infrastructure and avoid network downtime."*

– Chris Lindner  
Director of Tools Engineering at Fiserv

*"...makes managing and troubleshooting our network easier."*

– Bill Baltas  
IT Supervisor at Clark County  
Water Reclamation District

### Problem

Enterprise IT teams frequently face the challenge of flat or shrinking budgets while trying to maintain dynamic, higher performing networks. Data centers typically need a large and growing mix of monitoring tools - each requiring a dedicated network stream and SPAN port or TAP to effectively monitor the network. This shortage of SPAN ports and TAPs forces IT engineers to switch network access from one monitoring tool to another. This dangerous trade-off can lead to gaps in network monitoring visibility and risks in security coverage that ultimately compromises network performance.

### Network Visibility Solution

The Anue 5200 Net Tool Optimizer™ (NTO) series increases monitoring effectiveness and tool utilization. The Anue NTO resides between network SPAN ports or TAPs and the monitoring tools to aggregate, filter and replicate traffic to its respective destination. This system allows engineers to connect monitoring tools to multiple points on the network and increase the productivity of expensive monitoring tools. The 5200 family of network monitoring switches ensures the right traffic is delivered to the right tools to provide complete network visibility.



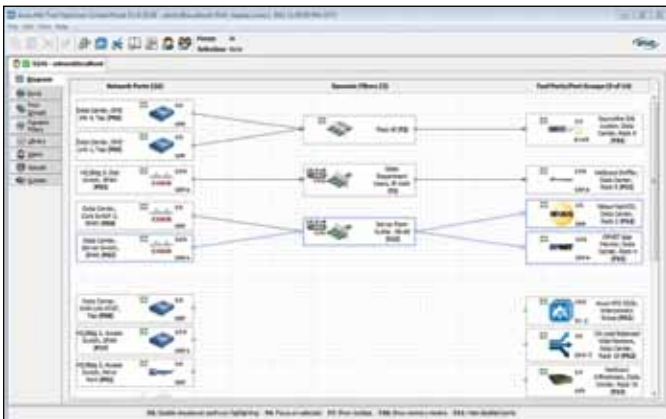
# Net Tool Optimizer™ Highlights

- Leverage an intuitive **drag-and-drop control panel** to distribute network traffic to critical monitoring tools
- **Automatically re-route network traffic** to specific monitoring tools based on suspicious activity or pre-defined network scenarios
- **Monitor 10G network with existing 1G tools** by filtering traffic before sending it to the tools
- **Prevent dropped packets** when aggregating multiple network streams into a single 1G stream ensuring complete packet delivery to the tools
- Automatically **load balance network traffic** across multiple tools when monitoring tools are oversubscribed
- Dramatically improve tool bandwidth by **eliminating redundant data packets** generated from SPAN ports before they reach the monitoring tools
- **Remove MPLS headers** from the packet stream to enable non-MPLS capable monitoring tools
- Boost monitoring tool performance by **trimming payloads from packets** before they arrive to the monitoring tool
- Remotely view and **manage network monitoring topology** without stepping into the wiring closet
- Monitor the NTO's **SNMP statistics** from your network management system
- Manage NTO access with existing **TACACS+ User/Group account** information and granular access control
- Create **filter templates** quickly and standardize traffic to monitoring tools across the enterprise
- Instantly see filtering configuration

## Net Tool Optimizer Features

### ■ DRAG & DROP INTERFACE

The control panel that powers the NTO allows you to easily connect your monitoring tools to their appropriate SPAN ports and TAPs without typing a single CLI command. It is as easy as dragging and dropping virtual connections in the control panel. The NTO handles all of the advanced configuration details behind the scenes, freeing the IT team to focus on their primary responsibilities. Creating advanced filters to route only the critical traffic to your monitoring tools is as easy as choosing from a few options in the control panel.



*Capture Complete Network Visibility*

### ■ PACKET DE-DUPLICATION

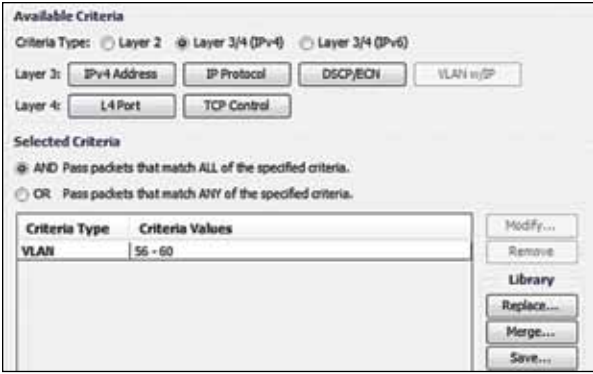
The NTO packet de-duplication feature removes duplicate packets from the input stream. When SPAN or mirror ports are used in a monitoring environment, monitoring tools can often receive multiple copies of the same packets. These duplicate packets waste tool bandwidth and put an unnecessary load on your monitoring tools. By eliminating the duplicate packets, the NTO can double or triple the effective bandwidth to the monitoring tools. In addition, because the monitoring tools are not required to process the same packets more than once, they can run more efficiently.

### ■ EXTENDED BURST PROTECTION

When aggregating data from multiple sources to a single destination port, unexpected traffic bursts may overwhelm the destination port, resulting in dropped packets. The NTO's extended burst protection allows traffic to temporarily exceed the bandwidth available at the monitoring port. This protection can mean the difference between catching a network issue and missing it completely.

### ■ AUTOMATED RESPONSE TECHNOLOGY

Creating network scenarios that will enable the NTO to respond to network changes is easy with our powerful, automated response technology. Now, your network monitoring tools can be as nimble and dynamic as your network.

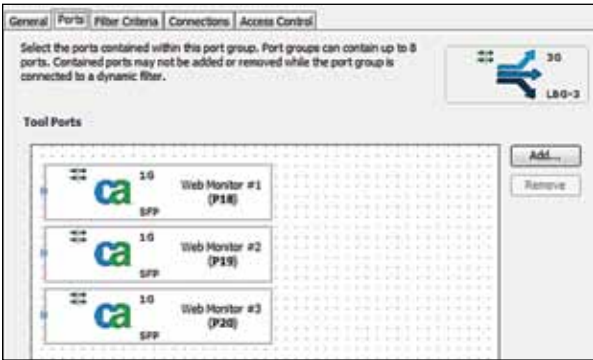


**■ OVERLAPPING FILTER ENGINE (OFE)**

With its advanced overlapping filter calculations, the NTO intelligently ensures that the packets matching multiple filter criteria are successfully and completely delivered to the monitoring appliances that need them. These filters can be created simply by clicking through the intuitive control panel. The Anue NTO is the only network monitoring switch on the market that can ensure the delivery of each packet to its corresponding monitoring tool.

**■ CENTRALIZED FILTER TEMPLATES**

Centralized filter templates allow you to create common filtering scenarios to quickly apply to your monitoring environment. Once filter templates are established, you can apply them to any NTO device, ensuring precise configuration across the network. For example, if the VLAN filter settings for the finance department are changed, you can apply it to all of the monitoring tools that use that filter. In addition, the NTO templates are portable, and can be easily downloaded and shared with other departments also using the NTO.



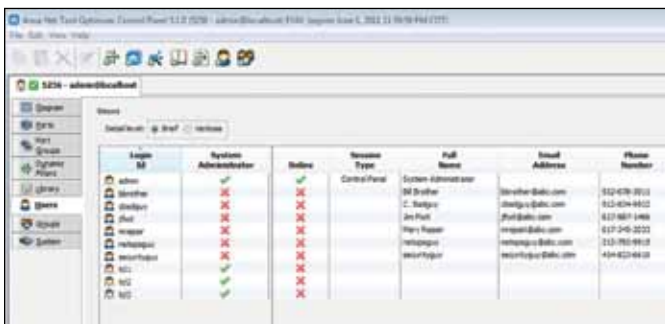
**■ INTELLIGENT LOAD BALANCING**

Improve your network monitoring effectiveness by grouping similar monitoring appliances together using the Anue NTO's intelligent load balancing to specify how network traffic is distributed to each tool. For example, three 1G Web monitors can be pooled together so that up to 3G of traffic can be sent to the pool for distribution, the traffic is then equally split into thirds and distributed to each Web monitor. If one tool goes down, the NTO automatically redistributes the load to the remaining tools, splitting the traffic in half and sending it to each of the two active Web monitors. The intelligent load balancing technology allows you to build a more effective monitoring solution, while leveraging your existing tool infrastructure.

**■ ENTERPRISE MIB ACCESS**

The Anue NTO effortlessly plugs into your existing network management system. Statistics relating to the network monitoring configuration are always available. The Anue NTO supports standard management information bases (MIB) and offers a standard enterprise MIB for the vast array of statistical information generated by the NTO.





**TACACS+ ACCOUNT MANAGEMENT**

You can either use TACACS+ or local authentication for NTO user accounts. As an Anue NTO administrator, you can control which types of ports, monitoring tools and filters are accessible to a particular group or individual user. This fine-grained access control ensures that only the people who need to view specific information have access to it, providing an increased level of internal security to help meet compliance and regulatory requirements. For example, the NTO can be configured so that only the security team sees the monitoring tools designated for them, while the network team has a view limited to their network monitoring tools.

Name	#	Hosts	Filter	Filter	Description	Module	Installed	Link
			Criteria	Criteria		Type		Settings
PG-001, 3, Access Switch, Port	1	Network	Pass all			30-32G	✓	Auto-Configuration
Data Center, SP2000, 6, Top	2	Network	Pass all		Storage	30-32G	✓	30-32G Duplex
PG-001, 3, Core Switch, SP2000	3	Network	Pass all			30-32G	✓	30-32G Duplex
Data Center, Core Switch 2, SP2000	4	Network	Pass all			30-32G	✓	30-32G Duplex
Data Center, SP2000, 6, Top	5	Network	Pass all		Anue Spine off-link	30-32G+	✓	30-32G Duplex
Anue SP2000, 62 SP2000	6	Tool	Pass all			30-32G+	✓	30-32G Duplex
Data Center, Core Switch, SP2000	7	Network	Pass all			30-32G+	✓	30-32G Duplex
Data Center, Core Switch, SP2000	8	Network	Pass all			30-32G+	✓	Auto-Configuration
	9	Tool	Pass all			30-32G+	✓	30-32G Duplex
Miscellaneous, Data Center, Rack	10	Tool	Pass all			30-32G+	✓	30-32G Duplex
Miscellaneous, Data Center	11	Tool	Pass all			30-32G+	✓	30-32G Duplex
Miscellaneous, Data Center, Rack	12	Tool	Pass all			30-32G+	✓	30-32G Duplex
Miscellaneous, Data	13	Tool	Pass all		This is a tool to help me with my nose	30-32G+	✓	30-32G Duplex

**CARRIER-GRADE HARDWARE**

Some IT organizations need the highest degree of availability for all their tools. For these organizations Anue has designed the Anue 5273 with carrier grade hardware that includes redundant power supplies and cooling fans. In order to ensure network visibility despite hardware failures, a redundant management port on the NTO allows for secondary management paths to be created, should either network path go down. The NTO will work in the most rugged environment because it is NEBS Level 3 compliant and was tested for fire resistance, earthquake and vibration resilience.

**SOFTWARE PORT LICENSING**

Managing a corporate network is difficult and the constant pressure to reduce IT budgets does not make it any easier. Consequently, Anue developed its software licensing model that allows you to purchase the exact number of ports needed. This minimizes up-front costs and allows the addition of ports to be quick and easy. If your network grows in the future, just contact Anue Systems for an updated software license key.

**5200 Available Models**

- **5288 – High Density 10G/40G Network Monitoring Switch**  
Advancements in virtualization and server technologies have made 10G Ethernet commonplace in large enterprise data centers, and the transition to 40G Ethernet is not far behind. The Anue 5288 NTO enables large enterprises to monitor an increasing number of 1G, 10G and 40G ports with their existing monitoring tools. It provides up to 64 10G ports or up to 16 40G ports in a 2U form factor, providing an efficient high-density solution for minimized rack space and lowered energy consumption. In addition, the 5288 is designed for high availability, with redundant management ports, power supplies and fan trays.
- **5273 – Service Provider Network Visibility**  
Telecommunication and cable service providers face many challenges monitoring and managing their operational networks. The Anue 5273, a carrier class, NEBS Level 3 compliant system, helps service providers achieve optimal network performance while still meeting increased bandwidth needs required by growing mobile and video content.
- **5236 – Enterprise-Class Network Visibility**  
Designed for networks with 10G architecture, the Anue 5236 NTO empowers network engineers to gain enterprise-class network visibility using their existing infrastructure of monitoring tools without sacrificing performance.
- **5204 – Value-Driven Network Visibility**  
Designed for networks primarily 1G architecture, the Anue 5204 NTO delivers value-driven network visibility to dramatically increase network tool utilization with minimal up front cost and tremendous ongoing savings.

**Summary**

The Anue 5200 Net Tool Optimizer™ (NTO) ensures the right traffic is delivered to the right tools to provide complete network visibility. The NTO resides between network SPAN ports or TAPs and the monitoring tools and enables engineers to connect their monitoring tools to multiple points in the network. The 5200 family of network monitoring switches increase monitoring effectiveness and tool utilization.

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