Gigamon Systems

GigaVUE | Data Access Switch

Gigamon Systems | Intelligent Data Access Networking™

NextGigSystems.com

GigaVUE-2404 | High Density 10G DAN Switch

Gigamon leapfrogs itself and its imitators with the third generation of GigaVUE; the packet aware GigaVUE-2404 high density 10 Gig Data Access Switch.

The GigaVUE-2404 extends the DAN solution to high bandwidth 10 GigE networks. Compatible with Gigamon's industry standard GigaVUE-420, the 2404 makes monitoring your 10G network affordable and easy to manage.

The GigaVUE-2404 evolves from the proven architecture of the industry standard GigaVUE-420 and features up to twenty-four 10 GigE ports and four 1 GigE ports in a low profile 2U chassis. Available 10GigE TAP modules simplify access and further save on hardware cost. The GigaVUE-2404 is scalable and modular, allowing you to configure a DAN solution with as few or as many ports as needed.

Targeted to the most demanding 10G networks, the 2404 extends total visibility across the entire network. Any tool may be connected to any data source at any speed or media at any time.

The GigaVUE-2404 offers the markets most advanced aggregating, replicating, mapping and packet filtering features with 100% full line rate performance to avoid dropping packets.

The system aggregates data from any SPAN port or TAP in the data center to a consolidated tool farm providing instant ROI.

Monitoring tools used for intrusion detection, VoIP, forensic recording and protocol analysis can be deployed immediately without impact to the production network. Traffic from the entire network can now be monitored even across parallel or mesh topologies.

GigaVUE-2404 switches are designed for compatibility with either of Gigamon's other prior generation data access switches—the GigaVUE-420 or the GigaVUE-MP.

- • Aggregation
- • Replication
- • Filtering
- • Supports 1G and 10G tools
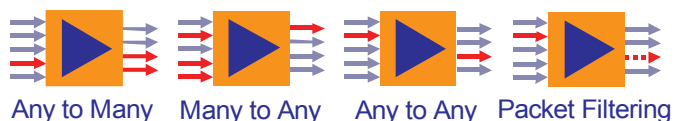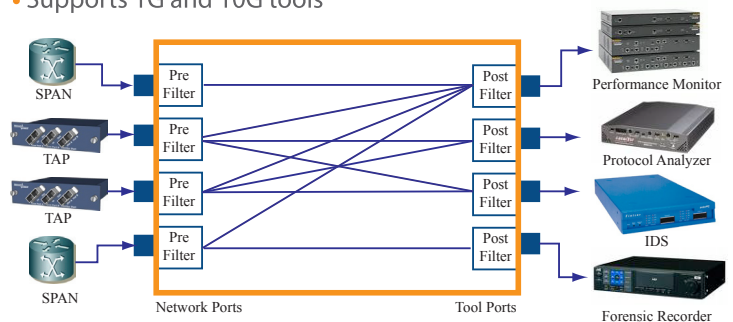
Any to Many   Many to Any   Any to Any   Packet Filtering

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GigaVUE-420

The GigaVUE 420, a 1U rack device, is a modular, packet-aware data access switch that supports all data rate and media choices. It allows users to divide traffic and distribute packets to different GigE or 10 GigE tools according to a variety of power and flexible map and filter rules:

- Any-to-Any Connectivity to solve tool deployment problems

- Aggregate Multiple Links to consolidate tools

- Multicast to Multiple Tools to share data sources

- Intelligently Filter and Divide Loads to customize and manage data to different tool

Hardware filters based on any pattern in the GigaVUE 420 header may be enabled to eliminate unwanted packets. The system can be managed remotely by telnet or SSH2, and authenticated with TACAC+ or RADIUS.

Using the DAN-based GigaVUE 420, network engineers can isolate and captures sessions across parallel links and switches, reducing and customizing data flows to each tool as needed. Tools may be added without affecting the network at any hour, and without configuration management review.

The GigaVUE-420 features four 10G ports & twenty 1G ports. By stacking multiple GigaVUE 420s, engineers can form a high-density access fabric of up to 222 DAN ports, for extensible distribution to monitoring tools.

The GigaVUE 420 family of products include:

- 10-GigaTAP dual fault-tolerant taps for 10G optical links

- GigaTAP dual fault-tolerant taps for 1G cooper optical links

- GigaPORT copper or optical 4-port expansion modules

- GigaLINK copper or optical 10 GigE port modules

For more information on the GigaVUE 420 data access switch, including a product brief and online presentation, please visit www.gigamon.com/gigavue-420.php

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Monitoring 10G Networks

Monitoring your 10G network with a cost effective comprehensive solution is a challenge. Network Managers commonly are faced with data overload, dropped packets and a limited view of the network.

Gigamon has a breakthrough solution, GigaVUE® 2404 high density data access switch, a uniquely powerful monitoring infrastructure solution for today's ultra-fast 10G networks.

GigaVUE products inspect every packet and can provide total traffic visibility and fine-grained filtering at line speed, with near zero latency. By filtering packets from a 10G source users can selectively replicate packets and leverage existing 1G tools.

By providing access optimization, the GigaVUE leverages existing tool investments and overcomes their bandwidth limitations by employing load balancing and packet filtering.

Gigamon's GigaVUE can accommodate multiple bit-mask filtering rules at each ingress port (1 GigE or 10 GigE). Using multi-rule & multi-dimensional pre-filters, 10 Gigabit traffic can be mapped to multiple load-sharing 1 GigE or 10 GigE analyzers.

Each tool can analyze a specific VLAN range, port number or IP subnet thereby performing comprehensive monitoring at 10 Gigabit rate without oversubscribing any single tool.
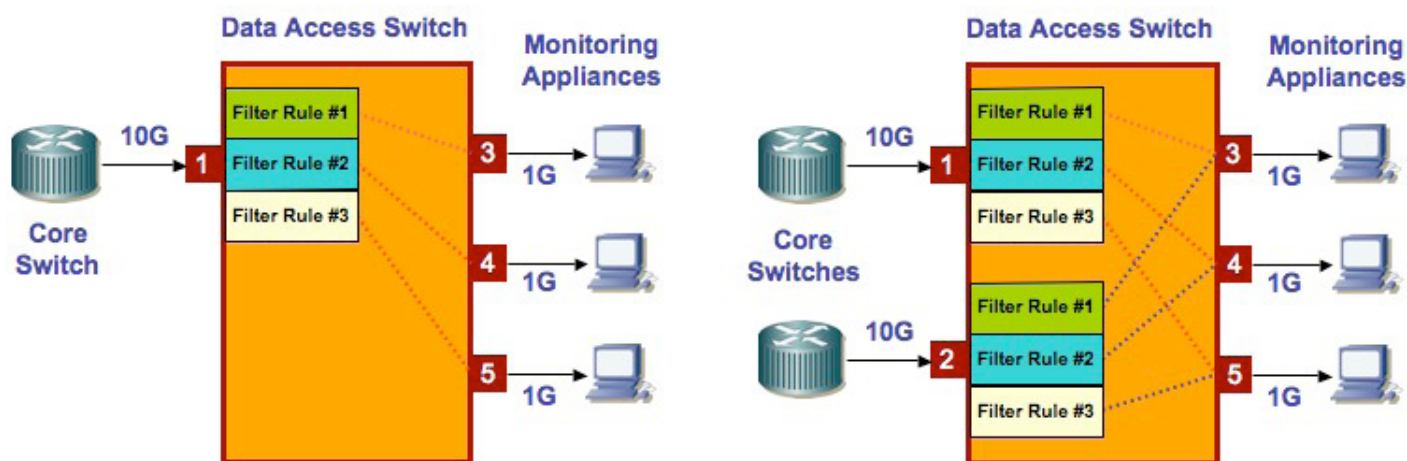
Example of 10G to 1G Network Monitoring

- Tap multiple 10G links and aggregate flows

- Aggregate multiple 10G span ports

- Divide traffic from 10G spans across multiple 1G tools

About Gigamon

Founded in 2003 by veterans of network monitoring and telecommunications equipment companies, Gigamon Systems is the inventor and leading provider of Data Access Switches. Gigamon's Data Access Network technology is a breakthrough for network engineers dealing with the increased number and variety of tools for intrusion detection, SOX compliance, forensic recording, VoIP analysis and the like. Its flagship product, GigaVUE™, can multicast packets from one span or tap to many tools to solve the span port sharing problem. It aggregates and intelligently filters packets from many spans or taps to one or a few tools. GigaVUE™ facilitates unobtrusive parallel tool deployment with network-wide coverage, significantly reducing customers' capital budgets yielding an immediate ROI.

Since its first release in 2005, the GigaVUE™ product family has gained worldwide acceptance from customers ranging from enterprise, to ISP, telecommunications carriers, fortune 1000 companies and governments. In September 2008, Gigamon released its high density GigaVUE-2404, which serves the rapidly growing demand for 10G monitoring.

- "Based on its recent analysis of the World Monitoring Market, Frost & Sullivan recognizes Gigamon Systems™ (Gigamon) with the 2008 Global Frost & Sullivan Emerging Company of the Year Award for strategically positioning itself to become a significant data access equipment manufacturer within the global monitoring market.

2008 Global Monitoring Emerging Company of the Year

FROST & SULLIVAN

2008

BEST PRACTICES AWARD

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Features

- Any-to-Any Connectivity to solve all tool deployment problems.

- Aggregate Multiple Links to reduce monitoring expense, by consolidating tools.

- Multicast to Multiple Tools to share data sources across different tools.

- Intelligently Filter and Divide Loads to customize and manage data to different tools.

Benefits

- Save money by consolidating tools.

- No more competing for SPAN ports between IT and Security.

- Provide access for new compliance monitors and database transaction recorders.

- Keep tools plugged in while troubleshooting.

- Divide load across multiple tools.

- Split traffic to different tools by IP, application, or VLAN.

- Off-load the switches and aggregate VLANS out-of-band.

- Eliminate RSPAN.

Testimonial

Sohail Bharmani of National Instruments says – "The new GigaVUE units provide increased capacity with additional 10GbE and GbE ports. These ports can be used for network ports, tool ports or stack ports which will provide National Instruments with the expandability and extensibility needed to fully realize our investment in Gigamon as our requirements change over time. The ability to use their unique cross box data mapping feature allows us to provide or send a very specific data set to the more specialized tools we employ in our enterprise for management and support. With the added horse power, additional ports, and added functionality, I am able to truly provide and support an any to many data aggregation for any data available on our campus head quarters location in Austin."

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