

“With Gigamon, The College of William & Mary was able to efficiently utilize network monitoring equipment in a cost effective manner while providing room for future growth.”

Norman Elton – Network Engineer

WILLIAM & MARY

Introduction

The College of William & Mary, is a public research university located in Williamsburg, Virginia. Founded in 1693, it is the second oldest college in the nation. It is one of only eight Public Ivy universities in the United States. The College of William & Mary serves undergraduate, graduate and professional students and ranks #4 among undergraduate programs according to the 2009 Forbes list of America’s Best Public Colleges.

Business Challenge:

As The College of William & Mary was refreshing their network architecture, they realized that the previous method of monitoring was not going to be sufficient. This architecture consisted of multiple 1Gbps core distribution links and 100 Mbps network connections to edge desktop computers. The monitoring infrastructure was comprised of SPAN ports and unmanaged inline 1Gig TAPs attached to SNORT Intrusion Detection Systems (IDS) and network-monitoring Linux servers dispersed throughout the campus environment. In order to increase network capacity, distribute VoIP, improve network resiliency and traffic engineering capabilities, The College of William & Mary network engineers upgraded the network. The new architecture consisted of upgrading to 10Gbps Core Distribution links and 1Gbps connections to edge desktop computers. Network engineers at The College of William & Mary found they would need better visibility on the higher speed connections while containing costs.

Challenge:

- Utilize existing 1Gbps tools in a new 10Gbps network design while improving manageability.

Resolution:

- GigaVUE-2404 Data Access Switches from Gigamon

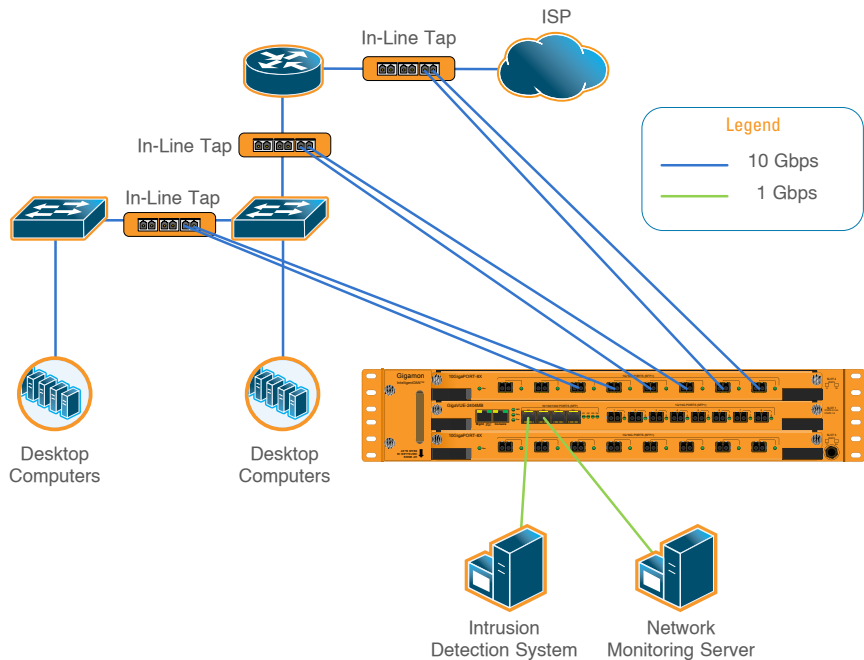
Benefits:

- Protected investment of current set of monitoring tools
- Aggregated 10Gb traffic and load balanced to 1Gb tools using advanced filtering engine
- Centralized management of monitoring resources
- Provided scalable solution for future network growth

Resolution:

The College of William & Mary deployed the GigaVUE-2404® Data Access Switch in the core of the campus network and consolidated all 10-Gigabit inline TAP monitor ports and SPAN data. The GigaVUE-2404 enabled secure access and complete network visibility. Using the intelligent filtering engine, network engineers at The College of William & Mary were able to aggregate and filter incoming 10Gbps data. The more manageable and easier to identify traffic was sent to lower speed 1Gbps monitoring interfaces. *See figure A on back...*

FIGURE A
Network monitoring solution after implementing GigaVUE



Conclusion

Benefit:

By deploying the Gigamon GigaVUE-2404 Data Access Switch, The College of William & Mary network engineers experienced immediate investment protection by allowing them to utilize their existing 1Gbps monitoring tools. The GigaVUE improved the manageability of previously un-managed in-line network taps, and increased flexibility by utilizing Gigamon's advanced mapping and connection filters. Gigamon provided the ability to aggregate multiple 10Gbps links, filter and load divide the traffic streams. Network engineers were then able to direct specified traffic to the appropriate tools. The deployed solution also provided The College of William & Mary network engineers with scalability to meet future network monitoring demands. The Gigamon solution was able to reduce the cost and complexity of the upgraded infrastructure.

About Gigamon:

Gigamon® provides purpose-built appliances to enable visibility and deliver critical packet-flow information across data networking infrastructures. As creator and leader of the Intelligent Data Access Networking® architecture, Gigamon's patented technology provides secure access and enhanced visibility for traditional and cloud-based data networks. The GigaVUE® line of intelligent data access switches eliminate SPAN port contentions, extend legacy tool utilization within 10Gbps environments, and enhance the effectiveness and productivity of network monitoring and security tools – all while running at full line rate speeds. This provides seamless and controlled delivery of the right data, at the right time, to the right tools; benefiting customers with greater uptime, reduced vulnerability to threats, and improved regulatory compliance. Founded in 2004, Gigamon has sold thousands of units to customers in more than 40 countries around the globe.

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