

# NETWORKING SOLUTION IMPLEMENTATION & KNOWLEDGE TRANSFER



## LANWORKS IMPLEMENTS HIGHLY RESILIENT CAMPUS WIDE JUNIPER NETWORK AT HUMBER

Humber College is a Toronto-based polytechnic institute with 160 full-time programs and over 200 continuing education programs. They serve 27,000 full-time and 56,000 part-time students across multiple campuses.

### The Challenge:

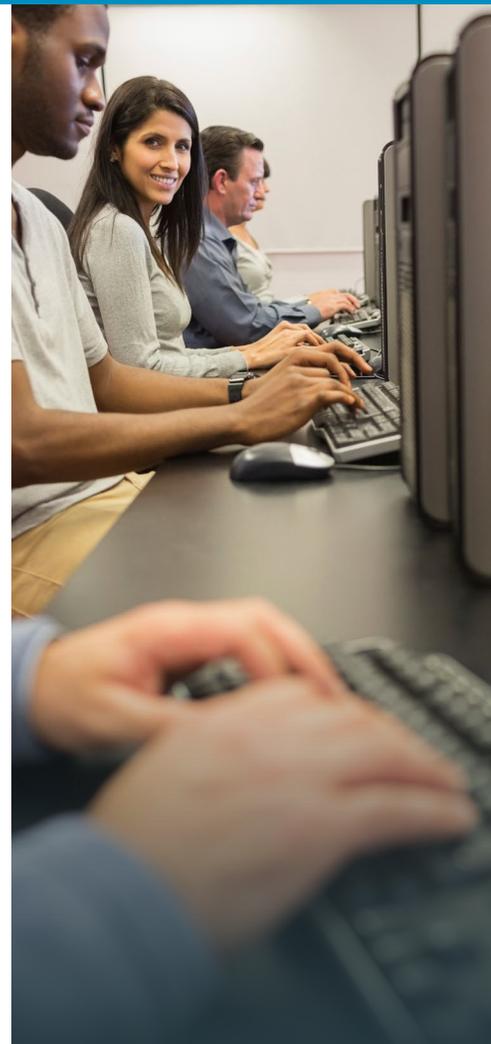
Humber College needed to replace a seven-year-old network which prevented them from delivering new technology dependent services to the students and faculty. Humber needed a single, highly resilient network to deliver voice, data and video services throughout their campuses yet maintaining strict security, privacy and data segregation to ensure only authorized users had access to each virtual network. Humber was looking for a partner to assist their very capable team with the design, implementation and knowledge transfer of a state of the art enterprise network to meet their current and future business needs.

### The Solution:

Humber chose Lanworks to design and implement a Juniper Networks based 480Gbps datacenter core with over 500 distribution and edge switches for their North and South Campuses, totaling over 26,000 managed network ports.

A dual-datacenter Juniper MX-480 network core was implemented leveraging Virtual Chassis technology. This provided full redundancy for the network core, while maintaining the simplicity of a single point of management. Virtual routing instances were created within the core to provide separate operational networks, with secure connectivity between these networks provided by the college's firewalls.

Lanworks' design provided isolation between sensitive college data and the student environment. The firewall implementation will be leveraged to provide an  desired level of granularity for secured authorization and authentication for users for different networks and data types.



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Lanworks carried the Virtual Chassis design down into each distribution closet via redundant 10Gig links from the core. The distribution closets then fed individual wiring closets containing EX Virtual Chassis access switches.

### **The Results:**

The complex, multi-campus project was successfully delivered under budget within an aggressive 12-month timeline. The network is now 10x faster, has highly scalable bandwidth, enhanced security, built-in resiliency and redundancy, full PoE port capacity and scalability, all while maintaining operational simplicity.

As the college continues to grow, Humber can rely on Lanworks to assist with managing the environment, achieving operational efficiencies and maintaining security.

*“The key factor for us was the incredible knowledge Lanworks brought to the table both in Juniper, specifically, and networking,” says **Steve Camacho, Director, Technology Services.** “The design process was very much a partnership. They collaborated with us as opposed to just gathering requirements. It was a successful approach that really built team confidence and helped immensely with the knowledge transfer.”*



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