SIR WILLIAM LOGAN BUILDING

OTTAWA, ONTARIO, CANADA

SERVICES BUILDING

The Sir William Logan is a fully occupied, 21-storey, government services and administration building located in Ottawa, Ontario, Canada. The structure, located at 580 Booth St., has a variety of uses, including assembly and cultural, education and training, industrial, military, office, warehouse, and storage.

PROJECT DETAILS

Each floor of the building, from the first to the 21st, has a corresponding MACH-ProCom™ with a subnet of MACH-ProAir™ and MACH-ProZone™ controllers, which control VAVs and perimeter induction units. Each air handling unit in the building has its own dedicated MACH-ProSys™ controller.

The mechanical equipment includes air handling units, a chiller, a back-up generator, pressurization, domestic steam, and booster pumps. Part of the requirement of this project was to integrate the new devices to the existing equipment, including the chiller plant and advanced security area. In addition, the facility receives steam from a central heating plant located in a nearby building; this provided its own challenge. Perimeter air handling units provide cooling and heating to the perimeter induction units while the local induction controls modulate heat and cool within the space.

A primary challenge presented within the project to retrofit this building was the fact that all 21 floors of the building were occupied, making the space difficult to work around and resulting in overnight work. Additionally, strict deadlines had to be met and scheduling had to be performed working in conjunction with Public Works. The result is a one-of-a-kind front end system with control capabilities and remote access monitoring offsite. The three competing systems have now been replaced with one, functional, reliable system.

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