



## MISSISSAUGA DATA CENTRE - TIER III

As TeraGo's flagship facility in Eastern Canada, the Mississauga Data Centre is designed to Uptime Institute Tier III standards to provide enterprise grade system availability and resiliency. The data centre space resides on the 2nd floor of a complex constructed by Blackberry, providing state-of-the-art design elements not found in similar facilities, including an indoor generator facility located off-grounds from the data centre building for added redundancy. All power, cooling, and connectivity infrastructure elements are built with 2N redundancy to provide fault tolerance to the entire system.

### The Facility:

#### Power

##### Distribution

- 3.5 MW power capacity
- In-row Remote Power Panels (RPPs) to allow for more efficient power monitoring and distribution
- 2N back-up power infrastructure
- Two dedicated municipal hydro substations
- A and B side power in every cabinet
- 208V Single or 3-Phase, 120V Single Phase available

##### Generators

- Ten 600kW generators (6,000 kW total) supplying backup power to the complex
- 2N generator redundancy
- On-site fuel capacity provides >12 hours run time at full load (based on current capacity)

##### UPS System

- 900kW UPS each for A and B side power
- Clean power supplied by double conversion UPS
- 2N UPS redundancy

#### Whitespace & Building

- 29,000 sq. ft. facility
- 6,420 sq. ft. of total whitespace for IT
- 25" raised flooring, with all sub-floor outlets raised 8" above ground level
- Full height and truck-bed height loading docks
- Secure room for equipment delivery and storage
- Customer Lounge area

#### Connectivity

- Carrier-neutral facility
- Fully redundant diverse fibre core fed from multiple providers including:
  - TeraGo
  - Bell
  - Zayo
  - Rogers
  - Telus



## Cooling System

### Chillers

- Fourteen 30-tonne CRAC units, supporting >1MW IT Load at capacity
- Independent air-cooled rooftop cooling unit
- 2N Cooling redundancy

### Cooling System Design

- Hot aisle containment configuration
- Chilled water towers and closed glycol loop

## Cabinet Space

- Full cabinet includes 42 Rack Units (42U)
- Half Cabinets available
- In-row cross connects with pre-engineered cable plant to all cabin
- Standard rack PDUs provided; customer supplied
- PDUs can be supported
- Dual cable trays and ladders separating inbound vs. outbound cabling
- Depth-adjustable railings

## Security and Monitoring

- 24/7 video monitoring and surveillance by Network Operations Centre
- Multi-factor access authentication (access card and biometric)

## Compliance and Certifications



## TGO Cloud Platform

