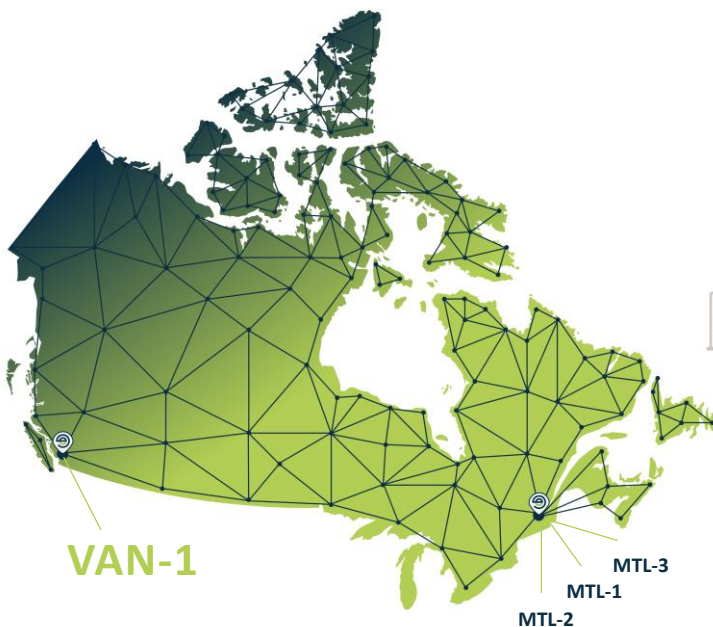


eStructure

D A T A C E N T E R S

eStructure – Vancouver 1 Data Center

eStructure's **VAN-1** data center is set within a 10,000 square foot custom facility, and includes 5,000 square feet of server cabinet space, electrical distribution, cooling, and backup UPS and diesel generator systems. The facility is located in Mount Pleasant, adjacent to the Vancouver downtown core.



KEY FACTS

ADDRESS

55 EAST 7TH AVENUE, VANCOUVER

SITE OVERVIEW

- BUILDING - 10,000 sq. ft.
- LAND - 6,000 sq. ft.



BUILDING DETAILS

- 4 halls and 1.6 MW of critical IT load
- Supports up to 30 kW/cabinet power loads
- 24/7/365 video surveillance and monitoring
- Shared and dedicated suites available
- Customer office, DR and storage spaces available
- Located in Mount Pleasant, within proximity of public transport



POWER AND INFRASTRUCTURE

- 2.5MVA power capacity via dedicated Unit Substation
- Tier 1, N+1 UPS solution available



CONNECTIVITY

- Carrier and Cloud Neutral
- 6+ carriers, including Zayo, Novus, Shaw, Telus, Peer1, Astute

The innovative design of our **VAN-1** facility was conceived with rigorous security and structural integrity in mind. The building is a cement bunker, with a 12" thick seismic shear wall spanning its core.

In addition to providing the utmost security, VAN-1 prides itself on being an environmentally-conscious facility with sensors that continuously monitor humidity, temperature and airflow for optimal visibility.

Easily accessible | High-Density | Major Carriers on Site



VAN-1 DC SPECIFICATIONS

BUILDING AND LAND SPECIFICATIONS

SPACE	5,000 sq. ft. of cabinet space 10,000 sq. ft. total space
LAND SPACE	6,000 sq. ft.
SPACE CONFIGURATION	up to 4 halls and 1.6 MW of critical IT load
YEAR BUILT	1974
NUMBER OF FLOORS	single building with 3 floors of office and infrastructure space
FLOOR LOAD	up to 200 lb/sq. ft.
CEILING CLEARANCE	varies, from 9' to 12'
FLOOD PLAIN	24 m above sea level
LOADING DOCK	loading bay with double-width doors and freight elevator that can be loaded directly from an external loading ramp

POWER

SERVICE	single high voltage entry with a dedicated 2.5MVA unit substation. 600v-3ph/208v-3ph/208v-1ph/120v available
POWER PROVIDER	BC Hydro
ENTRANCES	power feed from a single substation
DENSITY DESIGN	up to 30 kW per cab available standard. Higher densities available upon request
UPS	2N solution available upon request
BACKUP GENERATORS	2N solution available upon request
FUEL RUN-TIME	minimum of 28 hours on site fuel storage at full load

CONNECTIVITY

MEET ME ROOM	one Meet Me Room with 3 fiber entrances
CONNECTIVITY	network neutral with access to 6+ carriers
IP SERVICES	managed bandwidth with eStructure managed AS number and IP range
FIBER CROSS CONNECTS	yes

SECURITY

VIDEO	CCTV coverage across multiple cameras. All footage stored for minimum 30 days
ON-SITE STAFFING	during business hours and on-call
ACCESS	24/7 access for registered customers electronic and monitored key card and PIN access control at mantraps
MANTRAPS	yes

ENVIRONMENTAL CONTROLS

COOLING DISTRIBUTION	hot aisle/cold aisle containment cabinets with rear door radiator cooling configurations
COOLING CAPACITY	40 Ton mechanical Loop1, N+1 250 Ton Mechanical Loop2
REDUNDANCY	N+1 mechanical redundancy
DESIGN	N+1 mechanical design based on optimal free cooling (8+ months / year)

FIRE PROTECTION

PROTECTION SYSTEM	VESDA system
ON-SITE FIRE SUPPRESSION	Novec clean agent fire suppression system