

McLean COLOCATION FACILITY



Lobby

- 24-hour physical security monitors all cameras, door position and badge access areas
- Redundant off-site monitoring of all security systems
- A camera on each doorway
- Double man trap forces double verification and provides extra secure data center entry and exit
- Door entrance to data center requires two-factor method authentication consisting of biometric scan and security code
- Biometric scanner verifies unique geometry image and a heat signature before allowing entry into the facility

Special Building Features

- 65,000 sq. ft. data/office building
- 40,000 sq. ft. of raised floor data center area
- Onsite support NOC and engineering staff 24 x 7
- Full cabinets and half cabinets for customer equipment
- Customer cages and private raised floor data center suites
- Lightning protection throughout the perimeter, rooftop, electrical and mechanical support infrastructure
- Main facility entrance requires two factor authentication into a security 'sign-in' area
- Ballistics-resistant walls, doors and windows
- 24-inch raised floor rated to support 1200lbs./sq. ft.
- Conditioned air is supplied via the raised floor for more efficient and effective cooling of computer equipment
- Sensor-driven cameras watching every door, aisle, cage, cabinet, NOC and other secure support rooms
- Masonry and steel construction
- Hurricane wind-rated roof
- Grounding system throughout the data center to provide connections to the raised floor, posts, cages and cabinets

Cage/Cabinet

- Cages require unique laser-etched keys with magnetic signatures
- Windstream maintains control of all keys and access to cages and cabinets require an escort from security personnel
- Strong sheet metal cages with no hand and foot holds are available for larger deployments

*Windstream's
colocation facility
in McLean is
conveniently located
near downtown and
offers secure cabinet,
power and network
to house critical
customer equipment.*

HVAC

- 2N cooling tower redundancy
- 2N chilled water pump redundancy
- N + 1 chiller redundancy
- N backup DX air cooled chiller
- Dual loop chilled water
- N + 1 Computer Room Air Conditioning (CRAC) units dual fed from A-side and B-side sources

Electrical

- Fully 2N A-side and B-side power distribution design
- Automated failover between electrical systems
- 6000kVA of utility capacity
- Upstream utility switching between substations
- Four 1MW Cummings/Katolite generators with 24,600 gallons of fuel capacity
- Partnerships with multiple fuel vendors for fuel delivery
- Generators tested weekly at no load, monthly load bank test and quarterly facility transfer
- Redundant A-side and B-side ASCO 7000 series
- Automatic Transfer Switches (ATS)
- Both the A-side and B-side electrical systems have two paralleled 750kVA high-efficiency GE Uninterrupted Power Supply (UPS) systems per side
- Total of four 750kVA GE UPS systems expandable to eight
- True 2N UPS redundancy in each electrical system
- 1215kW of usable UPS capacity expandable to 2430kW
- A-side and B-side ATS, main switchboards, UPS systems and Power Distribution Units (PDUs)
- The fast detection and switching capability of the Static Switch (STS) PDU (<4ms) allow for uninterrupted power (even for single power-supplied equipment)

- Each customer cabinet will have redundant A-side and B-side power feeds
- Mechanical plant supported by Active Power Rotary UPS

Access Control

- 24 x 7 onsite personnel
- Card-reader access system
- Biometric identity access system
- Electronic verification by Windstream personnel
- Individual cabinet keyed locks

Security Cameras

- Video surveillance and capture to DVR
- 24-hour physical security monitors all cameras, door positions and badge access areas
- Redundant off-site monitoring of all security systems
- Cameras at each doorway and pan-tilt-zooms (PTZs) throughout the exterior of the facility

Building Management

- Foreseer and JACE building management systems monitor all critical facility infrastructure
- Dry-pipe, pre-action sprinkler
- Multi-zoned smoke/heat detection system
- Leak detection systems throughout the facility

Network

- Access to Windstream's reliable, nationwide network
 - Fully redundant fiber backbone
- All standard Windstream product offerings, including network and data, voice and unified communications, network security, managed services and cloud

About Windstream

Windstream Holdings, Inc. (NASDAQ: WIN), a FORTUNE 500 company, is a leading provider of advanced network communications and technology solutions for consumers, small businesses, enterprise organizations and carrier partners across the U.S. Windstream offers bundled services, including broadband, security solutions, voice and digital TV to consumers. The company also provides data, cloud solutions, unified communications and managed services to business and enterprise clients. The company supplies core transport solutions on a local and long-haul fiber-optic network spanning approximately 125,000 miles.



Contact your Windstream trusted advisor
to learn more at **855.383.1901**.