SINGLEHOP

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Chicago 3 (CHI-3)

Enterprise-Class Security, Performance, and Redundancy

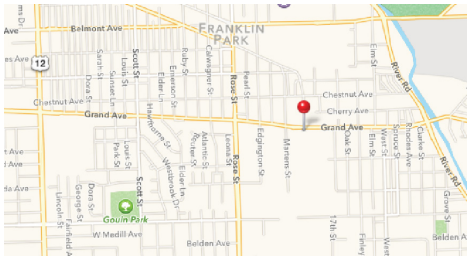
SingleHop's newest facility is one of the largest carrier neutral data centers in the country, complete with an ultra-modular design and no single points of failure.

SINGLEHOP | HOSTING

Chicago 3 (CHI-3)

Location

SingleHop's newest data center in the Chicago area is situated in a private, secured campus built and operated by Digital Reality Trust. SingleHop holds a private data center suite, private network operations center, and staging environment. SingleHop operates its own on-site network operations center.



Overview Information

Official Name	Chicago 3 (CHI-3)
Physical Location	Franklin Park, Illinois
Security	Secured campus environment, 24/7 security, stationary and roving officers, man-traps, anti-tailgating, card key, biometrics, PTZ, and stationary cameras
Redundant Infrastructure	2N Utility, 2N UPS, Static Switch PDU's, N+2 CRAH's, N+1 central chilled water plant, diverse communication pathways, communication entrance vaults, and BMS monitoring and control
Max Power Load	1.8 MW of critical IT Power
Max Server Load	30,000+ servers

SingleHop On-Site Staffing:

24/7/365 staffing by SingleHop W-2 Employees: Data Center Technician, Senior System Administrator, Network Operations Administrator

Data Center Specifications

- Campus Operator: Digital Reality Trust
- Campus: 23 acres
- Building: 121,000 sq ft
- Building Material: Type 2 building classification with LEED Silver certification
- Parking: 75 secured parking spaces
- Elevators: 5,000 lbs. cabinet lift
- Shipping/receiving area: Two (2) lowered enclosed loading bays, secured, conditioned storage on site

Access Control

- Gated entrance
- Traffic bollards
- Digital video surveillance
- 24/7 on-site staff
- On-site operations staff
- Double mantraps
- Biometric access control
- Visitor tracking system
- Access cards
- Retina Scanner

Telecommunications

- Fiber Access: Two Access Points
- Internet Service Providers: AT&T, Level 3, Zayo, Comcast
- Peering: Fabric available to data center customers
- Facilities: Carrier-neutral
- Cross Connects: Available

Data Center Compute Rooms

- Raised Floor Space: 12,970 sq ft
- Access Floor Load: 2,000 lbs per tile
- Building Fire Suppression: Dedicated double interlock pre-action water sprinkler system
- Fire Detection: Photelectric and ioniztion smoke detection above and below floor

Power Systems

- Primary Utility: Commonwealth Edison
- Secondary Utility: Commonwealth Edison
- Core Power System: 2N utility service (34.5 kV)
- Power Backup Generators: N+1 2MW Cummins Generators
- Fuel Storage: 24 hours on-site with emergency refueling contracts in place
- Power Densities: Cabinets in excess of 20 kW are supported
- Efficiency: Design PUE of 1.29
- UPS: 2N UPS system comprised of MGE, 625 kVA / 562 kW, Model EPS 8625 modules

Cooling Systems

- Type of Cooling: Underfloor airflow, perimeter CRAH in gallery, 2400 Ton N+1 central water cooled chilled water plant with water side economization
- Water Storage: 260,000 gallons of condenser water with redundant domestic feeds
- Air Handling: Modules contain up to (8) 10-ton air handling units
- Thermal Energy Storage: 32,000 gallons of chilled water
- Piping: Primary and secondary chilled water loops
- Humidification: Nortec electric steam humidifier
- Water System: Redundant domestic feedsLeak Detection: Rope style outside module, spot leak detection inside module
- Leak Detection: Rope and spot detectors
- Efficiency: Water-side economization

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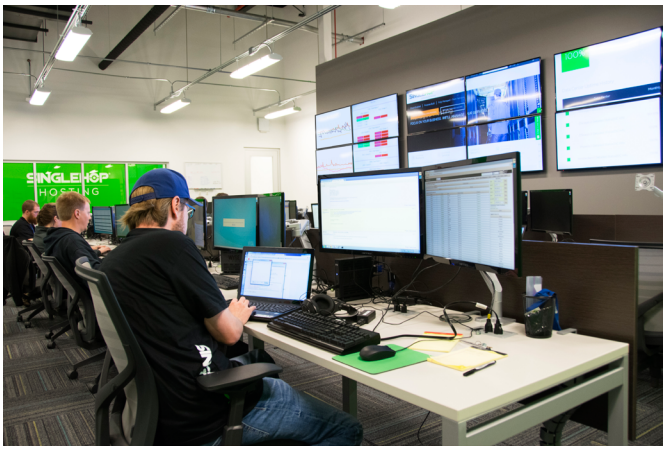
eyeLock
EyeSwipe-Nano®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