



At-a-Glance



GLOBAL DATA CENTERS

Silicon Valley Data Center Campus

16MW of critical IT load strategically located in Santa Clara

NTT Silicon Valley SV1 Overview

- Four-story, 160,000 sq. ft. facility with 16MW of IT power
- 3.3 acre campus
- Seismic vibration absorbing system to keep IT equipment safe
- Renewable energy packages available
- Dual power feeds
- Multiple "Meet Me Rooms" allows for network diversity and resiliency
- Dedicated onsite substation
- Superior reliability from N+1 electrical and mechanical redundancy
- Closed loop, air-cooled chillers with economizer coils and fan wall system
- Industry-leading security, compliance and safety procedures
- Conference rooms, lounge and break room dedicated for customer use
- 24x7x365 in-house security staff

SV1 Data Center Vault 1 Specifications

General Specifications

- One of three data center floors in four-story structure
- 5MW at 234 watts per square foot
- 21,355 sq. ft.
- Constructed with slab design
- Dedicated electrical infrastructure options

Power

- Power densities supported from 7kW per rack to 20kW per rack, with higher densities possible upon request
- 2nd floor vault capable of 5MW of critical IT load fed by a "6 to make 5" distributed redundant electrical system
- Six identical 2MW UPS systems in N+1 topology

Base Isolation

- The main portion of the building is supported structurally by a base isolation system. The building and all connections are capable of 32 inches of movement in any horizontal direction.
- The base isolation system uses a braced frame structure, triple-friction pendulum pedestals, fluid viscous dampers, and a foundation with 60-foot piles into the ground

Security

- Access control system tracks location of people
- Biometric readers
- High-resolution video surveillance system
- Trained security staff on-site 24/7/365
- Anti-climb perimeter fence

Cooling

- Vault 1 has 5MW of dedicated IT cooling load
- Target average annual PUE is 1.25 or less at full load
- All equipment is concurrently maintainable, while still cooling 100% of the IT load
- Essentially no water use due to closed loop chiller plant
- Cooled by 16 366-ton, roof-mounted air-cooled chillers with integrated free cooling coils and pumps and two chillers for redundancy

Network

- Connected to three fiber entrance facilities and two Meet Me Rooms where carriers are located
- Multiple Tier-1 carriers on-site including Level 3, Frontier and Wholesail Networks (with access to other local networks for dark fiber), with more to come including NTT GN
- Direct connectivity to major cloud providers, applications providers and enterprise ecosystem.

