

DATA CENTER 2 SPECIFICATIONS

EasyStreet is Oregon's leading independent Cloud Computing and colocation provider because it is reliable, responsive and responsible — to its customers, its community and the environment.

RELIABLE CONSTRUCTION, REDUNDANCY AND CAPACITY

Single-story Data Center 2 (DC2) is a constructed on flat, stable ground and borders a "Low" to "Low-Mid" seismic risk area, based on the composite score of relative slope instability, relative amplification hazard, and relative liquefaction hazard. The data center is not in the direct flight path of a local airport nor located in a flood plain or wetland. With no traditional data center raised floor, the cabinets are bolted to the concrete, providing a high level of structural integrity as well as improved cooling and installation flexibility.

All critical systems are configured N+1 or better, which allows for scheduled maintenance or subsystem outage without affecting service availability.

EasyStreet leverages multiple upstream connections, a fully redundant infrastructure, abundant capacity and years of connectivity experience to deliver unsurpassed network reliability. EasyStreet has had no data center outages since we began providing colocation services in 1998.

SSAE 16-AUDITED FOR SECURE OPERATIONS

EasyStreet's colocation facilities are SSAE 16 Type II audited, providing external validation that controls are in place to ensure the highest levels of security and availability. Our Enterprise Operations Center (EOC) is staffed 24/7 to monitor all systems as well as the campus-wide internal and perimeter video surveillance cameras.

A FORTIFIED FOUNDATION FOR OUR VERSATILE SERVICES

EasyStreet's data centers provide the foundation for the flexible services we deliver. Colocation customers will benefit from the care we took to provide choices and easy of provisioning:

- High average power density of ~200 kW/sq. ft. (~5 kW per cabinet) allows more load per cabinet for lower-priced colocation and more convenient expansion
- Carrier-neutral facility with numerous carriers provides high capacity service with lower-cost choices for backup, DR, synchronization, etc.
- Professional services available from "remote hands" through architecture, design, procurement and installation enable faster deployment

ENERGY-EFFICIENT DESIGN AND TECHNOLOGIES

EasyStreet's DC2 incorporates innovative technologies and methodologies designed to reduce energy consumption and achieve a Power Usage Effectiveness (PUE) of 1.3 or better.

Because of the energy efficiencies gained compared to conventional data center designs, this is the first data center project to qualify for funding through the Oregon Department of Energy's State Energy Loan Program (SELP). With the help of Energy Trust of Oregon, EasyStreet played a

pioneering role in developing the Oregon Department of Energy's expertise in the area of efficient data center design.

OUR CUSTOMERS CAN 'GO GREEN' WITH NO SURCHARGE

EasyStreet procures 100% Portland General Electric Clean WindSM power offsets for both data centers as well as our offices. Although it cost more to build than a conventional facility — and although renewable power will cost us a premium — the efficiencies gained by design means we can provide our services with no "green surcharge" to our customers.

OVERVIEW OF DC2 SPECIFICATIONS

Physical Specifications

DC2 has over 6,500 square feet of usable floor space.

- Data center floor is static dissipative
- Lobby area for equipment prep with Internet access.
- Escorted loading dock directly adjacent to the data center.
- 24/7 Enterprise Operations Center provides monitoring and incident management.
- Ample and convenient parking.

Mechanical System

An innovative Indirect Evaporative Cooling (IEC) system from AMAX[®] is key to efficiency and outstanding PUE. Direct Expansion (DX)

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packages provide supplemental cooling when required.

- Chatsworth Products, Inc. (CPI) chimney cabinets are part of the cooling system. They gather hot exhaust air and route it to the roof for processing.
- Rooftop IEC units in an N+1 configuration. Each IEC unit is connected to a shared supply and return trunk, allowing any spare unit to replace any failed unit.
- Overhead duct work distributes cooled air throughout the data center.
- Humidity is controlled with ultrasonic humidifiers operated by the master control system.

A 25,000-gallon underground tank collects rainwater from the roof. It is filtered and used by the IEC units to cool the hot air exhausted through the return duct. Reclaimed water is supplemented by city water when necessary. 100% of our city water usage is offset by BEF Water Restoration Certificates.

A highly-sensitive VESDA aspirating smoke detection (ASD) system. Alerts are enunciated in the EOC and alarms are sent to a third-party alarm company. A gas-free, pre-action sprinkler system provides fire suppression.

Power Infrastructure

- A/B 225-amp 120/208V isolated ground Starline buses PDUs and circuit breakers.

- Power is monitored per circuit at the Starline bus tap.
- Each bus has independent circuit protection.
- Power is stepped down using harmonic mitigating transformers.
- Transformers are powered by Eaton/Powerware 9395 825 N+1 Uninterruptible Power Supplies (UPSs) using VYCON flywheels as their power source. Each UPS is internally N+1. Each UPS has N+1 flywheels.
- UPSs are powered through a Square-D switchgear platform.
- The switchgear is powered by a dedicated 4 MW PGE utility feed and 480/277 V 2500 kVA transformer and paralleled 600 kVA Kohler diesel generators in an N+1 configuration.

Safety/Access Control/Surveillance

DC2 is monitored by the EasyStreet EOC 7/24/365. Systems monitored include infrastructure power, customer branch circuits, temperature and humidity, generators, switchgear, UPSs, cooling plant and life safety.

- Accessible 24/7 for authorized customer personnel via electronic prox card and fingerprint ID

- Monitored for intrusion detection with internal alarming and external security service. All access is logged.
- Video cameras with 90-day archives

Network Infrastructure

- Carrier-neutral facility with multiple providers: AboveNet, CenturyLink, Level 3, Comcast, Freewire Broadband, Frontier, Integra, LS Networks and Time Warner.
- Tier-1 upstream Internet providers: AboveNet, CenturyLink and Level 3 on GigE fiber.
- DC2 has a direct fiber path to EasyStreet Data Center 1 at 9705 SW Sunshine Court.
- Connectivity to the Pittock building via redundant ring.

Optional System Monitoring

Proactive monitoring in EasyStreet's EOC of customer applications and/or infrastructure using SolarWinds® Orion.

- Centralized monitoring tools and SNMP agents.
- Customized thresholds.
- Customized monitoring: Hardware availability, OS/server performance, application and/or site availability and performance.

Founded in 1995, EasyStreet is Oregon's most trusted locally-headquartered Infrastructure-as-a-Service provider. EasyStreet helps its customers create a flexible computing infrastructure to improve — and protect — the way they do business. EasyStreet has built HIPAA-compliant private clouds and is SSAE 16 Type II audited.

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