

Data Center Specifications



PHYSICAL SPECIFICATIONS

EasyStreet's 18,248 square foot facility is located on a flat stable ground with no known faults, flood plains or other geological threats. It is out of any flight paths.

We offer colocation customers a choice of racks space in shared and private cabinets, in full-height and partial-rack increments. Cages are also available.

All full-height and new partial-size cabinets use a perforated door. Older partial-size private cabinets (1/2, 1/3 and 1/4) provide a solid door with fan.

Cabinets, racks and cages are bolted to the foundation for seismic stability. Overhead anchored ladders provide additional vertical stability.

ELECTRICAL POWER SYSTEMS

In the unlikely event of failure, EasyStreet's power systems are designed to run uninterrupted. We have dedicated electrical service into dual, 600kVA UPS systems, backed up by two diesel generators. All systems are regularly maintained and tested. As a Portland General Electric (PGE) Gold-level Clean WindSM Partner, EasyStreet also offers a Renewable Power Option to our colocation and managed services customers.

Primary and Secondary Systems

Power to the Data Center is provided by a Tier IV 2N system. Primary power is provided by Portland General Electric (PGE) through a dedicated 1200 Amp 3-phase 277/480VAC transformer and power feed.

There are two secondary systems:

A and B. Either the A or B system is capable of running the full load and half of the air conditioning systems. The A and B systems have independent generators, transfer switches, Uninterruptible Power Supplies (UPSs) and power distribution.

UPS and mechanical power loads have independent transfer switches. Additionally, the A and B UPSs have redundant battery systems.

Power Switching

Automatic Transfer Switches (ATSs) connect the primary and secondary power systems to the Data Center load. In the event of a power or phase loss, the ATSs detect the anomaly, start the generators and transfer the load. Generators are on-line within 10 seconds and the load is transferred within 30 seconds. Ten minutes after stable primary power is restored and stable, the ATSs transfer the load back to primary power.

An annunciator panel in the Network Operating Center (NOC) monitors ATS switching conditions. The ATSs are manually tested every six weeks and full-load tested every six months, as recommended by the manufacturer.

Service Transformers

Four Mirus Harmony-2™ harmonic mitigating transformers convert the 277/480VAC into 208/120VAC for use in the Data Center.

Power to the Racks

Full- and half-sized racks in our colocation center have dual power feeds. One-third and smaller racks have a single power feed. Cages have dual power feeds.

Default power configurations include:

- Full rack, 39" deep: 1x20 Amp or 2x20 Amp.
- Full rack, 30" deep: 2x20 Amp.
- 1/2 rack, 30" deep: 1x20 Amp or 2x10 Amp. (Power configuration is cabinet-specific.)
- 1/3 rack, 39" deep: 1x20 Amp or 2x20 Amp.
- 1/3 rack, 30" deep: 1x10 Amp.
- 1/4 rack, 30" deep and Super Condo, 30" or 39" deep: 1x7 Amp.
- Condo, 30" deep: 1x4 Amp.
- Cage: 1x30 Amp or 2x20 Amp.

Additional power configurations are available up to redundant three-phase, 30 Amp, 208 V (for full racks).

HVAC AND MECHANICAL

Cooling is provided by Liebert 20 ton (VH245AUAAEI) and 30 ton (VH380AUAAEI) AC systems.

FIRE DETECTION/ SUPPRESSION SYSTEMS

EasyStreet's data and technical centers are protected by multiple zone-based fire detection and suppression systems connected to a remotely monitored alarm system.

Heat detection and laser-based smoke detection systems monitor the Data Center, colocation and UPS zone environments. Ambient air in each zone is continuously sampled by a Fenwal laser-based smoke detection system to test for contaminants. The laser-based system is much more sensitive than traditional smoke detectors. Information from the Fenwal system is displayed on the fire system annunciator panel in the NOC.

Airborne particles, such as smoke, are detected by the Fenwal system

and announced on a scale from one to 10. Detection of a level-three particle concentration will ring a trouble alarm and send a “fire trouble one” alert to our off-site alarm monitoring company. A level-seven particle concentration will send a “fire trouble two” alert.

A level 10 concentration will ring the fire alarm throughout the facility and send an alarm to the off-site monitoring company. A fire alarm will cause the monitoring company to dispatch the local fire department unless they receive an authenticated phone call declaring the fire alarm false.

Detection of a Fenwal-triggered fire alarm is the first step in charging the pre-action, dry pipe, fire suppression system with water. A second event is required to fully charge the system—either a high temperature reading in the Data Center or colocation facility, a burst sprinkler head or an active fire alarm pull station. At this point, water would only be discharged from the sprinklers with ruptured temperature-sensitive discs.

TELECOMMUNICATIONS

EasyStreet’s OC-3, OC-24, OC-48 and Gigabit fiber optic connections are provided through Integra Telecom, Verizon, Qwest and OnFiber.

EasyStreet is a founding member of the Northwest Access Exchange (NWAX), a regional Internet exchange with a Point of Presence (PoP) at EasyStreet. NWAX provides peering and transit services over

a gigabit Ethernet fabric, and interconnects nearly 20 major ISP, business and public/education networks, providing the highest possible performance with local peers.

Four Tier 1 providers – AT&T, SAVVIS, Sprint and Verizon – deliver upstream Internet bandwidth.

DATA CABLING

Data cabling at EasyStreet is switched gigabit and 100BaseT Ethernet network.

PHYSICAL SECURITY

EasyStreet personnel are onsite at the facility 24/7. They monitor for intrusion detection with internal alarming and an external security service. Entrance is by card key and Bioscrypt™ fingerprint verification for colocation customers. Physical access is restricted to EasyStreet employees for all other services. Multiple surveillance cameras monitor all activity, and all access is logged. Each customer’s rack enclosure is secured with an individual lock and key. (There are no “community cages” or racks, with the exception of our shared-space Colo Condo offerings.)

DATA SECURITY

EasyStreet has laid down an extensive minefield to prevent unauthorized access to your information.

Our Intrusion Detection System (IDS) responds instantly and automatically if there is an attack.

Denial-of-Service (DoS) and malicious code attacks are prevented by redundant Check Point Firewall-1 systems, Sun

IPF, Syslog and EasyStreet’s proprietary Sentinel monitoring system (built on OpenNMS technology).

EasyStreet can provide a dedicated firewall and/or router for you. With this option, EasyStreet provides, installs and maintains a dedicated Check Point firewall device, a Cisco router with an IOS-based firewall, or a combined configuration to meet your functionality and performance requirements. EasyStreet’s 24/7 NOC monitors these devices. The service includes software and firmware patches and updates, as well as hardware maintenance and access to our spares pool. Changes to rules and configuration are applied during regularly scheduled maintenance windows. Emergency changes are handled on a best-efforts basis. Additionally, EasyStreet can assume the management of your Cisco IOS-based devices on a custom-configuration basis.

MAINTENANCE

Standard maintenance occurs Tuesdays from midnight to 6 a.m. Emergency maintenance occurs midnight to 6 a.m.

For more information about our secure Data Center or other EasyStreet services for IT Professionals, contact us at 503-646-8400 or visit www.easystreet.com



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