



## about the project



### location



Our Grant County, Washington location is outside of natural disaster (both seismic and flood) and civil threat zones. In addition, the Grant County Public Utility District is a major generating utility with two large hydroelectric developments on the Columbia River in addition to two smaller generating plants. Easy access to the TITAN I location is readily available both by car (a 2½ hour drive east on Interstate 90 from Seattle or a 1½ hour drive west from Spokane) as well as air.

Easy access, diverse fiber optic band-width, and superior availability of power, make this an ideal location for mission critical applications.

The TITAN I Ultra Secure Facility is conveniently located 5 minutes from the Grant County International Airport (with several daily flights from Seattle and Spokane).

This former NORAD Command and Control facility was originally built by the Department of Defense (using TEMPEST standards) to withstand a ten-megaton nuclear strike. With defense hardened

### building



concrete walls, redundant building systems, high-level physical security, and ferromagnetic shielding TITAN I is ideally suited for secure data and network operations. In addition, the facility supports multi-layered physical security. This includes full perimeter fencing (including employee parking) with card-key gate entry, card-key plus biometric identification building entry, full closed

circuit security camera system fed to central guard desk, as well as individual tenant floor/vault security.

## about the project

**P**ower is a critical element in the successful implementation of an Ultra Secure Data Center. The two fundamental issues that need to be addressed are availability and dependability. Our location in Grant County, WA assures our customers that the power they will require will be readily available to them. The facility currently has access to 10 megawatts of power and is scheduled to have access to 50 megawatts in the next 24 months. In addition, the power delivery system at TITAN I will deliver reliable and redundant power to our customers' critical resources. TITAN I will be supported by at least three redundant power sources, each capable of fully supporting the facility's needs. This will include two entrances of electric power coming from different sub stations, and high-capacity diesel or natural gas power facilities as the third backup.

**A**ddressing connectivity issues is critical to any organization considering our facility. Titan will have multiple carrier options available to our customers for their connectivity to existing services. Currently, Titan's facilities include multiple fiber optic entrances from distinct and separate suppliers. In addition, Titan is currently reviewing access to satellite facilities and re-routing capabilities in case of high-level regional disasters.



**Qwest:** Two (2) OC-3 (24 pair of fiber) are currently operational in TITAN I.

**Grant County PUD (Zipp Network):** 192 pair of fiber. Initial capacity is dual OC-48 Sonet Rings with termination at TITAN I, upgradeable to OC-192 capacity. Local loop cross-connect access to the following telecommunication providers: AT&T, Sprint, MCI WorldCom, Touch America, ELI, Nextlink, Verizon, Level 3, Qwest, and Verestar.

**NoaNet:** Currently Installed – NoaNet's network was initialized with two (2) OC-48 SONET rings active around the entire 1,100 mile North Loop, located primarily in Washington State. In addition to the SONET ring, NoaNet has lit and accepted a Layer 3 architecture with five (5) core routers, each router (Cisco 12000 GSR) is interconnected by four (4) OC-12 Spatial Reuse Protocol (SRP) rings.

### Scalability:

NoaNet's expansion will utilize the eighteen (18) DWDM Lambda's with the capability to add up to sixteen (16) additional SONET circuits at rates from OC-3 to OC-48 (NoaNet is currently in the process of upgrading to OC-192 optics for the Cisco 15454 optical nodes).

### Westin POP:

NoaNet's Westin POP is located on the 34<sup>th</sup> floor of the Westin building. The network is designed to interconnect all 18 lambdas thru the Westin building with SONET and GSR routers located in the POP. This SONET/GSR configuration allows for a large variety of interface options for our customers. They have also pre-installed both Multi and Single Mode fiber connectivity from their POP on the 34<sup>th</sup> floor to the Westin fiber meet-me room to give customers immediate connectivity to all Westin co-located carrier systems.



TITAN™

# general description

## Building:

First & Second Floors:	100 to 250-lbs per SF load capacity
Ceiling Heights	
First Floor:	approx. 38,000 SF – 14' ceilings
Second Floor:	approx. 12,250 SF – 12' ceilings
Third Floor:	approx. 38,000 SF – 17' ceilings
Riser Space:	Two diverse locations per floor



## Environmental:

HVAC	Top tier system with N+1 redundancy during maintenance
Temperature	Ambient temperature maintained at 70 degrees (+or-5°)



## Security:

Access to Facility	365x24x7 card key
Access to Space	Security controlled
Surveillance	Full closed circuit TV

## Safety:

Fire Detection	Integrated smoke/heat detector system
Fire Suppression	Dry-pipe pre-action sprinkler
Monitoring	Monitored 365x24x7

## Power Source:

Watts	150 watts per SF (optional additional power available)
UPS/Generator	Uninterruptible power back-up with N+1 redundancy
DC Power	Negotiable



## general description

### Connectivity:

Qwest: OC-3 (24 pair) fiber currently operational in TITAN I.

Grant County PUD (Zipp Network): Dual OC-48 Sonet Rings with termination at TITAN I. Provides local loop cross-connect to the following telecommunication providers:

AT&T, Sprint, MCI WorldCom, Touch America, ELI, Nextlink, Verizon, Level 3, Qwest, USEI, and NW Microwave.

NoaNet: Eastern Washington TERMINUS & Management Point (40,000 node network). Provides TITAN I with connectivity throughout Pacific Northwest, including Seattle (Westin Building) and Portland (707 Stark Building).

Customer Connect

Individual Meet Me Rooms

### Square Footage Total:

162,000 SF - comprised of 3 levels above ground each with approximately 40,500 SF

### Currently Available

First Floor: approx. 20,000 SF

Second Floor: approx. 12,250 SF

Third Floor: approx. 38,000 SF



# TITAN™

# floor plans

NOW AVAILABLE

