



## THE VAULT - IAD1

*Constructed from the ground up, the Vault is a SCIF-compliant facility and meets a superset of federal security mandates as well as industry-specific mandates including HIPAA and SOX.*

With concentric rings of security, biometric access points, armed guards, and nearly-impenetrable Lampertz vaults, QTS is confident in the physical security of our Vault data center. Our defense-in-depth strategy for comprehensive physical, network, and policy-based security assures customers that even their most sensitive data will remain secure and available. Services in the facility scale from fully managed services to hybrid private clouds for federal agencies, healthcare, financial services firms and other critical application environments.

QTS' compliant architecture is integrated into every aspect of our data center and by design, protects all of our hosted customer environments. Our physical security exceeds the DoD standards for a SCIF and provides the most extensive physical security available among commercial data centers. The hardened, bunker-like facility is engineered to ensure mission-critical applications and data are available anywhere, anytime for our demanding DoD, Homeland Security, and Intelligence sector clients.

### *Innovative Technology Delivers 100% Certification & Accreditation*

QTS drives continuous innovation for our commercial and federal clients. With active ATOs (Authority to Operate) for over 50 federal agencies, support for private agency networks and an active

facility clearance, QTS is the only provider in the industry that offers service level agreements that guarantee certification and accreditation for federal agencies.





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## KEY HIGHLIGHTS

- First commercial, Internet capable data center built from the ground up to stringent Sensitive Compartmented Information Facility (SCIF) standards set by the Department of Defense (DoD) and National Security Agency (NSA)
- Minimum 2N redundancy for all power and N+1 for all cooling with fully redundant high-density power systems, HVAC with three roof-mounted 100-ton chillers and multiple 20-ton Stultz CRAH units in each vault
- Support for private agency networks, including existing NIPRnet connections and an active facility clearance
- Compliant data centers currently host active ATOs (Authority to Operate) for over 50 federal agencies

## LOCATION

- Dulles, VA
- Location Orientation: 29 miles to the White House
- From Airports: 4.5 miles to Dulles International Airport (IAD); 31 miles to Reagan National Airport (DCA); 60 miles to Baltimore-Washington International Airport (BWI)
- Parking: Adjacent building parking available (no charge)

## PROFILE

- Phone: 703.840.3900
- Toll Free: 1.888.200.9494

## SECURITY

- Physical: "Man trap" entry; perimeter fencing
- Human: 24x7 armed security guards
- Electronic: CCTV and recorders; motion detection; finger print readers; fiber vault



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### *Protection*

Lampertz IT Security Rooms are used to house critical servers and systems. These environments were chosen in order to provide the maximum level of protection and security possible. These vaults provide the following benefits:

#### **CERTIFIED FIRE PROTECTION**

A 90 minute fire test reaching approx. 1100°C (2012 °F) on the exterior of an IT Security Room resulted in a maximum internal temperature of only 40°C (104°F).

#### **PROTECTION FROM FIRE-FIGHTING WATER**

The IT Room's sealed steel design guarantees it is fully impervious to fire-fighting water, in compliance with LGA test BW 8995.011

#### **PROTECTION FROM ACRID GASES**

The IT Security Room has been tested to ensure it cannot be penetrated by intrusive smoke or gases. The access door is guaranteed smoke-tight in accordance with fire safety standard DIN 18095.

#### **PROTECTION FROM ELECTRICAL INTERFERENCE**

- Electromagnetic impulses
- Compromising radiation and radio frequencies
- Magnetic fields on company premises
- Electric or electromagnetic emissions from industry

#### **VAULT PENETRATIONS ARE FULLY SEALED**

Tested fireproof, water tight and pressure resistant. Offers protection beyond the maximum limits required by EURONORM EN 1047/2.



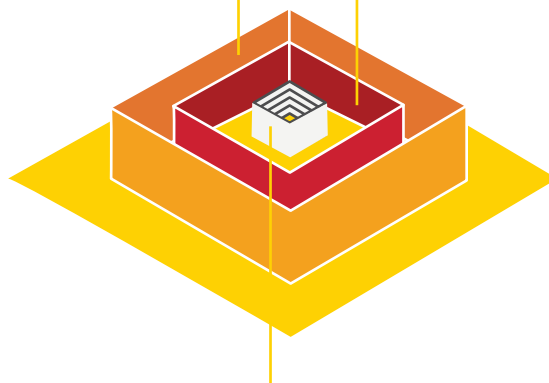
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## Defense In-Depth Strategy

### OUTER SECURITY RING

#### Site Perimeter:

- Secured with an 8' iron fence and guarded entrance gate
- Pan-tilt zoom (PTZ) surveillance cameras monitor the area between the building and the perimeter fence
- Only visitors pre-screened and approved 24-hours in advance are allowed to enter the site



### MIDDLE SECURITY RING

#### Building:

- Secured reception area and fixed security cameras located at building entrance
- Manned guard station, 24/7, 365 days a year
- Visitors limited to monitored visitor/conference area of the data center

### INNER SECURITY RING

#### Data Vaults:

- Lamperts vaults protect critical equipment from fire, moisture, smoke, water, and electromagnetic pulses
- Vaults are secured with 2-level authentication proximity and biometric readers
- All networking, power equipment, and client servers are housed in segregated vaults



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## POWER

- Single-source Utility-clean power (no spikes) assured by TVSS and dual inverter UPS systems
- UPS-2N redundant 800 kW UPS systems capable of delivering 265 watts per sq. ft. to the vaults
- Batteries: 1 wet cell and 1 dry cell system, each capable of delivering @ 7 minutes at design load
- Generator: 2 x 2000 KW diesel generators come online within 9 seconds of power failure; supporting the entire facility with 40 hours of fuel stored on-site
- Switchgear: GE dual-fed AKD-10 switch-gear and Spectra Series Switch panels
- PDU: United Power Systems 300 kVA dual-fed, static transfer switch controlled system

## SQUARE FOOTAGE

- 3,000 Sq. Ft. of Client Vault Space

## BUILDING

- Concrete block structure with blast resistant carbon reinforced steel lining the guest entry mantrap
- Servers housed in Lampertz vaults.
- Vaults protected against EMP, smoke, and harmful gasses, fire, unauthorized entry, moisture and water

## COMPLIANCE POSTURE

- Double interlock pre-action fuel vaults with foam suppression
- VESDA

## COOLING

- Chillers: 3, 102-ton York screw chillers provide cooling through a closed loop system. Chiller plant is N+1 redundant
- Thermal Energy Storage: 20,000 gallons of chilled water stored on-site and brought online in the event of chiller plant failure. TES system can support the design load for 20 minutes with no chillers available and 40 minutes with one chiller available
- CRAH Units: 13, 20-ton units control temperature and humidity in the vaults. At design load, all vault are N+1 redundant
- Outside Air: 1 AAON AHU provides 2,350 CFM to maintain air quality in the site
- Automated Controls: All HVAC systems are monitored and controlled through a web-based Building Management System which is monitored 24x7