



NAP of the Capital Region™

An Ultra-Secure Datacenter Campus.

Terremark has developed one of the most advanced and secure datacenters in the world - the NAP of the Capital Region. Strategically located 60 miles from Washington D.C. in Culpeper, Va., the NAP of the Capital Region opened in June 2008 as the most secure and technologically sophisticated datacenter facility in the eastern United States, a groundbreaking design that meets the needs of today's power, space and bandwidth-intensive applications and hot/warm sites for disaster recovery and COOP environments.

Each 50,000 datacenter is a secure bunker, designed to provide public sector clients colocation space that meets standards for sensitive compartmented information facilities (SCIFs) managed by Terremark's Federal Group. Inside each datacenter, a professional security staff maintains and operates sophisticated surveillance systems, biometric scanners and secured areas for processing of staff, customers and visitors. Built to a power capacity of 160 watts per square foot, the NAP of the Capital Region accommodates today's power requirements for high-density computing environments with 100% service level agreements on power and environmental.

The 72,000 square foot main office building includes a 150-seat auditorium built to federal government Physical Security Standards for Sensitive Compartmented Information Facilities (SCIF) and approximately 50,000 square feet of Class A office space that can be built to SCIF specifications in order to meet specific customer demands.

Along with the highly secure meeting and office space available to federal government and enterprise customers, NCR's headquarters building is home to Terremark's newest, state-of-the-art Network Operations Center and conference rooms featuring advanced audiovisual and teleconferencing equipment to connect Terremark employees and customers worldwide. The building, which will also house the company's on-campus staff, is equipped with fully redundant backup systems for power and cooling infrastructure.

Facility Detail

SECURE COLOCATION

Terremark's NAP of the Capital Region offers a highly secure and reliable carrier-neutral environment to deploy your computing, network, storage and IT infrastructure. This world-class facility reduces the capital and operational expense required to house and protect mission-critical enterprise applications and systems. NCR is a physically redundant and secure facility designed to exceed the needs of enterprises and government agencies, including SCIF-rated environments.

Other Terremark colocation-related services offered are:

- Remote Hands/Smart Hands
- Installation Services
- Staging Services
- Engineering Services

GENERAL VIEW

- Five 50,000 sq.ft. datacenters
- 72,000 sq.ft. secure headquarters building
- 150 seat secure auditorium with additional offices and laboratory spaces meeting the most stringent federal security standards
- All engineering, technical and administrative staff located within office building to minimize foot traffic

SECURITY

- 10 ft. earth berm surrounding the entire campus with 150 ft. building set-backs
- Compliant fencing, video monitoring and electronic passage technology
- Roving perimeter security guards and operating building security guards
- DoD-trained anti-terrorism personnel on staff
- Tiered Access Control Protocols compliant and flexible to conform to all levels of established threat conditions
 - Primary entrance processing point outside the protected berm
 - Isolated shipping/receiving and freight inspection facility
- No vehicle traffic in the vicinity of datacenters

FACILITY FEATURES	NCR JUNE 2010	NCR FINAL BUILD OUT
Raised Floor Space	100,000	250,000
Power	16MW	40MW
Avg. Watts/ Sq. ft.	160	160
Generators	12	55
Fuel Capacity (gallons)	120,000	520,000
Fuel Capacity (days)	9	9

CARRIER-NEUTRAL CONNECTIVITY

- Fiber optic cable distribution scheme provides three physically diverse entry points for carriers to the two meet-point rooms and out to the operating buildings
- Connected to all Terremark facility optical peering switches
- An additional dark fiber link is designed to terminate in Terremark's Herndon Technology Center (HTC) and provides access to an additional nine local carriers
- High-capacity fiber links at HTC directly connected to the NAP of the Americas in Miami, where more than 160 other global carriers are available
- NCR is engineered for the installation of six 16-meter satellite ground stations with easy expansion to 12



FACILITY INFRASTRUCTURE

- Designed to exceed Uptime Institute Tier III requirements
- Federal operating buildings are constructed to provide microwave and RF shielding
- Operating buildings have extremely limited personnel presence to enhance security
- Each operating building has both interior and exterior video monitoring and UL-certified intrusion detection systems
- State-of-the-art fire detection and suppression systems using the latest advances in pre-action water
- Fiber optic cable meet-point room located in secure location with cross-connects and redundant tie cables to other buildings
- All buildings designed to have a Building Management System monitored by on-campus Secure Network Operations Center



HVAC INFRASTRUCTURE

- N+2 HVAC with 100% Service Level Agreement (SLA)
- Entire HVAC plant - chillers, compressors, heat exchangers, and distribution systems - monitored for all environmental operating parameters by a Building Management System allowing for performance trending, capacity analysis, alerts, automated response and reporting BMS is monitored by on-campus and Miami SNOCS



ELECTRICAL INFRASTRUCTURE

- N+2 power with 100% Service Level Agreement (SLA)
- Initial engineering provides for 160 watts per sq.ft. with the ability to configure 500 watts per sq.ft. and beyond
- Medium voltage commercial power backed up by 55 2.25 megawatt diesel generator sets
- Diesel generator runtime in excess of nine days
- NCR on county Critical Infrastructure Restoration list to assure priority in fueling to extend the seven-day run time if required
- UPS units also act as line conditioners by completely isolating critical operating building loads from the commercial power system
- Tiered Infrastructure Maintenance Standards (TIMS) allowing for performance trending, capacity analysis, alerts, automated response and reporting
- Each building's substation/power generation plant is cross-connected with the others, creating a highly robust and protected medium voltage infrastructure



Services

CLOUD COMPUTING

Terremark's Enterprise Cloud combines the power and flexibility of infrastructure-as-a-service with the expertise, security and availability that large organizations with mission-critical computing needs demand of their infrastructure. An easy-to-use Web-based management interface provides command and control over a cloud-based resource pool of compute, storage and network built on a fully clustered enterprise-class computing architecture. Enterprise Cloud Federal Edition includes specific security and infrastructure features required by government agencies.

MANAGED HOSTING

Terremark is a pioneer in the managed hosting industry, with more than a decade of experience managing complex, transaction-intensive applications for companies around the world. Terremark's premium hosting service and support is recognized by industry experts as among the best in the industry, and is leveraged by organizations from Fortune 1,000 companies to the leaders in Web 2.0 and interactive entertainment.

INFORMATION SECURITY

Terremark will provide the services, personnel, and the equipment needed to ensure the overall security posture of your organization. Thorough analysis and the resulting appropriate design is ensured by covering the IT infrastructure from the ground up: networking equipment, servers and desktops, applications, and policies and procedures.

DISASTER RECOVERY

Terremark's Virtualized Disaster Recovery (VDR) service is a fully managed replication and disaster recovery service, where Terremark provides the networking, compute and storage resources at the DR site on a capacity on demand basis. VDR enables customers to replicate data and operating systems from their production environment into a securely managed Cloud Computing environment located within the NAP of the Capital Region, where they can failover to a production-ready environment in the event of an outage at their primary facility.

DATA BACKUP & RESTORE

Terremark Backup & Restore provides secure, streamlined online-offsite data backup and restore that is highly scalable and easily customizable. Offsite backup is secured with encryption that meets the highest standards of security. This is a tape-free, agentless onsite/offsite backup service with a success rate in excess of 99 percent.

**TO SCHEDULE A TOUR OR TO LEARN MORE ABOUT THE NAP OF THE CAPITAL REGION
VISIT WWW.TERREMARK.COM OR CALL 800 983 7060.**

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