NCS Technologies Delivers Industry’s First Comprehensive, End-to-End VDI Solution

NCS Technologies has developed an industry-leading, scalable and flexible client virtualization solution that is cost effective, yet offers best-in-class hardware and VMware View™ to simplify and automate desktop management. IT managers no longer have to suffer large-vendor locked-in, over-pricing and a “one size fits all” mentality. For the first time, NCS takes the guesswork and stress out of a departmental or organizational VDI deployment. No other vendor can match the value, ease and convenience delivered in a virtual desktop implementation.

Why choose NCS? We offer years of relevant experience and are a recognized innovator. For scores of customers NCS designs and implements complex enterprise software solutions loaded onto hardware platforms delivered as purpose-built appliances. We have unique insight into how to modularize and integrate hardware and software for ease of deployment.

You can be confident that in your VDI deployment, NCS offers:

- High-level expertise with VMware trained and certified professionals
- A deep understanding of underlying hardware from back end to client devices
- A tested and proven capacity for software and hardware integration
- The practical knowledge and know-how of a recognized innovator in turn-key, pre-packaged VDI solutions that are easy to deploy and support
- The confidence that NCS will stand beside you every step of the way.
NCS VDI solutions are comprehensive and include all three elements (storage, compute & network), software and services, and endpoints, to make it easy and convenient to implement. With a suite of hardware and software complemented by quality services, our customers can quickly migrate their user base to a virtual desktop environment with a minimum of disruption. They are truly turn-key packaged solutions, unlike the more expensive custom design, integration and installation solutions sold by other vendors. Once the equipment is installed and connected to existing corporate networks, our qualified engineers will start configuring the virtual desktop infrastructure to each customer’s exact requirements and bring up the entire VDI in as little as a few days.

Hardware Building Blocks

**VMware Certified**

Depending on each customer’s existing requirements and future expansion plans, we recommend either a Hyper-Converged or Modular design.

**Hyper-Converged**

Two platforms form the basis for a Hyper-Converged design:

- **NexServ XRG-5281.** This 1U rackmount server can be configured with two Xeon E5 processors and a robust amount of hard disk or SSD storage. It will be sufficiently configured to function as a Virtual Desktop Manager appliance, which securely connects authorized users to centralized virtual desktops.

- **NexServ XRG-5262 x4.** This robust 2U rackmount server houses four independent nodes (systems). Each node will host two Xeon E5 processors. The four nodes collectively are capable of hosting hundreds of virtual desktop devices, depending on how they are configured and the user profile. It will function as the Virtual Desktop Hosting appliance with both compute and storage resources tightly integrated into each node.

**Modular**

The Modular design will also rely on two platforms where compute and storage resources reside in different sets of servers.

- **NexServ XRG-5281.** This versatile platform can be configured differently to serve two different functions. It can be configured to function as a Virtual Desktop Manager server. With a different configuration, it will serve to provide compute resources as a Virtual Desktop Host server. It will rely on storage provided by the NexArray platform. The two platforms, compute and storage, constitute our Virtual Desktop Host appliance.

- **NexArray 2401.** Connected to the Virtual Desktop Host server via a dedicated high-bandwidth switch, this platform provides storage for Virtual Desktop users. It is a robust 2U storage system with 24 drive bays and a dual redundant controller subsystem to ensure reliable operation.

By keeping the number of hardware platforms to a minimum, we achieve two objectives simultaneously: ease of initial deployment and streamlined on-going maintenance/support.
Software Building Blocks and Services

Software

Our VDI infrastructure relies on software suites from the industry leader VMware.

VMware is the most trusted virtualization platform for desktop, data center and applications. Dramatically improve the availability, performance and utilization of your IT resources through VMware virtualization, where the hardware resources of a single computer are used by multiple virtual machines. VMware offers the highest performing and most scalable virtualization and private cloud platform in the industry for even the most resource-intensive business critical applications at the lowest TCO.

Simplicity is one of the core design elements of storage management. NCS’ hyper-converged infrastructure eliminates the need for storage provisioning and storage management. Data services such as snapshots, zero-copy clones, local/remote replication, deduplication, in-line compression and thin provisioning are key elements of our hyper-converged solution.

Services

Our services are provided by highly trained professionals certified to deploy, maintain, and support both VMware and Microsoft products. They work closely with hardware engineers who specialize in configuring and supporting those NCS server platforms that form the backbone of each VDI deployment. The service is orderable on an hourly, daily, or weekly basis. It is also available on a remote or on-site basis.

- **Requirement Analysis.** Our experts listen and review the customer’s requirements and perform the necessary analysis to drive design considerations. We also gain an understanding for the existing or planned corporate network to determine the best course for the integration of our VDI solutions.
- **Design Consultation.** Based on our analysis of the requirements, we propose a solution to meet all customer-defined priorities and cost objectives. The design is presented in writing and serves as the Statement of Work for the next step of the engagement.
- **Solution Implementation.** We acquire all necessary hardware and software licenses to build and test the proposed solutions in our integration center. We then de-install, repack, and label them appropriately for on-site installation.
- **Installation.** Each installation involves both on-site and remote work. Our design narrows the scope of on-site work to making unboxing, setting up, and connect the equipment together and to the corporate network. Our experts then log in remotely to complete the installation by integrating the VDI solution to the corporate network domain, configure all VMware management tools, and provisioning VDs and their associated disk images.
- **Technical Support.** We provide technical support for both the hardware and software that make up our VDI solutions. Depending on the issue, different individuals with different skill sets engage with you, the customer.
About NCS Technologies

NCS Technologies, founded in 1996, is a leading domestic computer manufacturer. We operate from a modern campus located in Gainesville, Virginia. NCS designs, manufactures, distributes and supports our products from this single location. This concentration of our operations promotes close interaction and cooperation which enhances efficiency and drives creativity. Our strengths include innovation, speed, agility and flexibility.

The computers we build range from commercial-off-the-shelf laptops and desktops for use in offices and schools to custom-built high-performance servers for use in corporate networks as application delivery platforms. Designing and building computers for use as military tactical equipment or workstations in secure and compartmentalized operating environments are also an important part of our business. For instance, the Army deployed tens of thousands of NCS rugged tablets in ground vehicles as terminals for its logistics and tracking system. We design our systems to precisely meet our customer needs and build them to reliably operate in their intended operating environment.

Our computing solutions are in demand across many market segments, thanks to NCS Services. It is a suite of services that we offer as the platform to conceive, create and deliver outstanding computing solutions. This suite includes product design, integration and testing, manufacturing, warehousing, order fulfillment and end user support.

Whatever the challenge, we design, manufacture and deliver the exact computing solution required with the highest quality and reliability.

NAICS Classification Codes

- 334111 Electronic Computer Manufacturing
- 334112 Computer Storage Device Manufacturing
- 334113 Computer Terminal Manufacturing
- 334119 Other Computer Peripheral Equipment Manufacturing
- 423430 Computer and Computer Peripheral and Software Merchant Wholesalers
- 443120 Computer and Software Stores
- 541512 Computer Systems Design Services
- 541519 Other Computer Related Services

NCS Technologies, Inc. is registered to ISO 9001:2008 (quality management) and ISO 14001:2004 (environmental management). This status is the manifestation of our commitment to quality excellence and environmental stewardship.

- NCS is a Small Business
- CAGE Code: 1BEK6
- EIN: 54-1822366
- ORCA Registration Complete