

Cost-Effectively Expanding Healthcare Delivery at Point of Care (PoC) with NComputing's N-series in Citrix® Healthcare HDX Environments



Certified Citrix and Imprivata® Ready

Challenges in healthcare delivery

Role-based, secure and high performance access to medical applications and patient information when and where it is needed is critical to improving patient care—maybe even saving lives.

Today, healthcare organizations are asking IT to improve the efficiency of medical care delivery and streamline access to clinical applications and medical records, while maintaining high levels of security to protect patient privacy and meet compliance requirements.

At the same time, IT must reduce infrastructure and administration costs, while utilizing existing operating systems and networks.

One of the key decisions for healthcare organizations is what solution to deploy to ensure that doctors, nurses, clinical and support staff have secure access to appropriate data and applications at the point of care (PoC)—hospitals, satellite clinics, labs and doctors' offices.

Rather than use traditional dedicated PCs and PC-based applications for every user, many healthcare providers are using Citrix desktop virtualization solutions and NComputing's N-series Citrix® Ready HDX™ Verified System on Chip (SoC) Thin Client devices certified with Imprivata® OneSign® Single Sign-On to provide doctors, nurses and other staff with highly cost-effective, secure and flexible access to all required applications and information.

NComputing's N-series devices: cost-effective, secure user access

N-series thin client devices for Citrix healthcare customers dramatically lower the cost and complexity associated with delivering a rich HDX-based multimedia experience without compromising performance.

Purpose-built, optimized and certified exclusively for Citrix HDX, N-series devices deliver a complete HDX experience at approximately one-third the cost of typical HDX-capable PCs and traditional thin client devices. The low acquisition cost frees up budget for other IT and business-critical priorities associated with desktop

virtualization and specifically Virtual Desktop Infrastructure (VDI) deployments.

Powered by NComputing's own third-generation SoC, Numo™ 3, built on the efficient ARM Cortex A9, N-series devices support and simplify Citrix XenDesktop®, XenApp® and VDI-In-Box™ desktop and application virtualization deployments with full HD video while using less than 5 watts of power. The dual core design also delivers superior multi-tasking performance when many applications are running at the same time.

N-series devices are optimized to deliver HDX-based video content across all applications and application types in virtualized environments. They also provide specific optimizations for packet processing and encryption—ensuring minimal network impact with maximum network security—as well as offer flexible deployment with wired or wireless LANs.

With vSpace Management Center, IT can deploy and manage all of your N-series devices from a single web-based management interface. With the ability to create and manage profile groups, management of N-series devices is highly efficient.

N-series healthcare use cases

N-series devices can be used at nursing workstations, at point of care, within records management and across the entire workflow of patients and providers.

Built to eliminate moving parts such as fans and disk drives, N-series devices are quiet and without heat dissipation, thus improving sanitary standards in healthcare settings. Dust, clinical waste and cleaning fluids cannot enter the N-series devices unlike PCs that have less reliability due to these factors. With no PC operating system to corrupt and no need for virus protection, these secure endpoints are built to avoid disruptions in service. As a result of this reliability, the life of the N-series devices is far longer at six to eight years than the three-to-four year lifespan of PC-based solutions.



N-series devices enable role-based, secure access for doctors, nurses and other staff to easily log in to patient records, lab results and clinical applications, as well as personalized desktops. These healthcare use cases include:

- Point of care solutions with a combination of fixed or roaming stations
- Improving clinician workflows and staff experiences
- Improving medical records security, accuracy and administration

View PoC applications in fixed or roaming locations—N-series devices are architected to be valuable in a variety of use cases

and locations. Point-of-care applications can include lab order visualization and results, critical decision support and medical image viewing, as well as managing and tracking patient status. Some locations may be fixed, either at the patient bedside or a nurse's station while others need to be on a mobile cart for roaming purposes.

With both fixed and wireless models available and 4 USB 2.0 ports for appropriate peripherals such as a USB keyboard and mouse and proximity card reader, N-series devices are a core part of a medical infrastructure involving fixed stations, mounted access and mobile carts.

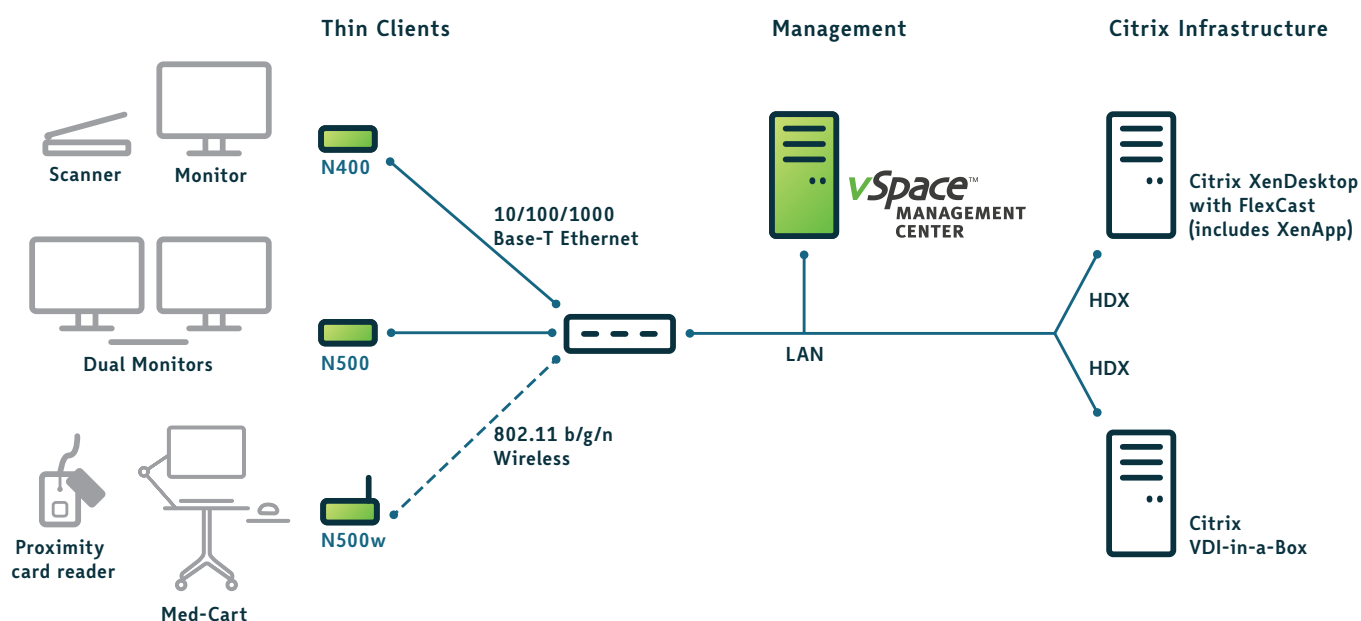


Figure 1: N-series Citrix Ready HDX Verified SoC Thin Clients Devices Certified with Imprivata OneSign Single Sign-On in Citrix HDX Deployments

Support any workflow, any application—With support for user authentication and proximity cards within a Citrix session, N-series devices can support any workflow and any medical application required.

- **Shared workstations**—Since practitioners are often moving rapidly through a facility, they need the ability to quickly update status or place orders from a workstation or medical cart. With N-series devices as a fixed or roaming endpoints and leveraging Imprivata OneSign Single Sign-On with authentication and Tap In Tap Out capabilities, users can use any workstation or mobile cart and log in in seconds rather than utilize a full PC login/logout sequence, saving hours of time on a daily basis

- **Persistent application session from one station to another**—As medical staff move among N-series-enabled stations, N-series devices and Citrix infrastructure support session roaming with persistent access
- **High performance for data- and graphics-intensive applications to support medical imaging**—N-series devices are architected to provide the highest levels of performance needed for viewing medical imagery and crunching the largest data sets. This design results in the highest levels of workflow efficiency at the point of care for even the most demanding visual applications

Enable highly secure access to medical records and hospital systems— N-series devices are the final piece in a highly secure and compliant IT infrastructure. N-series devices can uniquely support encrypted SSL sessions with the appropriate performance and response times. N-series devices are built for security.

- Offer no independent storage and can be locked down to prevent USB access. Records are available only to approved staff without compromising the ability to perform services quickly and effectively
- Minimize exposure to security or data leakage since they have a very small attack surface and support a full set of encryption capabilities. With a fully embedded operating system, the devices require full authentication for changes to any management or configurations

N-series thin client device benefits

The advantages of using the N-series thin client devices rather than traditional PCs are compelling.

- Reduced cost and green
- Flexible, secure deployment and mobility
- Improved performance
- Sterile and reliable
- Simplified web-based management

Why NComputing

NComputing accelerates the adoption of desktop virtualization through a unique formula of simplicity, performance and value. NComputing serves more than 50,000 businesses across 140 plus countries worldwide with a focus on education, healthcare, manufacturing, financial services and government markets.

NComputing markets and sells its portfolio of desktop virtualization offerings via a worldwide network of over 1600 value-added reseller and channel partners delivering complete solutions to their customers. NComputing maintains strategic global alliance partnerships with key technology providers to the desktop virtualization market, such as Citrix, Imprivata and Microsoft. Global sales offices support customers and partners in North and South America, Europe, India, and the Asia Pacific region.

Support and Subscriptions

NComputing's Support and Subscription services provide customers of vSpace Management Center for N-series access to regular software updates and upgrades, online web resources and direct access to dedicated N-series and vSpace Management Center support engineers. To activate your service, click here:

<http://www.ncomputing.com/support/activate>

Availability

NComputing's N-series thin client device is available through a global network of partners:

<http://www.ncomputing.com/partners/find>

For more Information

For more information on NComputing's N-series thin client device, please visit:

<http://www.ncomputing.com/products/nseries>