

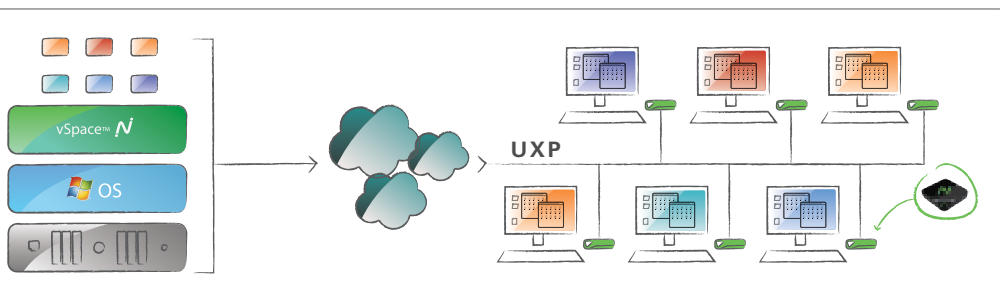


## vSpace™ Desktop Virtualization Software

NComputing vSpace Desktop Virtualization software allows multiple users to share a single operating system – all at the same time, and at revolutionary low costs. NComputing's patented vSpace software divides a computer's resources into independent virtual workspaces that give each user their own rich PC experience. vSpace handles the desktop display and remote activities from the user's keyboard and mouse (via the virtual desktop) providing multiple users simultaneous access to a single Windows or Linux operating system instance. And, because we design the entire stack, software, protocol and hardware, only NComputing can deliver a highly optimized and performant, end-to-end desktop virtualization solution.

vSpace also integrates with server virtualization infrastructure solutions from VMware, Citrix and Microsoft. It extends their value by changing the typical virtual desktop structure from one user per virtual machine to thirty users per virtual machine. When paired with server virtualization infrastructure solutions you can support hundreds of users on a server with a minimal number of operating systems.

### Typical vSpace Configuration



*vSpace allows up to 30 users to share a single operating system as if it were their own unique operating system.*

### Selective Virtualization

Whereas many solutions virtualize everything on the OS, vSpace utilizes a multi-layer virtualization technique, selectively virtualizing only the necessary elements of the OS and hardware and combines that with session management to provide a great user experience with the system resources that are applicable to the user. Selective virtualization is one of the key features of vSpace that enables using inexpensive PC class hardware by generating more efficient CPU and system utilization.

### Open, Flexible OS Support

NComputing provides the industry's broadest Windows and Linux desktop virtualization platform choice. vSpace supports multiple versions of Windows and Linux including Windows Server 2008R2 64-bit and Ubuntu 10.0.4. This breadth of support means that customers can harness all the performance and cost advantages of desktop virtualization in heterogeneous environments with significantly less management and IT support requirements.

### Secure & Convenient Desktop Roaming

Desktop roaming, or session mobility enables a user to logoff from one client workstation and have the user's session "follow" the user to another client workstation. This allows the user to have instantaneous access to the user's current desktop and application from multiple client devices, enabling complete flexibility in the work environment.



### vSpace Key Features

- Highly optimized for best price:performance
- Creates multiple user workspaces within a single OS
- Communicates with virtual desktops via the NComputing User eXtension Protocol (UXP)
- Dynamically detects, compresses and accelerates multimedia
- Increases server CPU utilization with selective virtualization
- Compatible with industry leading applications, OS and server virtualization solutions
- Supports multiple versions of Windows and Ubuntu Linux
- Desktop roaming enables complete flexibility in workplace environments



## Centralized Administration

With the vSpace administration console, any desktop administrator can easily set up, configure, and manage shared computers and access devices with no additional training. For the L-series access devices, the console allows an administrator to remotely monitor and, if necessary, control a user's session. Access device settings can be configured centrally, including the ability to lock out a USB device connection or select access policies based on Active Directory. For the X-series, the vSpace console lets you assign host computer USB ports to individual users.

## Rich Multimedia Support

NComputing has created its own optimized and highly efficient User eXtension Protocol (UXP) in order to give its users a full, rich PC experience. As a result of this patented protocol, NComputing solutions give users the most responsive and interactive experience possible with multimedia applications including streaming video, Flash, and 3D graphics.

- Key Features**
- Automatically distributes shared computer resources among multiple independent user sessions
  - Selective virtualization keeps resource utilization low
  - Developed specifically for NComputing access devices to deliver the best possible performance at the lowest possible price
  - Communicates with access devices via NComputing's own optimized and highly efficient User eXtension Protocol (UXP)
  - Compatible with operating system virtualization solutions for both 1:1 and 1:many configurations
  - Includes administration console to manage access device settings, sessions, and updates
  - Excellent multimedia support with synchronized audio and video

- Administration Console Features**
- Provides information about active sessions
  - Send message to any current session
  - Stop session for any current session
  - Network broadcast of a message to any session on the same network
  - Shows applications running, station names, user names, connection status, IP address (L-series only)
  - View station and remotely control the mouse and keyboard (L-series only)

- Software Components**
- vSpace desktop virtualization software
  - Internet registration utility
  - Update utility
  - Virtual Audio and Video Drivers
  - Virtual USB Driver (L230 only)

- Supported Access Devices**
- L-series (L130, L230, L300)
  - X-series (X350, X550)

- Supported Operating Systems\***
- Microsoft Windows 32 and 64-bit
  - Ubuntu Linux 32 and 64-bit

\* Please refer to the Microsoft operating system licensing requirements and technical details at [www.ncomputing.com/mslicensing](http://www.ncomputing.com/mslicensing). Specific Linux support information is available in the NComputing Knowledge Base.

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DATASHEET VSPACE-DVS 1A