



Product Release Notes for NComputing IP Utility (NIU), 1.92 Release

Thank you for using NComputing® products. These release notes contain important information regarding the newest available release for your NComputing device or software. NComputing strongly recommends you read the entire document thoroughly prior to installation.

Product: NComputing IP Utility (NIU) for L-series or X-series products

Version: 1.92 release for Windows

Notes and errata for this version include:

- NIU installs and manages a programmable number of Virtual Network Interfaces on the host PC. Once installed (within vSpace or NComputing Terminal Services software), NIU associates one virtual network adapter to each active session started for an L-series or X-series device and thus provides a unique IP address for each session. Without NIU installed, all NComputing devices that run on a host use the host PC's IP address to communicate to the outside world.
- Please note that using the NIU function requires additional IP addresses to be obtained from the LAN DHCP (Dynamic Host Configuration Protocol) pool.
 1. An X-series host without NIU only needs one IP address which is shared for all virtual desktop sessions. With NIU installed, an X-series host needs an IP address for each user that may login to the host. For instance, a host with one X300 card installed and using NIU will obtain a total of 4 addresses from the DHCP server.
 2. In an L-series environment, each L-device always requires one IP address of its own to communicate with the host. Without NIU installed, each L-series host only needs one IP address for all its network communications. With NIU, the vSpace host machine will obtain and use an extra IP address for each L-device to which it needs to connect. For example, an L-series host using NIU to support 30 virtual desktop sessions will need to obtain 31 IP addresses from the DHCP server, and each of the 30 L-series devices will obtain its own IP address for a total of 61 IP addresses consumed on that network.
- Using X-series cards, only one virtual IP is required per user station but the ports are assigned in the physical port order on our PCI card (1, 2, 3 ...). Therefore if you are using Port 3 on the card then four IP's must be generated to cover the host PC, port 3 and the two before it, even if only one physical station is connected to port 3 on the PCI card.
- Persistent static IP addresses are not available within NIU for L-series device connections. Although it is possible to assign static IP addresses to the Virtual Network Adapters, upon reboot, vSpace will re-assign virtual NICs to device sessions on a first-come, first-served basis. Therefore, users re-logging-in to the host may not be assigned the same IP as in their previous login.
- This version of NIU only runs on 32-bit Windows Server 2003 or Windows XP Pro and in collaboration with L-series software v4.03.99 or later or for X-series versions v4.03.100 and vSpace v4.4.2.2 or later.
- An activation key is required for each host on which NIU is installed. Version 1.9.2 has an initial TRIAL period for 30 days following installation. An additional or update license key from NComputing will be needed to use this software past the initial period. NComputing reserves the right to modify this license at any time.
- To activate for a trial period, simply bypass the registration screen during the install process, and no activation code is needed.
- Some terminal services aware applications such as IP based messaging or print control and auditing software need the ability to uniquely identify each of its running instances in order to correctly exchange messages between sessions and hosts. NIU may allow these applications to recognize the devices correctly in an NComputing virtual desktop environment but some applications may not have the capability to recognize virtual IP properly. Please test your applications before deployment.
- File-sharing connections are not virtualized and stay global.

- The NIC configuration process within Windows is individual and sequential; therefore, each new NIU IP address that is created also increases the host systems boot time.
- Adding virtual NIC requires that Windows must enumerate each card sequentially, this means that once new NICs are added that the boot process of NComputing sessions and the launch of the NC NIU console may be delayed waiting for networking enumeration to occur.
- The NIC configuration process within Windows is individual and sequential; therefore, the boot time of the host will be extended for each new NIU IP addressed that is created.

Additional Resources

- For general information about NComputing Inc., please visit our web site at: <http://www.ncomputing.com>.
For support please visit <http://ncomputing.com/support.aspx>

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