



## Product Release Notes: NComputing vSpace<sup>®</sup> Software for the L-series version 4.09.004

These release notes contain important information regarding the newest available vSpace software release for your L-Series NComputing desktop virtualization kits. Please read this entire document prior to installation.

**Product:** NComputing vSpace for L-Series devices

**Version:** 4.09.004.8 (or 4.9.4.8) for 32-bit versions of Microsoft Windows Server 2003 R2 and Windows XP\*

**Supported Hardware:** NComputing L-series family of products\*\* including the L300.

### ***What's New – Summary:***

This is a maintenance release that replaces the previous vSpace 4.9.3.5 release. The following is a summary of the key changes, please read the rest of this Release Note for more details:

- New firmware version 1.3.5 for the L300 access device with numerous improvements
- USB plug/unplug improvements affecting both USB and audio performance and stability
- System stability improvements for installations running within virtual machines
- Added support for Dell x10 family servers
- Additional fixes for setting screen resolution within a session, supporting auto-logon in Windows XP\*, supporting the key-repeat function within a session and improving Window scrolling performance

### ***Important notes on this release:***

- **Prior to performing an update:** It is always best to have a back-up plan prior to an update for any in-production system. With installations on physical machines this can either be setting a Restore point in Windows or taking an image of the hard drive install using imaging tools. With

installations on virtual machines, a VM snapshot is a simple and quick approach to accomplish this.

- **Updating from a prior vSpace installation:** If your system already has an official release installed including the prior official releases that used .MSI installers (vSpace 4.9.3, 4.9.2, or 4.9.1) – then simply run the new .MSI installer file to update the installation. Do NOT uninstall first. You may also update using the Update Wizard which also downloads and runs the .MSI installer. If you have an older vSpace installation such as vSpace 4.5.2 or earlier – please uninstall vSpace first and then proceed per below, as for a first time installation.
- **First time installation on a new system:** If vSpace has not been installed before, you should run the setup.exe file that is included with the 4.9.4.8 package. The setup.exe will first install the necessary Microsoft components needed for the .MSI install and will then call the .MSI installer.
- **Registration Required:** This vSpace release includes a trial license and must be registered to allow L-series device operation beyond 1 hour of session time. If you are updating from a previous registered vSpace version and uninstalled its license information during the update, you must run the Registration Wizard and register this version before your L-series devices will be able to connect to this host.
- **Update of L300 Firmware Required:** This release includes new firmware for the L300 access device (firmware version 1.3.5). You need to update the firmware on your L300 devices to benefit from all the improvements in this version of vSpace. Note that depending on which version of firmware you have installed, you may need to perform the update process twice in order to get to firmware version 1.3.5 (you can check the firmware version from the NC Console at C:\Program Files\NComputing\NComputing vSpace\NcConsole.exe or by viewing the Information screen in the L300 firmware interface). If after your first firmware update you see that the device has not updated to 1.3.5, simply repeat the firmware update process (either manually from the L300 device or pushed from the NC Console).
- **Do not install on a U-series or X-series host:** This release is only intended to be installed on a clean OS or to upgrade a current L-series vSpace host. Do not install it on an OS where vSpace for the U- or X-series was previously installed.

### ***Changes from vSpace version 4.9.3:***

- If you did not upgrade to 4.9.3 please see the 4.9.3 release notes in our Knowledge Base for previous improvements.
- USB flash disk support bug fixes that result in support of repeated plug and un-plug cycles on the L300.
- General improvements to host I/O stack stability affecting support of USB peripheral and audio devices.
- Host system stability improvements when running in a VM environment.
- Added support of Dell X10 server series
- Resolved minor screen resolution setting issue evident with MS KB981957 and KB2436673 on Server 2003/XP\*
- Window scrolling improvements for smoother response
- Fixed autologon function in Windows XP\*
- Removed installation of Media Player Classic from installer.

### ***L300 firmware release v.1.3.5, changes from v1.2.8:***

- To upgrade to the latest L300 firmware (v1.3.5), each device must at least be at firmware version v1.00.000. This means that any L300 device that is not at version 1.00.000 or newer must update twice to receive the latest v1.3.5 firmware. See our Knowledge Base or the user manual for specific L300 firmware upgrade instructions.
- Resolved issue that stopped USB flash disk support after ~10 plug/un-plug cycles.
- Improvements to USB mouse and keyboard initialization on power up. Resolves unrecognized keyboard issues on certain devices. Also added wireless keyboard support and support for Brazilian, German and Japanese keyboards inside a session.
- Works for default gateway set to 0.0.0.0, both in DHCP and static mode

- Fixed hold-down repeat key issue when inside a vSpace session
- In the event of no-network cable or no DHCP server present, the firmware will timeout and enter setup after about one minute (it will no longer stay at the “one moment please” notice).
- Support for 1600x900x24, 1600x900x16 and 1920x1200x16 resolutions.
- “Esc” works more reliably to quit auto-connect/auto-login loop
- Auto-login feature re-enabled in firmware
- FTP credentials and update method are saved when pushing new firmware
- Various user interface, layout and usability improvements

#### **Tips & Errata Items**

- If using the online vSpace Update Wizard, please use “save the file” and install the file locally; the Update Wizard’s “run” function will not install vSpace directly from the internet.
- When autoconnect is enabled and you wish to gain access to the L300 setup screens, use the "ESC" key during the L300 boot cycle to exit the autoconnect process and reach the GUI
- Full-screen Flash video: when running accelerated Flash video in full screen, CPU utilization will be significantly higher than for other accelerated video formats. Future versions will continue to reduce CPU utilization of full screen accelerated video.
- Video Streaming: the L300 can support one transcoded stream at a time per device
  - Video: only the first video using DirectShow in the user's session will stream to the L300, subsequent multiple accelerated streams (launching a new player) will not be supported simultaneously. In the future multiple simultaneous accelerated streams are planned. The first streaming instance for a given L300 must be exited to release the streaming DirectShow pipeline.
  - Flash acceleration is more dynamic, if a second video is played and covers the previous Flash window then the streaming pipeline will switch.



- If connecting over 25 users, please watch the Windows Server 2003 and Windows XP 536 MB paged memory limit. If paged memory usage starts to get above 515MB, we advise not connecting any further users.
- When a video or Flash stream starts, you may see a very brief blue window where the video stream will play. This is normal behavior but will be further minimized in a future release.

\*Windows Server and appropriate client access licenses are required for multiuser environments using NComputing products. Client operating systems such as Windows XP, Windows Vista and Windows 7 are appropriate for single user applications such as 1:1 VDI, display systems and remote access. Additional information on licensing is available at [www.ncomputing.com/mslicensing](http://www.ncomputing.com/mslicensing) including frequently asked questions.

\*\*Older L100 units (those requiring manual entry of serial numbers) are not supported. The last version to support these units is vSpace 4.4.7.

#### Contacting Technical Support and Additional Resources

- Visit the NComputing Knowledge Base at on the NComputing Support page at [www.ncomputing.com](http://www.ncomputing.com) for more detailed information and help.
- To request Technical Support, please visit the NComputing Support page and fill out an online Technical Support request
- For general information about NComputing please visit us at <http://www.ncomputing.com>

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#### GPL Declarations

The NComputing L300 access device contains – in part – some free software (software licensed in a way that ensures your freedom to run, copy, distribute, study, change and improve the software). This free software is also contained in the L300 firmware update files that are distributed together with NComputing vSpace software installation packages that are expressly for the L300. The free software contained within the L300 firmware includes a version of X-LOADER, U-BOOT, LINUX, LIBSYSFS, LIBUCI, LIBUSBIP, ETHTOOL, UCLIBC, QT and BUSYBOX. The aforementioned software components are free (see [www.gnu.org/philosophy/free-sw.html](http://www.gnu.org/philosophy/free-sw.html) for more details) software programs developed by the Free Software Foundation, a separate not-for-profit organization without any affiliation to NComputing, Inc. As part of the distribution of an L300 device and the associated vSpace software installation package you were granted a license to the free software under the terms of either the GNU General Public License or GNU Lesser General Public License ("Licenses"; copies of which are available from [www.gnu.org/licenses/licenses.html](http://www.gnu.org/licenses/licenses.html)). Further, for at least three (3) years from the date of distribution of the applicable product or software, we will give to anyone who contacts us at [gplcoderequest@ncomputing.com](mailto:gplcoderequest@ncomputing.com), for a charge of no more than our cost of physically performing source code distribution, a complete machine-readable copy of the complete corresponding source code for the version of the software that we distributed to you.

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4.9.4 Release Note Updated January 28, 2011