

vSpace Pro 11 LTS for Windows (version 11.3.15 LTS Release)

RELEASE NOTES

April 9, 2025



400 CONCAR DRIVE 4TH FLOOR | SAN MATEO | CALIFORNIA 94402

PRODUCT RELEASE NOTES: NCOMPUTING VSPACE PRO LTS (VERSION 11.3.15 LONG TERM SUPPORT)

Product: NComputing vSpace Pro LTS for Windows

Version: 11.3.15 Long Term Support (LTS)

Supported Operating Systems*:

- Windows Server 2016
- Windows Server 2012 R2 U1
- Windows Server 2012
- Windows Server 2008 R2 SP1
- MultiPoint Services Role - Windows Server 2016
- Windows MultiPoint Server 2012
- Windows MultiPoint Server 2011
- Windows 10 Enterprise Edition (64-bit)
- Windows 10 Pro Edition (64-bit)
- Windows 8.1 (64-bit)
- Windows 7 SP1 (64-bit)

Supported NComputing Access Devices and Clients:

- L400 with firmware version 1.0.4 or newer
- RX300/RX300+ with firmware version 4.2.16*
- L250, L300 and L350 (L-series) with firmware version 1.15.1* or newer
- M300, MX100S and MX100D (M/MX-series) with firmware version 2.4.8*
- vSpace Pro Client for Windows**, version 2.6.0
- vSpace Pro Client for Chromebook**, version 1.8.2

** Firmware update files are already included in the vSpace Pro LTS software. These devices can update firmware directly via the vSpace Pro server.*

Supported vSpace Manager and vSpace Console:

- vSpace Manager, version 1.7.17
- vSpace Console, version 3.0.4

* For licensing details, see: <http://www.ncomputing.com/mslicensing>.

** vSpace Client is supported for desktop session delivery only and does not include the management options available for other access devices.

Supported Server OS variants include Standard, Enterprise, and Datacenter.

Note that only 64-bit versions of Windows operating systems are supported.

The following notes contain important information. Please read this entire document to ensure that your installation and deployment process goes smoothly.

ABOUT THIS RELEASE:

vSpace Pro 11.3.15 LTS is a maintenance release to the previous vSpace Pro 11.3.14 LTS and earlier versions. This version is intended to be used by NComputing customers who wish to stay on the long-term support for their deployment without future features and functionality enhancement. This is the long-term support (LTS) version that is replacing the previously released vSpace Pro 10.x and 11.x versions. NComputing does not plan on adding significant new features or enhancements to this LTS version. However, from time to time we will release new versions of vSpace Pro 11 LTS to address critical security patches.

VSPACE PRO SOFTWARE COMPLIANCE REQUIREMENT

Please review the [NComputing software end-user license agreement](#).

Please refer the following link to learn more about NComputing's vSpace Pro Software compliance policy related to NComputing legacy thin client devices:

<https://support.ncomputing.com/portal/kb/ncomputing/vspace-pro-compliance-amp>

If you deploy with vSpace versions prior to 10.x (e.g. vSpace 6, 7 or 8), this new policy change does not affect you.

If you deploy with vSpace Pro Software (vSpace Pro 10.x, vSpace Pro 11.x and vSpace Pro 11.3 LTS), and some or all your NComputing thin client devices were manufactured before January 1st 2015, then please carefully read the following:

NComputing legacy devices are defined as L250, L300 and M300 devices that were manufactured prior to January 1st, 2015. vSpace Pro Server Software is designed and developed by NComputing Global, Inc. and is exclusively licensed and permitted for use by NComputing devices manufactured from 2015 to the present.

Effective July 1st, 2019, customers can receive an exemption allowing the use of legacy devices by becoming compliant with the NComputing AMP program to access any vSpace Pro Software (vSpace Pro 10.x, 11.x and vSpace Pro 11.3 LTS). AMP compliance requires the purchase of an AMP subscription for all NComputing devices (regardless of manufacture date) that are connected to vSpace Pro Software or acquire sufficient Aged Device Connection licenses for the NComputing legacy devices.

If you have older devices that were manufactured prior to January 1st, 2015, you must comply with one of the following conditions:

Option 1: Purchase vSpace Pro AMP licensing (NC-AMP-1A) for all of your compatible NComputing devices regardless of manufacture date connected to all of the vSpace Pro Software (vSpace Pro 10.x, 11.x, vSpace Pro 11.3 LTS and vSpace Pro Enterprise Edition) installations registered to your customer account.

Option 2: Purchase vSpace Pro Legacy Device licensing (vSpacePro-Old-1A) for all the devices manufactured before January 1st, 2015. This license only permits the use of the older devices with vSpace Pro Software and does not include the benefits of vSpace Pro AMP.

Failure to comply with the NComputing AMP program requirements and continued use of legacy devices may result in interruption of vSpace Pro Server Software functionality.

If you are using vSpace Pro version 10.x, 11.0, 11.1, 11.2 or 11.3.1 and do not have sufficient AMP or Aged Device Connection licenses then the service disruption may affect your entire deployment regardless of device age. In this case, all of your devices will not be able to connect to vSpace Pro Server. The older versions of vSpace Pro 10.x, 11.0, 11.1, 11.2 and 11.3.1 do not include the advanced logic to detect the age of the device attempting a connection and therefore the disruption is not able to discriminate based on the device age.

Starting with vSpace Pro 11.3.2 LTS or later version, the service disruption will be limited to only those older devices manufactured before January 1st, 2015 that do not have sufficient AMP or Aged Device Connection licenses. To minimize the system-wide impact, we encourage you to upgrade to the latest vSpace Pro 11.3.10 LTS version.

NEW PRODUCT FEATURES, CHANGES, AND IMPROVEMENTS (11.3.15 LTS)

vSpace Pro LTS Edition version 11.3.15 is a maintenance release that replaces version 11.3.14 and earlier. This update includes important security enhancements, and we strongly recommend L250, L300 and M300 users upgrading to this version.

Tips:

➤ When updating a vSpace custom installation where vSpace Server and vSpace Manager reside on different host machines, always update the vSpace Server component first before updating the vSpace Manager. The updated vSpace Manager can only connect to the updated vSpace Server, so following the correct update sequence helps minimize downtime during the upgrade process.

IMPORTANT NOTE #1:

- NComputing has migrated to using enhanced security certificates for vSpace Pro software. Previous versions of vSpace Pro came with SHA1 security certificates. Following the industry trend we now only use SHA2 security certificates in vSpace Pro.
- If you use Windows 7 or Windows Server 2008 R2 and do not have SHA2 security certificate patch applied to the OS, you will not be able to install vSpace Pro 11.3.12 LTS or higher versions. In this case, you must be updated to accept SHA2 security certificates. Other newer Windows OSes support SHA2 security certificates by default.
- Please review our ['Knowledge Base article'](#) for details of the requirements including the specific Microsoft updates you must apply before you can install this version of vSpace Pro software on Windows 7 and Windows Server 2008 R2.

IMPORTANT NOTE #2:

- The RX300 firmware version 4.2.16 and higher can only be upgraded from RX300 firmware version 4.0.5 or higher version.

- If you have RX300 firmware version 3.x or 2.x, you must first upgrade to 4.0.5 firmware before you can upgrade again to a higher firmware version.
- This is due to in RX300 firmware version 4.0.5 we eliminated the Raspbian Desktop operation mode and subsequent firmware update is only compatible when upgrading from 4.0.5 or higher firmware version.
- For convenience purposes, NComputing has provided the following HTTP URL which can be used for the RX300 firmware update:

<http://firmware.ncomputing.com/RX300/rx300-4.0.5.upd>

PREVIOUS RELEASE NOTES (11.3.14 LTS)

vSpace Pro LTS Edition version 11.3.14 is a maintenance release that replaces the previously released version 11.3.13 and earlier.

vSpace Console new features:

- Enabled vSpace Console broadcast support from L250/L300/L350 to the L400 thin client; devices must be set to the same display resolution.

vSpace Manager bug fixes:

- LSR-979 - Resolved the vSpace Pro LTS offline registration issue.

PREVIOUS RELEASE NOTES (11.3.13 LTS)

vSpace Pro LTS Edition version 11.3.13 is a hotfix release that replaces the previously released version 11.3.12 and earlier. This version is intended for customers who have encountered occasional vSpace licensing issues with RX300 and RX300+ devices.

PREVIOUS RELEASE NOTES (11.3.12 LTS)

vSpace Pro 11.3.12 LTS carries over all features and enhancements from the previous vSpace Pro 10, 11.1, 11.2 and 11.3 LTS releases and is intended to be used by NComputing customers who wish to stay on the long-term support for their deployment.

vSpace Server & vSpace Console new features:

- Added support for NComputing L400 thin client, including user session & device management with vSpace Console.

vSpace Server bug fixes:

- RDSL-7497 - Fixed a rare vSpace Manager crash issue that occurred when registering and unregistering the vSpace Pro server in a short time frame.

- RDSL-7496 - Fixed an issue where the very first session couldn't start within a few minutes after a fresh or updated vSpace installation.

Following is the new improvement introduced in RX300 firmware version 4.2.16 (from the previous 4.2.15 release), which comes with vSpace Pro Enterprise Edition 11.3.12:

- Updated software components for vCAST Streaming in vSpace session.

PREVIOUS RELEASE NOTES (11.3.10 LTS)

vSpace Pro LTS version 11.3.10 comes with the following enhancements and bug fixes:

vSpace Server enhancements:

- Support for Windows 10 21H2 release.

vSpace Console enhancements:

- General software maintenance including security patches, libraries and software modules updates.

vSpace Console bug fixes:

- RDSL-7410 - Fixed vSpace Console cannot start in domain environment.

Following are the new product features introduced in RX300 firmware version 4.2.2 which comes with vSpace Pro LTS Edition 11.3.10:

- Support for PMC's device 'lost' and 'found' feature related to device ownership (ability to lock lost devices and unlock found devices).

Other improvements introduced in RX300 firmware version 4.2.2:

- Enhanced PMC URL auto-discovery mechanism.
- Updated vCAST streaming software [vSpace and RDP connection modes].

The following RX300 firmware issues have been fixed in version 4.2.2:

- RX-2006 - Auto desktop connection feature does not work [VERDE VDI].
- RX-2000 - vSpace USB headset volume sound is too low.
- RX-1996 - Issues with static DNS after disconnecting VPN.

PREVIOUS RELEASE NOTES (11.3.9 LTS)

vSpace Pro 11.3.9 LTS carries over all features and enhancements from the previous vSpace Pro 10, 11.1, 11.2 and 11.3 LTS releases and is intended to be used by NComputing customers who wish to stay on the long-term support for their deployment.

vSpace Pro LTS version 11.3.9 comes with the following enhancements and bug fixes:

vSpace Server enhancements:

- Support for Windows 10 21H1 release.

vSpace Server and vSpace Console bug fixes:

- Fixed the issue in the previous vSpace Pro interim release (version 11.3.8) where incorrect drivers were installed in Windows 8, Windows Server 2011 and Windows 2012 OS environment. If vSpace Pro Enterprise 11.3.8 was previously installed in the above Windows OS environment, we recommend customers uninstalling 11.3.8 first before installing 11.3.9.
- RDSL-7401 - In some cases vSpace installation does not perform post-install cleanup.
- RDSL-7380 - Dual display mouse cursor position is incorrectly scaled in X and Y coordinates after newest Windows 10 updates.
- RDSL-7397 - RX300 with SDA (secondary display adapter) showed blackscreen on the secondary display in native 1366x768 resolution.
- RDSL-7381 - The 'Find Session' feature in vSpace Console in device list does not always work.
- VCON-814 - Sorting preference order should be saved after restarting vSpace Console.

PREVIOUS RELEASE NOTES (11.3.7 LTS)

vSpace Pro 11.3.7 LTS carries over all features and enhancements from the previous vSpace Pro 10, 11.1, 11.2 and 11.3 LTS releases and is intended to be used by NComputing customers who wish to stay on the long-term support for their deployment.

vSpace Pro LTS version 11.3.7 comes with the following enhancements and bug fixes:

vSpace Console enhancements:

- Supported device management of RX300 firmware version 4.0.5 (without Raspbian Desktop operation mode).
- Make the Session 'View' and 'Take control' windows resizable.

vSpace Console bug fixes:

- VCON-859 - Fixed RX300 display parameters in vSpace Console to match device setting menu.
- VCON-716 - In Sessions->View, horizontal scroll bar is hidden under Windows Taskbar.
- VCON-835 - Incorrect screen saver timeout displays in vSpace Console.

Following are the new product features introduced in RX300 firmware version 4.0.5 which comes with vSpace Pro 11.3.7 LTS:

- Additional VPN clients:
 - L2TP/IPsec VPN client.
 - IKEv2/IPsec VPN client.

- FortiClient SSL VPN client.
- Notifications about availability of firmware updates.
- Support for Subnet Tags (when managed by the upcoming PMC 2.6).
- Ability to set up a custom boot splash image.
- Support for the shutdown command sent by vSpace Console.

Other improvements introduced in RX300 firmware version 4.0.5:

- VPN reconnect after plugging in the Ethernet cable.
- NTP date and time update after plugging in the Ethernet cable.
- New default NComputing wallpaper.
- Updated vCAST web streaming components.

The following RX300 firmware issues have been fixed in version 4.0.5:

- RX-1910 - Incorrect calculation of MD5 sums for certificate files added manually.

PREVIOUS RELEASE NOTES (11.3.6 LTS)

vSpace Pro 11.3.6 LTS carries over all features and enhancements from the previous vSpace Pro 10, 11.1, 11.2 and 11.3 LTS releases and is intended to be used by NComputing customers who wish to stay on the long-term support for their deployment.

vSpace Pro LTS version 11.3.6 comes with the following enhancements and bug fixes:

vSpace Server bug fixes:

- RDSL-7306 - Rare BSOD of host with high CPU load over an extended period of time.
- RDSL-7307 - RX300 displayed a black screen instead of a session when 'Video stream support' is disabled in vSpace Console.
- RDSL-7293 - vCAST MOJO player did not work on Windows 10 1903.
- RDSL-7291 - Reconnect to session with different resolution froze client and disconnected session on Windows 10 1909.
- RDSL-7290 - Fixed the improper saving of "Disconnected Session Cleanup Timeout" value in vSpace Console on Windows Server 2008R2 and Windows 7 host machines.
- RDSL-7285 - Fixed a rare BSOD issue after connecting RX300 devices with connected USB peripheral devices.

vSpace Console bug fixes:

- RDSL-7292 - vSpace Console broadcast feature did not work on Windows 10 1903.

Following are the new product features introduced in RX300 firmware version 3.9.2 which comes with vSpace Pro LTS version 11.3.6 release:

- Support for the VERDE Remote Access feature (VERDE 8.2.7 or higher version).

Other improvements introduced in RX300 firmware version 3.9.2:

- Reduced Wi-Fi settings application time.
- Improved behavior of the Wi-Fi icon.
- 1270x720 will be set as Automatic resolution when the device will be booted up without any HDMI monitor connected.
- Improved system daemons reloading procedure when applying configuration changes.
- Improved RDP sessions stability by disabling audio redirection when "No audio output/input" is at the top of audio priority list.
- Improved dialog box for selecting USB devices identified by custom VID:PID.

The following RX300 firmware issues have been fixed in version 3.9.2:

- RX-1833 - GUI crash when Ethernet, VPN and PMC were connected and the Ethernet cable was unplugged/plugged.
- RX-1832 - OpenVPN: The key file specified as parameter of the tls-auth entry of .ovpn file does not get copied from memory stick.
- RX-1828 - The Ethernet interface sometimes get disabled after firmware recovery.

PREVIOUS RELEASE NOTES (11.3.5 LTS)

vSpace Pro 11.3.5 LTS carries over all features and enhancements from the previous vSpace Pro 10, 11.1, 11.2 and 11.3 LTS releases and is intended to be used by NComputing customers who wish to stay on the long-term support for their deployment.

vSpace Pro LTS version 11.3.5 comes with the following enhancements and bug fixes:

vSpace Server component:

- New NComputing display driver (based on the Remote Indirect Display Driver model) to ensure compatibility with upcoming Windows OS updates.
- Bug fixes for vSpace Pro offline registration support
- Support for the new RX420(vSpace) thin client (powered by Raspberry Pi4) with native dual display

vSpace Console bug fixes:

- VCON-949 - Resolved vSpace Console crash issue when connected L-series devices have long device password of more than 16 characters

Following are the new product features introduced in RX300 firmware version 3.6.6 which comes with vSpace Pro LTS version 11.3.5 release:

- Troubleshooting information collector tool
- Firmware upgrade option from local USB memory stick (upgrade RX300 firmware versions from 3.6.6 to future higher firmware versions)

Other improvements introduced in RX300 firmware version 3.6.6:

- Improved device configuration settings applying routines for PMC

- VERDE client improvement to report more device details to VERDE server

The following RX300 firmware issues have been fixed in version 3.6.6:

- RX-1755 - Inaccurate message about 'Empty group' after applying profile from vSpace Console.
- RX-1753 - User authentication may fail in RDP Client mode when username is specified as UPN.
- RX-1752 - RemoteApp connection fails when RD Session Host is using a non-standard port number.
- Updated vCAST streaming software component
- RX-1758 - Cups auto detection 'USB printer identification' string if is empty in configuration

PREVIOUS RELEASE NOTES (11.3.4 LTS)

vSpace Pro 11.3.4 LTS carries over all features and enhancements from the previous vSpace Pro 10.x, 11.1, 11.2 and 11.3.x LTS releases and is intended to be used by NComputing customers who wish to stay on the long-term support for their deployment.

Following are the new product features and enhancements with vSpace Pro 11.3.4 LTS release:

vSpace Server component:

- (RDSL-7231) Fixed the issue where installing vSpace Pro 11.3 LTS on Windows Server 2008 R2 host machine would result in black screen when manually login on the host machine.
- (LSR-912) Fixed vSpace Pro offline registration functionality; NComputing devices manufactured prior to January 1, 2015 are not supported in vSpace Pro offline registration mode.

vSpace Console improvements:

- Fixed an issue where vSpace Console could not connect to vSpace Manager on Windows Server 2008 R2 and Windows 7 OS.
- (VCON-946) Fixed rare vSpace Console crash issues.
- (RDSL-7202) New passcode support in MultiView application from vSpace user session.
- (VCON-947) Improved RX300 serial number presentation in vSpace Console.

Following are the new product features introduced in RX300 firmware version 3.6.0 which comes with vSpace Pro 11.3.4 LTS release:

- 802.1x network authentication support on Ethernet interface.
- Remote Desktop Gateway support for RDP connections.
- Native redirection of ReinerSCT cyberJack smart card readers.
- Support for vSpace for Linux.
- User experience settings for RDP connections.
- Date and time saving on device shutdown and restoring on device bootup.
- History collection for manually entered RemoteApp RD Web Access URLs.

Other improvements introduced in RX300 firmware version 3.6.0:

- FreeRDP client updated to the latest stable version.
- Username field validation in Kiosk Mode / User auto-logon configuration.
- Username field auto-population on logon screens.
- Domain field auto-population on RDP/RemoteApp logon screen.
- Improved input fields focusing rules on logon screens.
- Improved error handling when RemoteApp support is enabled.
- Internet Proxy support for VERDE VDI connections.
- Support for ext2, ext3, and ext4 file systems on locally mounted USB storage devices (used for native redirection or installation of certificates).
- Updated NComputing Pi Zero SDA firmware.
- Network connection loss detection for vSpace sessions.
- Increased video playback smoothness during vCAST Media Streaming with VLC player 3.0.6.
- Displaying the wallpaper during firmware update installation.
- Cosmetic changes and spelling improvements in the GUI.

The following RX300 firmware issues have been fixed in version 3.6.0:

- RX-1732 - Dual screen: When using touchscreen as primary display with position set to 'Second' and the Pi0 SDA as secondary display the touchscreen events are applied to secondary display.
- RX-1731 - Device fails to connect to PMC through auto-detected address when the DHCP reply is delayed.
- RX-1730 - Possibility to freeze the RX300 device when user presses the Sleep button when the auto-connect countdown reaches zero
- RX-1722 - Unplugging Ethernet when vSpace client is connected to vSpace Server ends with frozen session.
- RX-1715 - Device gets stuck without GUI when HTTP URL will be specified as RD Web Access URL.
- RX-1673 - WiFi interface remains active after scanning WiFi networks.
- RX-1665 - Touchscreen doesn't work when USB SDA adapter is connected.
- RX-1655 - Syslog gets spammed with "'action 17' suspended" messages.
- RX-1654 - Kiosk Mode application and application directory are not excluded from xfreerdp arguments when launching RDP RemoteApp programs.
- RX-1649 - Setup GUI allows saving an empty administrator password.
- RX-1643 - Green LED does not indicate SD card activity anymore after using the sleep/power button to wake the device up from sleep mode.
- RX-1641 - USB composite devices do not redirect into VERDE/RDP sessions (with Incentives Pro VID:PID list redirection)
- RX-1639 - [Dual display] RX300 + Pi0 SDA: session disconnect in less than a minute from logon.
- RX-1631 - Some keyboard shortcuts are blocking mouse and keyboard events.
- RX-1630 - User does not get logged out from RemoteApp list if screen saver action is set to "Disconnect sessions..."
- RX-1629 - ntfs-3g deb package for NTFS filesystem will not be installed if firmware update starts on firmware older than version 3.2.16.

- RX-1628 - Loss of PMC connection after disabling WiFi if autodiscovered PMC address was in use.
- RX-1626 - Device is collecting wallpapers instead of replacing old wallpaper with the new one.
- RX-1619 - VNC screen shadowing stops working after display resolution change.
- RX-1607 - Inability to use VNC if it was turned on at the same time when reconfiguring screen resolution.
- RX-1602 - RemoteApp: All icons presented by task-switcher are identical.
- RX-1595 - vCAST Web Streaming waits in infinite loop on some Vimeo videos.
- RX-1591 - DisplayLink adapter doesn't work after waking the device up from sleep mode.

PREVIOUS RELEASE NOTES (11.3.2 LTS)

vSpace Pro 11.3.2 LTS carries over all features and enhancements from the previous vSpace Pro 10, 11.1, 11.2 and 11.3 LTS releases and is intended to be used by NComputing customers who wish to stay on the long-term support for their deployment.

Following are the new product features and enhancements with vSpace Pro 11.3.2 LTS release:

- Support for Windows 10 compatibility up to version 1903 (May 2019 Update)
- Support for vSpace Pro offline registration for customers without Internet connection.

Important note:

once the vSpace Pro software offline registration is completed, the vSpace Pro server(s) must remain offline without Internet access. If Internet connection is detected by vSpace Pro Software, the vSpace Manager will automatically be disconnected and all vSpace Pro Software operation will cease. You would then need to perform the offline registration process again and ensure that all Internet access is disabled before you can use vSpace Pro Software.

Following are the new product features introduced in RX300 firmware version 3.4.9 which comes with vSpace Pro 11.3.2 LTS release:

- Support for RemoteApp and Desktop connections.
- Support for native (functional) redirection of printers in RDP sessions.
- Support for VNC screen shadowing.
- Ability to setup a desktop wallpaper.
- Enhanced vCAST Web Streaming with Vimeo support.
- Enhanced vCAST VLC Media Streaming with NComputing SDA support.
- PMC connection status display.
- Calibration tool for touch screen monitors.
- Ability to select screen saver action.

- Lock-up of the 'Domain' field on the logon screen if a domain name is pre-configured in Kiosk Mode settings.
- Additional splash screen at the early stage of device boot-up process.
- Ability to configure 'Custom RDP parameters' for RDP connections in VERDE VDI Client mode.
- Improved behavior of the logon screen in VERDE VDI Client mode when the 'Allow using custom VERDE Connection Brokers' option is enabled.
- Cosmetic changes and spelling improvements in the GUI.

Following are the new RX300 firmware features requiring vSpace Pro Enterprise Edition:

- Enhanced multi-touch screen and smart board support.

PREVIOUS RELEASE NOTES (11.2):

Following are the new features, changes, and improvements carried over from recent vSpace Pro 11 releases:

vSpace Server component:

- vCAST Streaming is now a standard feature (i.e., free).
vCAST Streaming reduces server-side CPU usage when users watch web videos like YouTube or play local media content and does so without the need for expensive GPUs. This technology results in higher quality video streaming without CPU bottlenecks, allowing for more concurrent users on your system. Two flavors of vCAST Streaming are available:
 - vCAST Web Streaming: provides client-side rendering of HTML5 video contents (e.g., YouTube) played using the Google Chrome browser.
 - vCAST Media Streaming: provides client-side rendering of H.264-encoded video content played in Windows Media Player or VLC Player.

Click [here](#) to learn about different NComputing thin clients' support of vCAST Streaming.

- Session Broadcasting is now a standard feature (i.e., free).
Session Broadcasting provides screen sharing functionality, allowing one screen to be broadcast to others. This allows an instructor to broadcast his or her screen, or a student's screen, to other users connected to the same vSpace Server. Great for presentations, sharing local or web videos, or highlighting other content within a group.

Click [here](#) to learn how to.

- New session "Block All" as a standard feature (i.e., free).
Blanking all active session provides instructors or team leaders instant control to focus attention of the audience. The user session's screen is blocked and keyboard and mouse activity is disabled while blanking is in effect.

Click [here](#) to learn how to.

- Access vSpace Multiview window with a passcode from a non-admin Windows user account:
 - Multiview, a popular feature from vSpace 8, is back in vSpace Pro 11. MultiView provides a dashboard of active session thumbnails, allowing a lead user to message other users, or take control of their sessions.
 - With vSpace Pro version 11.2.0 the Multiview window can now be accessed from non-admin account which a valid passcode (set by the admin). This further expands the use cases for classrooms and workgroup environment to allow non-admin users to manage other user sessions.
 - Click [here](#) to learn how to.
- Support of Arduino and Microbit boards (e.g., for student's coding classes) with NComputing thin clients in the vSpace environment. The COM Ports Management option must be enabled in vSpace Console.
Click [here](#) to learn how to.
- Extended smart card support for RX300 and vSpace Pro Client for Windows is now a standard feature (i.e., free):
 - If your organization requires smart cards for single sign-on, access control or other security-related measures, vSpace Pro version 11.2.0 provides enhanced smart card support for both RX300 and vSpace Pro Client for Windows with no limit on the number of smart card readers can be connected per vSpace Server. In this case, functional (native, virtual-channel-based) redirection of smart card readers has been added to overcome the limits of the Generic USB-based smart card reader redirection implemented in vSpace Pro 10.x and vSpace Server 8.4.
 - Other thin clients (L/M/MX-series thin client) still have the restriction of a maximum of 10 connected smart card readers per vSpace Server.
 - Click [here](#) to learn more on how to configure smart card reader support for different NComputing thin client families.

Following are other new features, changes, and improvements for vSpace Server component carried over from vSpace Pro 10.5.1 release:

- RDSL-7096 - Further enhanced UXP 2.0 with adaptive UXP compression based on a combination of increased compression level and longer screen refresh to further reduce network bandwidth while still providing great user experience (vSpace Pro version 11.2.0).
- RDSL-7110 - Added WACOM and Topaz signature pads support on RX300 thin client through generic USB redirection; please refer to “Additional Notes and Workarounds” section for further details (vSpace Pro version 11.2.0).

Click [here](#) to learn how to.

- RDSL-6911 - Added support for Arduino and Microbit development boards connected to NComputing thin clients (vSpace Pro version 11.2.0).
- RDSL-7106 - vSpace server side enhancement to support higher DPI scanner resolution (vSpace Pro version 11.2.0)
- RDSL-6994 - Added registry entries to enable application auto-start on desktop operating systems.
- RDSL-6973 - "Load USB after logon" parameter added to RX300 performance profiles.
- RDSL-6928 - Automatic backup of vital vSpace Pro registry keys to minimize the risk of registry key corruption caused by major Windows OS updates.
- RDSL-6906 - General UXP audio/video playback performance improvements in higher display resolutions.
- RDSL-6884 - Removal of multiple instances of the virtual display card to speed up loading of some applications.
- RDSL-6856 - Higher MOJO compression rate.
- RDSL-5344 - Improved virtual display driver loading procedure to speed up loading of some applications.

Following are other new features, changes, and improvements for vSpace Console carried over from vSpace Pro 10.5.1 release:

- Code refactoring providing better performance, improved stability, and extended scalability (vSpace Pro version 11.2.0)
- VCON-929 - Security enhancement in CMserver.exe; disabled SSL3, TLS 1.0 and TLS 1.1, and ONLY enabled TLS 1.2 (vSpace Pro version 11.2.0).
- VCON-930 - Security enhancement in CMServer.exe; disabled insecure ciphers in TLS 1.2 (vSpace Pro version 11.2.0).
- VCON-932 - Added Multiview window access in non-admin mode with passcode authentication (vSpace Pro version 11.2.0).
- VCON-923 - Added new session "Block All" and "Unblock All" features in Multiview window; the user session's screen, keyboard and mouse will be blocked while blanking is in effect (vSpace Pro version 11.2.0).
- Device list is auto refreshed during launching of vSpace Console (vSpace Pro version 11.2.0).

Following are RX300 firmware improvements carried over from firmware version 3.1.3:

- RX-1300 - Enhanced password encryption for autologin (RX300 version 3.2.13)
- RX-1297 - Enhanced scanner support (RX300 version 3.2.13)
- RX-1291 - Support new "Blank All" feature from Multiview to block screen, keyboard and mouse (RX300 version 3.2.13)
- RDSL-7110 - Added WACOM and Topaz signature pads support on RX300 thin client through generic USB redirection; please refer to "Additional Notes"

and Workarounds” section in the end for further details. (vSpace Pro version 11.2.0)

- Support for PMC device management.
- Integrated VERDE VDI Client with support for UXP and RDP protocols.
- Support for NComputing Pi Zero-based Secondary Display Adapters (SDA) with firmware version 0.9.3 or higher.
- Support for vCAST Windows Media Player Streaming, in addition to vCAST VLC Player Streaming (up to version 2.2.6).
- Functional (native) redirection of ACS and CCID-compliant smart card readers; please refer to the “Additional Notes and Workarounds” section below.
- Granular control of peripheral devices redirection.
- Support for external WiFi adapters; please refer to the “Additional Notes and Workarounds” section below.
- Improved power button behavior when ‘sleep mode’ is active.

PREVIOUS RELEASE NOTES (11.0 AND 11.1)

The following are vSpace Pro (vSpace Server component) issues that have been fixed and carried over from recent vSpace Pro 11 releases:

- RDSL-7115 - Fixed the issue where the USB smart card reader attached to L300 device does not work properly (vSpace Pro version 11.2.0)
- RDSL-7116 - Created flag in registry for smart card reader compatibility mode using DATEV application; the default registry flag is SupportDATEV = 0 for maximum smart card application compatibility mode. Set SupportDATEV = 1 if DATEV application is to be used for smart card reader.
- RDSL -7093 - Fixed the issue where the smart card readers are redirected to main host session instead of device session on Windows 10 version 1803 (vSpace Pro version 11.2.0)
- RDSL-7060 - Fixed vCAST web streaming issue on RX300 with Pi Zero SDA connected for dual display where the Chrome browser always showed “NComputing vCAST: error” message (vSpace Pro version 11.2.0).
- RDSL-7081 - Rare black screen issue when connecting to Windows 10.
- RDSL-7063 - BSOD in usbport.sys on Windows 10 Professional.
- RDSL-6979, RDSL-6980 - BSOD when trying to redirect from L300 the Identiv CLOUD (uTrust) 2700 F smart card reader.
- RDSL-6905 - vSpace Console: inability to connect to License Server.

- RDSL-6842 - Mouse pointer disappears in dual display sessions on Windows 10 1709.
- RDSL-6719 - Incorrect HORZSIZE and VERTSIZE values returned by the GetDeviceCaps API function for UXP sessions (which results with incorrect font spacing in some applications).
- RDSL-5151 - Slow startup of .NET applications.

The following are vSpace Console issues that have been fixed and carried over from recent vSpace Pro 11 releases:

- VCON-931 - Fixed the incorrect message issue when attempting to change device settings (Failed to get settings Reason: Out of memory) (fixed in vSpace Pro version 11.2.0)
- VCON-924 - Fixed the issue where sometime after refresh of whole network, devices from outside the network are added to the device list (fixed in vSpace Pro version 11.2.0)

The following RX300 firmware issues have been fixed in version 3.4.9:

- RX-1614 - GUI termination due to receiving the SIGUSR1 signal just after boot.
- RX-1525 - VERDE Client: Domain name disappears when username is being entered.
- RX-1506 - Static IP Configuration: No error message is displayed if alphabetic characters are entered.
- RX-1460 - Some special Japanese keys do not work in vSpace sessions.
- RX-1458 - Connections to VERDE VDI or vSpace Servers fails after switching Network from Wireless to Ethernet (and vice-versa).

The following RX300 firmware issues have been fixed and carried over from earlier releases:

- RX-1287 - Fixed vCAST web streaming issue where after pause web videos on dual monitors cannot be synchronized (fixed in RX300 version 3.2.13).
- RX-1297 - Fixed scanner crash issue (fixed in RX300 version 3.2.13).
- RX-1285 - Fixed Gemalto PC/SC Bridge can't detect Yubikey smart card connected to RX300 (fixed in RX300 version 3.2.13).
- RX-1171 - Device gets stuck with black screen after logoff from session with USB headset connected.
- RX-1168 - Missing Bluetooth and WiFi interfaces in Raspbian Desktop Mode.
- RX-1134 - Device reboot is required to apply Enterprise WiFi related network changes.
- RX-1097 - Device does not refresh the IP address automatically from DHCP after physically changing connection to another subnet.
- RX-886 - Problems with firmware downloads through FTP proxy.

- RX-878 - Freeze during YouTube video playback.

The following L-series firmware issues have been fixed in this product version:

- TT-780 - L350 units hang with the mouse cursor in the middle of the screen and they remain unresponsive.
- TT-778 - Outdated SSH server.

KNOWN ISSUES:

- Please refer to <https://support.ncomputing.com/portal/kb> for known issue details.

GENERAL INSTALLATION INSTRUCTIONS:

New vSpace Pro LTS installations should be performed on machines with fresh installs of supported Windows OS versions. vSpace Pro LTS relies on Remote Desktop Services thus the Remote Desktop Services must remain enabled after vSpace Server installation to ensure correct system operation. When installing vSpace Pro LTS on a standalone Windows Server (not belonging to Active Directory domain) the Remote Desktop Services will be automatically enabled during vSpace Server installation. When installing vSpace Pro LTS on a Windows Server joined to an Active Directory domain the Remote Desktop Services must be enabled prior to vSpace Pro LTS installation.

Any application software should be installed after completing vSpace Pro LTS installation and rebooting the system.

Refer to '[vSpace Pro Software Quick Installation Guide](#)' for more detailed installation instructions.

For vSpace Pro 11.3.12 (or higher version) LTS offline registration, please [click here](#) for detailed installation instructions.

UPGRADING INFORMATION:

vSpace Pro LTS can only be installed on machines running supported Windows OS, where no vSpace Pro 10.x nor vSpace Server 8.x is installed, as upgrades from these versions are not supported. Upgrades from vSpace Pro 11.0 (version released to selected customers only) and higher versions are supported.

RX300 FIRMWARE:

This vSpace Pro LTS comes with RX300 firmware version 4.2.16. For correct operation with this vSpace Pro 11 version, and to ensure best performance and remote management, all RX300 devices need to be upgraded to firmware version **4.2.16 or newer versions.**

vSpace Console included in vSpace Pro 11 can only manage a subset of RX300/RX300+ configuration settings. For full RX300/RX300+ feature set

management the separate PMC endpoint management system should be used (requires active Annual Maintenance Program).

L-SERIES FIRMWARE:

This vSpace Pro LTS comes with L-series firmware version 1.15.1. For correct operation with this vSpace Pro 11 version, and to ensure best performance and device management, all L-series devices need to be upgraded to firmware version 1.15.1.

M/MX-SERIES FIRMWARE:

This vSpace Pro LTS comes with M/MX-series firmware version 2.4.8. For correct operation with this vSpace Pro 11 version, and to ensure best performance and remote management, all M/MX-series devices need to be upgraded to firmware version 2.4.8.

ADDITIONAL NOTES AND WORKAROUNDS:

- **RX300 support for USB signature pad models:**

Following are USB signature pad models which have been pre-configured in vSpace Pro 11.3 server with proper server isolation (i.e. user A will not see the signature pad connected to user B).

On RX300 thin client, generic USB redirection policy must be applied to the connected signature pad for the peripheral to be recognized by vSpace. You can do so from RX300 setting menu > Peripherals > Custom > Custom VID:PID. Enter the VID and PID of the connected signature pad so this peripheral will redirect to the vSpace Server.

- VID PID 056A:00A1 Model: WACOM STU-500
- VID PID 056A:00A2 Model: WACOM STU-300
- VID PID 056A:00A3 Model: WACOM STU-520A
- VID PID 056A:00A4 Model: WACOM STU-430
- VID PID 056A:00A5 Model: WACOM LCD Signature Pad STU-530
- VID PID 056A:00A6 Model: WACOM STU-430V
- VID PID 056A:00A7 Model: WACOM LCD Signature Pad STU-530V
- VID PID 056A:00A8 Model: WACOM LCD Signature Pad STU-540
- VID PID 056A:00A9 Model: WACOM LCD Signature Pad STU-541
- VID PID 0403:6001 Model: Topaz Signature Gem T-LBK462-BSB-R
- VID PID 06a8:0043 Model: Topaz Signature Gem T-L462-HSB-R

- **RX300 functional (native) redirection of smart card readers**

Functional redirection of smart card readers leverages the PC/SC daemon and smart card reader drives embedded in the device firmware. Please refer to RX300 firmware Release Notes for list of smart card reader drivers that are supported with native redirection.

- **vCAST Media Streaming**

vCAST Media Streaming supports up to and including VLC Player version 2.2.6.

- **The ‘USB Audio Redirection’ option on L-series firmware**

By default the “USB Audio Redirection” option in the L-series firmware is not enabled, **this is the recommended configuration**. vSpace Server sessions will default to use the ‘NComputing virtual audio device’ for playback and recording of locally connected USB headset (or other USB audio device) to an L-series client. This is the simplest and recommended setup. In this case when both USB and analog headset are simultaneously connected to an L-series client, the client device will default to use the connected USB headset for all audio playback and recording.

With “USB Audio Redirection” enabled vSpace provides redirection of the USB audio device to the host Windows server and uses the host servers appropriate Windows audio device driver for playback and recording to and from USB audio devices that are connected to an L-series device. In this case the users Windows session will report the USB audio device name in the Windows device manager alongside the ‘NComputing virtual audio device’.

With the ‘USB Audio Redirection’ option enabled the user in his/her vSpace Server session can access two audio devices:

- 1) the ‘NComputing virtual audio device’ (with input/output assigned to the L-series’ integrated audio jacks),
- 2) the locally connected USB audio device with its original name.

Using a USB headset (or other USB audio device) with the ‘USB Audio Redirection’ option turned on usually allows a higher audio sampling rate (which should result in improved sound quality), but also consumes increased network bandwidth as larger amounts of audio data are required to be transferred between the vSpace Server and the client device. As USB audio devices tend to be timing sensitive, the sound may occasionally get choppy or stutter if the network is not able to sustain the audio data traffic data rates in a busy network environment. In some circumstances, where L350 devices are used with HD monitors, in rare occasions it is possible for audio playback to be disabled when playing web videos, if you experience this problem you will need to re-boot your L350 access device. For this reason, we do not recommend using USB Audio redirection with L350 access devices.

- **Truncation of the last few seconds of sound recording**

Under certain system and network conditions, when recording sound without enabling the ‘USB Audio Redirection’ option, the recording start time may be delayed and the last few seconds of the recording might be truncated. This happens because the client device buffers voice data prior to it being

sent to vSpace Server. The keyboard and mouse events however will be sent immediately, without buffering. This results in the sound recording application to receive the “stop recording” event before receiving all the recorded data. To avoid the possibility of truncated recordings users should wait a second or two after finishing the recording before stopping a recording. To minimize this effect, the UseAdvancedMicThread REG_DWORD value can also be set to 0 in the HKLM\SYSTEM\CurrentControlSet\Control\Multiuser registry key on the vSpace Server.

- **HTML5 video playback with Internet Explorer 11**

To ensure successful playback of HTML5 videos on Windows Server 2008 R2 the Desktop Experience feature and an update for the Desktop Experience Decoder must be installed.

See: <https://support.microsoft.com/en-us/kb/2483177> for more details.

- **Power Plan settings of vSpace Server**

When using vSpace Server, especially on desktop versions of Windows OS, the Power Plan settings should be configured in a way, which will never allow the hard disks to be turned off or the computer to enter the sleep or hibernation state after a period of inactivity.

- **Using a physical host with AMD/ATI GPU**

When using a physical host with AMD/ATI GPU it's advisable to install the video driver only, without the Catalyst Control Center (CCC.exe) utility. This would prevent potential memory leak in AMD's Catalyst Control Center which may affect system instability.

CONTACTING TECHNICAL SUPPORT AND ADDITIONAL RESOURCES

- Visit the NComputing [vSpace Pro website](#) to learn about vSpace Pro LTS, vSpace Pro Enterprise Edition and common FAQs.
- Please use the following link to learn about vSpace Pro Compliance policy related to NComputing thin clients manufactured prior to January 1, 2015:
<https://support.ncomputing.com/portal/kb/ncomputing/vspace-pro-compliance-amp>
- Please use the following link to review the updated terms in the NComputing end user license agreement for vSpace Pro:
<https://support.ncomputing.com/portal/kb/articles/ncomputing-software-eula>
- Visit the NComputing Knowledge Base at <https://support.ncomputing.com/portal/kb> for more information, guides, and walkthroughs.
- To request Technical Support, please visit the NComputing Support page at <https://www.ncomputing.com/support/support-options>

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