

# Novell Client 2 SP4 for Windows Readme

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## 1 Naming Conventions

Novell Client for Windows refers to the version of the Novell Client for Windows 7, Windows 8, Windows 10, Windows Server 2008 R2, and Windows Server 2012.

Novell Client 2 SP4 for Windows refers to the support pack release of the Novell Client for Windows 7, Windows 8, Windows 10, Windows Server 2008 R2, and Windows Server 2012 product.

## 2 What's New in Novell Client 2 SP4 for Windows

The following changes are included in Support Pack 4.

- [Section 2.1, "Support for Accessing NCP Volumes that are Greater than 16 TB," on page 1](#)
- [Section 2.2, "Delayed Closing of Cached File Opens," on page 1](#)
- [Section 2.3, "Modifications to Bad Name Cache and Bad Address Cache," on page 2](#)
- [Section 2.4, "Support for Permanent Good Name Cache and Modifications to Permanent Bad Name Cache," on page 2](#)

### 2.1 Support for Accessing NCP Volumes that are Greater than 16 TB

Novell Client 2 SP4 for Windows is extended to support NCP volumes that are greater than 16 TB.

### 2.2 Delayed Closing of Cached File Opens

Novell Client 2 SP4 has implemented the Lazy Close feature which can be enabled in the Novell Client Properties. Prior to Novell Client 2 SP4, the *Lazy Close* parameter was available in the Novell Client Properties since it was planned and intended for inclusion in Novell Client. However, beginning with Novell Client 2 SP4, setting the *Lazy Close* parameter to "On" will cause the actual "Lazy Close" behavior to occur.

The Lazy Close feature provides performance benefits for applications that are repeatedly accessing the same files frequently and in rapid succession. Instead of closing a file handle with the NCP server immediately, Lazy Close will wait for a short duration of time, so that if an application wants to immediately re-open the same file again, Novell Client will be able to proceed using the already open NCP file handle without causing any delay.

The Lazy Close feature and the caching of byte-range locks that was introduced in Novell Client 2 SP3 (IR10), intend to further maximize application performance when Novell Client for Windows "File Caching" is enabled. The Lazy Close feature is currently disabled by default, and must be turned on for workstations that use applications which can benefit from this optimization. Also, the Lazy Close feature is always disabled if the File Caching feature is not turned on.

There are optional Lazy Close-specific File and Directory timeouts available that can be configured in the Novell Client Properties. Even though configuration is not required, these parameters are available in case there are application scenarios where a shorter or longer delay can help maximize performance improvements. For more information, see [Lazy Close](#) in the [Novell Client 2 SP4 for Windows Administration Guide](#).

## 2.3 Modifications to Bad Name Cache and Bad Address Cache

Novell Client 2 SP4 modifies the behavior of the previously introduced Bad Name Cache and Bad Address Cache. Previously, the Bad Name Cache and Bad Address Cache were always enabled, such that every bad server name or address was cached for 5 minutes, with no way to disable these features. Beginning with Novell Client 2 SP4 for Windows, you can now enable or disable the Bad Name Cache and Bad Address Cache using the `BadNameCacheEnabled` and `BadAddressCacheEnabled` registry entries. For more information, see [TID 7015227](#).

## 2.4 Support for Permanent Good Name Cache and Modifications to Permanent Bad Name Cache

Novell Client 2 SP4 introduces a Permanent Good Name Cache that enables you to define the list of only those servers and eDirectory tree names that Novell Client should attempt to resolve and connect to. By defining this list, Novell Client will attempt to resolve and connect to only those servers or eDirectory tree names that are specified in this list and will not attempt to connect to any server or eDirectory tree name that is not specified in this list. It is essential to include the eDirectory tree name to this list to enable login to the eDirectory. This feature can be used by using the registry entries `PermanentGoodNameCacheEnabled` and `GoodNameCacheList`. For more information, see [TID 7015227](#).

Novell Client 2 SP4 also modifies the registry entry name for the previously introduced Permanent Bad Name Cache feature. Beginning with Novell Client 2 SP3 (IR8), Permanent Bad Name Cache enables you to rectify performance issues caused by delays in attempting to locate resources which cannot be reached by Novell Client. The Permanent Bad Name Cache feature is controlled using the registry entries `PermanentBadNameCacheEnabled` and `BadNameCacheList`. In Novell Client 2 SP3 IR (8), the Permanent Bad Name Cache was controlled using the `BadNameCacheEnabled` registry entry. However, beginning with Novell Client 2 SP4, it is controlled using the newly introduced `PermanentBadNameCacheEnabled` registry entry. For more information, see [TID 7015227](#).

# 3 Installation

## 3.1 Supported Windows Platforms

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**IMPORTANT:** The Novell Client 2 SP4 for Windows (IR1) is only for Windows 7, Windows 8, Windows 10, Windows Server 2008 R2, and Windows Server 2012 on x86 or x64 platforms. This client will not run on Windows Vista, Windows Server 2008, or earlier Windows platforms.

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The Novell Client 2 SP4 for Windows (IR1) is supported on the following platforms:

- ♦ Windows 10 (x86 or x64)  
(Enterprise Edition, Education Edition, or Professional Edition)
- ♦ Windows 8.1

- ♦ Windows Server 2012 R2
- ♦ Windows 8 (x86 or x64) excluding Windows 8 RT
- ♦ Windows Server 2012 (x64)
- ♦ Windows Server 2008 R2 SP1 (x64)
- ♦ Windows Server 2008 R2 (x64)
- ♦ Windows 7 SP1 (x86 or x64)
- ♦ Windows 7 (x86 or x64)  
(Ultimate Edition, Enterprise Edition, or Professional Edition)

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**NOTE:** The Novell Client for Windows is also supported in Remote Desktop Services and Desktop Virtualization environments.

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The Novell Client for Windows might run but is not supported on Windows Starter, Home Basic, and Home Premium editions. On Windows Server platforms, the Novell Client for Windows might run but is not supported on Datacenter Edition, Web Server Edition, or on Server Core installations using any edition.

## 3.2 Supported Server Platforms

The Novell Client for Windows supports Novell Open Enterprise Server (OES) 2015, OES 11 SP2, OES 11 SP1, OES 11, OES 2, and NetWare 6.5.

## 3.3 Installing the Novell Client

To install the Novell Client 2 SP4 for Windows, run the `setup.exe` file located in the `C:\Novell\Novell Client 2 SP4 for Windows` directory.

## 3.4 Uninstalling a Later Novell Client to Reinstall a Previous Novell Client Version

The NMAS client installed with Novell Client for Windows includes NICI as a required dependency. Uninstalling the Novell Client automatically uninstalls the NMAS client, but intentionally does not uninstall NICI because other applications on the workstation besides NMAS or the Novell Client may still be using NICI services.

If you uninstall the Novell Client with the intention of installing a previous version of the Novell Client, it is recommended that you also uninstall NICI (and NICI for Windows x64, if running Windows x64) before re-installing the previous Novell Client for Windows release.

Attempting to install the initial or an earlier Novell Client for Windows without first removing NICI can result in one or more of the following issues:

- ♦ During installation of the Novell Client for Windows on Windows 7 x64, the NMAS Challenge/Response method will report a 1603 error. This is because the NMAS client included in the initial release cannot resolve its required dependencies using the newer version of NICI still present on the machine.
- ♦ When starting up, the Windows welcome screen on Windows x64 displays an error, such as The procedure entry point `CCSX_Authenticate` could not be located in the dynamic link library `ccswx64.dll`.

- ♦ The NCI installer of the older NCI version can damage the existing newer NCI installation. For example, attempting to install NCI 2.7.3 when NCI 2.7.4 is already present, or attempting to install NCI 2.7.4 when NCI 2.7.6 is already present. Subsequent attempts to use NCI can report -1471 0xFFFFFA41 NCI\_E\_SELF\_VERIFICATION errors due to the damaged NCI installation.
- ♦ The Novell Client 2 SP4 contains NCI 2.77.3, and the Novell Client 2 SP2 and earlier versions contain NCI 2.76. If you are intending to uninstall NCI 2.77 or later and re-install NCI 2.76, an additional step is necessary. The Novell NCI installer intentionally leaves behind certain NCI files, including `CCSW32.DLL` and `CCSWX64.DLL`. Due to an issue in the NCI 2.76 for Windows x64 installer, re-installing NCI 2.76 on Windows x64 is unable to overwrite the `CCSWX64.DLL` file left behind by the NCI 2.77 or later installers.

To uninstall a later version of NCI and re-install NCI 2.76 on Windows x64, in addition to uninstalling the NCI product, you will need to rename or delete the `CCSWX64.DLL` from the Windows `SYSTEM32` directory.

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**IMPORTANT:** If you omit this step, NCI 2.76 will still appear to install correctly, but attempting to login to Novell eDirectory using NMASS will fail with a NCI-specific NCI\_E\_SELF\_VERIFICATION (-1471) error. When this issue happens, or before this issue happens, rename or delete the `CCSWX64.DLL` in the Windows `SYSTEM32` directory and then run the Novell Client 2 SP2 or earlier installation again to re-install NCI 2.76 successfully.

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If you fail to follow these guidelines, features that require NMASS will not function, due to one or all of the above conditions.

These guidelines and issues also apply to installing the Novell Client on a Windows Server 2012 machine where Novell eDirectory 8.8 SP5 or later has already been installed. Novell eDirectory on Windows Server 2008 includes NCI 2.7.6 or later, and installing previous versions of the Novell Client which include NCI 2.7.4 or earlier can cause the NCI installation to become damaged.

### 3.5 The Total Path to the Installation Set Must Not Exceed 214 Characters.

The path to any and all files within a Novell Client for Windows installation set must not exceed 256 characters.

Currently this means the directory path into which you extract the installation set must not exceed 214 characters. This limit is relative to the traditional `MAX_PATH` or 256-character limit in Windows applications, but also takes into account additional path space that is needed for running the installation.

If the installation set is being accessed from a remote network location, for example `\\servername\volumename`, the length of the network server and volume name also counts against the maximum depth, due to underlying processing that makes use of the *real* path to the installation set. Even if a mapped drive letter and/or the *map root* feature is used for accessing the installation set, the limit is measured as if a UNC path had been used.

## 4 Known Issues

- ♦ [Section 4.1, “The 8.3 File Name Support is Unavailable with the Lazy Close Feature,” on page 5](#)
- ♦ [Section 4.2, ““Login with Non-Novell Credential Provider” Feature Not Supported When Microsoft Windows Live ID is Used,” on page 6](#)

- ♦ Section 4.3, “Novell Products Not Supported with the Novell Client for Windows,” on page 6
- ♦ Section 4.4, “Welcome Screen Issues,” on page 6
- ♦ Section 4.5, “Authenticating to a Novell Server Through a UNC Path,” on page 7
- ♦ Section 4.6, “Using Ctrl+Alt+Del to Change Your Password,” on page 7
- ♦ Section 4.7, “Mapped Drive Icon Doesn’t Update on Re-Authentication,” on page 7
- ♦ Section 4.8, “LDAP Contextless Login Differences in the Novell Client for Windows,” on page 7
- ♦ Section 4.9, “Login Profiles,” on page 8
- ♦ Section 4.10, “Using the Force Grace Login Password Change Option,” on page 8
- ♦ Section 4.11, “File Caching Settings Ignored,” on page 9
- ♦ Section 4.12, “Exceeding Disk Quota Is Reported As “Out Of Disk Space” Error,” on page 9
- ♦ Section 4.13, “Login Script Execution Starts Before User’s Desktop,” on page 9
- ♦ Section 4.14, “Roaming User Profile Paths Saved On Non-Windows Servers,” on page 9
- ♦ Section 4.15, “Windows Program Compatibility Assistant May Be Invoked After Successfully Running NCIMAN.EXE on Windows 7, 8, 10 or Windows Server 2012,” on page 10
- ♦ Section 4.16, “TSClntAutoAdminLogon May Not Use The Profile Specified In DefaultLoginProfile,” on page 10
- ♦ Section 4.17, “A Kernel-Mode Bugcheck May Occur If eDirectory Connections Are Cleared While A File Copy Operation Is In Progress,” on page 11
- ♦ Section 4.18, “Running PUTTY.EXE From A Novell Path May Cause Workstation Hang,” on page 11
- ♦ Section 4.19, “Login From Windows Welcome Screen May Not Use Windows Username From Novell Client Login Profile,” on page 11
- ♦ Section 4.20, “Failures Installing, Uninstalling, and Using the Novell Client if Novell iPrint is Installed Before the Novell Client,” on page 11
- ♦ Section 4.21, “eDirectory AutoAdminLogon Requires Windows AutoAdminLogon,” on page 12
- ♦ Section 4.22, “Novell Client 802.1x Authentication Not Supported with Microsoft Server 2008 R2-based RADIUS Server,” on page 13
- ♦ Section 4.23, “Windows Logon or Lock Screen Displayed Behind the Novell Clients’ Show Advanced Options Dialog,” on page 13
- ♦ Section 4.24, “Issues in Installing Novell Client 2 SP4 for Windows (IR1) on Windows 10,” on page 13
- ♦ Section 4.25, “Issues in Novell Client 2 SP4 for Windows (IR1) When Windows 7 or 8.1 is Upgraded to Latest Windows 10,” on page 13

## 4.1 The 8.3 File Name Support is Unavailable with the Lazy Close Feature

If the Lazy Close feature is set to "ON", the 8.3 (short file name/DOS name) file name support will be unavailable for Novell Client. For example, a `Dir /x` command will display blank characters instead of the DOS/short file names and will display only the long names for the files in a mapped drive. Also, 16-bit applications will not be able to retrieve the 8.3 file names for the files.

## 4.2 “Login with Non-Novell Credential Provider” Feature Not Supported When Microsoft Windows Live ID is Used

“Login with Non-Novell Credential Provider” feature is currently not supported when a user tries to login using Microsoft Windows Live ID and Password. Novell plans to fix this in the future release of Novell Client. Also note that “Login with Non-Novell Credential Provider” feature works when PIN-based or Picture Based Login is enabled for the same Microsoft Windows Live ID.

## 4.3 Novell Products Not Supported with the Novell Client for Windows

The NetWare Administrator utility (`nwadmn32.exe`) and ConsoleOne are not supported on Windows or with the Novell Client for Windows, except where explicitly declared by the ConsoleOne release notes.

## 4.4 Welcome Screen Issues

- ♦ [Section 4.4.1, “One-time Failure to Remember Last Logged-on User When Upgrading to Novell Client SP4,” on page 6](#)
- ♦ [Section 4.4.2, “After Installing the Novell Client, Local User Tiles Are No Longer Visible During Login,” on page 6](#)
- ♦ [Section 4.4.3, “Welcome Screen Cancel Button,” on page 6](#)
- ♦ [Section 4.4.4, “Fast User Switching/Connecting via Remote Desktop Connection,” on page 7](#)

### 4.4.1 One-time Failure to Remember Last Logged-on User When Upgrading to Novell Client SP4

After installing Novell Client 2 SP4 on a machine which was previously using Novell Client 2 SP1 or earlier, during the next boot-up the “Username” field will come up blank rather than defaulting to the previous “last logged-on user” info. Once a new login has been performed using the Novell Client 2 SP4, future logouts and/or reboots will correctly show the last logged-on user info again. Note that the Novell Client login profile information (the eDirectory tree name, context, and so on.) has not been lost; only a one-time inability to display the last logged-on username.

This issue is not observed when you upgrade to Novell Client 2 SP4 from Novell Client 2 SP3 or SP2.

### 4.4.2 After Installing the Novell Client, Local User Tiles Are No Longer Visible During Login

If you install the Novell Client for Windows on a machine with multiple local users, after rebooting, you are asked to log in to the Novell Client. At this point, there are only two available tiles: one for the local administrator user, and one for the Novell Client. You will no longer see the individual tiles for the local users.

This is working as designed. The Novell Client for Windows follows Microsoft’s recommendations to filter out the local user accounts after installing the Novell Client. If you install the workstation into a Microsoft Domain, the local user tiles are also filtered out, and the Novell Client follows this behavior.

### 4.4.3 Welcome Screen Cancel Button

When logging in to eDirectory via the Windows welcome screen, the *Cancel* button that is displayed is not active and therefore cannot be clicked.

#### 4.4.4 Fast User Switching/Connecting via Remote Desktop Connection

When logging in to a Windows workstation using the Novell welcome screen, Novell connections made during the login will persist only if the Windows account you specify is not currently logged on to the workstation. If the Windows account specified is already logged in, Windows will reconnect you to that existing session when you log back in to the workstation, regardless of what eDirectory credentials might have been supplied, or whether they're the same as the eDirectory credentials already in use for that running session (if any).

This applies to both Fast User Switching and connecting via Remote Desktop Connection.

#### 4.5 Authenticating to a Novell Server Through a UNC Path

If you log in to a Novell server using a UNC path in Windows Explorer and specify more than just the server and volume, the Windows Explorer window will appear in the foreground and the Results page will appear in the background.

If you specify only the server and volume, authenticating with a UNC path works correctly.

#### 4.6 Using Ctrl+Alt+Del to Change Your Password

If you are currently authenticated to eDirectory, after entering your old password and new password, you will see a Change Password dialog box after clicking the *Submit* button. From the Change Password dialog box, you can choose which resources you want the password change to go to.

If you are not currently authenticated to eDirectory, the password change will only be performed for your Windows account.

#### 4.7 Mapped Drive Icon Doesn't Update on Re-Authentication

When you detach from a mapped Novell drive, the mapped drive icon displayed in Windows Explorer changes to a red X to indicate that the mapped drive is no longer accessible. If you use the Red N icon to re-authenticate to the Novell tree (and you selected the *Check to always map this drive letter when you start Windows* option when you originally mapped the drive), the mapped drive icon does not update to show that the drive is accessible again.

#### 4.8 LDAP Contextless Login Differences in the Novell Client for Windows

The LDAP Contextless Login feature in the Novell Client for Windows includes the following limitations for those familiar with the Novell Client 4.x for Windows XP/2003.

- ♦ When invoking *Show Advanced Options* from the Novell welcome screen (the login dialog seen at boot time and when logging out of Windows Vista), the LDAP Contextless Login lookup cannot be triggered when viewing the *eDirectory* tab. If LDAP Contextless Login is enabled, a lookup is performed after the user attempts to log in to eDirectory from the welcome screen.

This is different from the LDAP Contextless Login behavior when running `LOGINW32.EXE` or selecting the *Novell Login* option from the Red N menu on the desktop. In those instances, you can see the effect of the LDAP Contextless Login lookup prior to actually proceeding with the eDirectory login.

- ♦ The options to search eDirectory using information other than a complete username (for example partial usernames using wildcards, or alternate attributes such as phone number or e-mail address) have been disabled in the Novell Client for Windows. Only complete usernames can be used for LDAP Contextless Login.

## 4.9 Login Profiles

### 4.9.1 Using DHCP in Login Profiles

If *<DHCP>* is chosen as an option in a login profile for Tree, Context, or Server, it cannot be removed by simply editing the field when logging in or by saving the profile on successful login. Any values entered in these fields during login will not be saved when *<DHCP>* is enabled for that field. This is working as designed.

### 4.9.2 Disabling the Login Profile List

If you set the *Login Profile List* option (available on the Advanced Login tab in the Novell Client for Windows Properties dialog box) to *Off* (meaning that the *Login Profile* drop-down list will not be displayed on the Novell Login dialog box), your next login will automatically use the last profile you logged in with.

If you want to use the default profile when the *Login Profile List* option is turned off, make sure that you log in using the default before you turn the option off.

## 4.10 Using the Force Grace Login Password Change Option

If you set the *Force Grace Login Password Change* option (available on the Advanced Login tab in the Novell Client for Windows Properties dialog box) to *On* (it is *Off* by default), the Novell Login will require a password change on the next-to-last grace login instead of the last grace login.

To work around this issue, use one of the following options:

- ♦ Avoid this setting. Users are prompted to change the password on every grace login, but on the last one they have the option of canceling out and potentially getting locked out if they log out one more time without changing the password.
- ♦ Add one to the number of grace logins. The message will tell users that they have four, three, then two grace logins, and then they will be required to change the password.
- ♦ Suggest that users change their password while they still have two or more grace logins.



## 4.11 File Caching Settings Ignored

The Novell Client for Windows ignores the SET CLIENT FILE CACHING ENABLED parameter on NetWare servers. Caching is on by default. Setting the parameter to `on` or `off` has no effect on the Novell Client behavior. This set parameter does still affect the NCP server's behavior with regard to granting level 1 oplocks when requested.

To disable caching for a client, do the following:

- 1 Right-click the Red N in the System Tray.
- 2 Click *Novell Client Properties*.
- 3 Select the *Advanced Settings* tab.
- 4 Select *File Caching* and set it to *off*.

For information on File Caching, see “Advanced Settings” in the administration guide for the client. ([http://www.novell.com/documentation/windows\\_client/windows\\_client\\_admin/data/a3llvcg.html#b856y7h](http://www.novell.com/documentation/windows_client/windows_client_admin/data/a3llvcg.html#b856y7h))

## 4.12 Exceeding Disk Quota Is Reported As “Out Of Disk Space” Error

When a user or directory quota has been exceeded, the expected error condition will reflect only “out of disk space,” in whatever manner the application chooses to report this error condition. The error status will not differentiate between “the disk is out of total physical space” and “the current user or directory quota has been exceeded”.

## 4.13 Login Script Execution Starts Before User’s Desktop

When logging in to both eDirectory and Windows through the credential provider of the Novell Client, the processing of login scripts stored in eDirectory now starts at the same time other login scripts are processed, such as the Windows user login script. This means that eDirectory login script execution will start (but not necessarily finish) before the user's Desktop is built.

In addition, existing Windows policies such as Run logon scripts synchronously now apply to how the Novell logon script execution will be handled. This appears to be the default behavior in Windows Server with Terminal Services, but the policy may need to be explicitly set in other Windows configurations.

If you require that logon script processing must finish before the user's desktop is built, you can enable this Windows policy in the Group Policy Editor (GPEDIT.MSC) under *Computer Configuration > Administrative Templates > System > Scripts > Run logon scripts synchronously*. Note the same policy is also available as a User Configuration policy.

## 4.14 Roaming User Profile Paths Saved On Non-Windows Servers

In Windows 2000 SP4 and Windows XP SP1 and later, by default Windows will require that the roaming profile directory successfully pass a test for specific Windows-based permissions. This test fails against Novell paths since permissions are based on eDirectory permissions instead of Windows permissions, and can fail against Windows- or other non-Windows-based servers as well.

Windows defines a “Do not check for user ownership of Roaming Profile Folders” policy (“CompatibleRUPSecurity”) to allow opting out of this security check where necessary. Enabling this policy is required to successfully store roaming profiles on a Novell server or other Windows or non-Windows server where the security check cannot succeed.

In the Novell Client for Windows XP/2003, installation of the Novell Client automatically enabled the “CompatibleRUPSecurity” policy by default, regardless of whether it was known that user profiles were being saved to Novell paths. Administrators who did want to allow the new Microsoft security test to be performed had to override and disable the policy.

Installation of the Novell Client on Windows Vista and later does not enable the “CompatibleRUPSecurity” policy by default. Administrators must enable this policy if they intend to store roaming profiles on Novell or non-Novell servers that will fail the Microsoft security check.

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**NOTE:** In addition to being able to push this policy setting out with normal Novell ZENworks or Microsoft Group Policy methods, the Novell Client also provides a parameter *Allow Roaming User Profile Paths to non-Windows servers* in *Novell Client Properties*. This parameter can be set during installation through use of a Novell Client Properties File (NCPF), for example UNATTEND.TXT.

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## 4.15 Windows Program Compatibility Assistant May Be Invoked After Successfully Running NCIMAN.EXE on Windows 7, 8, 10 or Windows Server 2012

After running the Novell Client Installation Manager (NCIMAN.EXE) application on Windows 7, 8, 10, or Windows Server 2012, Windows may prompt with the Program Compatibility Assistant as though NCIMAN.EXE was an installation program that may not have completed successfully.

NCIMAN.EXE is not actually a program that attempts to install or uninstall any part of Novell Client software, and is just a tool for creating and editing Novell Client Property Files (NCPF), such as an UNATTEND.TXT file.

This warning can be ignored by simply selecting the *This program installed correctly* link offered by the Windows Program Compatibility Assistant.

## 4.16 TSClntAutoAdminLogon May Not Use The Profile Specified In DefaultLoginProfile

As part of establishing a TSClntAutoAdminLogon policy, it is required to create a DefaultLoginProfile value to specify which Novell Client login profile should be used for the eDirectory portion of the login.

For Windows Server configurations where only a single Novell Client login profile exists anyway (for example, Default), there is no issue and the single profile will be successfully used. But it has been observed that when more than one login profile is defined, it is possible for the TSClntAutoAdminLogon attempt to use the last-used Novell Client login profile for a user instead of the login profile explicitly specified in the DefaultLoginProfile configuration.

This represents an unintentional behavior, and is being examined for future versions of the Novell Client. The workaround if this issue is encountered is to define and use just a single Novell Client login profile, at least on Windows Server machines on which Terminal Services and TSClntAutoAdminLogon are expected to be used.

#### **4.17 A Kernel-Mode Bugcheck May Occur If eDirectory Connections Are Cleared While A File Copy Operation Is In Progress**

If a file copy operation is in progress with many and/or large files and the user attempts to either clear their eDirectory connections or change whom they are logged into eDirectory as while the file copy operation is still in progress, it has been observed that instead of the expected file access failure it is possible for the workstation to report a “blue screen” or kernel-mode bugcheck.

This issue is being examined for future versions of the Novell Client. The workaround is to recommend that users not attempt to clear their existing eDirectory login or NCP connections out from under a file copy operation that is in progress.

#### **4.18 Running PUTTY.EXE From A Novell Path May Cause Workstation Hang**

Running `PUTTY.EXE` from a Novell path can sometimes cause the workstation to become non-responsive. Analysis has shown that the Novell NCP server appears to become non-responsive to the workstation right at the time SSH-specific communication is attempted by `PUTTY.EXE`.

This issue is being examined for future versions of the Novell Client and/or the Novell NCP servers.

#### **4.19 Login From Windows Welcome Screen May Not Use Windows Username From Novell Client Login Profile**

In cases where the Novell Client credential provider used by the Windows welcome screen login is switched between “Computer Only Logon” mode and “Novell Logon” mode prior to performing a Novell Logon login attempt, the Windows account name used during the login attempt might be whatever Windows account name was specified in the *Username* field while the credential provider was in Computer Only Logon mode, instead of the correct Windows account name saved and retrieved from the *Windows* tab of the effective Novell Client login profile.

This represents an unintentional behavior, and is being examined for future versions of the Novell Client. The workaround is to avoid the switch between Computer Only Logon mode and Novell Logon mode when possible. And when the issue does occur, provide the correct Windows account credentials in the Windows logon fields that appear after the attempt to use the incorrect Windows account name.

#### **4.20 Failures Installing, Uninstalling, and Using the Novell Client if Novell iPrint is Installed Before the Novell Client**

The Novell iPrint 5.32 and iPrint 5.30 clients contain an issue in which incorrect security is established on the [HKEY\_LOCAL\_MACHINE\Software\Novell] registry key, if and when the Novell iPrint client was the first installed software that needed to create this registry key. This registry security issue is addressed in the Novell iPrint 5.35 client and later.

If the Novell iPrint 5.32 or iPrint 5.30 client is installed prior to the Novell Client 2 SP4 for Windows, the security that is established on the [HKEY\_LOCAL\_MACHINE\Software\Novell] registry key causes incorrect security to be propagated to the Novell Client's own registry sub-keys. In addition, the incorrect registry security can cause the Novell NMAS Challenge Response Method installation to fail with Error 1603, due to incorrect registry security which was propagated to the Novell NMAS Client's registry sub-keys.

The Novell Client 2 SP1 (IR1) contained some mitigation for this issue that could clean-up the incorrect registry security established by Novell iPrint and proceed with a successful Novell Client installation if the Novell Client 2 SP4 or earlier Novell Client installation had not already been attempted and failed after installing the Novell iPrint client. If a failed Novell Client installation had already been attempted after installing the Novell iPrint client first, the Novell Client 2 SP1 (IR1) installation will still fail due to the improper registry security which has already been established.

The Novell Client 2 SP1 (IR2) contains further mitigation which will actually clean up the registry security issue created by the Novell iPrint client, and furthermore will clean up the incorrect security which may have already been propagated to the Novell Client registry sub-keys and the Novell NMAS Client sub-keys. So on a machine where the Novell iPrint 5.32 or iPrint 5.30 client was installed prior to the Novell Client for Windows, but a Novell Client for Windows installation has already subsequently failed, the primary corrective action to perform is to install Novell Client 2 SP1 (IR2) on top of the previously failed Novell Client for Windows installation.

There is however one scenario under which even the Novell Client 2 SP1 (IR2) fix will be unable to detect and clean-up registry security problems which still exist due to the Novell iPrint client installation. This problem scenario occurs specifically when *all* of the following conditions are met:

- ♦ Novell iPrint 5.32 or iPrint 5.32 was installed before the first Novell Client installation.
- ♦ Novell Client 2 SP1 or earlier was installed without NMAS, and with or without NICI.
- ♦ Same machine was then upgraded to Novell Client 2 SP1 (IR1); installed with or without NMAS, and with or without NICI.
- ♦ Same machine was then upgraded to Novell Client 2 SP1 (IR2); installed with or without NMAS, and with or without NICI.

In this specific sequence where the initial failed Novell Client installation was performed after explicitly deselecting Novell NMAS from being installed with the Novell Client, the subsequent mitigations for the Novell iPrint security issue performed by the Novell Client 2 SP1 (IR1) and Novell Client 2 SP1 (IR2) installations are unable to detect or correct that further clean-up of the Novell iPrint registry security permissions is still necessary.

The symptoms that occur when a machine is still in this broken state include a crash that occurs whenever the Novell Client login dialog would have been presented. For example, when attempting to invoke the “Show Advanced Options” link on the Windows welcome screen, the Windows LogonUI.exe process can crash. When trying to invoke “Novell Login” from the red 'N' menu in the Windows taskbar notification area (systray), the Novell NWTRAY.EXE process can crash.

Unfortunately the incorrect permissions established on the registry by Novell iPrint client will also prevent successful un-installation from being performed after the machine is already in this state. This remaining scenario where the Novell iPrint registry permissions are not successfully cleaned up is being examined for additional mitigation in future versions of the Novell Client.

## 4.21 eDirectory AutoAdminLogon Requires Windows AutoAdminLogon

Establishing an eDirectory AutoAdminLogon configuration requires that a Windows AutoAdminLogon configuration is also established. Meaning at minimum an automatic Windows account logon will occur if only a Windows AutoAdminLogon is configured; or both an eDirectory account logon and a Windows account logon will occur if both eDirectory AutoAdminLogon and Windows AutoAdminLogon are configured. Any workstation where only an eDirectory AutoAdminLogon is configured will now have the AutoAdminLogon configuration ignored, instead of experiencing undefined results.

For more information on configuring a Windows AutoAdminLogon policy or both an eDirectory AutoAdminLogon and Windows AutoAdminLogon policy, see Section “[Enabling AutoAdminLogon](#)” of the [Novell Client 2 SP4 for Windows Administration Guide](#).

## **4.22 Novell Client 802.1x Authentication Not Supported with Microsoft Server 2008 R2-based RADIUS Server**

The Novell Client 802.1x Authentication integration does not succeed when Microsoft Server 2008 R2- based RADIUS service is being used for 802.1x authentication.

For more information, see [TID 7007679 \(http://www.novell.com/support/search.do?cmd=displayKC&docType=kc&externalId=7007679&sliceId=1&docTypeID=DT\\_TID\\_1\\_1&dialogID=132236725&statId=0%200%20280054039\)](http://www.novell.com/support/search.do?cmd=displayKC&docType=kc&externalId=7007679&sliceId=1&docTypeID=DT_TID_1_1&dialogID=132236725&statId=0%200%20280054039) or bug 631640.

## **4.23 Windows Logon or Lock Screen Displayed Behind the Novell Clients' Show Advanced Options Dialog**

With the Novell Client installed in Windows 8, if you enter the "Show Advanced Options" dialog, or if you proceed with a login attempt when the login profile is not yet populated such that Novell Client forces you to see and populate the "Show Advanced Options" link, delaying any further input at this point will cause the Windows lock screen to be displayed behind the "Show Advanced Options" dialog.

In some cases the lock screen will display after 60 seconds and then dismiss itself after another 60 seconds. This will happen in a continuous sequence without any user intervention. Novell plans to fix this issue in a future Novell Client for Windows release.

## **4.24 Issues in Installing Novell Client 2 SP4 for Windows (IR1) on Windows 10**

If Novell Client 2 SP4 for Windows (IR1) does not work on Windows 10, ensure that you have latest Windows 10.

## **4.25 Issues in Novell Client 2 SP4 for Windows (IR1) When Windows 7 or 8.1 is Upgraded to Latest Windows 10**

If you install the Novell Client 2 SP4 for Windows (IR1) on Windows 7 or 8.1 and then upgrade the Windows to latest Windows 10, the already installed Novell Client 2 SP4 for Windows (IR1) might not work properly. To avoid this issue, ensure that the Novell Client 2 SP4 for Windows (IR1) is newly installed on Windows 10.

This issue is being examined and will be fixed for future versions of the Novell Client.

# **5 Unsupported Functionality**

## **5.1 Mapping RDN Paths**

Relative distinguished name paths are not supported for mapping network drives. For example \\tree\server\_volume.context. (note the trailing period) is not supported whereas \\tree\server\_volume.context (no trailing period) is.

## 6 Fixes Since the Last Release

- ♦ Possible crash during rename if the target file is opened while rename is in progress. (Bug: 934729)
- ♦ Possible deadlock when NCP oplock break request is received while file is being closed. (Bug: 932390)
- ♦ Unable to upgrade from SP3 IR10 to IR10a, IR10b or SP4 using NCP-based UNC path when Windows UAC is turned off. (Bug: 929707)
- ♦ Crash in NWTRAY.EXE when attempting to change the password for a connected Windows share resource. (Bug: 926471)
- ♦ Novell Client can fail to respond to an NCP oplock break request after specific sequence of operations. (Bug: 924017)
- ♦ The NCP-level DENY\_WRITE permission can be omitted if the Windows-level FILE\_SHARE\_DELETE was requested. (Bug: 923541)
- ♦ eDirectory intruder lockout can occur after changing password when MS15-011 / KB3000483 is applied. (Bug: 920558)
- ♦ Opening of mapped drives and UNC paths delayed after applying MS15-011 / KB3000483. (Bug: 919801)
- ♦ Support OES 2015 feature of NCP 87,72 and NCP 87,73 supporting reads and writes larger than 64KB for increased performance. (Bug: 919150)
- ♦ When FILE\_NO\_INTERMEDIATE\_BUFFERING is requested, NCP oplock can be requested even though it is already acquired. (Bug: 918008)
- ♦ When an application truncates a currently-cached file, the previously-cached memory was not being released. (Bug: 917965)
- ♦ Added "unsupported operating system" agreement page to display when installing future versions of Windows. (Bug: 914854)
- ♦ Drive mappings or directories could show errors or display as empty, over time or with very busy NCP servers. (Bug: 913226)
- ♦ Failed NCP rename attempt may be reported back to Windows as though rename was successful. (Bug: 912437)
- ♦ Novell Client LDAP Contextless Login dialogs or prompts may appear behind Novell or Windows login. (Bug: 912127)
- ♦ Performance loss because Novell Client may give up a Level 2 oplock in attempt to acquire Level 1, but ends up without any oplock. (Bug: 911548)
- ♦ FILE\_SHARE permissions could be incorrectly tracked when multiple instances of the same file are opened. (Bug: 911542)
- ♦ FILE\_SHARE permissions could be incorrectly tracked when FILE\_READ\_ATTRIBUTES was the only desired access requested. (Bug: 911540)
- ♦ Possible kernel-mode crashes in multiple drivers due to object manager not accurately returning indication of new object creation. (Bug: 910518)
- ♦ Possible kernel-mode crash in NCCACHE.SYS when closing one of multiple handles open to the same file. (Bug: 910152)
- ♦ Update LDAP Contextless Login LDAPSSL library to use TLS and disable SSLv3 (POODLE; CVE-2014-3566). (Bug: 909416)
- ♦ Possible kernel-mode crashes in multiple drivers due to object manager not maintaining exclusive access as intended. (Bugs: 908929,903450)

- ♦ Windows installation of MSI package fails from NCP-based UNC path, but succeeds from NCP-based drive mapping. (Bug: 908842)
- ♦ Possible kernel-mode crash in Windows Offline Files (CSC.SYS) driver during failed open of NCP-based file. (Bug: 908697)
- ♦ Addition of "Unlock Workstation Credentials" setting in the Novell Client Properties. (Bug: 908106)
- ♦ Path accessible by both CIFS and NCP may fail when "UNC Path Filter" is enabled. (Bug: 908052)
- ♦ Password confirmation message for updating NMAS Challenge/Response questions was confusing in all languages. (Bug: 906933)
- ♦ Unnecessary additional prompt could occur when changing expired eDirectory password. (Bug: 906172)
- ♦ Possible deadlock during file rename if another process is trying to open the same file. (Bug: 904443)
- ♦ Possible crash in XTSVCMGR.EXE due to thread creation & termination race condition. (Bug: 903541)
- ♦ Addition of "Bad Address Cache Enabled" setting in the Novell Client Properties. (Bug: 902427)
- ♦ Kernel-mode software examining Windows FSRTL\_ADVANCED\_FCB\_HEADER file sizes could see stale values for NCP-based files. (Bug: 896868)
- ♦ Parent folder allowed to be renamed while file is open, which prevents the file from being successfully saved. (Bug: 895060)
- ♦ Updated BadNameCacheList functionality to support both "whitelist" and "blacklist" usage. (Bug: 888382)
- ♦ Implemented Novell Client "Lazy Close" feature for increased performance when caching is enabled. (Bug: 885911)
- ♦ Support OES 2015 feature of NCP 89,20 supporting directory enumeration responses up to 64KB for increased performance. (Bug: 881313)
- ♦ Improved rejection and handling when entering invalid username such as "." or "=" which are also eDirectory delimiters. (Bug: 879496)
- ♦ Added "Windows 8.1" and "Windows Server 2012 R2" as Novell Client product names that will be displayed. (Bug: 832584)
- ♦ Hovering mouse over Windows credential provider "Submit" button would show "No Label" on Windows 8 and later. (Bug: 792001)
- ♦ Added "Make Script tab read-only during login" in Novell Client Properties, to disable Script tab while still running scripts. (Bug: 677441)
- ♦ Support OES 2015 feature for multiple NCPs to support NCP volumes and restrictions of 16TB or more. (Bug: 516101)
- ♦ Deleting a file may report success but not actually be deleted, if file is still open on another NCP connection. (Bug: 477793)

## 7 Readme Changes

First release of Novell Client 2 SP4 for Windows.

## 8 Documentation

For information on installing, using, and administering the Novell Client for Windows, see [http://www.novell.com/documentation/windows\\_client/index.html](http://www.novell.com/documentation/windows_client/index.html) ([http://www.novell.com/documentation/windows\\_client/](http://www.novell.com/documentation/windows_client/)).

For information on Login Scripts, see the [Novell Login Scripts Guide](http://www.novell.com/documentation/linux_client/login/data/front.html) ([http://www.novell.com/documentation/linux\\_client/login/data/front.html](http://www.novell.com/documentation/linux_client/login/data/front.html)).

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