

# Novell Volera Excelerator XL

1.0

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SUPPORT PACK ONE RELEASE NOTES

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U.S. Patent Nos. 5,870,739; 5,873,079; 5,884,304; 6,330,605. U.S. and Foreign Patents Pending.

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Volera Excelerator XL 1.0 Support Pack One Release Notes

[April 5, 2004](#)

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# About Support Pack One

The information in these release notes applies only to Excelerator XL 1.0 Support Pack One.



# 1

## Functionality Changes and Improvements in Support Pack One

The functional changes in Excelerator XL 1.0 SP1 consist of the following enhancements.

### Administrative Port Is Now 1961

The port used in the browser-based URL has changed from 1959 to 1961 in Support Pack One due to a potential services conflict.

This affects the instructions that refer to port 1959 in the following sections:

- ◆ “Using the Device-Based System Controller” in *Getting Started with Volera Excelerator XL 1.0*
- ◆ “My cache device isn't working” in *Volera Excelerator XL 1.0 Deployment Guide*
- ◆ “My browser can't open the device's System Controller” in *Volera Excelerator XL 1.0 Deployment Guide*
- ◆ “Open Ports Are Limited by Default” in *Volera Excelerator XL 1.0 Deployment Guide*
- ◆ “Restarting from the Device's System Controller” in *Volera Excelerator XL 1.0 Deployment Guide*
- ◆ “Starting the Device's System Controller” in *Volera Excelerator XL 1.0 Deployment Guide*

### Changing an Active Authentication Profile Requires an Excelerator Restart

If a service has authentication enabled and you modify the authentication profile assigned to the service, you must restart the Excelerator for the profile modifications to take effect..

As the root user, issue the following command:

```
service excelerator restart
```

### A New Kernel and Driver Support

Excelerator XL 1.0 SP1 includes the Red Hat\* 7.3 stock kernel configuration. Thus an SP1 installation should support any drivers that Red Hat 7.3 supports. Be aware, however, that Excelerator's focus is on disk and network drivers and not on secondary drivers, such as sound drivers, that are not directly related to Excelerator XL 1.0.

The kernel used in SP1 is the Red Hat 2.4.18-27 kernel. Detailed information about this version is available on the [Red Hat Web site \(https://rhn.redhat.com/errata/RHSA-2003-098.html\)](https://rhn.redhat.com/errata/RHSA-2003-098.html).

**IMPORTANT:** This is not the latest kernel available from Red Hat, but it has the features, functionality, and stability that Excelerator XL 1.0 SP1 needs.

The source files for this modified kernel are included with other GPL-required source files on the Documentation CD.

## Additional Drivers Also Included

Excelerator XL 1.0 SP1 includes the following drivers that are not part of the Red Hat base distribution:

- ◆ AMI\* MegaRAID\* SCSI host adapters (driver version 1.18k)
- ◆ Broadcom\* Tigon3\* network adapter chip set (driver version 1.4c)

These are provided primarily to support the Dell\* 1750 product line.

## Hardware RAID

Excelerator XL 1.0 SP1 supports all hardware RAID configurations that Red Hat 7.3 supports in addition to the hardware included in the Dell 1750 product line.

## Management Interface Enhancements

The Web management interface now complies with Novell® Web Management Interface standards.

## Windows Media 9 Series Support Enhancements

The following Excelerator XL 1.0 features have been updated to support Windows\* Media 9 Series\*:

- ◆ Windows Media forward and transparent services
- ◆ Windows Media Multicast
- ◆ Windows Media Prepopulation

**NOTE:** Windows Media over RTSP is not supported.

Since the Windows Media 9 player defaults to the RTSP protocol for playing streams, if you want to cache Windows Media 9 Series content, you will need to define QuickTime\* or MPEG4 RTSP media services. When the request for RTSP content fails, the player will automatically switch to requesting MMS content and the resulting stream will be cached.

On the other hand, if you do not have a QuickTime or MPEG4 service configured, the stream will not be cached.

## RealProxy Support Changes

The RealProxy\* from Real Networks\* is not included with Support Pack One.

If you already have RealProxy from a purchase of Excelerator XL 1.0, you can upgrade to Support Pack One without affecting RealProxy support on the device.

If you want to add RealProxy support after you install Support Pack One, you will need to do the following:

- 1** Purchase RealProxy from Real Networks.  
You will receive the software and a license key from Real Networks.
- 2** Purchase the Media Excelerator for Real Networks from Novell.  
You will receive a license key to activate Novell RealProxy features.
- 3** Contact [Novell Support \(URL from Jared Call\)](#) to obtain an installation script that installs the RealProxy in the proper configuration to work with Excelerator XL 1.0 SP1.



# 2

## Installing Support Pack One

The installation included with Excelerator XL 1.0 SP1 is based on the Anaconda install developed by Red Hat\*.

The [Getting Started Guide](#) reference to a Volera-approved list of hardware is incorrect. You can install Excelerator XL 1.0 SP1 on any hardware that supports Red Hat Linux distributions 7.2 or 7.3.

### Identifying the IP Address Information

To install the cache device on your network you will need the following:

- ♦ One IP address
- ♦ The subnet mask associated with the IP address
- ♦ The IP address of the gateway on the subnet

You will also need the following DNS information:

- ♦ The IP address of a DNS server
- ♦ The fully-qualified domain name of the cache device

### Installing Excelerator XL 1.0 Support Pack One

**IMPORTANT:** If you manage your Excelerator XL 1.0 devices with one or more Velocity Management Suite 2.0 servers, you must upgrade the servers to Velocity Management Suite 2.0 Support Pack One before attempting to manage newly installed or upgraded Excelerator XL 1.0 Support Pack One devices.

#### Prerequisites

You will need the following:

- A blank, formatted diskette for product licenses
- A CD burner and one blank writable CD

#### Procedure

**WARNING:** This process reformats the cache device's hard drives. All data on the cache device will be overwritten.

To install Excelerator XL 1.0 Support Pack One, complete the following steps:

- 1 Contact your Novell<sup>®</sup> Authorized Reseller and obtain the following:
  - ♦ License files for the Excelerator products you purchase

- ♦ A URL for downloading the ISO image
- 2** Download the Support Pack One ISO image file to your workstation's hard drive.
  - 3** Copy the license files you obtained in [Step 1](#) to a blank formatted diskette.
  - 4** Using your CD burner software, create an installation CD from the ISO image.
  - 5** Start the target device and enter the BIOS setup.
  - 6** Set the hardware clock to UTC time (also known as Greenwich Mean Time or GMT).
 

**IMPORTANT:** This is standard Linux operating procedure and is required for the system's time zone and daylight saving settings to work correctly.
  - 7** Open the device's CD tray and insert the CD you created in [Step 4](#).
  - 8** Restart the machine.
  - 9** After the installation process loads, accept the license agreement by pressing Enter.
  - 10** When prompted to install licenses, insert the diskette containing your product license files in the device's diskette drive and follow the on-screen prompts to install the licenses.
 

**IMPORTANT:** We recommend you install at least the base Excelerator XL 1.0 licenses during initial product installation. Otherwise, you will need to install the base license before configuring the device.

You can install all of your licenses at this point by copying them to a single diskette and importing them now.
  - 11** Follow the on-screen prompts to partition your system.
 

As a general rule, we recommend that you accept the Autopartition option and other partitioning defaults unless you have special partitioning requirements, such as booting with alternate operating systems.
  - 12** When the Network Configuration screen appears, use the Tab key to navigate and assign the IP address information you identified in ["Identifying the IP Address Information" on page 13](#).
  - 13** Enter a fully-qualified domain name (FQDN) for the device.
  - 14** Select the appropriate time zone for the device.
  - 15** Type and confirm passwords for the root and config users.
 

**NOTE:** For security reasons, Excelerator XL 1.0 doesn't allow the root user to have a null password.
  - 16** Specify whether you want to enable Web management.
 

The Web management option must be enabled to manage the device using Excelerator XL 1.0's device-based System Controller. For more information, see ["Managing Your Excelerator Products"](#) in [Getting Started with Volera Excelerator XL 1.0](#).
  - 17** After the packages are read, acknowledge the Log file prompt.
  - 18** After the installation process completes, the installation CD is ejected from the device and the system restarts automatically.
 

**NOTE:** Some motorized CD drives close automatically when the system restarts. If this occurs before you can remove the CD, the restart process will halt and you will be prompted to remove the CD.

## Non-Interactive Installation on Additional Devices

After an initial installation, Excelerator XL 1.0 SP1 can be installed non-interactively on additional machines using Novell's implementation of the Red Hat Kickstart installation method.

If you plan to perform non-interactive installations, you must ensure the following:

- ◆ Each target device has an identical hardware configuration to the first machine on which you have installed Excelerator XL 1.0 SP1.
- ◆ You have identified the following information for each additional device:
  - ◆ Device IP information, including: the IP address, subnet mask, and default gateway IP address
  - ◆ Host name
  - ◆ DNS domain name
  - ◆ DNS server IP address
- ◆ You have valid product licenses for each device. For more information, see [Step 1 on page 13](#).

## Preparing the Kickstart Files

Non-interactive installations require that you have the following

- ◆ The installation CD you created in [Step 4 on page 14](#)
- ◆ A diskette containing
  - ◆ A kickstart file (described below) with the required installation settings
  - ◆ Valid license files for the device

To prepare the kickstart file, complete the following steps for each device:

- 1** Perform an initial CD installation on one of the devices by completing the steps in [“Installing Excelerator XL 1.0 Support Pack One” on page 13](#).
- 2** After the installation process completes, log into the device as the root user.
- 3** Rename the *anaconda-ks.cfg* file in the device’s /root directory to *ks.cfg*.
- 4** Open the *ks.cfg* file in a text editor such as *vi*.
- 5** After the line containing *install* insert a new line and type *cdrom* in it.
- 6** On the *network* line, modify the IP address, fully-qualified hostname, netmask, gateway, and other network information as appropriate for the target system.
- 7** Remove the initial pound sign (#) from the partition lines—all the lines starting with *clearpart* or *part*.
- 8** Save the file and copy it to the license diskette for the device you are installing.

## Performing a Non-Interactive Install

After preparing a *ks.cfg* file for each device, complete the following steps:

- 1** Open the device’s CD tray and insert the Installation CD created in [Step 4 on page 14](#).
- 2** Start or restart the device.
- 3** After the device begins to boot from the CD, insert the diskette containing the device’s customized *ks.cfg* file and license files in the device’s diskette drive.
- 4** At the boot prompt, type **razorauto** to launch the kickstart installation.

**NOTE:** More Kickstart options are available. For example, you can install over NFS, FTP, or HTTP.

See the [Red Hat Web site \(http://www.redhat.com/docs/manuals/linux/RHL-7.2-Manual/custom-guide/\)](http://www.redhat.com/docs/manuals/linux/RHL-7.2-Manual/custom-guide/) for more details.

# 3

## Upgrading to Support Pack One

**IMPORTANT:** If you use one or more Velocity Management Suite 2.0 servers to manage your Excelerator XL 1.0 cache devices, you should upgrade all your management servers to Velocity Management Suite 2.0 Support Pack One before upgrading any of your Excelerator XL devices.

Additionally, if you have configured your management servers for failover, you should upgrade the replica servers before upgrading the master.

### Upgrade Options and Guidelines

The following matrix outlines your options for upgrading your Excelerator XL 1.0 cache devices to Excelerator XL 1.0 Support Pack One and provides brief guidelines for completing the upgrade.

**Table 1** Upgrade Options

Interface Option	CDROM	URL
On-Box System Controller	n/a	<ol style="list-style-type: none"><li>1. From your management workstation, access the device's Web management interface.</li><li>2. Log into the management interface as the config user.</li><li>3. Click Upgrade.</li><li>4. In the Upgrade URL field, type the following URL: <code>http://support.novell.com/volera/patches/xl_1.0sp1/product-excelerator-1.0.0001.528-1.i586.rpm</code>.</li><li>5. Click Upgrade Now.</li></ol> <p>During the upgrade process, the browser connection to the device is terminated. You can reconnect after the upgrade completes.</p> <p>After the upgrade completes, you can verify success by checking the Device Version field on the Details panel.</p>

Interface Option	CDROM	URL
Velocity Management Suite 2.0 SP1	n/a	<p data-bbox="874 157 1125 183"><b>Upgrading the Device</b></p> <ol data-bbox="874 203 1409 883" style="list-style-type: none"> <li data-bbox="874 203 1409 284">1. From your management workstation, access the management server you use to manage the device.</li> <li data-bbox="874 304 1409 385">2. If the device is at a remote location, we recommend you establish an SSH session with the device to monitor upgrade progress.</li> <li data-bbox="874 405 1409 465">3. Log into the management server as the super administrator for the device.</li> <li data-bbox="874 485 1409 546">4. Click View Device List &gt; <i>Device Name</i> &gt; Details &gt; Upgrade.</li> <li data-bbox="874 566 1409 707">5. In the Update URL field, type the following URL: <code>http://support.novell.com/volera/patches/xl_1.0sp1/product-excelerator-1.0.0001.528-1.i586.rpm</code>.</li> <li data-bbox="874 727 1409 788">6. If you want to upgrade the device immediately, click Upgrade Now.</li> <li data-bbox="874 808 1409 883">7. If you want to schedule the upgrade for later, click Schedule Upgrade and specify when you want the upgrade to happen.</li> </ol> <p data-bbox="874 909 1409 989"><b>IMPORTANT:</b> During the upgrade process, you must not attempt to change the device configuration.</p> <p data-bbox="874 1016 1259 1042"><b>Synchronizing with the Datastore</b></p> <p data-bbox="874 1068 1409 1149">After approximately 15 minutes the upgrade should be complete. You must then do the following:</p> <ol data-bbox="874 1169 1409 1433" style="list-style-type: none"> <li data-bbox="874 1169 1409 1249">1. In the management interface from the Details tab, click Synchronize and select the Device Settings Override VCDN Datastore option.</li> <li data-bbox="874 1270 1409 1330">2. Leave the Schedule options set to Immediately and click OK.</li> <li data-bbox="874 1350 1409 1433">3. After approximately 2 minutes, the Device Version in the Details tab will change to reflect the Support Pack One version number.</li> </ol> <p data-bbox="874 1459 1409 1705"><b>IMPORTANT:</b> Prior to completing the synchronization process, you cannot verify that the upgrade was successful from the Schedule panel because of a known defect in Excelerator XL 1.0 that causes the Upgrade Status field to show EXECUTING or FAILED. After completing the synchronization process, the Status field displays correctly for future operations.</p>

Interface Option	CDROM	URL
Excelerator Command Line Interface	<p data-bbox="381 157 899 213">To upgrade using this option, you will need a CD burner and one blank writable CD.</p> <ol data-bbox="381 233 899 1237" style="list-style-type: none"> <li data-bbox="381 233 899 350">1. Download the Support Pack One ISO image file to your workstation from the <a href="http://support.novell.com/volera/patches/xl_1.0sp1/iso/razor-1.0.0001.528.iso">Novell Support site (http://support.novell.com/volera/patches/xl_1.0sp1/iso/razor-1.0.0001.528.iso)</a>.</li> <li data-bbox="381 370 899 455">2. Download the file's <a href="http://support.novell.com/volera/patches/xl_1.0sp1/iso/razor-1.0.0001.528.md5">MD5 checksum value (http://support.novell.com/volera/patches/xl_1.0sp1/iso/razor-1.0.0001.528.md5)</a>.</li> <li data-bbox="381 475 899 794">3. Verify the integrity of the downloaded file against the checksum value by running an MD5-based checksum utility on it. For example, on a Linux system you can enter <b>md5sum filename</b> where <i>filename</i> is the name of the .iso file you are verifying. On a Windows system you will need to obtain a Windows-compatible MD5-based checksum utility from the Web and follow the usage instructions for the utility.</li> <li data-bbox="381 814 899 899">4. Using your CD burner software, create a Support Pack One CD from the downloaded image.</li> <li data-bbox="381 919 899 1003">5. When the CD is created, open the CD tray of the device you are upgrading and insert the CD.</li> <li data-bbox="381 1024 899 1080">6. At a shell prompt, such as bash, mount the cd using <b>mount /mnt/cdrom</b>.</li> <li data-bbox="381 1100 899 1237">7. In the Excelerator command line interface in Exec mode, enter the following command: <b>product install /mnt/cdrom/Volera/RPMS/product-excelerator-1.0.0001.528-1.i586.rpm</b></li> </ol> <p data-bbox="381 1257 899 1342">When the upgrade completes, unmount the CD using <b>umount /mnt/cdrom</b> and remove it from the drive.</p>	<p data-bbox="925 157 1449 213">At the Excelerator command line interface in Exec mode, enter the following command:</p> <pre data-bbox="925 233 1449 350">product install http:// support.novell.com/volera/patches/ xl_1.0sp1/product-excelerator- 1.0.0001.528-1.i586.rpm</pre> <p data-bbox="925 370 1449 465">After the upgrade completes, you can use the <b>show version</b> command to verify that the upgrade was successful.</p>



# 4

## Issues Addressed in Support Pack One

This section contains information about issues that are addressed in Support Pack One.

### New Kernel

The Kernel in Support Pack One contains numerous fixes for defects and security liabilities identified and addressed by the Linux community.

Novell® has also applied several fixes to the kernel to provide added stability in the context of the XL 1.0 SP1 product. As required for GPL compliance, the source files for the modified kernel and other GPL components are included on the Documentation CD.

### Updated RPMs

Supporting system RPMs have been updated to the latest stable versions, adding to the reliability of the XL 1.0 SP1 product. For example, all OpenSSL security vulnerabilities that were known at the time of this release have been addressed.

### Scalability

Scalability has been improved in the Support Pack One release. Excelerator XL now supports a larger number of concurrent connections.

### Response Time

Response times have been improved.

### WCCP

Known WCCP problems have been addressed.

### Filtering

Some on- and off-box filtering issues have been addressed.

### German Character Support

German umlaut characters are now supported.

## **SNMP MIBs**

The SNMP MIBs have been improved.

## **SNMP Alert Actions Help**

The help has been improved for SNMP alert actions.

# 5

## Additional N2H2 Information

The following is additional information regarding the Support Pack One release.

### **The sudo Package Is Included for N2H2 but Not Installed**

As indicated in “N2H2” in the [Volera Excelerator XL Release Notes](#), you should contact N2H2 for instructions on installing N2H2 filtering software.

The instructions you receive might require that you install the sudo RPM. For your convenience, we have included the sudo RPM on the Support Pack One CD image in the /Volera/RPMS directory.

For security reasons, the sudo RPM is not installed with Support Pack One. As you follow the instructions provided by N2H2, be sure to install sudo from the /Volera/RPMS directory at the appropriate point in the installation process.

### **The pcre Package Is Included for Upgraded Devices**

If you upgraded from Excelerator XL 1.0 to Excelerator XL 1.0 Support Pack One, and you are using an N2H2 filtering solution, you must install the pcre RPM from the /Volera/RPMS directory after completing the upgrade.

