

# Novell Volera Excelerator XL

1.0

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RELEASE NOTES



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Volera Excelerator XL Release Notes

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# 1

## Excelerator XL 1.0

### **IMPORTANT:**

The following sections outline known issues and other tips for working with the Excelerator XL 1.0 product.

### **Velocity Management Suite Release Notes**

Since the Velocity Management Suite and Excelerator XL 1.0 share the same management interface, we recommend you review the suite's [Volera Velocity Management Suite Release Notes](#) for information that applies to the device-based System Controller.

### **Known Issues**

The following are known issues in the Excelerator XL 1.0 release.

#### **Purge List Option Not Working**

The Purge List option on the Configuration panel of the device-based System Controller does not work.

To purge individual URLs, use the **purge start** command in the Volera Command Line interface.

#### **Clearing Cache Can Cause Service Interruption**

The **cache clear** command is designed to shut down all device services, thus causing all connections to terminate. The system then waits for all caching traffic to stop before clearing the device's cached content.

When the cache clear command is issued on an Excelerator 1.0 device, the system immediately shuts down the services as designed. However, this action is not currently causing all connections to terminate. As a result, the system must wait for up to 10 minutes for connections to time out before the clear operation can continue.

While the system is waiting, all services defined on the device are interrupted.

We recommend, therefore, that you avoid clearing cache unless it is absolutely necessary, and that you only clear it during periods of little or no service activity.

#### **Changing an IP Address Might Require Reloading the Device**

If multiple IP addresses are bound to a network card, and you replace or delete one of these addresses, you might need to restart the device for services that use the card to operate properly.

While you are logged in as the config user, enter the following command:

```
reload
```

## CLI Command show stats Not Working in Config Mode

To use the command, exit to Exec mode.

## Cannot Limit the Fill Bandwidth

Setting a Maximum Fill Bandwidth for a given service does not currently limit the fill bandwidth.

## Excelerator XL 1.0 and Excelerator 2.x Do Not Function as ICP Peers

Excelerator XL 1.0 will not function as an ICP peer to an Excelerator 2.x device. Excelerator 2.x will request objects from the Excelerator XL 1.0, but Excelerator XL 1.0 won't respond.

## Read-Ahead Feature Not Working

Enabling the Read-Ahead option in the Cache Tuning menu of the device's System Controller or setting the **object-read-ahead *number*** option for cache management of a service in the CLI has no effect.

## Real .rnl License Files Are Not Removed

The **no license file *filename*** command does not remove .rnl licenses for the Real Proxy add-on. These licenses, if they exist, will remain in the license directory.

## Installing Non-License Files Causes Excelerator XL 1.0 Failure

Excelerator XL 1.0 services will not load if there are non-license files, such as a sym-link, in the license directory.

## Corrupt Base License Causes Excelerator XL 1.0 Failure

If the device doesn't start up, check to ensure that the base license is not corrupted.

## Changing the Subnet Might Not Remove the Previous Binding

If you change an IP address's subnet and apply the change, the previous binding might not be removed. If this happens, do one of the following:

- ◆ Remove the old IP address manually
- or
- ◆ Restart the device

The address binding should be removed.

## Repeated Restarting Might Indicate a Corrupt Base License

If the device fails to come up completely and repeatedly restarts, it is possible that the base license was corrupted during the initial installation process.

You will need to install Excelerator XL 1.0 again. If the problem persists, contact [Novell's Volera product technical support \(http://support.novell.com/volera\)](http://support.novell.com/volera).

## Network Cards Not Responding Might Indicate a Configuration Problem

If you have installed multiple network cards that require different drivers and the cards stop responding, the card aliases in `/etc/modules.conf` might have been switched.

You will need to log in as root and edit the configuration file so that the network interfaces (`eth0`, `eth1`, etc.) are matched against the correct drivers.

After saving the file, enter the following command:

```
service network restart
```

## Adding New Disks - Limitations

You can add a new, unpartitioned disk to a device using the New Disk option in the Web management tool or the `disk scan` command at the command line.

The newly added disk will then contain a single cache object store (COS) partition.

### The Newly Added Disk Must Not Contain Existing Partitions

The disk being added must not contain existing partitions unless it contains only a COS partition.

A disk will contain only a COS partition if

- ◆ It was the third or greater disk on a device when Excelerator XL was initially installed. The first and second drives are mirrored (RAID1) and contain both system and COS partitions.

or

- ◆ It was added to an Excelerator XL device after the initial installation process. After initial installation all disks, including the second disk, are partitioned with only a COS partition.

### Web Management Issues

The New Disk command in the Web management tool doesn't acknowledge that a disk has existing partitions. The command will appear to execute properly. However, the disk will not be partitioned or added.

### Command Line Issues

Unlike the Web management tool, the `disk scan` command warns if partitions exist on the disk. Unfortunately, it also warns if a COS partition exists on the disk and claims that no disks were found. When this occurs, the disk is actually found and included despite the message to the contrary.

### Adding a New Disk Requires Restarting the Device

After executing the command to add a new disk to the device you must reload (restart) the device before the new partition will be used.

## Hot-Plugging New Disks Is Not Supported

If hot-pluggable disks are added to the system, they will not be recognized until the device is restarted.

## ICP Multicast Is Not Set

If you set ICP multicast at the command line or in the device's System Controller and apply the settings, the system will report a successful configuration change. However the settings are not actually accepted by the system, and ICP multicast is not set.

## Error Message Language Setting Applies to All Configurations

Although the language command is executed within Config mode in Excelerator XL 1.0, the settings are not saved as part of the device configuration. If you change the error message language or customize the messages as described in “Cache Device Error Messages” in the *Volera Excelerator XL 1.0 Deployment Guide*, the changes you make apply across all device configurations.

## Network Card Driver Sleep Mode Warnings on Boot Up

There is a known issue with the driver for Intel's EtherExpress Pro100 network card causing a sleep mode warning to appear on boot up.

Despite the warning, the card functions correctly.

The warning can be eliminated by turning sleep mode off. Further information is available on the Web (<http://www.scyld.com/diag/index.html#pci-diags>).

## Caveats

The following are caveats to consider when using Excelerator XL 1.0.

### Login Is Required to Use the CLI

When configuring the Excelerator XL 1.0 system using the CLI, you must log into the system as the *config* user at the login prompt.

## Driver Support

**Table 1** lists the drivers included in Excelerator XL 1.0 and their location within the product.

**Table 1**

<code>./addon:</code>	<code>e2100.o</code>	<code>tlan.o</code>	<code>advansys.o</code>
<code>e100</code>	<code>eeepro.o</code>	<code>tulip</code>	<code>aha152x.o</code>
<code>e1000</code>	<code>eeepro100.o</code>	<code>tulip_old</code>	<code>aha1542.o</code>
	<code>eexpress.o</code>	<code>via-rhine.o</code>	<code>aha1740.o</code>
<code>./net:</code>	<code>epic100.o</code>	<code>wd.o</code>	<code>aic7xxx</code>
<code>3c501.o</code>	<code>eth16i.o</code>	<code>winbond-840.o</code>	<code>atp870u.o</code>
<code>3c503.o</code>	<code>ewrk3.o</code>	<code>yellowfin.o</code>	<code>cpqfc.o</code>
<code>3c505.o</code>	<code>hamachi.o</code>		<code>dmx3191d.o</code>
<code>3c507.o</code>	<code>hp-plus.o</code>	<code>./net/ sk98lin:</code>	<code>dtc.o</code>
<code>3c509.o</code>	<code>hp.o</code>	<code>sk98lin.o</code>	<code>eata.o</code>
<code>3c515.o</code>	<code>hp100.o</code>		<code>g_NCR5380.o</code>
<code>3c59x.o</code>	<code>lance.o</code>	<code>./net/tulip:</code>	<code>gdth.o</code>
<code>8139too.o</code>	<code>mii.o</code>	<code>tulip.o</code>	<code>in2000.o</code>
<code>82596.o</code>	<code>natsemi.o</code>		<code>initio.o</code>
<code>8390.o</code>	<code>ne.o</code>	<code>./parport:</code>	<code>ips.o</code>
<code>ac3200.o</code>	<code>ne2k-pci.o</code>	<code>parport.o</code>	<code>megaraid.o</code>
<code>acenic.o</code>	<code>ni5010.o</code>	<code>parport_pc.o</code>	<code>scsi_mod.o</code>
<code>at1700.o</code>	<code>ni52.o</code>		<code>sd_mod.o</code>
<code>atp.o</code>	<code>ni65.o</code>	<code>./pnp:</code>	<code>sr_mod.o</code>
<code>cs89x0.o</code>	<code>pcnet32.o</code>	<code>isa-pnp.o</code>	<code>st.o</code>
<code>de4x5.o</code>	<code>sis900.o</code>		<code>sym53c8xx.o</code>
<code>de600.o</code>	<code>sk98lin</code>	<code>./scsi:</code>	<code>tmcsim.o</code>
<code>de620.o</code>	<code>smc-ultra.o</code>	<code>53c7,8xx.o</code>	<code>wd7000.o</code>
<code>depca.o</code>	<code>smc9194.o</code>	<code>AM53C974.o</code>	
<code>dgrs.o</code>	<code>starfire.o</code>	<code>BusLogic.o</code>	<code>./scsi/aic7xxx:</code>
<code>dmfe.o</code>	<code>sundance.o</code>	<code>NCR53c406a.o</code>	<code>aic7xxx.o</code>
	<code>sunhme.o</code>	<code>a100u2w.o</code>	



# 2

## Streaming Services

The following products can provide streaming services on an Excelerator XL 1.0 cache device:

- ◆ Media Excelerator XL 1.0 for Windows Media
- ◆ Media Excelerator XL 1.0 for Real Media
- ◆ Media Excelerator XL 1.0 for QuickTime and MPEG4 Media

You must install valid Media Excelerator XL 1.0 licenses to activate these products. For more information, see “[Understanding Product Activation Licenses](#)” in *Getting Started with Volera Excelerator XL 1.0*.

Support for earlier versions of Media Excelerator and their associated licenses is not included in Excelerator XL 1.0.

For more information on Media Excelerator XL 1.0 products, see the release notes and deployment guides for these respective products.



# 3

## Alerts

The following issues pertain to the alert functionality in Excelerator XL 1.0.

### **Multiple SNMP Alert Handlers Not Supported**

Although the management interfaces let you define multiple SNMP alert handlers, doing this will cause the device to fail.



# 4 Access Control

The following issues pertain to the access control functionality in Excelerator XL 1.0.

## Use Caution When Creating Access Control Policies

When creating access control policies, it is important that communication with the device's System Controller and the Velocity management server not be blocked.

If this happens, you will need to disable all policies at the command line using the **no policy** command and then correct the problem in one of the graphical management interfaces.

Policy management at the command line is limited to only enabling and disabling policies.

## Proxy Doesn't Work If Filtering Service Is Down

Excelerator XL 1.0 will not allow content to be served if a filtering service (Third-Party Service) is configured, the service is included in an access control policy rule, and the filtering service is down.

For example, if a Websense Server is defined on the device as part of an access control policy, and the filtering service is down, the device will not service client requests.



# 5

## Filtering Services

This chapter outlines known issues and caveats for working with Excelerator XL 1.0's filtering service support.

### N2H2

N2H2 filtering in an off-box configuration works with Excelerator XL 1.0.

For information on installing N2H2 filtering software on the Excelerator device, contact N2H2.

### Websense

#### RedHat Release Error

If you install a Websense filtering service on an Excelerator XL 1.0 cache device, you might receive the following error:

```
cat: /etc/redhat-release: No such file or directory
./install.sh: [: -lt: unary operator expected
. . .
```

This not a critical error. The absense of the redhat-release file doesn't prevent a successful installation. Acknowledge the error and proceed as indicated in the Websense installation instructions.

#### hosts File Change Required

Devices that use Websense filtering services must be able to resolve their hostnames through DNS. If your device can't resolve its DNS name through its defined DNS servers, you must add the following lines to the `/etc/hosts` file:

```
127.0.0.1    localhost
ipaddress   dnsname
```

where *ipaddress* is the IP address of the Excelerator XL device and *dnsname* is the device's fully qualified DNS name.

#### Websense Version Compatibility

Websense supports installing version 4.4.1 on Excelerator XL devices. Version 5.0 is not supported, but Websense has plans for future releases that will also run on Excelerator XL devices. Contact Websense for more information.



# 6

## Velocity Management Suite and Excelerator XL 1.0

This chapter contains information regarding the interaction between Velocity management suite and Excelerator.

### Certificate Creation and Importing Is Required for Secure Management

Managing Excelerator XL 1.0 devices using the Velocity management suite through an SSL-secured connection requires that you generate a certificate on the management server for each device it will manage and then import the certificate to the device.

Complete instructions are contained in “[Preparing Excelerator XL 1.0 Devices for Management](#)” in the *Volera System Controller Deployment Guide*.

### Interaction Between Various Management Methods

We strongly recommend that devices managed through the Velocity management suite, not be managed concurrently through Excelerator XL 1.0’s command line or the device’s System Controller.

If two or more management methods are in use at the same time, the administrators using the various methods will not be aware of each other or the changes that other administrators are making.

The settings contained in the last-applied configuration session will overwrite any other changes made by other configuration sessions that are open at the same time.

**IMPORTANT:** If you are using both the Velocity management suite and the device’s System Controller to manage the device, be sure you understand all the information in “[Preparing Cache Devices for Management](#)” in the *Volera System Controller Deployment Guide*.



# 7

## Browsers

This chapter contains information regarding the interaction between Excelerator and the browsers used to administer it and access its proxy services.

### Choosing a Management Browser

We recommend you use Internet Explorer 6 or later to access the Excelerator XL 1.0 management interface

Other browsers exhibit screen rendering and other problems. Therefore, we do not recommend using them for management purposes.

### Accessing Content

There are not restrictions or limitations for accessing content through any proxy services beyond the recommendations posted on origin Web sites.



# A

## Functional Changes in Excelerator XL 1.0

### New Functionality in Excelerator XL 1.0

[Table 2](#) summarizes the functionality that is new in Excelerator XL 1.0.

Table 2

Feature	Description
Classless Inter-Domain Routing (CIDR) Address Support	<p>The CIDR addressing scheme is now supported for any fields requiring an IP address. You indicate CIDR addresses by including the dot-delimited IP address followed by a forward slash (/) and the number of bits being used for the network prefix, for example 10.1.1.1/24.</p> <p>Excelerator XL 1.0 supports the following bit ranges (commonly known as CIDR block prefixes):</p> <ul style="list-style-type: none"><li>♦ 0 to indicate the default route</li><li>♦ 8 - 30 for normal CIDR notation</li><li>♦ 32 for the host route</li></ul>
New Command Line Interface	<p>In response to customer requests, Excelerator XL 1.0 includes a completely reworked command line interface that those familiar with the CISCO router CLI should find very intuitive.</p> <p>For more information, see the <a href="#">“Command Line Reference”</a> in the <i>Volera Excelerator XL 1.0 Deployment Guide</i>.</p>
Multiple Default Gateways	<p>Excelerator XL 1.0 lets you define multiple default gateways for the device.</p>
Improved Auto-Detection of Network Cards	<p>Excelerator XL 1.0 now correctly detects the speed and duplex settings of the device’s network cards. This eliminates the possibility of degraded network performance due to incorrect settings.</p>
No Forced Restarting	<p>None of the configuration changes require restarting the device for the changes to complete.</p>

### Functional Differences Between Excelerator 2 and Excelerator XL 1.0

[Table 3](#) summarizes the 2.x features that are not supported in Excelerator XL 1.0.

Table 3

Feature	Description
Device Clustering	Clustering of cache devices is not supported in Excelerator XL 1.0.
Mutual Authentication	Mutual authentication is not supported in Excelerator XL 1.0.
Reverse Proxy and Multi-Homing	Excelerator XL 1.0 doesn't support the reverse acceleration of origin Web or origin streaming servers.
Manually Specifying Network Card Settings	Due to improved auto-detection of the speed and duplex settings of network cards, it is no longer necessary nor desirable to allow these settings to be manually adjusted.
Null Config User Passwords	Excelerator XL 1.0 doesn't allow having a null password for the Config user.
Log File Pushing	Log File pushing has changed in Excelerator XL 1.0. For more information, see the <a href="#">"Automatically Downloading and Deleting Log Files"</a> in the <i>Volera Excelerator XL 1.0 Deployment Guide</i> .
FTP Proxy, FTP Accelerator, and Associated Statistics	Excelerator XL 1.0 doesn't provide FTP proxy services, including reverse proxy services.
Cloned Image	Excelerator XL 1.0 doesn't provide the cloned image functionality of Excelerator 2. However, it does automatically establish a RAID mirror between the primary and secondary hard drives for redundancy purposes . See <Backing Up the System - new section> .
Network Address Translation (NAT)	Excelerator XL 1.0 doesn't provide the NAT functionality included in Excelerator 2.  There are a number of NAT packages for Linux distributed on the Web along with installation and usage instructions. For example, visit <a href="http://tldp.org">The Linux Documentation Project (http://tldp.org)</a> Web site and search on NAT.
Simple Network Management Protocol (SNMP)	The SNMP MIB has been reworked for Excelerator XL 1.0.
Telnet	Excelerator XL 1.0 doesn't allow connecting through Telnet due to security concerns. The basic management functionality provided by Telnet in Excelerator 2 has been replaced by SSH functionality in Excelerator XL 1.0.
FTP Execute	The FTP functionality in Excelerator XL 1.0 doesn't support the <i>execute</i> parameter that was supported in Excelerator 2.

# B

## Upgrading to Excelerator XL 1.0

Use the information in this section when upgrading to Excelerator XL 1.0.

### Excelerator XL 1.0 Upgrade Path

Since Excelerator XL 1.0 is the first Excelerator product that runs on Volera Linux, only the migration of 2.x configuration parameters that have corresponding values in Excelerator XL 1.0 is supported.

Instructions for upgrading to Excelerator XL 1.0, including the migration of supported device configuration parameters, are in the *Getting Started with Volera Excelerator XL 1.0* guide you received in your product package.

### Understanding the Functional Differences in Excelerator XL 1.0

Before upgrading, you should be aware of functional changes introduced in Excelerator XL 1.0 so you can evaluate the possible implications for your network. For information on what has changed with Excelerator XL 1.0, see [Appendix A, “Functional Changes in Excelerator XL 1.0,” on page 25.](#)

### Upgrading Licenses for Excelerator XL 1.0

Excelerator XL 1.0 requires new license files. Information regarding license files is included in [“Understanding Product Activation Licenses”](#) in the *Getting Started with Volera Excelerator XL 1.0* guide.

### Upgrading Media Excelerator

Support for the Media Excelerator products associated with Excelerator XL 1.0 is included in Excelerator XL 1.0.

However, each Media Excelerator product requires a separate activation license. For more information, see [“Understanding Product Activation Licenses”](#) in *Getting Started with Volera Excelerator XL 1.0*.

### Upgrading from the Documentation/Upgrade CD

Since Excelerator XL 1.0 is the first Excelerator product based on the new Volera Linux platform, each device requires a complete product installation. There are no upgrade files on the Documentation/Upgrade CD.

