

Novell Volera Excelerator

2.3

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SERVICE PACK 2 RELEASE NOTES



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Volera Excelerator 2.3 SP 2 Release Notes

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About Service Pack 2

The information in these release notes applies only to Excelerator 2.3 Service Pack 2.

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About Excelerator 2.3 Service Pack 2

This section contains the following:

- ♦ “Major Issues Addressed in Service Pack 1” on page 9
- ♦ “Major Issues Addressed in Service Pack 2” on page 10
- ♦ “Enhanced Functionality in Service Pack 1” on page 13
- ♦ “Enhanced Functionality in Service Pack 2” on page 13

Major Issues Addressed in Service Pack 1

The following table summarizes the main issues that are addressed in Service Pack 1:

Table 1 **Service Pack 1 Issues**

Defect #	Summary	Issue Addressed
295163	DNS settings not updated	Addressed issue where resolv.cfg was not consistently updated with DNS settings.
301487	GUI / CLI inconsistencies	The CLI allowed using supernetted addresses.
305592	No CLI after reboot	On boot up if the search through /etc/tcpip.cfg did not find the specific option it was looking for, the search would throw an exception and the CLI would not start.
305886	Annotator doesn't support bind user authentication profiles	When a bind user is configured with an LDAP profile, the Annotator couldn't log into the LDAP server. Authentication failed.
306375	Web server was violating HTTP specification	The IBM_HTTP_Server/1.3.12.6 Apache/1.3.12 (Unix) violates the HTTP specification in two ways. First, it sends back an HTTP/1.1 reply to an HTTP/1.0 request. Second, it sends back a Trailer header for a non-chunked reply. Excelerator now supports this server.
306792	NTLM timeout	The timeout for volauth.exe has been increased from one second to three seconds.
306875	Search fails when browsing LDAP servers without specifying context	The Annotator did not allow browsing LDAP objects located below the root of a given tree. Most LDAP servers do not allow the creation of group or user objects at the root. If context was empty, Excelerator returned an error. An empty context is now allowed in an LDAP search.

Defect #	Summary	Issue Addressed
307687	Localized filtering proxy error messages	The internationalization data structures in proxy had to be exported so acfilter.nlm could access it. Hard coded messages were converted to use the localization data.
307926	Modified site download code to use URL marker data	Fixed the code to handle the case where ReadAheadDownloadRequest is NULL.
308186	Administering a second Excelerator through a forward proxy	When users attempted to administer a second Excelerator through a forward proxy, the first Excelerator would restart.
308286	Debug trap	NDS authentication caused a memory leak. The system would eventually restart.
308490	Filtering causes restart	Filtering caused a memory overrun. The system would restart.
308689	Importing NAS file with large number of filtering overrides	Importing a NAS file with a large number of filtering overrides caused the Excelerator to restart.
309171	Debug trap when shutting down	The system was overwriting memory because it has miscalculated where to place the null terminator. It was also failing to free memory that it allocated.
329388	Excelerator with Websense stops passing traffic	If the Websense server went down, Excelerator did not re-connect and pass traffic when the server restarted.
309581	Abend when trying to import trusted root file into Secure Excelerator	The code assumed that the entry was in the format sys:/filename. This caused the abend.
309856	Sun JVM support	The GUI did not support the Sun JVM.
334339	Enabling IP ACL on Excelerator disables monitoring in System Controller	The System Controller agent could not post data to the System controller when there was a global ACL policy defined.
338199	LDAP Authentication	LDAP authentication did not work with HTTPS Web sites.
341972	WCCP causing browser disconnect	Joining a WCCP Service Group disconnected any browser sessions./
345209	Subnet code was adding additional IP addresses to the search tree for partially filled bytes	This allowed the class E subnets to work but also caused 10.3.0.0 to include the subnet 10.4.0.0. Only class A, B, C, and D subnets are supported.
345359	400 Bad Request	A corrupt eTag caused a 400 Bad Request.

Major Issues Addressed in Service Pack 2

Table 2 Service Pack 2 Issues

Issue Addressed
<p>A new option has been added to the CLI to strip the URI Argument (the question mark and beyond) from the requested URI before it is processed. It is configurable per web server accelerator. The syntax is "<get set> accelerator <name> discardUriArgument = <yes no>". This option is not provided in transparent, or forward proxy and since the argument is discarded prior to any other processing, the query header does not get recorded in log files.</p>
<p>Abend : CPU hog: PROXY.NLM atEndOfSegment\$TransmitEntityData+5C</p>

Issue Addressed
Abend : EIP in ACFILTER.NLM at code start +0000CC87h caused by missing data in SYS:\ETC\IZER\REWRITER.CFG
Abend during purgecache when using Websense.
Abend in ACFilter.NLM. Race condition caused by use of multiple timers in the filter evaluation routine.
Abend in SCacheShrink when invalid next block pointer is encountered.
Abend in SetSrvIP.NLM
Added support for SN in certificate DN (DGI fix).
Additional fix relating to CPU Hog abend.
CD image contains new DOS partition image to prevent boot failures (problem especially prevalent on larger drives).
CPU Hog abend in TransmitLoop workToDo.
Debug enhancement - abend log text corruption fixup.
Debug enhancement - event log filtering.
Duplex and speed settings do not work for Compaq/HP PCNTNW.LAN driver.
Easy DOS attack - sending bogus 30k requests to transparent proxy (when non-terminating headers are received)
Enhanced crash recovery code checking for invalid stack addresses, detection of multiple abends and logging of connection and request states. Added more diagnostic information to debug.log (crash log file).
Enhanced debug logging disabled by default, since large quantity of debug information added to abend logs may overwhelm disk space. See NOVL95861 for details on specific settings.
Enhancement: new option to push log files with ".tmp" extension and when finished pushing rename to the appropriate name.
Enhancement: new option to set per accelerator settings for objnocacheformquestionmark, objnocacheformcgi and filtercookies.
Fix for ASN1 vulnerability.
Fixed a bug in the enhancement for per accelerator setting of objnocacheformquestionmark, objnocacheformcgi and filtercookies. The problem was that the global setting always applied.
Fixed abend in filter framework during site download.
Fixed alternate hostname sometimes not working with multihoming.
Fixed an abend related to the SSL CONNECT fix in previous build.
Fixed Autovol abend on single drive systems (in 2.3.0.2.22a CD. Not in OTWUG).
Fixed CD image install to create 4 GB log volume instead of 2 GB log volume.
Fixed double request sent to SSLized (Secure Excelerator) origin server.
Fixed LDAP authentication failure when logging is enabled (this issue was introduced in early 2.3.0.2.x builds).
Fixed origin server status being reset during apply when more than one are configured for a service. (I.e. if the origin web server is down then after doing an apply that status is forgotten).
FTP LogPush failing when FTP server had a welcome message that ended with multiple CR-LF characters.

Issue Addressed
FTP over HTTP can't retrieve files from Cisco's web site over FTP. 404 Not Found error is returned to the browser. Excelerator using relative file path to attempt download of file (no leading /). FTP server returns 550 No such file or directory for these particular files unless an absolute (leading slash) path is used.
Host based multi-homing code not always referencing the proper accelerator service on the first request.
HTML page displayed when accessing FTP over HTTP forward proxy doesn't include <HTML> </HTML> <BODY> </BODY> tags. This causes problems with some browsers.
Importing NAS configuration file can truncate SNMP alert email addresses.
Improved scaling of live MMS streams.
Larger packets for NTLM authentication to handle users which are members of very large numbers of groups.
Long URI requests (i.e. over 8KB) caused memory corruption and an abend when filter logging was enabled.
Loopback address 127.0.0.1 showing up in the list of configured DNS servers.
Made purgelist case insensitive.
Memory allocation failure during DynArray expand (EIP in NWUTIL.NLM at code start +0000D42Bh).
Memory leak could cause loss of about 10K of memory each time an "Apply" was executed.
Mutual Authentication profile not working due to the peer(server mode) failing to send a root list.
NILE/SSL Netware OS updates
Proxy now only tracks objects with extensions less than 6 characters. (prevents running out of memory condition).
Real Media Agents (RealPlayer and RealOne Player) are now handled similar to NSPlayer when authentication is enabled for transparent services.
Reduced the minimum receive buffers so that Debug version will initialize on 256MB systems.
Removed 3 minute time out for remembering that an origin server for a reverse proxy is down (This improves the load balance efficiency).
Removed debug trap from debug version of Excelerator when a client connects to the mini ftp server and issues "mget *.*<extension>" command. Note that mget is not fully supported. It has been changed to treat mget *.*<extension> similar to how mget *.*<extension> works which is to simply prompt to download every file in the directory.
Resetting to factory settings doesn't clear out the access control policy settings for forward and transparent proxy.
Resolved following GUI problems: 1. Connection broken. 2. WCCP IP address field too small.
Sending an HTTP POST to the miniwebserver could cause a crash. PPOXY.NLM would abend in function PLD_EnsurePathDosCompatible.
Server Gated Cryptography not working properly
SSL CONNECT redirect does not contain proxy port
Trap: NWUTIL.NLM _AddEventData when using logging in conjunction with a large filter override list.
Turned off "proxy may send data with the ACK of a SYN-ACK" by default. This is in response to support calls. Extremely low probability of negative side-effects.

Issue Addressed
Under certain circumstances, Secure Excelerator sends 2 requests to the origin web server instead of one. This results in 500 internal server error when requesting dynamically generated content.
Unusually long file extensions (i.e. 15 characters) may cause a memory allocation failure.
VeriSign 128-bit Secure Site Pro SSL (Global Server) cert not working with 40/56-bit browsers.
View user not able to download proxy log files from Excelerator GUI.
Volauth.exe periodically stopping (requiring service restart) and reporting "Error(2016) - Groups overflow error."
volauth.exe updated to handle larger packets for NTLM authentication.
When changing the IP address or subnet mask of an interface with NAT enabled, NAT would disable itself and need to be re-enabled.
When enabled as a router, with NAT enabled, routing could stop working when changing the public IP address.

Enhanced Functionality in Service Pack 1

By default, Excelerator does not check whether objects in cache have been modified when processing Site Download and Pin lists.

After installing Service Pack 2, which includes Service Pack 1, you can configure the system to use If-Modified-Since requests in these cases.

For more information, see [TID10086979 on the Novell Support Site \(http://support.novell.com/cgi-bin/search/searchtid.cgi?/10086979.htm\)](http://support.novell.com/cgi-bin/search/searchtid.cgi?/10086979.htm).

Enhanced Functionality in Service Pack 2

This document describes the Ignore URI Arguments patch for Excelerator™ version 2.3.0.2.7 and higher.

The Ignore URI Arguments feature applies only to reverse acceleration services. It is not available for forward or transparent proxy services.

Ignore URI Arguments

Overview

Incoming URL requests often include URI arguments—strings that begin with a question mark (?). ISPs commonly use URI arguments for logging or billing purposes.

In many cases, the base URL actually refers to the same object on the origin Web server. However, since Excelerator caches objects by unique URL, the URI arguments cause the same object to be cached multiple times—once for each unique URL.

It is obviously more efficient to cache one object rather than multiple copies of the same object. However, there are situations where retaining the URI arguments is more important than preventing duplicate object caching.

This feature lets you configure the reverse acceleration services that should have the URI arguments stripped from incoming URLs.

Using the Feature

Setting the Option

To configure a reverse acceleration service to ignore URI arguments in incoming URLs, do the following:

- 1 At the console prompt, enter the following command:

```
set accelerator name discardUriArgument = yes
```

where *name* is the name of the reverse acceleration service you are configuring to ignore URI arguments.

- 2 Enter the following command:

```
apply
```

Viewing the Current Option Setting

To view the parameter settings for a reverse acceleration service, do the following:

- 1 At the console prompt, enter the following command:

```
get accelerator name discarduriargument
```

where *name* is the name of the reverse acceleration service you want to check.

Stripped Arguments Are Not Logged

When a reverse acceleration service is set to ignore URI arguments, the arguments

- ♦ Are stripped from all incoming URL requests.
- ♦ Do not get recorded in the service's log files.

FTP Log File Transfer Acknowledgement

Excelerator now supports positive acknowledgement of FTP log file transfers by renaming the temporary target file when the log transfer is complete.

To enable transfer acknowledgement, do the following:

- 1 At the console prompt, enter the following command:

```
set logpush useFileRename = yes
```

While the logs are being transferred, the file will have a typical Excelerator log file name with the extension .TMP. For example, during the transfer the log file might be named 01310015.TMP.

After the transfer is complete, Excelerator will rename the file to *filename*.LOG. Continuing with the example, the file would be renamed 01310015.LOG.

Per-Accelerator Cache Settings

Overview

Three of the parameters that previously applied only to the entire cache can now be set for each accelerator service. The options are:

- ♦ **filtercookies** Cookies are allowed to pass through the cache by default. (The parameter is set to no by default.)

- ♦ **objnocacheforquestionmark** Objects containing a question mark (?) are not cached by default. (The parameter is set to yes by default.)
- ♦ **objnocacheforcgi** Objects containing CGI parameters are not cached by default. (The parameter is set to yes by default.)

Administrators set these parameters for the entire cache using the command:

```
set cache parameter = yes|no
```

where *parameter* is one of the three parameters listed above.

What Has Changed

The three parameters are still settable for the entire cache and the default values still apply to Excelerator 2.3 SP2. What has changed is that these parameters are now optionally configurable for each accelerator service.

Using the Per-Accelerator Settings

You can set the parameters by doing the following:

- 1 At the console prompt, enter the following command:

```
set accelerator name parameter = default|yes|no
```

where *name* is the *name* of the accelerator service you are configuring and *parameter* is one of the three parameters listed in the “[Overview](#)” on page 14.

NOTE: You can set the parameters described in this section only at the console prompt. The parameters are not available in the browser-based management tool.

The effects of the available parameter settings on each accelerator service are summarized in [Table 3](#).

Table 3 Per-Accelerator Cache Options

Option	If setting = default	If setting = yes	If setting = no
filtercookies	The global cache setting for this parameter is used.	Cookies are not allowed to pass through the cache.	Cookies are allowed to pass through the cache.
objnocacheforquestionmark	The global cache setting for this parameter is used.	Objects containing a question mark (?) are not cached.	Objects containing a question mark (?) are cached.
objnocacheforcgi	The global cache setting for this parameter is used.	Objects containing CGI parameters are not cached.	Objects containing CGI parameters are cached.

To view the global cache settings, enter the following command at the console prompt:

```
get cache parameter
```

where *parameter* is the parameter you want to see.

To view the cache settings for an accelerator service, enter the following command at the console prompt:

```
get accelerator name parameter
```

where *name* is the name of the accelerator service and *parameter* is the parameter you want to see.

2

Installing Service Pack 2

Use the information in this section to install Service Pack 2.

NOTE: Service Pack 2 includes Service Pack 1.

Excelerator 2.3 Is Required

If you are running a previous version of Excelerator (or Novell ICS), you must upgrade to Excelerator 2.3. For more information, see the [Volera product Web pages on Novell's support site \(http://support.novell.com/volera\)](http://support.novell.com/volera).

Update Clones Option Both Before and After Installing

We strongly recommend that you update the clone image both before and after installing service pack 2. You should wait to update the clone image after installing the service pack until you are sure the appliance is behaving as expected.

To update the clone image, click System > Actions > Update Clones in the browser-based management tool.

After the upgrade, if you are unhappy with results for any reason, you can revert back to the previous system image.

To restore a clone image, click System > Actions > Restore from Clones in the browser-based management tool.

After you have verified the upgrade is performing as expected, you should then update the clone image to the upgraded version.

Installing from the Web

- 1 Start the browser-based management tool.
- 2 If you have enabled IP access control, you must temporarily disable the feature before installing from the Web.
- 3 If filtering services on the device are set to block unrated content, you must temporarily change these settings while completing the installation.
- 4 In the browser-based management tool, click System > Upgrade.
- 5 Check Enable Download.
- 6 In the Install from URL field, type in the download URL, which is http://support.novell.com/volera/patches/xlr_2.3/23022a.txt (http://support.novell.com/volera/patches/xlr_2.3/23022a.txt).

7 Check Enable Install.

8 Click Apply.

The installation process always restarts the cache device, temporarily disconnecting the browser-based management tool.