Sun Java System Web Proxy Server 4.0.13 Release Notes

Contents

Release Notes for Sun Java System Web Proxy Server

These release notes contain important information available at the time of the release of the Sun Java™ System Web Proxy Server 4.0.13 product, hereafter referred to as Proxy Server 4.0.13 or just proxy server. Platform summary and known problems are addressed here. Please read this document and associated documents before you begin using the Sun product.

This document contains the following sections:

What's New in This Release

Sun Java System Web Proxy Server 4.0.13 supports the Microsoft Windows 2008 Enterprise Edition. This release contains fixes of important bugs, including the following ones related to security vulnerabilities:

Bug 6917212 describes the buffer overflow issues in the Digest Authentication methods in the Sun Java System Web Proxy Server, which may allow remote unprivileged users to crash the Web Proxy Server, thus leading to a Denial of Service (DoS) condition. These issues may also lead to execution of arbitrary code with elevated privileges.

Bug 6917211 describes the heap overflow issues in the HTTP TRACE functionality in the Sun Java System Web Proxy Server, which may allow remote unprivileged users to crash the Web Proxy Server, thus leading to a Denial of Service (DoS) condition. These issues may also be exploited to gain unauthorized access to sensitive information.

Bug 6897536 describes the "Proxy-support: Session-Based-Authentication" header sent out by the Sun Java System Web Proxy Server. A proxy that correctly honors client to server authentication integrity will supply the "Proxy-support: Session-Based-Authentication" HTTP header to the client in HTTP responses from the proxy. The client MUST NOT utilize the SPNEGO HTTP authentication mechanism through a proxy unless the proxy supplies this header with the "401 Unauthorized" response from the server.

Bug 6901079 describes the new functionality of Proxy's HTTP client where the Error stage can be optionally run for any error responses received from a backend server.

Bug 6862976 describes a new parameter "trailing-slash-redirect" under the "map" SAF. If this parameter is set to "true", then the "map" SAF will use the value of the "to" parameter as the new URI and will not append the value of the "from" parameter to it.

Bug 6906258 describes the newly added support for LDAP search filters.

Enhancements in Sun Java System Web Proxy Server Releases

The recent releases of Proxy Server includes the following enhancements.:

Performance Tuning, Sizing, and Scaling guide

A performance tuning, sizing, and scaling guide has been introduced in 4.0.11. This document provides tuning, sizing, and scaling tips and suggestions; possible solutions to common performance problems; and data from scalability studies. It also addresses miscellaneous configuration and platform-specific issues. For more information, see *Sun Java System Web Proxy Server 4.0.13 Performance Tuning, Sizing, and Scaling Guide*

Transparent Proxy

Proxy Server 4.0 supports transparent proxy for HTTP/1.1 connections. Transparent proxying involves intercepting and processing web requests by using the proxy server, without the knowledge or control of clients. For example, a router for a local network is configured to redirect incoming TCP connections to the local port, in which the proxy server is active.

Add the following directive to the proxy server default object in the obj.conf file:

```
NameTrans fn="host-map"
```

This configuration enables the proxy server to use the HTTP Host: header of incoming requests to identify and redirect the request to the target remote server.

Note – Transparent proxy servers that decide connections based on the HTTP Host: headers are vulnerable to fake HTTP Host: headers forged through the active content. Therefore, suitable ACL configurations must be implemented to prevent connection to web sites that might host malicious content.

URL Mapping

URL Mapping has been implemented in Proxy Server 4.0.8. It enables the Proxy Server to act as a reverse proxy. This feature enables Proxy Server to provide a single front-end hostname for back-end application servers. Based on a requester's URI, access is provided to back-end servers.

For more information about URL Mapping, see "Reverse Proxy Scenario" in *Sun Java System Web Proxy Server 4.0.13 Configuration File Reference*.

For information about Server Application Functions (SAFs) used in URL Mapping, see "Server Application Functions (SAFs)" in *Sun Java System Web Proxy Server 4.0.13 Configuration File Reference*.

Registration with Sun Connection

You can use the Admin Server to register the Web Proxy Server with Sun Connection. Click the **Register with Sun Connection** button, a client.jnlp application opens up. Follow the wizard to complete the registration.

By registering the Web Proxy Server with Sun Connection you receive the following benefits:

- Patch information and bug updates
- News and events
- Support and training offerings

This feature is supported only on Solaris SPARC, x86 and Linux platforms. To avail this feature on Solaris, you need to install SUNWservicetagr and SUNWservicetagu packages in SPARC and x86 systems.

To avail this feature on Linux, you should install the sun-servicetag-1.0.0-1.0.i386.rpm.

Monitoring Server

The monitoring capabilities of Sun Java System Web Proxy Server provides a detailed list of the server parameters that you can monitor at instance level.

From the Web Proxy Administration Server, you can perform the following actions:

- View server statistics at an instance level.
- Enable/Disable at an instance level.

▼ Monitoring Server

1 **Access the Administration Server**

2 **Click the Instance link from the Manage Servers page**

3 **Click the Server Status tab**

4 **Click the Monitor Current Activity tab**

5 **Set the Monitoring Current Activity to ON to monitor the server**

You can also refresh the server in following intervals 5,10 and 15 seconds and view the statistics of the DNS, Keep-Alive, Cache, Server Requests and Work Thread connections.

Embedded DNS Resolution

The embedded DNS supports the non-default name resolution. The DNS client interacts with a DNS server to perform the name resolution. The new SAF dns-lookup, receives the DNS server's IP address as a server argument. This IP address should be added as a DNS directive in the obj.conf file.

In the following example, IP of the DNS server is specified in the server parameter.

```
<object>
....
DNS fn="dns-lookup" server="170.168.10.3"
...
</object>
```

In the following example, you can add multiple DNS server IPs to dns-lookup-init, and it will be used in round robin model. In this scenario, do not add DNS server IP to dns-lookup. If DNS server parameters are added to both dns-lookup and dns-lookup-init, the dns-lookup argument will take the precedence.

```
...
<Object>
...
DNS fn="dns-lookup"
....
Init fn="dns-lookup-init" servers="170.168.10.3, 170.158.10.4"
</Object>
```

ACL Cache Tuning

The `ACLCacheMax` is a `magnus.conf` parameter that sets a limit to the total number of ACLs stored in the ACL cache. There is no default value for `ACLCacheMax` and it should be configured for a specific limit.

For example, `ACLCacheMax 16384`

Note – The ACL cache in this context does not refer to the `ACL user cache`. It refers to a cache where ACLs are applicable to specific URLs that are cached for performance reasons.

The `GCAtStartup` is a `magnus.conf` parameter that allows boolean value. By default the value is false, if set to true, Cache garbage collector clears the garbage during the server startup. This can increase the server startup time when the cache size is high.

The New Directives in the `magnus.conf` File

This section lists the newly added parameters in the `magnus.conf` file.

TABLE 1 `magnus.conf` Directives

Parameters	Valid Values	Description
ACLCacheMax	1	Specify a configurable limit for the ACL cache. This directive restricts the size of ACL cache, thus removing old entries from the cache which otherwise contributes significantly to memory usage.
FtpPoolSize	1 – 65536	Specify the size of the FTP connection pool. The default value is 256.
FtpPoolLife	1 – 65536	Specify the life of the connection in seconds, that the FTP connection remain unused in the pool before the monitor thread closes it. The default value is 3600.

TABLE 1 `magnus.conf` Directives *(Continued)*

Parameters	Valid Values	Description
FtpPoolMonitorThread	OFF	Specify the boolean value to monitor the FTP thread functionality. The default is ON.
FtpPoolMonitorLevel	0	Specify an integer value. If set to 0 the pool monitor thread checks whether the connection is dead or alive.
		If set to 1, the NOOP command is sent to the connection and awaits for the reply. Failure to get a response will cause the connection to be removed from the pool. The default level is 1.
FtpPoolMonitorInterval	30 − 65536	Specify an integer value in seconds, after which the pool connections are monitored. The default value is 30
LDAPPoolMonitorThread	Takes a boolean value.	If set to TRUE, a ldap pool monitor thread would be created which monitors the ldap connection pool at regular intervals. The default value is FALSE.
LDAPPoolMonitorInterval	Takes an integer argument.	Specifies the interval at which the ldap pool monitor thread inspects the ldap connection pool. The default value is 30.
LDAPPoolRevalidate	Takes a boolean value.	If set to TRUE, every connection that is picked off the connection pool will be "revalidated" before being passed on to the caller. The default value is FALSE.
PairedConnections	Takes a boolean value	If set to TRUE, it enables "connection pairing" where a server channel is dedicated, or paired, to a specific client connection. The default value is FALSE.
BufferedLogEnabled	Takes a boolean value	If set to true, an error that is generated multiple times over a period of time is written only once into the error logs, accompanied by information on the number of times the particular error was actually generated during the specified period. The default value is FALSE.
BufferedLogCountMax	1 − 65536	It specifies the maximum number of times an error can be generated after which it will be flushed out to the error log. The default value is 128.

TABLE 1 magnus.conf Directives *(Continued)*

Parameters	Valid Values	Description
BufferedLogSizeMax	1 – 65536	It specifies the maximum number of error messages that the log buffer can contain after which the log messages will be flushed to the error log. The default value is 8192.
BufferedLogAgeMax	1 - 3600	It specifies the maximum age, in seconds, of a log message in the log buffer after which it will be considered aged and flushed to the error log. The default value is 300.
BufferedLogFlushInterval	1 - 300	It specifies the time interval, in seconds, during which the log buffer is inspected by the thread responsible for flushing log messages to the error log. The default value is 30.

Cache PURGE **Feature**

Proxy Server allows PURGE requests to clear the cached URL. If the requested URL is purged successfully, a response with an HTTP status code of 200 (OK) is sent by the server. If the specified URL is not cached, a 404 (Not Found) response is sent.

In the following example, the server returns the value 200

```
bash-2.03$ telnet localhost 8088
Trying 172.9.10.1...
Connected to localhost.
Escape character is '^]'.
PURGE http://foo.com/ HTTP/1.0

HTTP/1.1 200 OK
Server: Sun-Java-System-Web-Proxy-Server/4.0
Date: Fri, 26 Oct 2007 08:15:30 GMT
Connection: close
```

In the following example, the server returns the value 404.

```
Connection closed by foreign host.
bash-2.03$ telnet localhost 8088
Trying 172.9.10.1...
Connected to localhost.
Escape character is '^]'.
PURGE http://foo.com/ HTTP/1.0

HTTP/1.1 404 Not Found
```

```
Server: Sun-Java-System-Web-Proxy-Server/4.0
Date: Mon, 17 Sep 2007 10:13:28 GMT
Content-length: 96
Content-type: text/html
Connection: close
```

Internet Protocol Version 6 (IPv6) Support

You can connect to an IPv6 enabled Web site through the Proxy Server 4.0.11. Proxy server also supports ftp extension for IPv6 in default (passive) mode.

NSS 3.12.5 and NSPR 4.8.2 Support

Proxy Server 4.0.13 supports Network Security Services (NSS) 3.12.5 and Netscape Portable Runtime (NSPR) 4.8.2.

Modified FTP Transfer Mode

From Proxy Server 4.0.6 release, support for Extended address Passive port (EPSV) mode has been introduced.

Upgrade Support

From Proxy Server 4.0.2 release, the installer supports the upgrade of an existing Proxy Server 4.0 installation to the later version. For the Java Enterprise System installations of Proxy Server 4.0.1, you need to install the patches that correspond to the later release.

Platform Summary

This section provides information about the supported platform components for Proxy Server 4.0.11.

This section includes the following topics:

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Platform Requirements

The following table summarizes the Proxy Server 4.0.13 platform requirements.

TABLE 2   Platform Requirements for Proxy Server 4.0.13

Operating System	Minimum Memory	Recommended Memory	Recommended Disk Space*
Sun Solaris™ 8 for SPARC®	256 Mbytes	512 Mbytes or higher	512 Mbytes or higher
Sun Solaris 9 for SPARC	256 Mbytes	512 Mbytes or higher	512 Mbytes or higher
Sun Solaris 10 for SPARC	256 Mbytes	512 Mbytes or higher	512 Mbytes or higher
Sun Solaris 9 for x86	256 Mbytes	512 Mbytes or higher	512 Mbytes or higher
Sun Solaris 10 for AMD Opteron™	256 Mbytes	512 Mbytes or higher	512 Mbytes or higher
Red Hat Enterprise Linux Advanced Server 3 Update 4	256 Mbytes	512 Mbytes or higher	512 Mbytes or higher
Red Hat Enterprise Linux Advanced Server 4 Update 2	256 Mbytes	512 Mbytes or higher	512 Mbytes or higher
Red Hat Enterprise Linux Server Release 5	256 Mbytes	512 Mbytes or higher	512 Mbytes or higher
Microsoft Windows 2000 Server Service Pack 4	256 Mbytes	512 Mbytes or higher	512 Mbytes or higher
Microsoft Windows 2000 Advanced Server	256 Mbytes	512 Mbytes or higher	512 Mbytes or higher
Microsoft Windows 2003 Enterprise Edition	256 Mbytes	512 Mbytes or higher	512 Mbytes or higher
Microsoft Windows 2003 Server R2 Enterprise Edition SP2	256 Mbytes	512 Mbytes or higher	512 Mbytes or higher
Microsoft Windows 2008 Enterprise Edition	256 Mbytes	512 Mbytes or higher	512 Mbytes or higher
HP-UX 11i (11.11)	256 Mbytes	512 Mbytes or higher	512 Mbytes or higher

* Depends on cache capacity setting. The default cache capacity setting is 2 Gbytes.

Please take needed action to move or migrate your Web Proxy Servers to a supported operating system.

Supported Browsers

The following table lists the browsers that are supported with Proxy Server 4.0.13.

Your browser must have Java enabled.

TABLE 3   Supported Browsers for Proxy Server 4.0.13

Browser	Version
Microsoft Internet Explorer	6.0, 7.0
Netscape™ Navigator	7.1, 7.2
Mozilla™	1.4.1, 1.7.2

Hardware and Software Requirements

In addition to the UNIX operating system memory and disk space requirements listed in "Platform Requirements" on page 12, your system must also have adequate swap space:

- Solaris requires swap space at least as large as the amount of RAM on your system (twice the amount of RAM is recommended)
- Linux requires 256 Mbytes swap space

Required Patches

It is recommended that you update your operating system with the latest applicable patches. Required patches are listed by platform.

Solaris Patches

The following is the required patch level for Proxy Server 4.0.13 in Solaris SPARC and x86.

Solaris 8 (SPARC)

- 108434–18 (shared library patch for C++)

Solaris 9 (SPARC)

- 111711–12 (shared library patch for C++)

Solaris 9 (x86)

- 111713–12 (shared library patch for C++)

Solaris 10 (SPARC)

NOT REQUIRED

Solaris 10 (x86)

- 119964–03 (shared library patch for C++)
- 108434–18 (shared library patch for C++)

Linux Patches

The following is the required patch level for Proxy Server 4.0.13 in Linux.

Red Hat Enterprise Linux Advanced Server 3

- compat-libstdc++-7.3-2.96.128.rpm

Red Hat Enterprise Linux Advanced Server 4

- compat-libstdc++-33-3.2.3-47.3.rpm compat-libstdc++-296-2.96-132.7.2.rpm

HP-UX Patches

- HP-UX 11i Operating Environment Component-B.11.11.0412
- Required patch bundle for 11i, June 2003–B.11.11.0306.1
- Gold Base patches for HP-UX 11i, December 2006–B.11.11.0612.459
- Gold Application patches for HP-UX 11i, December 2006–B.11.11.0612.459
- Pthread enhancement and fixes-PHCO_29109
- Pthread.h fix and new enhancement-PHCO_27633
- libc manpage cumulative patch-PHCO_29328
- libc cumulative patch-PHCO_29495
- Java Out-of-Box-JAVAOOB, 1.0.00.02

The Java Out-of-Box tool is used to configure the necessary kernel tunable parameters. Use of this tool is the recommended method for modifying kernel values. If necessary, modify the following tunable parameters to reflect a value equal to or greater than the following:

- nkthreads— 3635
- maxfiles–60
- maxfiles_lim–1024
- max_thread_proc–512
- maxswapchunks–2048
- nfile4–136

- ncallout–3651
- nproc–2068

> ⚠ **Caution** – Modifying the kernel tunable parameters can have adverse impacts on your system. Do not modify the parameters unless you fully understand what you are doing.

Impact of US DST Changes 2007

Daylight Savings Time (DST) starts in USA from the 2nd Sunday of March and ends on the 1st Sunday of November. This impacts the date and time rules of the Operating System.

To make sure that the log files contain the correct time in US time zones, and that the Administration Server is not impacted by this change, Sun recommends you to do the following:

- Download and install the appropriate Operating System patches. You can download the Solaris patches from: `http://sunsolve.sun.com/search/document.do?assetkey=1-26-102775-1`

  For other platforms, download similar DST compatible patches from the respective Operating System vendor's web sites.
- For Solaris, Windows, and Linux, run Proxy Server with JRE 1.5.0_12. For HP-UX, run Proxy Server with JRE 1.5.0_12.

Accessing the Documentation

The Sun Java System Web Proxy Server 4.0.13 documentation is provided in a number of ways:

- Manuals – You can view the Proxy Server 4.0.13 manuals and release notes in HTML and in printable PDF formats.
- Online help – Click the Help button in the graphical interface to launch a context-sensitive help window.

Accessibility Features for People With Disabilities

To obtain accessibility features that have been released since the publishing of this media, consult Section 508 product assessments available from Sun upon request to determine which versions are best suited for deploying accessible solutions. Updated versions of applications can be found at: `http://sun.com/software/javaenterprisesystem/get.html`.

For information on Sun's commitment to accessibility, visit `http://sun.com/access`.

Resolved Issues

This section lists the most important issues fixed in the following releases:

Issues Resolved in 4.0.13

The following table lists the issues resolved in the Sun Java System Web Proxy Server 4.0.13.

TABLE 4 Issues Resolved in Sun Java System Web Proxy Server 4.0.13

ID	Summary
6886805	Proxy Server 4.0 appears to go into a high CPU consumption loop while processing POST requests for `ftp` URLs. This is accompanied by memory growth.
6896637	Proxy Server 4.0 goes into high CPU consumption and memory leak while processing `ftp` HEAD requests.
6896640	Proxy Server 4.0 crashes during startup if `server.xml` does not contain GC-related configuration.
6900117	Integrate NSS 3.12.5 which contains fixes for the SSL/TLS vulnerabilities.
6905852	Proxy Server 4.0 crashes due to a bug in caching subsystem.
6917211	Proxy 4.0 undergoes heap overflow for TRACE requests.
6917212	While handling `digest authentication` Proxy 4.0 buffer overflows.
6862976	Proxy Server 4.0's "map" SAF should allow mappings to specific files on a remote server.
6875375	Proxy Server 4.0 Admin GUI Cache View (cv) program crashes.
6878699	Proxy Server 4.0.8 has `.htaccess` issues with `grpfile` if this user belongs to multiple groups.

TABLE 4   Issues Resolved in Sun Java System Web Proxy Server 4.0.13   *(Continued)*

6885145	`"HTTP3287: connection limit (XXXX) exceeded, closing socket"` Proxy Server 4.0 displays the above error message every time when the requests exceed a `ConnectionQueue` size.
6888184	After upgrade, installer displays strangely worded message in Web Proxy Server 4.0.11.
6891353	Proxy Sever 4.0.x does not recognize $ character.
6895030	The cache finish status can be missing/empty due to existing lock file under heavy load conditions.
6897536	Proxy 4.0 currently does not support the behavior promised by a "Proxy-support: Session-Based-Authentication".
6898929	Proxy 4.0.13 supports Microsoft Windows 2008 Enterprise Edition.
6900151	When a cached object is being refreshed after it's size has changed at the remote server, and chunked encoding is used, the cache-finish status is absent in the server's access logs.
6901079	The `http client` can be enhanced to optionally run the Error stage for any error responses that it receives from a backend server.
6906258	Proxy Server 4.0 needs to support arbitrary LDAP search filter in `dbswitch.conf`.
6906789	Corrupted cache files can be formed in a Proxy 4.0 installations cache under load.
6910914	URL mapping does not work with `send-error`.
6917873	TRACE requests with empty header names can cause Web Proxy Server 4.0 to return malformed responses.

Issues Resolved in 4.0.12

The following table lists the issues resolved in the Sun Java System Web Proxy Server 4.0.12.

TABLE 5   Issues Resolved in Sun Java System Web Proxy Server 4.0.12

ID	Summary
6856153	Proxy 4.0 crashes in the `ftp` subsystem under stress.
6856800	Mapping cache breaks under a high load environment on Proxy Server 4.0.8.
6869927	Integrates NSS 3.12.
6882485	Proxy Server 4.0 crashes during startup with ICP enabled and `MaxProcs` > 1.
6851886	Adds a dedicated thread to monitor the `ldap` connection pool for validation.
6863071	Proxy Server 4.0 caching does not happen for large query strings (> 150 characters, approximately).

TABLE 5 Issues Resolved in Sun Java System Web Proxy Server 4.0.12 *(Continued)*

6864966	Feature request to strip the version number out of the service name (Web Proxy Server 4.0.11).
6864967	Notifies the end user when the upgrade custom Web Proxy Server installation to check `javahome`.
6868580	Version changes for 4.0.12.
6872808	Web Proxy Server 4.0 should support Windows 2003 R2 SP2.
6874449	Proxy Server 4.0 build patch scripts need to be notified for new `buildpatch` location.
6876811	SSL tunnel does not log initial wait time and full wait time in `extended2` logging.
6882926	Proxy Server 4.0 ICP port not available on Solaris x86.
6883024	Proxy Server 4.0 byte range handling is broken.
6883480	Proxy Server 4.0 displays "Bad CIF entry" message while looking up a cache file.
6883492	Proxy Server 4.0 does not receive ICP messages by peers on x86.
6878213	`send-error` should choose error file path based on browser locale.

Issues Resolved in 4.0.11

The following table lists the issues resolved in the Sun Java System Web Proxy Server 4.0.11.

TABLE 6 Issues Resolved in Sun Java System Web Proxy Server 4.0.11

ID	Summary
6835885	The `ftp` subsystem of Proxy Server 4.0 has a bug which leads to memory corruption and server crash.
6837779	A memory leak is observed in Proxy Sever 4.0 `ftp` subsystem while accessing directories through `ftp`.
6842576	The caching subsystem of Proxy Server 4.0 has a bug which leads to memory corruption and returns incomplete response headers when served from the cache.
6844188	Proxy Server 4.0 can crash due to memory corruption, while serving `ftp` requests from the cache.
6847078	The caching subsystem of Proxy 4.0 should identify and avoid processing of corrupt cache files to serve requests.
6847467	Configuring the Proxy Server 4.0 to use the `pre-filter` SAF causes server to crash.
6853447	Proxy server crashes when the script associated with the pre-filter SAF contains an empty line at the beginning.

TABLE 6   Issues Resolved in Sun Java System Web Proxy Server 4.0.11   *(Continued)*

6827602	The statistics generation in Proxy Server 4.0 should show data for both "Client DNS cache" (`host-to-ip`) and "Host DNS cache" (`ip-to-host`).
6836430	The Expires header is not handled correctly in Proxy Server 4.0.9.
6837471	Proxy Server 4.0.9 fails to display Statistics page on Linux and throws a "500 Error".
6838323	Proxy Server 4.0 displays wrong "504 Gateway Timeout Error" when `<NameTrans fn="set-variable" error="504">`.
6838907	Windows Installer for Proxy Server 4.0 does not allow port values less than 1024 for the server instance, while allows for Admin server.
6843724	Garbage collection in Proxy Server 4.0 may produce a race condition under heavy load.
6847488	A bug in the Proxy Server 4.0 Admin interface makes it difficult to edit template assignments that contain '+' characters.
6847849	The `server.xml` file is not updated on modifying the cache "Working Directory" in Proxy 4.0 Admin interface.
6848296	Authentication problems is observed in Proxy 4.0, while using `ACLCacheMax` parameter.
6849204	A potential memory corruption and server crash occurs in Proxy Server 4.0 due to a `parray` module issue.
6849650	Proxy server crashes during restarts when configured for MaxProcs > 1.
6853436	While updating the cache size through "Set Cache Specifics", `server.xml` does not get updated.
6808135	Proxy Server 4.0.9 has a typo issue while accessing "Server Config Information" panel in both Admin GUI and CLI.
6825292	Proxy Server 4.0 should allow Admin GUI to enable or disable both types of DNS cache; `ip-dns-cache-init` and `host-dns-cache-init`.
6840526	Proxy Server 4.0 has potential problems with `parray` code.
6841509	During Proxy installation, selecting "Startup on Boot = yes" results in an error.
6843134	Verbose logging mode of automatic GC is required.

Issues Resolved in 4.0.10

The following table lists the issues resolved in Sun Java System Web Proxy Server 4.0.10.

TABLE 7   Issues Resolved in Sun Java System Web Proxy Server 4.0.10

ID	Summary
6764910	Proxy Server 4.0 crashes due to dynamic reconfiguration.

TABLE 7   Issues Resolved in Sun Java System Web Proxy Server 4.0.10   *(Continued)*

ID	Summary
6783252	Proxy Server 4.0, should display cache finish status for responses marked as non-cacheable by the remote server.
6793247	Proxy Server should optionally ignore caching directives in HTTP request headers.
6559322	Proxy Server must support large web proxy cache size greater than 32 GB.
6773378	URL filtering must allow to specify relative URLs. This facilitates URL filtering to work along with load balancing.
6781954	The passthru-cookies parameter, in URL mapping feature, used to specify cookies does not function properly in few cases.
6785653	POST with proxy authentication fails with a 407 error if you have not authenticated before the POST.
6789769	The URL filter functionality does not consider CONNECT requests.
6791870	Proxy Server's admin interface does not allow multiple reverse mappings to the same destination.
6798154	Certain url constructs, with a space and a single quote, are not translated properly by the Proxy Emulator.
6804616	Proxy Server 4.0.10 supports the feature - Transparent Proxy Support for HTTP/1.1 requests.
6803379	The Sun Java System Web Proxy Server 4.0.9 patch, 120983–16 and prior versions, provides support for RHEL 3.0, 4.0, and 5.0.
6796045	In Proxy Server's admin interface, the DNS cache information in Monitoring functionality should be updated appropriately.
6754044	Upgrading Proxy Server on a Windows box fails, as only a single installation of Proxy Server 4.0 is allowed on Windows box.
6781259	The Java version information on the Proxy Server installation wizard is not updated.
6820625	URL rewriting fails, when an url has a space after a quote.
6820622	Proxy Server inserts a wrong If-modified-since: request header when without-lastmod is enabled.
6817164	cbuild should include appropriate help message for the -R option.
6816997	Proxy Server 4.0 has a problem in the map SAF's HTTP redirect functionality.
6812802	Proxy statistics is not displayed for DNS on HPUX, after enabling the **Activate Statistics/Profiling**.
6805450	Web Proxy Emulator problem while using DHML application.

Issues Resolved in 4.0.9

The following table lists the issues resolved in Sun Java System Web Proxy Server 4.0.9.

TABLE 8   Issues Resolved in Sun Java System Web Proxy Server 4.0.9

ID	Summary
6712042	Proxy Server 4.0 encounters an instance hang in `cache_filter_remove` function.
6713723	In Proxy Server 4.0, the cache partition/section `.size` files do not always show accurate values.
6715885	Proxy Server 4.0 reported log error messages related to cache lock file problem.
6715891	In Proxy Server 4.0, templates meant for `CONNECT` requests do not function properly.
6721344	Proxy Server 4.0 should have the ability to rewrite client headers.
6722629	Proxy Server 4.0 leaks file descriptors in the `ftp` subsystem when configured in `PORT` mode.
6722646	Proxy Server 4.0 leaks file descriptors in the caching subsystem while handling partial HTTP responses.
6723344	In Proxy Server 4.0 the cache statistics collection logic performs a complete cache traversal, during startup. This happens multiple times, contributing to a slow server startup.
6725741	Disabling statistics or profiling functionality in Proxy Server 4.0 Admin interface, does not function properly.
6727215	In Proxy Server 4.0, large negative values are seen for `xfer-time` in access log.
6728447	In Proxy Server 4.0.7, digest authentication used to process an ACL fails when the URI contains a query string with backslashes.
6735228	In Proxy Server 4.0, caching subsystem has a file descriptor leak under certain conditions.
6739585	Proxy Server 4.0 needs an alternative faster method to find out current cache size.
6740248	In Proxy Server 4.0.7, Admin GUI displays null for `Processes` and `Listen Queue Size` instead of default values.
6741262	Performance optimization is required for Proxy Server 4.0 caching subsystem.
6745095	Proxy Server 4.0 should tolerate HTTP responses that contain embedded spaces in header names.
6745170	Proxy Server 4.0 should support on RHEL5.
6746138	Proxy Server 4.0 should have the capability to rewrite HTTP request bodies.
6747928	FTP requests going through Proxy Server 4.0 as URL `ftp://user:password@server`, where password contains @ character generates an incorrect response.
6750791	Proxy Server 4.0.7 crashes under load, due to a problem in the ACL subsystem.

TABLE 8   Issues Resolved in Sun Java System Web Proxy Server 4.0.9   *(Continued)*

ID	Summary
6759153	Proxy Server 4.0.8 crashes, due to a problem in the URL Mapping subsystem.
6762346	Improper handling of `cache-control` header in Proxy Server 4.0.
6768244	Improper functioning of channel pooling logic in Proxy Server 4.0, results in service unavailability and possible memory leak.
6275141	File cache functionality is not implemented in Proxy Server 4.0.
6767688	Proxy Server 4.0 should support the "only-if-cached" `cache-control` directive.
6767691	Proxy Server 4.0 should support the "stale-while-revalidate" `cache-control` extension.

Issues Resolved in 4.0.8

The following table lists the issues resolved in Sun Java System Web Proxy Server 4.0.8.

TABLE 9   Issues Resolved in Sun Java System Web Proxy Server 4.0.8

ID	Summary
6648112	Proxy Server 4.0.6 and 4.0.7 does not provide a way to disable EPSV FTP Transfer Mode.
6655221	Increase the maximum timeout for idle connections on the Proxy Socks Server 4.x.
6660265	`flexanlg/dpstats` log analyzer is unable to deal with large access log files.
6660814	In Proxy Server 4.0, the block/fwd IP character of the most specific object is not enforced correctly.
6664392	In Proxy Server 4.0, improper handling of `vary` header occurs.
6664646	In Proxy Server 4.0, improper handling of `via` header occurs.
6670738	In Proxy Server 4.0, there is a possible 'High CPU Utilization' problem in the FTP subsystem.
6688600	Proxy Server 4.0.7 Admin GUI adds `am` into `server.xml` when using Caching-Schedule Garbage Collection page.
6692494	In Proxy Server 4.0, cache filter masks client write failures even when a cache file is not opened.
6692495	Proxy Server 4.0 can crash during Garbage Collection/Cache iteration code.
6695257	Integrate URL Mapping feature.
6707473	Heap-based buffer overflow exists in FTP Proxy Server.
6708838	Upgrade to JDK 1.5 in Proxy Server 4.0.
6708842	Telemetry feature for Proxy Server 4.0.

TABLE 9   Issues Resolved in Sun Java System Web Proxy Server 4.0.8   *(Continued)*

ID	Summary
6711396	`dpstats` dumps core in customer log file.
6454382	Reverse Proxy should allow changing cookie `domain` value in `set-cookie`.

Issues Resolved in 4.0.7

The following table lists the issues resolved in Sun Java System Web Proxy Server 4.0.7.

TABLE 10   Issues Resolved in Sun Java System Web Proxy Server 4.0.7

ID	Summary
6729343	Proxy Server 4.0.7 - Upgrading on Windows 2003 while the server is running fails. When upgrading on Windows from Proxy Server 4.0.6 to Proxy Server 4.0.7 without stopping the server, the process fails with errors. Stopping the server before attempting the upgrade will ensure the upgrade runs successfully.
6261401	URL filter files should be created under `config` directory instead of the `conf_bk` directory.
6590476	FTP subsystem is not closing the old connections appropriately.
6591980	The ownership of the URL filter is not set to that of the server instance user.
6592079	Backup files are getting created with wrong ownership.
6594729	Receives an `HTTP 7756 invalid response header`, but serves the file to the client.
6595773	FTP in Proxy Server 4.0.5 shows incorrect directory list.
6596860	Proxy Server should return a correct response when a pooled FTP connection receives the reset packet.
6599212	Add a dedicated thread which monitors the FTP connection pool for dead connections.
6600193	Proxy-Agent header does not work.
6602044	Incorrect FTP response while reloading the page multiple times.
6602049	Need to improve handling of FTP requests for `internal` objects like file and folder icons.
6604108	Incorrect response while dealing with invalid response headers.
6605322	Provide an in-process cleaning facility to clean cache entries fast.
6613934	Digest authentication prompts user to authenticate repeatedly.
6619592	`httpacl` and alias directories exist for the removed instance.

TABLE 10   Issues Resolved in Sun Java System Web Proxy Server 4.0.7   *(Continued)*

ID	Summary
6620274	Proxy Server 4.0.6 is unable to create new cache working directory if parent directory does not exist.
6621398	Proxy Server 4.0.6 fails to work with FTP server when you try to forward map to a back end of FTP server.
6622805	Proxy Server 4.0 does not respond and gets timed out, while accessing certain FTP URLs.
6622813	Proxy Server 4.0: starts very slow when the cache size is huge.
6628381	A proxy instance for which the cache is disabled cannot be removed cleanly.
6634127	Memory corruption causes server crash.
6635864	Manage Certificates screen on the administration interface is not displayed correctly.
6639455	Proxy server does not respond on stop or restart.
6641201	The Proxy-Authenticate headers are not passed correctly to the end client in a forward proxy.

Issues Resolved in 4.0.6

The following table lists the issues resolved in Sun Java System Web Proxy Server 4.0.6

TABLE 11   Issues Resolved in Sun Java System Web Proxy Server 4.0.6

ID	Summary
6224535	Timeout functionality does not work.
6460215	Cannot connect to an IPv6 enabled web site when connecting through proxy server.
6478413	Uninstalling a proxy server instance does not result in the removal of the files corresponding to the instance from the `alias` and `httpacl` directories.
6494418	block-multipart-posts doesn't block the request when content-type parameter is set.
6505578	`sockd` daemon can run out of worker threads when processing UDP associated requests.
6513846	Proxy Server 4.0.6 documents are updated to remove reference to HTTPS caching.
6514870	Removing a template through the Remove Template option does not remove all the assignments for that template.
6520593	A new section "Precedence of Regular Expressions Over Templates in Set Cache Configuration" is added to chapter 16 in the Proxy Server 4.0.6 *Administration Guide* to explain why templates used within Set Configuration do not work but manually entered regular expressions do.
6526659	Incorrect server start command is displayed in the installer.

TABLE 11   Issues Resolved in Sun Java System Web Proxy Server 4.0.6   *(Continued)*

ID	Summary
6529376	The default cache size for proxy server on Windows is 100 MBytes but the help page states that it is 1.6 GBytes.
6530476	The path to the `libjvm.sl` file in the start script is not set correctly.
6534717	When `cache-status` is enabled in access log, the access logs repeatedly show cache file as written and deleted for request headers that *have* `cache-control` set to no-cache.
6537346	Log entries show cache status as written , even when cache file is not created.
6538613	`cachegc` dumps core if the proxy instance's cache directory has been modified.
6541327	`cachegc` sometimes works incorrectly.
6545753	Error log shows a confusing error message when the proxy server encounters an invalid request line.
6546256	On Windows, a regular expression is not registered correctly in `obj.conf`.
6546720	Cannot connect to certain sites when DNS cache is enabled.
6547808	On Windows, the `watchdog` process crashes when the proxy instance is stopped through the service manager.
6559837	Proxy server crashes while handling an `ftp` request.
6560432	The Proxy Server 4.0.6 *Administration Guide* and the online help are updated to include description for Source Port Number.
6562122	For a SSL proxy instance an incorrect password entry does not get written to the errors file.
6562165	Proxy Server 4.0.6 *Administration Guide* is updated to remove references to the file cache functionality.
6562585	Proxy Server 4.0.6 *Release Notes* is updated to provide the correct version number for NSPR.
6563262	During `ftp` access some error log messages are noticed that convey no information and can be confusing.
6564435	Details of the Cache Section Table on the administration interface are not displayed correctly.
6565004	Proxy Server 4.0.6 *Release Notes* is updated to provide correct link to the Proxy Server documentation page.
6565021	Internal log rotation rotates the files twice if the system time is changed between two scheduled rotations.
6565436	The section "Disabling the Forward Proxying feature in a Reverse Proxy Setup" under "Setting Up a Reverse Proxy" in Chapter 14 of the Proxy Server 4.0.6 *Administration Guide* is updated to add information about how to prevent a security vulnerability in a reverse proxy server configuration.

TABLE 11   Issues Resolved in Sun Java System Web Proxy Server 4.0.6   *(Continued)*

ID	Summary
6566246	Cross site scripting vulnerability in the View Error Log functionality.
6566309	Cross site scripting vulnerability in the View URL Database functionality.
6566352	Cannot connect to an IPv6 FTP server through proxy server.
6566822	HTTP headers with a very long value can cause memory corruption in proxy server.
6566836	`flexanlg` dumps core.
6566889	After setting a value for Processes in the Configure System Preferences page , the value can not be changed back to null.
6566924	Help page is updated to provide a clearer explanation for Processes in the Configure System Preferences page.
6568534	Reference to Proxy Server 3.6 documentation issue is removed from Proxy Server 4.0.6 *Release Notes*.
6569516	Proxy Server accepts and forwards responses whose header names contain spaces.
6572128	Localized online help is updated to provide the correct context sensitive help page.
6572138	The access log does not include certain connection related information.
6574401	Proxy Server supported browsers to be enhanced to include Internet Explorer (IE) v7
6576044	Proxy Server 4.0.6 *Configuration File Reference* is updated to document the newly added SOCKS configuration parameter `SOCKS5_UDPASSOC_TIMEOUT`.
6576050	Proxy Server 4.0.6 Online Help is updated to specify the effect of HTTP client's retry functionality.
6576065	Proxy Server 4.0.6 Online Help is updated to make it consistent with Sun's style guidelines and proxy server's product user interface.
6577128	Proxy server support to be extended for Sun Crypto Accelerator 6000.
6578024	LDAP connection failure errors.
6578560	In the message that proxy server displays after an upgrade to indicate how you can access the administration server, the server name and port name are indicated as null (http://null:null).
6579049	Proxy server creates an incorrect partition which causes errors during startup.
6579781	An empty `host-regex` argument in the `virt-map` directive results in proxy server crash.
6581350	Proxy server installation contains debug JDK binaries.
6584989	In the Version window, the label is not located in the center of the Close button when the browser is IE 7.
6594191	Localized Online Help has to be integrated to Proxy Server 4.0.6.

Issues Resolved in 4.0.5

The following table lists the issues resolved in Sun Java System Web Proxy Server 4.0.5

TABLE 12   Issues Resolved in Sun Java System Web Proxy Server 4.0.5

ID	Summary
6240773	Deleting listen socket and restarting the server does not clear the port.
6390867	On Windows, `cv.exe` fails when you try to view the information for a cached `csv` file.
6391439	Clearing the Enable DNS subdomains option in the administration interface does not remove the line `DNS fn="dns-config" local-domain-levels="0"` from the `obj.conf` file.
6413536	`webservd` must be used as the default user and not `nobody`.
6463455	Proxy server 4.0.5 *Release Notes* is updated to state the version of Sun Crypto Accelerator that supports the proxy server.
6466910	Proxy Server 4.0.5 *Administration Guide* is updated to describe the procedure to set up Sun Crypto Accelerator to work with proxy server.
6482102	Files cannot be retrieved from certain FTP sites through web browsers when connecting through the proxy server.
6500200	Expired page is not displayed in the administration interface.
6500224	FTP through SOCKS routing does not work.
6500232	Proxy Server 4.0.5 Online Help is updated to mention Cache in the help page for the Monitoring Server Status page.
6500547	FTP through SOCKS routing occasionally results in file corruption.
6506550	Proxy server can crash due to null pointer access in caching subsystem.
6513846	Proxy Server 4.0.5 Release Notes is updated to state that proxy server does not support HTTPS caching.
6517969	Processing of `obj.conf` and ACL does not work as expected.
6520629	Configure Virtual Multihosting page in the administration interface does not allow user port number in `host-regex`.
6521610	When the Set Cache Specifics page in the administration interface is used to enable cache, it does not remove `"cache-disable"` line in the `obj.conf` file.
6523139	Proxy server debug build does not log all the information, such as disconnects.
6524253	Proxy server watchdog core dump.
6524898	When the cache structure is created by `cbuild.exe`, the `.sects` file in the cache becomes empty after the instance starts up.

TABLE 12 Issues Resolved in Sun Java System Web Proxy Server 4.0.5   *(Continued)*

ID	Summary
6525294	The `flexanlg` utility dumps core if there are any syntax problems in the log file.
6526297	The Manage Section page in the proxy server administration interface lists all the sections of all the partitions, and offers a way to move sections from one partition to another. This feature does not work correctly.
6526354	When a new Partition is added, one section is gets created.
6526964	SOCKS v5 server disconnects sessions unexpectedly.
6526990	The localized versions of Proxy Server 4.0.4 Online Help have a link that does not work properly.
6527840	Shutting down the SOCKS server using the administration interface results in a different message compared to the message that is displayed while starting up.
6528069	Though the maximum cache partitions possible in proxy server is 32, there is a problem in creating 32 partitions in Proxy Server 4.0.3.
6529305	When using Virtual Multihosting, if you define the host in upper case, it does not work.
6534208	Version string has to be changed for the 4.0.5 release.
6537410	Proxy server sometimes waits to receive a new http request until the web server closes the connection.
6537736	Proxy server has a domain buffer overflow vulnerability. The problem specifically exists in the handling of domain name address types within the `sockd` daemon.
6537745	Proxy server has a domain buffer overflow vulnerability. The problem specifically exists in the `s5auth_userpass()` function within the `sockd` daemon.
6538060	The `startsvr` and `stopsvr` scripts of proxy administration server refer to `proxy-admserv404` instead of `proxy-admserv405`.
6538173	On HP-UX, the administration server displays an error page when you try to add a listen socket to a proxy instance.
6539318	On Linux, the utility `cbuild` does not work.
6539689	On Linux, if the group ID 80 already exists, proxy server installation does not work and the installation failure does not result in proper installation log.
6544263	Localized versions of the Proxy Server 4.0.5 Online Help must be updated with the changes made to the English version of the Online Help.
6545267	Proxy Server 4.0.5 *Configuration File Reference* is updated with information about log parameters.

Issues Resolved in 4.0.4

The following table lists the issues resolved in Sun Java System Web Proxy Server 4.0.4

TABLE 13   Issues Resolved in Sun Java System Web Proxy Server 4.0.4

ID	Summary
4973509	`Cache-Control` directive for private/no-cache headers is not supported for multiple values.
4973523	HEAD requests are not cached.
4973652	Proxy server does not support 65536–byte long URIs.
4999184	When proxy server is configured in reverse proxy mode pointing to a web server, the error message displayed when the web server is down should not mention that it is a proxy sever.
5093104	Proxy server administration interface allows trailing white space for a HTTP header in client IP forwarding.
6208895	An FTP request through the proxy server to a Microsoft IIS FTP server does not work.
6214329	Error in error log for HTTP4352:zlib internal error.
6233086	For client credentials forwarding with multi-byte user name, validation check needs to be added.
6243358	A deleted user still appears as part of a group.
6245972	User's permission set through the Administer Access Control page does not get implemented.
6246562	Controlling a set of servers installed on different locales and platforms through clusters fails when stopping the set of servers.
6253844	There is no support for "zh-cn" for proxy server online help.
6255761	There is no content at the Installer Help page.
6255838	When a proxy server instance is removed without stopping the SOCKS server and a new instance is created, you will not be able to start the SOCKS server on the new instance as the port would be in use.
6256442	The installer displays the error message "Password should be at least 8 characters" only in English.
6266497	Administration interface allows duplicate port numbers in the Add Server page.
6268356	On Windows, SNMP service does not work if `libnspr4.dll` is not present in the `system32` directory.
6274424	On Windows, the value for defaultInstallDirectory in the state file is wrong. The default installation directory in the installer is `c:\sun\ProxyServer40`, but the state file generated when you use the command `setup --savestate` does not have `c:\sun\ProxyServer40` as the default installation directory. The state file displays the UNIX template value as the default installation directory.
6304981	Proxy server installation fails on Linux if ksh is not installed on the machine.
6310283	In the proxy server administration interface, sometimes the tabs display incorrect page content.
6312087	Localized online help is not context sensitive.

TABLE 13 Issues Resolved in Sun Java System Web Proxy Server 4.0.4   *(Continued)*

ID	Summary
6313904	The administration server does not allow you to set a listen socket with a port number that is used for another IP address.
6321797	Proxy Server 4.0.3 *Configuration File Reference* is updated with information for the `flex-init` parameter `no-format-str.access`.
6331035	Load balancing feature works only for regular expressions.
6333355	When the ACL caching is enabled, the user/group definition in the ACL has to exactly match the case of the LDAP entry for the ACL caching to happen.
6337657	Proxy server displaying Internal Server Error message when the configuration of Distributed Administration is attempted.
6369549	Proxy patch installation on JavaES 5 results in some errors on Linux.
6371618	Can not change Compression Level to `NONE`. Documentation should state what to select as the compression level.
6380736	Control does not transfer to Schedule GC page when Explicit GC is selected in the Set GC Preferences page.
6382393	Proxy server is unable to perform FTP uploads.
6382692	During migration, the format string `Req->vars.pauth-user` in the 3.6 `obj.conf` should be changed to `Req->vars.auth-user`.
6383320	Cannot remove cache file when contents file name has space or Japanese characters.
6383435	`sockd` process uses high memory on Linux.
6387166	View Server Settings page in the proxy server administration interface does not display `MaxProcs` value.
6388818	The SOCKS server requires the Directory Service ID to be default.
6390034	`libnspr4.dll` should be referred first on the directory `<install-dir>\bin\proxy\bin` instead of the directory `system32`.
6390054	Copyright year should be changed in the version window of the administration interface.
6399395	The Select Directory Services page does not reflect the directory service selection.
6402589	The function `http-client-config` does not take the setting from the most specific object.
6411505	The Redirect URLs page in the administration interface does not function as expected.
6412129	Proxy server 4.0 migration tool must add the line `fn="block-ip"` if the setting is not found in the proxy server 3.6 instance.
6414355	Executing the command `batchupdate` with an invalid `bu.conf` file results in segmentation fault on Linux.

TABLE 13 Issues Resolved in Sun Java System Web Proxy Server 4.0.4 *(Continued)*

ID	Summary
6415125	Change the compiler from Sun Studio 8 to Sun Studio 10.
6416272	Proxy server fails to start properly after the server user is changed.
6417755	Links like Previous, Main and Next not localized in the proxy server online help.
6419925	More cache-related statistics required in proxy server.
6423487	Detailed description on how to enable DNS statistics has been added to the online help.
6425025	The directive `host-map` does not work unless a `url-prefix` parameter is explicitly provided.
6425026	Proxy server needs to distinguish cache objects based on Accept-Encoding headers.
6425038	Proxy server does not consider `query-maxlen` when acting as reverse proxy with `cache-local` value set to 1.
6425601	The automatic garbage collection does not work in certain conditions.
6425752	There are duplicate headers in a 304 response from the cache.
6426543	Cache iterator leaks memory.
6427137	Proxy server transmits micro version number in responses.
6433285	Some of the proxy core error messages are not localized.
6433776	`.sects` files are not created when the command `cbuild` is executed.
6433807	On Windows, proxy server and administration server display wrong version number in the start up message.
6434137	Proxy server displays wrong error message on timeout.
6435491	In the Proxy Server 4.0.4 *Configuration File Reference*, in chapter 5, the reference to `type` parameter is removed in the section on Service derivative.
6441601	In the Proxy Server 4.0.4 *Administration Guide*, in chapter 5, notes have been added to clarify the need to load the root keys of Certification Authority or the self-signing application.
6442054	In the Proxy Server 4.0.4 *Administration Guide*, in chapter 5, the section Using SSL to Communicate with LDAP has been updated with information about importing LDAP root CA certificates to the proxy server.
6442071	In the Proxy Server 4.0.4 *Administration Guide*, in chapter 5, a new section is added to clarify about securing access to administration server.
6442090	In the Proxy Server 4.0.4 *Installation and Migration Guide*, clarification has been added to clarify that: - Web Proxy Server can be installed as a non-root user - Web Proxy Server can run as a non-root user

TABLE 13 Issues Resolved in Sun Java System Web Proxy Server 4.0.4 *(Continued)*

ID	Summary
6442091	Cache must correctly compute the value of `current_age` with the request delay added to the age.
6442641	Proxy server 4.0 does not work well with CONNECT requests that specify a content-length.
6443160	On HP-UX, zlib library needs to be packaged with the product for JavaES 5.
6443720	Log Analyzer can have issues when the access log file has no log information.
6443731	On Windows 2000 SP4, the system requires restart after configuration in JavaES environment.
6444332	On HP-UX, executing `batchupdate` with invalid `bu.conf` results in segmentation fault.
6444363	On HP-UX, proxy instance does not get created with non-root user.
6444942	Executing the command `cachegc` on a nonexistent instance fails.
6445440	Error messages are incompletely localized.
6446098	On HP-UX, there is an internal error in View URL Database page.
6446349	On HP-UX, stress test results in mmap() failure.
6446933	In the Proxy Server 4.0.4 *Configuration File Reference*, references to `docs` directory are removed.
6447423	Proxy server 4.0 leaks memory because the daemon structures are not freed properly.
6447427	Proxy server 4.0 leaks memory while acquiring channel in common client.
6447476	The proxy server administration interface always displays the cache partition size as 0.
6450886	The new maximum value of 360 minutes for the `socks5.conf` parameter SOCKS5_TIMEOUT has been documented in the Proxy Server 4.0.4 *Configuration File Reference*.
6454032	Proxy server binds to the same port each time the Address directive is set.
6455411	On Windows, proxy server needs to support coexistence of JavaES 4 and JavaES 5.
6459839	Migrating proxy server 3.6 to 4.0.3 with the cache disabled results in unusable server instance.
6461889	HTML filter corrupts the transformed data.
6461896	HTML tag filter does not update the content length when it transforms the source document.
6461991	Typographic errors in the English source of `proxyResources.properties` file.
6462366	On HP-UX, proxy server fails to restart after configuring SOCKS name server.
6463404	Distributed administration does not work correctly when a user is given access to all programs.
6463927	The template file `WPSProp.properties` has entries for Windows platform.
6465608	On Windows, the shortcut for Stop Admin Server is not created for the administration server when the proxy server is installed.

TABLE 13   Issues Resolved in Sun Java System Web Proxy Server 4.0.4   *(Continued)*

ID	Summary
6465984	The file `proxyResources.properties` contains duplicate keys.
6466452	Proxy server should update the installer registry key from Entsys to Entsys5.
6467644	On Windows Server 2003 Enterprise platform, running `reconfig.bat` fails.
6470294	On Windows, running `cbuild.exe` to decrease the cache sections does not remove the sections properly.
6473677	On JavaES 4 system, proxy server does not start after applying the patch 120981–08/120982–08.
6478407	In the Proxy Server 4.0.4 *Administration Guide*, in chapter 7, the section Starting SSL-Enabled Servers is modified to remove the suggestion for start script modification.
6480637	Proxy server crashes every hour.
6484781	After enabling distributing administration, even unauthentic users can log in to administration server.
6485988	In the Proxy Server 4.0.4 *Configuration File Reference*, the section on Send-Error in chapter 5 is updated to add a note stating that send-error does not work for Web Server HTTP response.
6505480	In a standalone installation of proxy server on HP-UX, installation fails on HP-UX 11.11.
6519072	In the installer for a standalone installation of proxy server 4.0.4, the JRE version compatible with the US DST changes 2007 needs to be shipped. The compatible JRE version is 1.4.2_13 on Solaris, Windows, and Linux. On HP-UX, the compatible JRE version is 1.4.2.12.
6519113	In the Proxy Server 4.0.4 *Configuration File Reference*, the section on Error in chapter 5 is updated to remove references to error response codes 404 and 500.
6511549	In a standalone installation of proxy server on HP-UX, installation fails in CLI mode.
6520577	In the Proxy Server 4.0.4 *Administration Guide*, the section on Virtual Multihosting is updated to add a note to indicate that the reverse mapping should be specified before the other mappings.

Issues Resolved in 4.0.3

The following table lists the issues resolved in Sun Java System Web Proxy Server 4.0.3

TABLE 14   Issues Resolved in Sun Java System Web Proxy Server 4.0.3

ID	Summary
6191615	Certain regular expressions when used as URL filters cause the Proxy Server to crash while starting.
6213012	ROTATELOGS event on Windows is not triggered at the time specified.
6213726	The Transfer Time Report reports a constant value of "0.00 sec/req".

TABLE 14 Issues Resolved in Sun Java System Web Proxy Server 4.0.3 *(Continued)*

ID	Summary
6215659	The Transfer Time Distribution Report shows a constant value of "< 1 sec [100.0%]".
6239292	Log Analyzer error with Extended2 format when access log file has no log information.
6242032	In the Proxy Server 4.0.2 *Administration Guide*, in Chapter 7, the section "Configuring System Preferences" has wrong description for Parent Array. The correct description is, "A parent array is a proxy array that a proxy or proxy array member routes through".
6264079	The administration interface overwrites `default`, which is the default value for Directory Service.
6275141	In proxy server 4.0.2, the File Cache feature is shown in the GUI and documented for the Server Manager > Caching > Configure File Cache page, but the feature is not implemented.
6270693	Sometimes the `Filter` directive is invoked twice per request.
6285076	SOCKS server cannot handle both LDAP & password file for user authentication, when both the methods are configured.
6285183	`PR_MemUnmap()` call results in error in Windows.
6285791	SOCKS server `start` command line issue for JavaES 4 is resolved in this release, but existing instances created in JavaES 4 installation will have the problem even after upgrading to the latest 4.0.3 patches. The new instances created after upgrade will not have this problem. This problem is not there in standalone installation of web proxy server.
6289188	When you install proxy server 4.0 as non-root user and administration server as root user, any changes you make to the cache settings in the administration user interface result in the permissions for cache file and cache directory changing from non-root to root.
6292729	The default setting for Client IP Addressing Forwarding should be Blocked.
6294282	The proxy server 4.0 administration interface cannot set the ACL correctly for any resource which includes a "\" in its pattern.
6294563	Default setting of the access log format to be different from the Web Server.
6295286	In the Proxy Server 4.0.2 *Administration Guide*, in Chapter 14, the section "Setting up a Reverse Proxy" needs to note in Step 5 that the "/" mapping is added only if the user doesn't change the contents of the "Map Source Prefix" text box provided automatically by the Administration GUI.
6296870	Details of the Cache Section Table on the administration interface are not displayed correctly.
6299913	The `ConnAddress` directive is not changed to `Address` during a migration from Proxy 3.6 to 4.0.
6300480	The setting of Cache tab is not migrated successfully during a migration from Proxy 3.6 to 4.0.
6300615	The meta tag is missing in localized core messages.
6301140	Migration creates invalid Cache entries when migrating an instance of proxy that has the cache disabled.

TABLE 14 Issues Resolved in Sun Java System Web Proxy Server 4.0.3 *(Continued)*

ID	Summary
6303619	An ACL with a database that is registered with a name other than `default` does not work properly.
6304354	"Do Not Log Client Accesses From" option creates an invalid configuration.
6311548	The proxy server 4.0 uses `pauth-user` instead of `auth-user` for Access Log.
6312044	In the proxy server 4.0 administration interface, the Monitor Current Activity page under the Server Status tab is not updated for DNS, Keep-Alive, and Cache Statistics.
6313910	On Windows, the Rewrite Headername feature fails and displays the message "Internal server error occurred".
6313959	In the Proxy Server 4.0.2 *Administration Guide*, in Chapter 12, the section "To configure the file cache" provides wrong description for step 1. The correct description is, "From the Server Manager, click the Caching tab".
6313960	In the Proxy Server 4.0.2 *Administration Guide*, in Chapter 12, the section "To create a batch update" includes step 10 that refers to a "Timing section". This step is an error. The Set Cache Batch Updates page does not have a Timing section.
6316289	In the Proxy Server 4.0.2 *Administration Guide*, in Chapter 12, the section "Building the Cache Directory Structure" includes an example that refers to figure 12-1 instead of 12-2.
6325537	Not able to change `RqThrottle` value through the administration interface.
6325616	Scheduled (explicit) Garbage Collection does not clear cache.
6328678	Cannot set `ICPtimeout` value to less than 400 milliseconds through the administration interface.
6331044	In the Proxy Server 4.0.2 *Administration Guide*, in the preface, the section "Using the Documentation" specifies the location of the Proxy Server 4 documentation. `http://docs.sun.com/app/docs/prod/s1.webproxys#hic` The section should point to Proxy Server 4.0.2 documentation at: `http://docs.sun.com/app/docs/coll/1311.2`
6334854	Inconsistency between documentation for Web Proxy Server and `sun-web-proxy-server_4_0.dtd`.
6337102	Web Proxy Server crashes with DNS fn = "dns-config" local-domain-levels = "8"
6338719	Patch upgrade of proxy server on Linux AS 3.0 installs in a different location.
6338875	Proxy 4.0.1 FTP Client fails to process symbolic links correctly.
6350957	In the Proxy Server 4.0.2 *Administration Guide*, in Chapter 5, the section "Enabling Security for Listen Sockets" does not mention that security can only be enabled in reverse proxy mode and not in forward proxy mode. Also, in Chapter 8, the section "Specifying Users and Groups" does not mention that security can only be enabled in reverse proxy mode and not in forward proxy mode.

TABLE 14   Issues Resolved in Sun Java System Web Proxy Server 4.0.3   *(Continued)*

ID	Summary
6365433	Unable to create proxy server instance when Automatic Start option is selected in proxy server administration interface.
6367375	Mapping with CONNECT doesn't work when there is a parent proxy.
6369095	Memory leak in proxy server 4.0 .
6371084	Requesting SSL site doesn't work in chained proxy environment when using IP address of the web server.
6371618	Can not change Compression Level to NONE.
6371731	No "connect://.*:563" in the default resource.
6371793	pkginfo displays $distro for SUNWproxy-l10n.
6373101	Administration server creates invalid parameter for ssl-client-config.
6373622	cache-disable SAF is not documented.
6374279	Response to webdav OPTIONS method not according to RFC2518.
6376065	max-uncheck function does not work as expected.
6376153	Proxy server 4.0.2 does not update cache for ftp/gopher protocols.
6381373	Proxy server crashes during run after restart if the cache is already warmed.
6381419	The value in Cache-last-checked header is invalid.
6381424	Warning header should contain the host:port value of the agent adding this header.
6382729	Proxy server does not accept utf-8 encoded parameters.
6383301	Proxy server 4.0 has a problem in channel pooling.
6383456	Proxy server 4.0.2 uses high CPU in Linux.
6384616	Proxy Server 4.0.3 online help has typographic errors.
6385902	The format in Set Access Log Preferences does not match with default format.
6387772	Changes in OLH, due to bugs (6325537, 6303619) fixed, need to be localized.
6387901	In the Proxy Server 4.0.2 *Administration Guide*, in chapter 11, the section "Chaining Proxy Servers" is not clear.
6388156	The headers of cached files can get corrupted.
6390237	Proxy passes incorrect content-length if the response contains double content-length headers.
6392875	regexp-map does not work for connect.
6393573	Proxy 4.0.2 crashes when DNS fn="dns-config" local-domain-levels="1"

TABLE 14   Issues Resolved in Sun Java System Web Proxy Server 4.0.3   *(Continued)*

ID	Summary
6394287	SOCKS process polls too often which leads to `sockd` process taking up as much as 50% of CPU.
6395473	High CPU utilization problem in proxy server 4.0 while handling "slow" clients.
6395889	Windows Server Update Service (WSUS) does not work using proxy server 4.0.2.
6400981	`SOCKS5_TIMEOUT` value set in `socks5.conf` is ignored.
6402698	High CPU utilization in FTP client.
6418214	Issues with proxy server 4.0 garbage collection feature.
6424527	Proxy server crashes while processing a request containing an empty cache-control header.

Issues Resolved in 4.0.2

The following table lists the issues resolved in Sun Java System Web Proxy Server 4.0.2

TABLE 15   Issues Resolved in Sun Java System Web Proxy Server 4.0.2

ID	Summary
5097664	`ssl-tunnel-timeout` parameter does not work on Windows.
6225025	`ftp-listing-width` parameter does not work correctly.
6251805	Changes to archive logs results in a crash.
6262277	Changing the minimum `timeout` value for ICP from 400 to 50.
6292690	In Proxy Server 4, while using IE 6.0 to access the administration interface, can not select the original partition using Manage Sections>Partition .
6292786	Proxy Server does not write transfer time (and other times) to access log.
6308714	Proxy Server fails to start if umask is not set to 022.
6310909	In Proxy Server 4.0.1 point product, version string of the product name was over translated for French locale from 2005Q3 to 2005T3.
6310910	In Proxy Server 4.0.1 point product, many missing apostrophes in installer messages on French locale.
6310944	In Proxy Server 4.0.1 point product, CLI installer fails to display the license.
6310961	In Proxy Server 4.0.1 point product, the "Yes" in the license installer screen on Spanish locale not localized.
6312723	Cannot access SSL sites with IP address while using Proxy Server 4.0.

TABLE 15   Issues Resolved in Sun Java System Web Proxy Server 4.0.2   *(Continued)*

6313981	In Proxy Server 4, not able to change the value of Rewrite Content Location and Rewrite Headername after creating a new Reverse Mapping using the administration interface.
6315817	Multiple simultaneous CONNECT (SSL Tunneling) requests cause thread starvation.
6330348	High Memory usage by proxy process in Solaris 10 during stress run.
6333995	Memory leak while running stress tests for CONNECT.
6335919	Proxy Server's FTP client does not close a connection when the FTP Server has closed.
6335922	Proxy Server FTP client does not send USER request to FTP Server.
6336550	Error when trying to install Proxy Server 4.0.1 into a directory that contains a Proxy Server 4.0 install.

Issues Resolved in 4.0.1

The following table lists the issues resolved in Sun Java System Web Proxy Server 4.0.1.

TABLE 16   Issues Resolved in Sun Java System Web Proxy Server 4.0.1

ID	Summary
2126143	The same regular expression does not work in URL Filters, but works in Access Control and Routing.
2126380	Memory leak in the ICP process of the proxy server.
6231283	The administration server on Linux Red Hat Advanced Server 3.0, fails to startup.
6237346	The `flexanlg` utility dumps core while generating a log analysis report using the Extended2 log file format.
6240767	The add/edit listen sockets for the administration server and the proxy server instance do not verify for used ports.
6242627	Localized core messages are not getting displayed.
6243369	Entry of multi-byte characters in the pages related to SOCKS need to be prevented.
6244103	Internal server error is displayed when the Set Connectivity Mode page of the proxy server instances is accessed on a Linux Advanced Server 3.0, Korean locale.
6245408	An internal error is displayed when a newly added partition is accessed if the administration user and the proxy instance user are different.
6249166	Inconsistency in the display of the Control Cluster, Modify Server, and Remove Server pages in the Cluster tab when the host name in the URL is replaced with `localhost` while accessing the proxy server.

TABLE 16   Issues Resolved in Sun Java System Web Proxy Server 4.0.1   *(Continued)*

6253014	Crash occurs in the `init-proxy` SAF when there are more than 9 NameTrans directives in the `obj.conf` file on Linux Red Hat Advanced Server 3.0.
6254508	The batch update command exits with segmentation fault.
6255214	Cannot edit or remove an entry in the content URL rewriting page consisting of multibyte characters.
6255216	Some LDAP entries in the `socks5.conf` lead to `socksd` crash.
6259314	Some of the localized online help pages are not synchronized with the English online help pages.
6261440	Duplicate English online help exists in the installation directory.
6263694	Online Help unavailable for the Add and Replace Compromised Key List and Certificate Revocation List pages.
6263721	The wrong help page is displayed for the Add/Replace Cert pages in the Server Manager.
6274186	Unable to delete a server instance.
6276398	Remove the localized online help from the base workspace.
6285078	Entry for authentication failure of SOCKS request missing from log files.
6285779	Unable to start the proxy server instance if the serverID has a white space.
6285788	SOCKS server crashes when authentication is used.
6289242	HTTP smuggling in Proxy Server 4.
6293449	Proxy Server 4 does not close the connection immediately with the CONNECT method.
6295622	The function `ConnAddress` is not realized or documented in Proxy Server 4.0.
6296169	The header `Cache-last-checked` is broken in Proxy Server 4 installed on other locales.
6296225	The Proxy Server instance may intermittently crash when DNS caching is enabled.
6301786	Localized Core Message not getting displayed on Solaris 9 x86, Linux AS 3.0.
6311463	On the proxy process, the number of open file descriptors keeps increasing with time, resulting in the proxy running out of file descriptors and dropping connections.

Known Issues

This section lists the more important known issues and limitations at the time of the Sun Java System Web Proxy Server 4.0.13 release. The issues are listed by category:

Administration

The following table lists the known issues related to the administration user interface.

TABLE 17 Known Issues in Administration

ID	Summary
6653507	If Monitor Current Activity Statistics/Profiling is set to ON, it cannot be turned OFF from the user's interface
6212701	Conflicting error message is displayed when server instance fails to start.
	The chances of occurrence of this conflicting error message is minimal as the chances of the administration interface writing wrong information in the configuration file is minimal. It can only occur if the user manually writes wrong information into the configuration file.
6231297	The Restart Required link disappears if changes are made to the SOCKS configuration and the Proxy Server is restarted instead of the SOCKS Server.
6484502	Proxy Server administration interface is not localized.
6509535	Daylight Savings Time (DST) will start in USA from the 2nd Sunday of March and end on the 1st Sunday of November. This will impact the date and time rules of the operating system and JRE.
	In the standalone version of proxy server, JRE version compatible with 2007 DST changes is bundled with the installer. However, you need to address the impact on the date and time rules of the operating system by installing the appropriate Operating System patches as explained in step 1 of the Workaround.
	For the JavaES 5 installation of proxy server, you need to install the Operating System patches and also the compatible version of JRE . Follow steps 1 and 2 of the Workaround.
	Workaround 1. Download and use the appropriate operating system patches. You can download the Solaris patches from `http://sunsolve.sun.com/search/document.do?assetkey=1-26-102775-1`. For other platforms, download similar DST compatible patches from the Operating System vendor's web site. 2. For Solaris, Windows, and Linux, run proxy server with JRE 1.4.2_13. For HP-UX, run proxy server with JRE 1.4.2.12.
6558027	On Windows, server identifier with multibyte characters causes server-side `createInstance.exe` error.

TABLE 17 Known Issues in Administration   *(Continued)*

6867774	The administration server fails to start up when a proxy installation that uses a custom JDK configuration is upgraded to a service pack version that requires a newer JDK version. After the upgrade, the JDK configuration must be manually modified to point to either the bundled JDK or a custom JDK of the required version.
6909558	Backslashes should be used in LDAP uids only to escape special characters. The ldap sdk used by the Proxy server will remove backslashes from the uid before sending the same to the directory server. This can possibly lead to a situation where the authentication fails where it should succeed (because the uid, with backslashes stripped, finds no match in the directory server), or even succeeds where it should fail (because the uid, with backslashes stripped, finds a match in the directory server).
6888170	Upgrade fails on RHEL4 when the specified target directory name contains a trailing slash.

Caching

The following table lists the known issues related to caching.

TABLE 18 Known Issues in Caching

ID	Summary
6654514	Proxy-Agent header displays the original header for request type 504.
6229823	When a new partition is added a default section s0.0 is also created irrespective of the partition size. Warning messages are logged in the errors file. **Workaround** Use the cbuild utility to add the new partition or delete the s0.0 folder under the new cache partition, and restart the proxy server. The error messages can be ignored.
6619620	Doc RFE: Proxy Server should not be used with Network Cache Accelerator (NCA). When the Proxy Server 4.0.8 is used with NCA, a browser repeatedly prompts for the User ID and password. This happens because NCA does not support Proxy-specific headers like Proxy-authorization. **Workaround** Do not select NCA in the Proxy Listen Socket setting.

Installation

The following table lists the known issues related to installation.

TABLE 19 Known Issues in Installation

ID	Summary
6205683	Windows console installation fails.
6255325	The installer throws an exception and the installation fails on Linux if the user installs the Proxy Server as a non-root user and the `/var/opt/sun/install` directory does not exist.
6353576	Silent upgrade installation does not work.
6587776	Proxy Server from Java ES 5 on Windows XP displays system error 1067.
6756659	Proxy Server 4.0.9 can be installed on OpenSolaris by using the GUI installer only if the `--javahome` option of the `setup` command is used to specify a JDK 1.6 location.
6607551	On Windows, uninstalling the patch does not change the Proxy Server version to the previous version number.
	Reverting the patch through `Uninstaller` script does not change the service description name to the previous Proxy Server version due to `RenameService.exe` utility limitations. Therefore, even after uninstalling the patch, the service description shows the latest Proxy version instead of the previous version number.

Internationalization

The following table lists the known issues related to internationalization.

TABLE 20 Known Issues in Internationalization

ID	Summary
6233080	The Disable Proxying option does not work for the URL with multibyte data (URL encoded) when routing is set through another proxy server.
6233090	A URL with multibyte data (URL encoded) cannot be mapped.
6253844	Proxy server online help does not support the language zh-cn.
6297168	Starting the server in a different system encoding causes any errors returned by the system in that particular system encoding to be logged in the error log. When viewed through the Administration server, the error log might have characters in system encoding that do not display properly.
	Workaround
	Change the browser encoding to match the OS locale so that the error log can be properly viewed through the administration interface. But this will be needed every time you move to other pages and then return to View Error Log again.
6300080	Proxy server's content rewriting function is inconsistent.

TABLE 20   Known Issues in Internationalization   *(Continued)*

6526476 and 6526488	In a standalone installation of proxy server on HP-UX, the installation in GUI mode results in the display of corrupted Japanese characters (ID no. 6526476). If the installation is continued, it results in error while creating an instance (ID no. 6526488).
	Workaround
	You can use either of the following workarounds:
	■ Use the CLI mode of installation for Japanese locale on HP-UX.
	■ Continue the installation even with the corrupted display of characters. When the installer fails to create an instance, log in to the administration interface and create an instance.
6550995	The following error message is not localized for all the locales:
	`HTTP7774: received extraneous data following response`

Localization

The following table lists the know issues related to Localization.

TABLE 21   Known Issues in Localization

ID	Summary
6779070	The Proxy Server OLH has broken links for `Terms of Use`.
6253844	The set language option in the Proxy Server OLH does not support the language `zh-cn`.
6828246	The Korean characters are not displayed in the Proxy Server installer on RHEL 5.2.

SOCKS

The following table lists the known issues related to SOCKS.

TABLE 22   Known Issues in SOCKS

ID	Summary
6245453	The Quench Updates feature is shown in the GUI and documented for the Server Manager > SOCKS > Configure SOCKS v5 page, but the feature is not implemented.
6263389	No error is reported when two instances of SOCKS are started using the same port on Windows.
6285791	SOCKS server `start` command line issue for JavaES 4 is resolved in this release, but existing instances created in JavaES 4 installation will have the problem even after upgrading to the latest 4.0.3 patches. The new instances created after upgrade will not have this problem. This problem is not there in stand-alone installation of web proxy server.

How to Report Problems and Provide Feedback

If you have problems with Sun Java System Web Proxy Server 4.0.13, contact Sun customer support using one of the following mechanisms:

- Sun Software Support services online at

    http://www.sun.com/service/support/software

- The telephone dispatch number associated with your maintenance contract

So that we can best assist you in resolving problems, please have the following information available when you contact support:

- Description of the problem, including the situation where the problem occurs and its impact on your operation

- Machine type, operating system version, and product version, including any patches and other software that might be affecting the problem

- Detailed steps on the methods you have used to reproduce the problem

- Any error logs or core dumps

Sun Welcomes Your Comments

Sun is interested in improving its documentation and welcomes your comments and suggestions. To share your comments, go to http://docs.sun.com and click Feedback.

Additional Sun Resources

Useful Sun Java System information can be found at the following locations:

- Documentation for Sun Java System Web Proxy Server 4.0.13

    http://docs.sun.com/coll/1311.12

- Sun Software Products and Service

    http://www.sun.com/software

- Sun Developer Information

    http://developers.sun.com/

- Sun Developer Support Services

    http://developers.sun.com/prodtech/support/

- Software Support Services

    http://www.sun.com/service/support/software/

- Sun Support and Training Services

Support: http://www.sun.com/support

Training: http://www.sun.com/training/

- Sun Consulting and Professional Services

  http://www.sun.com/service/sunjavasystem/sjsservicessuite.html

Searching Sun Product Documentation

Besides searching Sun product documentation from the docs.sun.com[SM] web site, you can use a search engine of your choice by typing the following syntax in the search field:

<search-term> site:docs.sun.com

For example, to search for "Web Proxy Server", type the following:

Web Proxy Server site:docs.sun.com

To include other Sun web sites in your search (for example, java.sun.com, www.sun.com, developers.sun.com), use sun.com in place of docs.sun.comin the search field.