



# Sun StorageTek™ 5800 System 1.1.1 Release Notes

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Sun Microsystems, Inc.  
[www.sun.com](http://www.sun.com)

Part No. 820-4120-10  
June 2008, Revision A

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# Sun StorageTek 5800 System Version 1.1.1 Release Notes

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This document contains important information about the Sun StorageTek™ 5800 System, Version 1.1.1. Read this document so that you are aware of issues or requirements that can affect the installation and operation of the 5800 system.

This document contains the following sections:

- [“Enhancements in This Release” on page 2](#)
- [“Nodes and Disks Must Be Functioning Correctly Before Upgrade” on page 3](#)
- [“Issues With the Power LED on the X2100 Server Service Node” on page 3](#)
- [“Issues When Operating on Secondary Switch” on page 4](#)
- [“Maximum Heat Output” on page 5](#)
- [“Supported Client Operating Systems” on page 6](#)
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- [“Resolved Issues” on page 8](#)
- [“Known Issues” on page 9](#)
- [“Release Documentation” on page 24](#)
- [“Service Contact Information” on page 24](#)

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## Enhancements in This Release

This section includes a description of the major enhancements available with Version 1.1.1.

### Service Tags

When Sun service personnel install, upgrade, or expand the 5800 system hardware, they also update the service tags on the system that describe the hardware. You can register these service tags with Sun to allow you to identify your equipment and expedite service calls.

### Enhanced Ability to Collect Debugging Information

You can use the new CLI command `logdump` to collect information from the system and send it back to Sun via Hypertext Transfer Protocol over Secure Socket Layer (HTTPS).

### Multicell Capability

You can install multiple full-cell 5800 systems as a multicell *hive*. (Half-cell systems are not supported in a multicell hive.)

Sun has tested and qualified operating with as many as eight full-cell systems in a hive.

### Hot-Swappable Disk Drives

Version 1.1.1 includes hot-swappable disks that can be removed and replaced easily while the system is operational.

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# Nodes and Disks Must Be Functioning Correctly Before Upgrade

Upgrading from Version 1.1 to Version 1.1.1 should be performed only by Sun service personnel. Please keep in mind that all nodes and disks on the 5800 system must be online and operating correctly before the upgrade.

If the service person has to replace nodes and/or disks, you will have to wait at least 12 hours after replacement while the system completes a Data Reliability check before the upgrade can begin.

Consult Sun service personnel for complete information about the upgrade process.

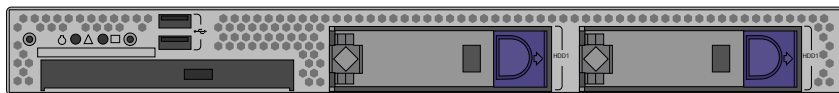
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# Issues With the Power LED on the X2100 Server Service Node

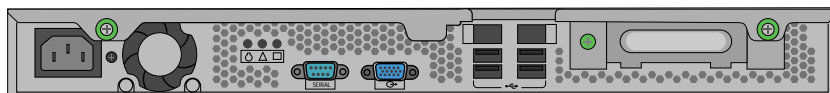
If your 5800 system uses the Sun Fire™ X2100 Server for a service node, you may notice some issues with the power LED.

To determine if your system uses the Sun Fire X2100 Server for a service node, compare the service node on your system with the front and back views of the Sun Fire X2100 Server, as shown in [FIGURE 1](#) and [FIGURE 2](#).

**FIGURE 1** Front View of the Sun Fire X2100 Server



**FIGURE 2** Rear View of the Sun Fire X2100 Server



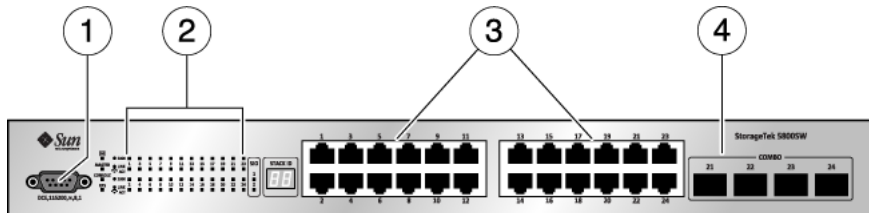
If your system uses the Sun Fire X2100 Server, you can determine if the power is on or off to the service node when the power LED is lit by pushing in the CD/DVD drive eject button. If the LED on the caddy starts to blink, the service node is powered on. If the LED on the caddy does not light, then the service node is powered off.

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## Issues When Operating on Secondary Switch

If you receive email alerts and syslog messages indicating that one or more nodes are offline, inspect the 5800 system to determine if the secondary switch (the top switch on the system) is active. [FIGURE 3](#) shows the components on the back of the switch. If the port connection status LEDs are mostly lit for the top switch, that secondary switch is active.

**FIGURE 3** Back of Switch



**Figure Legend**

- 
- |   |                             |
|---|-----------------------------|
| 1 | Serial port                 |
| 2 | Port connection status LEDs |
| 3 | Ethernet ports              |
| 4 | Not used                    |
- 

If the secondary (top) switch is active, contact Sun service immediately to arrange for a replacement of the primary (bottom) switch.

Until the primary switch is replaced, the system might encounter the following issues while operating from the secondary switch:

- One or more storage nodes might go offline. You will receive email alerts and/or syslog messages indicating that the nodes are offline. If necessary, use the CLI `sysstat` command, or check the GUI main screen to determine which nodes are affected. Locate the affected nodes on the system and manually power cycle those nodes. (Note that the nodes are numbered from the bottom up, starting with



Node 1 on the bottom.) If more than two nodes were offline, data services might be unavailable until the nodes are manually power-cycled, and the query engine might need to be recreated, which will take at least 12 hours.

- One or more storage nodes might go into a panic mode and reboot. You will receive email alerts and syslog messages indicating that the nodes are offline and then that the nodes have rejoined. While the nodes are rebooting, data services might be unavailable and the query engine might have to be recreated, which will take at least 12 hours.

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## Maximum Heat Output

The maximum heat output of the 5800 system is listed incorrectly in the *Sun StorageTek 5800 Site Preparation Guide*. The correct maximum heat output is as follows:

- Half cell: 2420 watts (8257 BTU/hr)
- Full cell: 4420 watts (15082 BTU/hr)
- Dual cell: 8840 watts (30163 BTU/hr)

[TABLE 1](#) lists the remaining power available for additional equipment in a rack when a 5800 system is installed in the rack.

**TABLE 1** Remaining Power Available in Rack After 5800 System is Installed

Installed 5800 System	Power Available for Additional Equipment in Rack
Half cell	11660 watts
Full cell	9660 watts

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## Reboot Needed During Restore

During a restore operation, you must reboot the cell after the restore of the first (most recent) tape is completed. After the restore of the first (most recent) tape is completed, use the CLI `reboot` command to reboot the cell. When the cell comes back online after reboot, continue restoring from the remaining tapes.

Query and WebDAV functionality are not available until after the reboot. During approximately the first 12 hours after the reboot, some objects from the first tape might not be accessible via query and WebDAV, although objects restored from the remaining tapes will be accessible as soon as they are restored.

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## emulator Directory Renamed openedition in SDK

The emulator directory in the Software Developer's Kit (SDK) .zip archive has been renamed in Version 1.1.1 to openedition. This directory contains the open edition software that allows you to test client applications without having to connect to a 5800 system.

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## Supported Client Operating Systems

This section lists the client operating systems from which you can run applications that store, retrieve, and query data on the 5800 system. The applications can be written in either the C or Java™ programming languages, using the 5800 system application programming interface (API):

- Red Hat Enterprise Linux (32-bit) - RHEL4-U4
  - Red Hat Enterprise Linux (64-bit) - RHEL4-U4
  - Solaris 9 SPARC® - Solaris 9 9/05 HW OS
  - Solaris 10 SPARC and x64/x86 - Solaris 10 11/06 OS
  - Windows Server 2003 R2 32-bit
- 

## Supported Browsers

You can access the 5800 system GUI using the following browsers:

- Internet Explorer 6.0 or later
- Mozilla 1.7 or later
- Firefox 1.5.0.9 or later

The browser must be running Versions 1.5 or 1.6 of the Java Runtime Environment.

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## Supported WebDAV Access

You can access the data on the 5800 system using Web-based Distributed Authoring and Versioning (WebDAV).

You can read the data on the system using WebDAV from any Hypertext Transfer Protocol (HTTP) browser running on any system that is on the same network as the 5800 system

For full read and write access to data on the 5800 system, you can use free software cadaver (command-line WebDAV client for Unix) or neon (HTTP and WebDAV client library with C interface). Consult the following URL for more information about this cadaver and neon:

<http://www.webdav.org/>

MAC OS X allows you to mount the 5800 system as a network share and gain read and write access via WebDAV to the data on the 5800 system.

The WebDAV implementation on the 5800 system has also been tested with the KDE Konqueror, Version 3, browser, and the Internet Explorer, Version 6 and later, browsers, which provide full read/write WebDAV access.

## WebDAV and Multicell Configurations

The use of WebDAV in multicell configurations is not supported.

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# Resolved Issues

This section provides information about functional limitations and bugs that were described in the Version 1.1 release notes, and which have been resolved in this Version 1.1.1 product release.

**TABLE 2** Issues Resolved in Version 1.1.1

Bug ID	Description
6331523	If transient node failures have caused the system to fall below quorum, data services might remain unavailable even after quorum is regained.
6407787	Even after the system has healed a disk, that disk may still be included in the <i>disks unrecovered</i> count displayed by the <i>sysstat</i> command.
6458160	The use of some characters in the file name specification for a virtual file system view might cause parsing errors.
6577783	The 5800 system does not recognize a lower-case “e” as a symbol for exponent in queries.
6604018	After issuing the <i>shutdown</i> command from the CLI, you might have to wait up to two hours when you restart the system before all disks come online.
6613234	Because the Files Only at Leaf Level checkbox on the Set Up Virtual File System panel in the GUI does not work correctly, it is not possible to use the GUI to define schemas that include <i>fsViews</i> .
6613735	If the length attribute for one or more directory fields is less than the length attribute for a filename field, WebDAV GETs may fail for file names that are longer than directory names.
6616306	If a restore operation fails and you initiate a new restore operation, the new restore operation might fail if it is started too soon.
6624848	After you have restored data to a system following a disaster, you might not be able to resume backup of the system.
6625515	The usage message displayed by the system for the SDK Java example application <i>CheckIndexed</i> is actually the usage message for the <i>RetrieveMetadata</i> example application.
6628840	Occasionally, when you attempt to reboot the 5800 system using the CLI command <i>reboot</i> , the system returns the error message <i>Connection Refused</i> .

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## Known Issues

This section provides information about functional limitations and bugs in this version of the product release. Note that if a recommended workaround is available for a bug, it follows the bug description.

### *Data Space Not Reclaimed in Open Edition*

**Bug 6403951** – The open edition software supports the `Delete Record` operation of `NameValueObjectArchive.delete` and `hc_delete_ez`. However, the open edition software does not remove the underlying data file when the last metadata record is deleted. The semantics are correct, but the underlying space is not reclaimed.

### *Configuration Values Misleading Before Reboot*

**Bug 6406170** – When you make a configuration change, certain properties require a reboot to take effect. Once the change is entered, however, you can no longer determine the current value, since the `cellcfg` command shows the new (pending) value instead. You also cannot tell that the displayed value is a pending value and that a reboot is still required.

### *WebDAV Query Results Limited by Size of File System Cache*

**Bug 6413553** – When you access a virtual view from a browser (issue a WebDAV query), the system might not return complete results since the number of entries listed in a WebDAV directory is limited by the size of the file system cache on the system on which the WebDAV query was issued. The maximum number of results displayed is 5000.

### *Query Engine Remains in Starting or Stopped State*

**Bug 6450745** – In some rare cases, the query engine might get hung in starting or stopped state.

**Workaround** – Try rebooting the system to create the query engine and repopulate it with metadata. The process could take 12 to 48 hours.

### *Reboot Shutdown Message Not Clear*

**Bug 6451150** – Sometimes when you issue the CLI commands `shutdown` or `reboot`, the system returns the messages “It is not safe to shut down the system” or “It is not safe to reboot the system.” These messages indicate that the system is in the process of initializing the query engine.

**Workaround** – Although you can continue with the shutdown or reboot process, for best performance, wait until the query engine is fully initialized before proceeding.

### *System Must Be Run on Secure, Internal Network*

**Bug 6458653** – To ensure the integrity of data on the 5800 system, the system must be operated only on a secure, internal network.

### *Making Field Queryable Does Not Update Existing Data*

**Bug 6464055** – In the schema definition file, you can specify a metadata field as `queryable = false`. If you later change the schema definition file to indicate that `queryable = true` for that field, any data that you add to the system after the change includes that field as a queryable field. However, data that was previously stored on the system is not updated and is not queryable with that field.

### *Not Possible to Clear Schema After Configuration*

**Bug 6464866** – It is not possible to clear metadata schema after it is configured.

**Workaround** – If you need to clear fields from the metadata schema, either wipe all hive data (which clears the schema as a side effect), or contact Sun support for assistance.

### *Queries Might Cause Out of Memory Errors*

**Bug 6481476** – The system may respond to some queries with an out-of-memory error message.

**Workaround** – When developing queries using the Java API, set `maxFetchsize` in the range of 2000 – 5000.

## *Data Operations Might Fail Even When CLI Reports Data Services Online*

**Bug 6489627** – When the system first starts up, data operations may fail, even if the CLI reports that data services online.

**Workaround** – Wait for all disks to come online (run the `sysstat` or `hwstat -v` commands to determine the number of disks online). If the problem persists after all working disks are online, retry the operations from the client following the best practices described in the *Sun StorageTek 5800 System Client API Reference Guide*. If necessary, contact Sun services to replace bad drives.

## *Multiple Concurrent Deletes Might Bring System Offline*

**Bug 6491877** – If clients attempt a large number of concurrent deletes, the system might go offline.

**Workaround** – Avoid large numbers of concurrent deletes; if the system goes offline, reboot to bring it back online.

## *Deletes Might Fail After Disk or Node Failure*

**Bug 6495883** – After a disk or node fails, delete operations to the system might fail for up to three minutes.

**Workaround** – Retry the deletions after three minutes.

## *Open Edition Software Does Not Delete Data Link*

**Bug 6500528** – If a record is deleted from the 5800 system open edition software using `DeleteRecord`, a WebDAV view might still show a link to the data, although not the data itself.

**Workaround** – Stop and restart the open edition software.

## *Time Stamp Issues With SDK Example Program Stores, Retrieves, and Queries*

**Bug 6501640** – Time stamps on stores, retrieves, and queries in the SDK example programs might seem inconsistent.

**Workaround** – When planning stores, retrieves, and queries using the SDK Java example programs, be aware of the following:

- StoreFile interprets the time as local time zone unless the T..Z format (indicating UTC) is used. (For example, 1952-10-27T00:30:29.999Z.)
- RetrieveMetadata always displays the time in the time zone of the shell running the program.
- Query requires the T..Z UTC format.

### *Attributes in Nonextensible Namespaces Allowed to Be Changed*

**Bug 6502605** – The system erroneously allows you to change attributes such as `queryable` for nonextensible namespaces.

**Workaround** – Do not change attributes for nonextensible namespaces.

### *API Core Dump if Free Calls Are Out of Order*

**Bug 6507353** – C API core dumps if a query result is freed after the session is freed.

**Workaround** – Do not call `hc_session_free()` before the resultset is freed with `hc_qrs_free()`.

### *Restore Operation Might Fail After Reboot*

**Bug 6516036** – The first attempt to do a restore operation after the 5800 system is rebooted might fail with a message of *Connection Refused*.

**Workaround** – Retry the restore operation; it is expected to work on the second try.

### *During Back Up, Alert Messages Might Indicate Nodes Joining and Leaving*

**Bug 6518738** – While the system is performing a backup operation, it might generate multiple alert messages about nodes joining and leaving the system.

**Workaround** – You can safely ignore these messages.

### *Open Edition Software Might Indicate Java Errors on Third Startup*

**Bug 6520374** – If you stop and then restart the system open edition software soon after, it might fail with Java errors.

**Workaround** – Try restarting the open edition software again.



### *Deleted File Might Still Appear in WebDAV View*

**Bug 6522009** – After you delete a file in a WebDAV view, the file might still appear to be present.

**Workaround** – Wait approximately five minutes and the file should no longer be displayed.

### *Cannot Access CLI From Linux*

**Bug 6531153** – You might not be able to access the CLI on a 5800 system from a system running Linux with a Kernel version greater than 2.6.17.

**Workaround** – Disable windows scaling on the Linux system using the following command:

```
echo 0 > /proc/sys/net/ipv4/tcp_window_scaling
```

Or, use `sysctl` to turn off window scaling.

### *Queries With Fields From More than One Table Might Fail*

**Bug 6533145** – A query to the data on the 5800 system that includes metadata fields that are stored in more than one table might fail.

**Workaround** – Make sure that fields that are queried together are grouped in the same table.

### *Query With Many Large Metadata Fields Might Fail*

**Bug 6535947** – A query to the data on the 5800 system that includes a high number (more than 40, for example) of large string metadata attributes might cause the query to fail.

**Workaround** – Limit the number of large string metadata attributes in a query to fewer than 40.

### *Innocuous WARN!! EOF Messages From Open Edition Software*

**Bug 6538378** – The 5800 system open edition software might display a number of WARN!! EOF error messages.

**Workaround** – These innocuous messages can be safely ignored.

### *CLI/GUI Might Erroneously Show Node as Disabled*

**Bug 6539494** – The CLI sensors command and the GUI Environmental Status Panel might erroneously indicate that nodes 1, 3, and 13 are disabled.

**Workaround** – Check the CLI hwstat command and the GUI Cell Summary Panel to determine if the nodes are actually disabled.

### *CLI/GUI Might Display Sensor Data for Offline Node*

**Bug 6539500** – For the first 5 or 10 minutes after a node goes offline, the CLI sensors command and the GUI Environmental Status Panel might erroneously report active voltages, temperatures, and fan speeds for the node.

**Workaround** – Wait a few minutes and the CLI and GUI should report sensor data as disabled for the offline node.

### *Add/Delete Metadata Operation Might Fail*

**Bug 6541837** – Rarely, an add or delete metadata operation for an object might fail if the system has not released the lock put on that object during a previous operation.

**Workaround** – If the symptom persists for more than 30 minutes, reboot the system.

### *Cannot Receive Email Alerts on Mail System That Requires Authentication*

**Bug 6542247** – You cannot use an SMTP server that requires authentication to receive system alert emails.

**Workaround** – Configure the 5800 system with an SMTP server that does not require authentication.

### *Switch 1 Might Fail With No Email Alert*

**Bug 6554457** – In some cases, switch 1 might fail over to switch 2, but no email alert might be sent to indicate this.

### *Transient Network Cable Failures Might Cause Failover and Missing Heartbeat Messages*

**Bug 6557612** – If the network cable connection on a node is experiencing transient failures, the 5800 system might log missing heartbeat messages as well as messages indicating that the switch has failed over.

**Workaround** – Report the symptom to Sun service, and schedule a replacement of the node or network cable.

### *A Large Object Stored When System Is Nearing Capacity Might Generate Error Messages and Might Not Be Removable*

**Bug 6558322** – If a client stores a large (greater than 1000 MB) object as the 5800 system is nearing capacity, the system might generate warning message about being unable to store the object. Also, the healing processes on the system might not be able to remove any fragments of the object that were successfully stored.

**Workaround** – Do not store objects larger than 1000 MB when the system is nearing capacity. A cell has reached capacity when any one of its disks has reached 80% raw utilization. To display the raw utilization of the disks in a cell, issue the CLI command `df -p`.

### *Unicode Supplemental Characters Erroneously Accepted in Schema*

**Bug 6562925** – The system does not reject the metadata schema file when the metadata name field contains one or more Unicode supplemental characters.

**Workaround** – Do not use Unicode supplemental characters for the metadata name field.

### *Second Attempt at wipe Might Fail*

**Bug 6566083** – If the `wipe` command fails and then you try to issue it again immediately, it might fail again.

**Workaround** – If the `wipe` command fails, reboot the system and then try the command again.

### *Node Might Continuously Reboot*

**Bug 6570304** – Some hardware or software failures can cause a node to reboot repeatedly. Such a situation will be accompanied by email alerts and/or external syslog messages indicating that the node is leaving and joining.

**Workaround** – Power the node down by holding down the power button on the node that is exhibiting this behavior. Call Sun service to arrange to have the node replaced.

### *reboot --all Fails While System Is on Secondary Switch*

**Bug 6570324** – The `reboot -all` command fails if the system is running on the secondary switch. The command requires both switches to be online.

### *Store Operations Might Fail During Cell Expansion*

**Bug 6573144** – During the process of expanding a cell from 8 to 16 nodes, store operations to the system may time out.

**Workaround** – When programming applications, use retry loops within API calls to handle timeouts during cell expansion. One immediate retry should be sufficient in the great majority of cases.

### *Issue With Backups Made From 8-Node System Used to Restore to 16-Node System*

**Bug 6580181** – You cannot use a backup made of an 8-node system to restore data to a 16-node system until at least one backup session is created from the 16-node system.

**Workaround** – After you expand the system from 8 nodes to 16 nodes, perform one backup of any length from the 16-node system. You can then use this and any previous backups of the 8-node system to restore data to the 16-node system.

### *Configuration Changes Might Not Trigger Alerts*

**Bug 6582274** – When multiple system parameter are changed using the `cellcfg` command, all of the changes might not issue alerts.

**Workaround** – If you receive an alert indicating that a parameter has been changed using `cellcfg`, keep in mind that other parameters might also have been changed. Use the `cellcfg` command to check the current settings of all parameters.

### *Client Connection Might Fail With java.net.ConnectionException*

**Bug 6582486** – A connection attempt from a client to the 5800 system might fail with a `java.net.ConnectionException` error.

**Workaround** – Retry the connection.

### *wipe Commands in Succession Might Cause System to Disable Disks*

**Bug 6584310** – If you issue the `wipe` command and then retry the command without waiting for the wipe to be complete, the system might disable disks.

**Workaround** – Wait for one wipe action to complete before retrying the command again. If the system has already started disabling disks, reboot the system, and then reenable the disabled disks.

### *Before Restore Operation, System Must Be Wiped and Rebooted*

**Bug 6584329** – A restore operation might not work correctly if the system has not been wiped and then rebooted before the restore begins.

### *Disk Fail or Disable Causes Severe Log Messages*

**Bug 6585878** – If a disk fails, or if a Sun service technician disables a disk, you might see severe error messages in the external `syslog` host.

**Workaround** – You can ignore these messages; they simply reflect the fact that the disk has failed and can be ignored.

### *Some Valid C API Queries Might Return HCERR\_BAD\_REQUEST*

**Bug 6588218** – Some valid C API queries to the 5800 system might return the error code `HCERR_BAD_REQUEST`, which seems to indicate that the query is not valid.

**Workaround** – Use `hc_session_get_status()` to determine if the error string from the query contains the substring `Relalg server involved in current operation failed`. If so, retry the query.

## *Shutting Down Open Edition Software In Browser Does Not Work for Red Hat 4 Systems*

**Bug 6589653** – If you are running the 5800 system open edition software on a system running Red Hat Version 4, you might not be able to shut down the open edition software via the browser.

**Workaround** – Kill the process manually. The simplest way to do this is to start the open edition software from a dedicated command prompt without running it in the background, and use Ctrl-C when it is idle to exit the program.

## *Retrying Restore Operation Might Require 10 Minute Wait*

**Bug 6595040** – If a restore operation fails, you may have to wait approximately 10 minutes while the system reclaims socket resources.

## *Some Node and Disk Alerts From Start Up or Shut Down Might Be Missing From the Logs*

**Bug 6601977** – When a system starts up or shuts down, it might not send a complete set of email and log alerts for all nodes and disks.

## *reboot --all Might Cause Switch Split Brain*

**Bug 6603323** – Issuing the `reboot -all` command might cause a switch “split-brain” situation, in which neither switch is fully functioning as the primary switch and both switches are performing some of the primary switch’s duties.

**Workaround** – Call Sun service to help you troubleshoot and correct the problem.

## *storeObject Returns Incorrect object\_ctime*

**Bug 6609313** – When you store an object with the `storeObject` API function, the `object_ctime` reported for the object might not match the `object_ctime` that is actually stored with the object.

**Workaround** – To determine the `object_ctime` that was actually stored with the object, retrieve the metadata for the object after the store operation is completed. The system metadata retrieved will include the `object_ctime` that was actually stored with the object and inserted in the query engine.

### *Queries of Type Binary Metadata Might Return Incorrect Matches*

**Bug 6612017** – If you issue a query on a metadata field of type binary, entries in the query engine that include the first bits specified in the query are returned as matches, even if the entry includes more bits than were specified in the query. For example, suppose an entry for binary field, `bfield`, contains the value `ABCDEFGHIJ`. A query on `bfield = "ABCD"` will return a match to that entry.

### *Cannot Start Restore on Wiped Cell*

**Bug 6612146** – You cannot start a restore on a cell that has been wiped in preparation for the restore.

**Workaround** – After you wipe the cell, reboot it.

### *Cannot Perform Backup During Cell Expansion*

**Bug 6612244** – During the process of expanding a cell from 8 to 16 nodes, when you are running the `celladm expand` command, you cannot backup data from the cell.

### *Stores of Very Large Files Might Fail*

**Bug 6615347** – Storing a very large file (greater than 400 GB) might fail with an error similar to the following:

```
com.sun.honeycomb.common.ArchiveException: Failed to get system
metadata from the fragments
```

**Workaround** – Break the file into smaller pieces and then retry the store operation.

### *Restrictions on Dates in C API*

**Bug 6619221** – In the C API, time stamps supplied to `hc_nvr_add_timestamp` and dates supplied to `hc_nvr_add_date` should be in the range 00:00:00 January 1, 1970 UTC to 00:00:00 January 1, 2038 UTC. This is due to limitations in converting “seconds since the epoch” to the human-readable dates used for metadata storage. The Java interface is not as restrictive; however, dates outside of these limits stored in Java might not be retrieved properly by the C API.

## *JAVA API and SDK RetrieveMetadata Program Always Return False Indexed Status*

**Bug 6621320** – In the JAVA API and SDK RetrieveMetadata program, the `SystemRecord.isIndexed()` method always returns `False`.

**Workaround** – Ignore the `SystemRecord.isIndexed()` value.

## *max\_records Variable Should Be Renamed results\_per\_fetch*

**Bug 6627590** – The signature for `hc_query_ez()` in the C API `hcclient.h` has an `int` variable named `max_records`. This `int` variable should be renamed `results_per_fetch` to make its function more apparent. The *Sun StorageTek 5800 System Client API Reference Guide* refers to the variable as `results_per_fetch`, but in the code it is named `max_records`. Functionality is not affected.

## *Deletions During Restore Might Cause Restore to Fail*

**Bug 6643867** – Do not attempt to delete data while restoring data to the system because the restore process might fail.

**Workaround** – If the restore process does fail, restart the restoration.

## *sysstat -i Does Not Update Counts Correctly*

**Bug 6653812** – If you issue the `sysstat` command with the `-i` or `--interval` option, the Estimated Free Space for online cells and the number of online disks is not updated.

**Workaround** – Use a script to run `sysstat` at repeated intervals.

## *GUI Does Not Start When System is Running on Secondary Switch*

**Bug 6662213** – If the 5800 system is operating on the secondary switch, the GUI does not start when administrative client is running Java version 1.6.

**Workaround** – Running Java version 1.5 on the administrative client allows the GUI to start.



### *GUI Hangs When Cell Shut Down*

**Bug 6662951** – If you use the GUI to shut down one cell in a multicell hive, the GUI interface might hang.

**Workaround** – Use the CLI to manage the system until the cell is restarted.

### *Secondary Switch Reported as Offline After Primary Switch Fails*

**Bug 6669944** – If the primary switch fails and the system is running with the secondary switch, the `hwstat` command erroneously reports the secondary switch as `offline`.

### *hwstat Command Result Delayed on Multicell System With Failed Service Node*

**Bug 6671766** – If you issue the `hwstat` command on a multicell system on which the service node has failed, the system might take up to four minutes to display the results of the command.

### *Must Wait Before Reinserting Accidentally Pulled Disk*

**Bug 6672229** – If you accidentally pull an active disk, you must wait at least ten seconds before pushing it back in. If you push the disk in too early, it will be disabled.

**Workaround** – If the disk is disabled, use `hwcfg -E` to reenble it. Note the system will have to run `fsck` to verify the disk, so it might take about 15 minutes before the disk is enabled.

### *System Cannot Process Multiple Simultaneous Disk Pushes or Pulls*

**Bug 6672943** – The system cannot process more than one disk being pulled from the system or pushed back into the system simultaneously.

**Workaround** – Pull and/or push one disk at a time.

### *Service Tags Might Be Lost During Merging of Cells*

**Bug 6673454** – If you merge cells to create a multicell system, the service tag information on the cells might be lost.

**Workaround** – Re-enter service tag information using the CLI.

### *WebDAV View Web Folder Cannot Be Mapped to Letter Drive*

**Bug 6679593** – On a Windows client, if you open a WebDAV view as a web folder it is not possible to map that folder to a letter drive.

**Workaround** – Do not open the WebDAV view as a web folder; use a web browser to see the view instead.

### *logdump Command Might Fail if /var/adm Partition is Full*

**Bug 6687072** – The `logdump` command might fail to run and report an error of Disc quota exceeded if the `/var/adm` partition is out of space.

**Workaround** – Access the master node from the service node and delete all zipped message logs (for example, `messages.2.gz`, `messages.3.gz`, etc.) to free up space on the `/var/adm/` partition.

### *Email Alerts Might Not Be Sent When System is Under Heavy Input/Output Load*

**Bug 6691729** – Email alerts might not be sent during heavy input/output load.

### *Cannot Write File Larger Than 2166444680 Bytes*

**Bug 6698513** – When using WebDAV to access files, you cannot write a file larger than 2166444680 bytes.

**Workaround** – Break the large file into smaller files before writing it, or use the Java or C API to store the large file.

### *Undocumented Exception*

**Bug 6700747** – The `com.sun.honeycomb.client.NameValueRecord.getString` function might return a `com.sun.honeycomb.common.NoSuchValueException` exception indicating that the string was not in `NameValueRecord` map. This exception is not documented in the `JavaDoc`.

### *Misleading Error Message on Reboot*

**Bug 6703189** – Sometimes when the 5800 system reboots, the system returns the error message `Cannot extract Document from body`.

**Workaround** – You can ignore this error message; it does not indicate a problem with the reboot.

### *version Command Returns Incorrect Version in Open Edition*

**Bug 6711236** – If you issue the `version` command within the open edition software for Version 1.1.1, the system erroneously returns `Version 1.1`.

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## Release Documentation

The following table lists the documents for this product. The online documentation is available at:

<http://docs.sun.com/app/docs/prod/stortek.5800>

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<b>Title</b>	<b>Part Number</b>	<b>Format</b>	<b>Location</b>
<i>Sun StorageTek 5800 System Regulatory and Safety Compliance Manual</i>	819-3809-xx	HTML PDF	Online
<i>Sun StorageTek 5800 System Overview</i>	820-4119-xx	HTML PDF	Online
<i>Sun StorageTek 5800 System Administration Guide</i>	820-4118-xx	HTML PDF	Online
<i>Sun StorageTek 5800 System Site Preparation Guide</i>	820-1635-xx	HTML PDF	Online
<i>Sun StorageTek 5800 System API Reference Manual</i>	820-4796-xx	HTML PDF	Online
<i>Sun StorageTek 5800 System SDK Developer's Guide</i>	820-4797-xx	HTML PDF	Online

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## Service Contact Information

If you need help installing or using this product, go to:

<http://www.sun.com/service/contacting>