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Hitachi Data Systems Daylight Saving Time Product Impact Alert

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This Hitachi Data Systems Alert is an important announcement regarding the United States change to standard time on November 2, 2008. This document is intended to provide guidance to Hitachi Data Systems Sales and Support personnel and customers to ensure all parties are informed of the recommended actions for Hitachi products provided by Hitachi Data Systems.

For additional background and information on the U.S. time change:

http://aa.usno.navy.mil/faq/docs/daylight_time.php

Hitachi Data Systems and Partner Products Affected by Daylight Saving Time Changes

Product	Recommended Action	Impact if no action taken
Hitachi Universal Storage Platform™ family - USP V/USP VM/USP/NSC	No impact	
9980V/9970V	No impact	
9960/9910	No impact	
7700 family	No impact	
USP/NSC NAS Blade	03-07 or higher OS required	
9900 Lightning NAS Blade	02-02-/N OS required; availability scheduled for 2/19/2007	
AMS/WMS NAS Option	No action required for NAS OS; AMS/WMS NAS Option requires the 0770/C microcode	Internal trace and log information will be off by one hour
NetApp	All Gfilers: 1. upgrade to DOT 7.0.5 or higher. Min. support version for DST changes 2. Download (NOW Site) and install the latest time zone files on your NetApp systems according to the instructions in NOW Knowledge Base (KB) article kb20094 (you must have access to the NetApp NOW site)	Manual time change required
5700/5800	No DST mode; DST manually set	Internal trace and log information will be off by one hour
9500	No DST mode; DST manually set	Internal trace and log information will be off by one hour
AMS 200, 500, 1000 WMS100	New DST date range supported in microcode level 0770/C or higher (GA for 0770/C is 2/7/2007) Microcode applied after March 11, 2007 DST date will automatically set the correct DST Note: If using NTP/SNTP server the 0770/C microcode is not required.	Internal trace and log information will be off by one hour
AMS2000	No impact	
SMS100	No impact	
Brocade	See Brocade Advisory	Any clocks not manually set or configured to synchronize with one of the recommended methods will be off by an hour.

McDATA	No impact	Any clocks not manually set or configured to synchronize with one of the recommended methods will be off by an hour.
Cisco	See Cisco TechAlert	Any clocks not manually set or configured to synchronize with one of the recommended methods will be off by an hour.
Qlogic SanBox	The Daylight Savings Time changes are supported in the Qlogic 5.0.1.10, or higher, SanBox switch firmware..	If the switch is not running the current Qlogic firmware the Timestamps on any messages or logs would be off by an hour during the new, extended daylight savings time period(s). If using an NTP server, the time would be synchronized and there would be no affect
Hitachi Storage Services Manager	No impact	
Hitachi Data Discovery Suite	No impact	

<p>Hitachi Software Products (formerly HiCommand®)</p> <p>Hitachi Device Manager/Hitachi Provisioning Manager</p> <p>Hitachi Tuning Manager</p> <p>Hitachi Protection Manager</p> <p>Hitachi Tiered Storage Manager/ Tiered Storage Manager CLI Client</p> <p>Hitachi Dynamic Link Manager/ Hitachi Global Link Availability Manager (all platforms)</p> <p>Hitachi Replication Monitor</p>	<p>No impact</p>	
<p>Resource Manager</p>	<p>No impact</p>	
<p>Storage Navigator/ Java Runtime Environment</p>	<p>No impact</p>	
<p>Business Continuity Manager</p>	<p>No impact</p>	
<p>Hitachi Universal Replicator/3DC</p>	<p>No impact</p>	
<p>In System Replication/ ShadowImage®</p>	<p>No impact</p>	
<p>Raid Manager CCI for DF (Modular)</p>	<p>No impact</p>	
<p>Raid Manager CCI for Enterprise</p>	<p>No impact</p>	
<p>TrueCopy®</p>	<p>No impact</p>	
<p>Hitachi Data Protection Suite (CommVault)</p>	<p>No impact Check CommVault Website knowledgebase KB11014. https://www.commvault.com/hds/support/login.asp Requires Userid and password</p>	
<p>Hitachi Backup Services Manager (Aptare)</p>	<p>No impact</p>	

VTF Open (Diligent™)	<p>VTF Open</p> <p>Important Notification About Daylight Savings Time</p> <p>VTF™ Open Linux version is not updated with the new Daylight Saving time.</p> <p>In order to update the Linux version with this update, one will have to install the relevant RPM package supplied by RedHat.</p> <p>For further details please refer to the VTF Open procedure below.</p> <p>VTF Open functionality will not be affected by installing this RPM.</p> <p>Those customers who will not install the RPM will use the previous Daylight Changing schedule.</p> <p>VTF Open Procedure:</p> <p>Get tzdata-2006m-3.el3.noarch.rpm</p> <p>To upgrade the tzdata RPM run the following procedure:</p> <ol style="list-style-type: none"> 1. Make sure that no I/O is directed to the VTF Open Server(s) 2. Stop the VTFD service—service vtfd stop 3. Perform: rpm -Uvh tzdata-2006m-3.el3.noarch.rpm 4. Reboot the VTF Open server 	
VTF Mainframe (Diligent)	No impact	
ProtectTIER™ (Diligent)	<p>ProtectTIER Enterprise</p> <p>Important Notification About Daylight Savings Time</p> <p>ProtectTIER™ Enterprise V1.2.2 and V1.2.1 Linux versions already include the new Daylight Saving schedule.</p> <p>This means that the Linux is set to change to Daylight Saving on Sun Mar 11 and change back on Sun Nov 4</p> <p>This change in time will not affect ProtectTIER™ Enterprise functionality.</p>	
Onaro® SANscreen®	No impact	
Hitachi Content Archive Platform	No impact	

For vendor specific information and additional resources:

Microsoft: http://support.microsoft.com/gp/dst_hottopics

IBM®: <http://www.ibm.com/support/alerts/us/en/daylightsavingtimealert.html>

Sun Microsystems: <http://java.sun.com/javase/timezones/index.html>

HP: http://h10072.www1.hp.com/dst/index.htm?jumpid=reg_R1002_USEN

Red Hat: http://kbase.redhat.com/faq/FAQ_80_7909.shtm

Additional Information:

If you have questions relating to this alert or need help to determine if you are affected by this issue, please contact Hitachi Data Systems Global Support Operations or your local Hitachi Data Systems representative.



January 25, 2007

U.S. Daylight Saving Time Changes & Cisco MDS SAN-OS

In 2005 (effective 2007), the US expanded the daylight saving time to start from the second Sunday in March (previously, the first Sunday in April) to the first Sunday in November (previously, the last Sunday in October). The daylight saving time is also called "summer time". Arizona, Hawaii, and sections of Indiana do not use daylight saving time.

The Cisco MDS SAN-OS provides commands to configure the daylight saving time. *By default, the MDS SAN-OS does not adjust for daylight savings time.* The switch has to be configured to adjust to the daylight saving time.

Frequently Asked Questions (FAQ):

Are any "Y2K" types of issues associated with this change?

No. This change has no "Y2K" effect. The Cisco MDS SAN-OS is designed to handle changes to daylight saving time schedules.

How do I check if my switch is configured to adjust for daylight saving time?

Please run the "*show running-config | include "summer-time"*" command as shown below and look for the statements starting with "clock summer-time".

```
switch# show running-config | include "summer-time"  
clock summer-time Pacific 1 Sun Apr 02:00 5 Sun Oct 02:00 60
```

If "*summer-time*" is not part the running configuration, the switch is not configured for daylight saving time.

Can I use Cisco Fabric Manger to configure multiple switches for daylight saving time?

Sorry, Fabric Manager does not support daylight saving time configuration.

Can I use Cisco Fabric Services (CFS) to configure multiple switches for daylight saving time?

CFS does not support daylight saving time configuration as a single fabric can span multiple time zones (eg: FCIP). Administrators need to configure this in every switch via CLI.

How do I configure to adjust to the daylight saving time?

The section "Adjusting for Daylight Saving" under the Cisco MDS 9000 CLI configuration guide details the steps to configure the daylight saving time. For convenience, the information from configuration guide is attached below.



January 25, 2007

Adjusting for Daylight Saving Time

Following U.S. standards, you can have the switch advance the clock one hour at 2:00 a.m. on the first Sunday in April and move back the clock one hour at 2:00 a.m. on the last Sunday in October. You can also explicitly specify the start and end dates and times and whether or not the time adjustment recurs every year.

To enable the daylight saving time clock adjustment according to the U.S. rules, follow these steps:

Command	Purpose
Step 1 switch# config t	Enters configuration mode.
Step 2 switch(config)# clock timezone timezone_name hour_offset_from_UTC minute_offset_from_UTC Example: switch(config)# clock timezone PST -8 0	Offsets the time zone as specified. This example sets the Pacific standard offset time as negative 8 hours and 0 minutes.
Step 3 switch(config)# clock summer-time daylight_timezone_name start_week start_day start_month start_time end_week end_day end_month end_time daylight_offset_inminutes Example: switch(config)# clock summer-time <daylight_timezone_name> 2 sun march 02:00 1 sun november 02:00 60 switch(config)#	Sets the daylight savings time for a specified time zone. The start and end values are as follows: <ul style="list-style-type: none">• Week ranging from 1 through 5• Day ranging from Sunday through Saturday• Month ranging from January through December The daylight offset ranges from 1 through 1440 minutes, which are added to the start time and deleted time from the end time. This example adjusts the daylight savings time for the Pacific daylight time by 60 minutes starting the first Sunday in April at 2 a.m. and ending the last Sunday in October at 2 a.m.
switch(config)# no clock summer-time	Disables the daylight saving time adjustment feature
Step 4 switch(config)# exit	Returns to EXEC mode.
Step 5 switch# show running-config include "summer-time"	Verifies the time zone configuration.



September 15, 2006

Software Update Advisory: Daylight Saving Time Change For The Year 2007

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Background

On August 8, 2005, President George W. Bush signed the *Energy Policy Act of 2005*. This Act changed the time change dates for Daylight Saving Time (DST) in the U.S. Beginning in 2007, DST will begin on the second Sunday of March (instead of the first Sunday of April) and end the first Sunday of November (instead of last Sunday of October).

Problem Statement

Brocade firmware supporting Daylight Saving Time will need to be adjusted to incorporate the new change. Beginning in March 2007, with the new change to the US time system, the time display will be incorrect on systems. There will be no functional impact on the switch.

Changes

Brocade is committed in making changes in our Fabric OS v5.x.x and XPath v7.4.x releases to adhere to the new Daylight Saving Time change according to the new Energy Policy Act of 2005. The planned releases containing the changes will be rolled out in stages during the 2nd half of 2006 for the following releases:

- Fabric OS v5.0.5 (GA June 2006), v5.2.0 (Planned October 2006)
- XPath OS v7.4.1a (GA June 2006)

Fabric OS v3.x does not support automatic time of day change for Day Light Saving Time, thus will be excluded from this change.

Recommendations

Brocade strongly encourages customers to upgrade firmware to the latest release when available. This upgrade ensures correct behavior from applications that rely on the switches' time. Workaround options include manually setting time or using a NTP server to synchronize time on switch/directors.

Defect # 65847 is documented in FOS 5.0.5, 5.2.0, and Defect # 67045 in XPath 7.4.1a Release Notes.

Symptom: Beginning in 2007, with the new change to the US time system, the time display will be incorrect on systems without this update. There will be no functional impact on the switch.

Specific US time zones can be set by `tstimezone` command: `tstimezone --interactive`

Brocade Communications Systems, Inc.

1745 Technology Drive San Jose, CA 95110
T 408.333.8000 F 408.333.8101
www.brocade.com