



Australian 2006 Daylight Saving Impact on Data Center/GSS and Branch Office Application Products

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Contents

[Introduction](#)

[Prerequisites](#)

[Requirements](#)

[Components Used](#)

[Conventions](#)

[Background Information](#)

[Problem Symptoms](#)

[Workaround/Solution](#)

[Time Zone Chart](#)

[NetPro Discussion Forums - Featured Conversations](#)

[Related Information](#)

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Introduction

In 2006, daylight saving will be extended by one week and finish at 2:00 a.m. standard time (0200) on Sunday, April 2.

Daylight saving commences at 2:00 a.m. standard time (0200) on the first Sunday in October (October 2), 2005, and concludes at 2:00 a.m. on the first Sunday in April (April 2), 2006.

The change supports the 2006 Commonwealth Games, to be held in Melbourne from March 15 through March 26.

For 2006, Tasmania, New South Wales, South Australia, Victoria, and the Australian Capital Territory have extended daylight saving by one week. The Tasmanian Parliament has endorsed the extension and amended the Daylight Saving Act (1968) to support the change.

Prerequisites

Requirements

There are no specific requirements for this document.

Components Used

The information in this document is based on these software and hardware versions:

- Cisco Global Site Selector (GSS)—All versions
- Content Engine Network Modules—NM-CE-BP-xxG-K9, all versions
- Cisco 500 Series Content Engines—All versions of the:
 - 507
 - 510
 - 560
 - 565
 - 590
 - FE 511 File Engine
- Cisco 7300 Series Content Engines—All versions, including all “A” series models, of:
 - 7305
 - 7320
 - 7325
 - 7326
- Cisco IP/TV 3400 Series Video Servers—These 3400 series products may be impacted:
 - Archive Server
 - Broadcast Server
 - Video Starter System
 - Control Server

See the [Workaround/Solution](#) section of this document for more information.

- Cisco 4600 Series Content Distribution Managers

- Cisco 4400 Content Router—All versions

Conventions

Refer to [Cisco Technical Tips Conventions](#) for more information on document conventions.

Background Information

All Data Center/GSS and Branch Office Applications use the system time resources which will be affected by the Tasmania 2006 daylight saving change. Cisco highly recommends that you apply the operating system (OS) time zone that the [Workaround/Solution](#) section of this document provides to all Data Center/GSS and Branch Office products in the [Components Used](#) section. The solution minimizes any impact of this event.

Problem Symptoms

The Data Center/GSS and Branch Office Application products in the [Components Used](#) section will need to have their system times adjusted in order to account for changes in the local time. If the system time is not adjusted, the system will run 1 hour ahead of the correct time in the time period between March 26, 2006, and April 2, 2006. The problems include:

- Report of the wrong time stamps in log files, reports, and display functions
- Problems in client-server synchronization


Workaround/Solution

Use this solution to solve the problem.

These IP/TV units are all based on Microsoft Windows 2000 OSs:

- 3412
- 3424
- 3425
- 3426
- 3427
- 3432
- 3441
- 3442

It appears that Microsoft does not currently support "Australian daylight saving time (DST)" in this OS.

But Microsoft has outlined a solution for users of Windows 2000. Refer to the document [Microsoft products do not reflect Australian daylight saving time changes for the year 2006](#)  for the Microsoft official statement for the "Australian DST" issue.

These IP/TV units are all based on Windows NT OSs:

- 3411
- 3415
- 3422
- 3423
- 3431

It appears that Microsoft does not support "Australian DST" and that these units are beyond "end of support". However, refer to the document [Microsoft products do not reflect Australian daylight saving time changes for the year 2006](#)  for a solution.

The IP/TV Program Manager product is based on Cisco Application and Content Networking System (ACNS). If you use this product, follow the procedure in this section.

All devices that run ACNS, Wide Area File Services (WAFS), Network Attached Storage (NAS) or IP/TV software have the same command-line interface (CLI) options for the clock. You can use the procedure in this section in order to resolve the issue.

For Cisco ACNS, WAFS, NAS or IP/TV software products, you need to configure a custom "clock time zone" (one that does not include DST) and configure a custom "clock summertime" on which to end. See the [Time Zone Chart](#) section of this document. However, if you are already in DST, you cannot configure your "clock summertime" to start in the past. Therefore, you must configure it to start within a couple minutes of when you issue the command. So, for a brief period, the local time would be wrong. Acquisition/distribution may be restarted. This change does not break anything.

The administrator must schedule a maintenance window when the configuration changes can be made and when a brief period of incorrect local time would not be a problem. Then, the process would be something like this:

1. Issue the **show clock details** command in order to determine the current time setting, and choose a time for the temporary custom summertime to take effect.

Choose a time that is a couple of minutes in the future.

```
ce2#show clock details
Local time: Thu Feb  9 09:22:40 EST 2006

        UTC time: Wed Feb  8 22:22:40 UTC 2006

Epoch: 1139437360 seconds
UTC offset: 39600 seconds (11 hours 0 minutes)
Daylight Savings Time is in effect.
```

2. Go into configuration mode and set the clock to a time zone that does not include DST.

The clock is off by an hour until you configure the summertime and it takes effect. Here is an example:

```
ce2#config
ce2(config)#clock timezone GMT+10 +10
```

3. Configure the temporary custom clock summertime to begin in the very near future and to end on April 7.

Note: Remember that your clock time is now off by 1 hour from when you issued the **show clock details** command. Be sure to adjust for that.

```
ce2(config)#clock summertime GMT+10+DST date 9 feb 2006 8:30 7 Apr 2006 2:
```

4. Verify that the new clock summertime has taken effect.

```
ce2#show clock details
Local time: Thu Feb  9 09:31:24 GMT+10+DST 2006

UTC time: Wed Feb  8 22:31:24 UTC 2006

Epoch: 1139437884 seconds
UTC offset: 39600 seconds (11 hours 0 minutes)
Daylight Savings Time is in effect.
```

5. Verify the running configuration.

```
ce2#show run
.
clock timezone GMT+10 10 0
clock summertime GMT+10+DST date 9 February 2006 8:30 7 April 2006 2:0 60
```

6. Write the new configuration to Flash.

```
ce2#copy running-config startup-config
```

Now, the clock is in DST but will not end until April 7. Then, anytime after that time which is convenient, the administrator can back off these changes and go back to a normal time zone that does include DST (for example, Australia/New South Wales).

Time Zone Chart

Starts	Ends
Sunday, October 2, 2005	Sunday, April 2, 2006
Sunday, October 1, 2006	Sunday, March 24, 2007

Other States and Territories Daylight Saving for the Same Period

State/Territory	Daylight Saving
Victoria	Sunday, October 30, 2005–Sunday, April 2, 2006
New South Wales	Sunday, October 30, 2005–Sunday, April 2, 2006
Australian Capital Territory	Same as New South Wales
South Australia	Sunday, October 30, 2005–Sunday, April 2, 2006
Queensland	No daylight saving. 1 hour behind during the Eastern Australian Standard Time daylight saving period.
Western Australia	No daylight saving. Usually 2 hours behind Eastern Australian Standard Time, but 3 hours behind during the daylight saving period of the eastern states.
Northern Territory	No daylight saving. Usually 1/2 hour behind Eastern Australian Standard Time, but 1 1/2 hours behind during the daylight saving period of the eastern states.

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