



Updating CTM Daylight Saving Time for New Zealand

This appendix describes how to make CTM compliant with the New Zealand Daylight Saving Time (DST) settings update. This appendix contains the following sections:

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D.1 DST Compliance for the CTM Server

This section describes how to make the CTM server compliant with the New Zealand DST settings.

- Step 1** Download the Solaris patch required to support the DST changes from SunSolve Online at <http://sunsolve.sun.com>. The required patch is 125378-02 or higher.



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- Step 2** Download Oracle patch number 6113507, required to support the DST changes. To download the additional required Oracle patch, complete the following substeps:

- a. Go to <http://metalink.oracle.com> and click **Login to MetaLink**. Enter your Oracle MetaLink username and password.



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- b. Select **Patch** from the menu and search for the 6113507 patch.
- c. Choose **Solaris Operating System (SPARC 64-bit)** from the Platform or Language list box.
- d. Click **Go**.
- e. Click **Download** to download the p6113507_10203_SOLARIS64.zip file to your local workstation.
- f. Enter the following command to log into the database workstation as the Oracle user:

```
su - oracle
```

g. Save the patch to the \$ORACLE_HOME directory.

Step 3 Download the TZupdater tool, release 1.2.1 or higher, from the Sun Developer Network (SDN) website at http://java.sun.com/javase/tzupdater_README.html. The TZupdater installer is a single file named tzupdater-1_2_1-2007f.zip.

Step 4 As the root UNIX user, enter the following command to shut down the CTM server:

```
ctms-stop
```

Step 5 As the oracle UNIX user, enter the following commands to stop the CTM database:

```
su - oracle
lsnrctl stop
sqlplus /nolog
connect / as sysdba
shutdown immediate
quit
```

Step 6 Install the Solaris patches.

Step 7 Install the additional required Oracle patch. Complete the following substeps:

a. Enter the following commands to unzip p6113507_10203_SOLARIS64.zip to your Oracle home directory:

```
cd $ORACLE_HOME
unzip p6113507_10203_SOLARIS64.zip
```

A new 6113507 folder is created.

b. Enter the following command to change to the 6113507 folder:

```
cd 6113507
```

c. Enter the following command to apply the patch:

```
../OPatch/patch apply
```

d. Enter the following command to check whether the 6113507 patch is installed:

```
../OPatch/patch lsinventory | grep 6113507
```

The output should show the 6113507 patch number.

Step 8 Install the TZupdater tool. Read the installation and usage instructions for the TZupdater tool at http://java.sun.com/javase/tzupdater_README.html. Then, complete the following substeps:

a. As the root UNIX user, enter the following command:

```
su - root
```

b. Copy the tzupdater-1_2_1-2007f.zip file to the /tmp directory. Then enter:

```
cd /tmp
```

c. Enter the following command to unzip the tzupdater-1_2_1-2007f.zip file:

```
unzip tzupdater-1_2_1-2007f.zip
```

A directory named tzupdater-*<version>*-*<date>* is created.

d. Enter the following command to enter the tzupdater-*<version>*-*<date>* directory:

```
cd tzupdater-1.2.1-2007f
```

e. Enter the following command to locate the JRE used by the CTM server:

```
ls -la /bin/javane
```

You should see output similar to the following:

```
lrwxrwxrwx [...] /bin/javane -> /opt/jre1.5.0_12/bin/java
```

In this example, the `<jre_location>` is `/opt/jre1.5.0_12`.

- f. Enter the following command:

```
<jre_location>/bin/java -jar ./tzupdater.jar -u
```

In this example, enter the following command:

```
/opt/jre1.5.0_12/bin/java -jar ./tzupdater.jar -u
```

- g. If no message is displayed, enter the following commands to verify that the settings have been applied:

```
cd <jre_location>/lib
ls -la | grep zi
```

You should see that the `zi` directory is modified with the current date and a `zi.tzdata<date>` directory is displayed, where `<date>` is the date of the old time zone database that was replaced; for example, `zi.tzdata2007e`.

- Step 9** Enter the following commands to remove the temporary files:

```
cd /tmp
rm tzupdater*.zip
rm -r tzupdater*
```

- Step 10** As the oracle UNIX user, enter the following commands to start the CTM database:

```
su - oracle
sqlplus /nolog
connect / as sysdba
startup
quit
lsnrctl start
```

- Step 11** As the root UNIX user, enter the following command to verify that the Oracle processes are running:

```
ps -ef | grep ora
```

- Step 12** Enter the following command to start the CTM server:

```
ctms-start
```

D.2 DST Compliance for the CTM Client on Solaris

This section describes how to make the Solaris CTM client compliant with the New Zealand DST settings.

- Step 1** Download the Solaris patch required to support the DST changes from SunSolve Online at <http://sunsolve.sun.com>. The required patch is 125378-02 or higher.



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- Step 2** Download the TZupdater tool, release 1.2.1 or higher, from the Sun Developer Network (SDN) website at http://java.sun.com/javase/tzupdater_README.html. The TZupdater installer is a single file.
- Step 3** Exit all of the CTM clients running on the workstation that you are going to patch.
- Step 4** Install the Solaris patches.
- Step 5** Install the TZupdater tool. Read the installation and usage instructions for the TZupdater tool at http://java.sun.com/javase/tzupdater_README.html. Then, complete the following substeps:
- As the root UNIX user, enter the following command:


```
su - root
```
 - Enter the following command to copy the tzupdater-1_2_1-2007f.zip file to the /tmp directory:


```
cd /tmp
```
 - Enter the following command to unzip the tzupdater-1_2_1-2007f.zip file:


```
unzip tzupdater-1_2_1-2007f.zip
```

A directory named tzupdater-*<version>*-*<date>* is created.
 - Enter the following command to enter the tzupdater-*<version>*-*<date>* directory:


```
cd tzupdater-1.2.1-2007f
```
 - Enter the following command:


```
/opt/CiscoTransportManagerClient/jre/bin/java -jar ./tzupdater.jar -u
```
 - Enter the following commands to verify that the JRE has been patched correctly:


```
cd /opt/CiscoTransportManagerClient/jre/lib
ls -la | grep zi
```

You should see that the zi directory is modified with the current date and a zi.tzdata*<date>* directory is displayed, where *<date>* is the date of the old time zone database that was replaced; for example, zi.tzdata2007e.
- Step 6** Enter the following commands to remove the temporary files:
- ```
cd /tmp
rm tzupdater*.zip
rm -r tzupdater*
```

## D.3 DST Compliance for the CTM Client on Windows

This section describes how to make the Windows CTM client compliant with the New Zealand DST settings.

- Step 1** Download the TZupdater tool and the necessary Windows patch:
- Download the Windows patch required to support the DST changes from the Microsoft website at <http://www.microsoft.com>. The patch required is KB933360.



**Note** The KB933360 patch is not supported for Microsoft Windows 2000 Professional.

- b. Download the TZupdater tool, release 1.2.1 or higher, from the Sun Developer Network (SDN) website at [http://java.sun.com/javase/tzupdater\\_README.html](http://java.sun.com/javase/tzupdater_README.html). The TZupdater installer is a single file named tzupdater-1\_2\_1-2007f.zip.

**Step 2** Exit all of the CTM clients running on the Windows CTM client that you are going to patch.

**Step 3** Install the Windows patch. Refer to the instructions on the Microsoft website at <http://www.microsoft.com>.

**Step 4** Install the TZupdater tool. Read the installation and usage instructions for the TZupdater tool at [http://java.sun.com/javase/tzupdater\\_README.html](http://java.sun.com/javase/tzupdater_README.html). Then, complete the following substeps:

- a. Copy the tzupdater-*<version>*.zip file to a temporary directory.
- b. Unzip the file using WinZip or a similar tool. A directory named tzupdater-*<version>*-*<date>* is created; for example, tzupdater-1.2.1-2007f.
- c. Using Windows Explorer, change directories to display the new directory that you created.
- d. Right-click the directory and select the **Open Command Window Here** option.
- e. Enter the following command:

```
<CTM_client_install_directory>\jre\bin\java -jar .\tzupdater.jar -u
```

For example, if your client is installed in the C:\Cisco\TransportManagerClient8\_5 directory, enter:

```
C:\Cisco\TransportManagerClient8_5\jre\bin\java -jar .\tzupdater.jar -u
```

**Step 5** Verify that JRE has been patched correctly. Enter the directory where the CTM client is installed; then, enter the jre\lib directory. You should see that the zi directory is modified with the current date and a zi.tzdata*<date>* directory is displayed, where *<date>* is the date of the old time zone database that was replaced; for example, zi.tzdata2007e.

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