Cisco StadiumVision Director Server Text Utility Interface

The Text Utility Interface (TUI) provides a console-based interface for use by system installers, administrators, and troubleshooting personnel. The TUI replaces the requirement for any low-level system command line (shell) access and can be used to perform routine system tasks such as modifying system configurations, changing passwords, and checking system logs. Remote TAC access and troubleshooting can both be facilitated from the TUI in the event of an outage or failure.

The Cisco StadiumVision Director and Cisco StadiumVision Director Remote servers both include a TUI interface. The remote server version of the TUI has a similar menu structure, but only provides a subset of the functions available in Cisco StadiumVision Director.

Contents

Information About the TUI

This section includes the following topics:

Overview of the TUI Menus

The TUI is a nested structure of menus with options that allow you to drill down to specific system tasks to be performed on the server. The primary menus are:

- Main Menu
- System Settings
- System Accounts
- Services Control
- StadiumVision Server Administration
- Troubleshooting

Table 1 provides a description of the primary menus included in the Cisco StadiumVision Director TUI.

Table 1   Description of the Primary TUI Menus

Menu Name	Use this menu to. . .
Main Menu	Access all other menus or exit the TUI.
System Settings	Change server network configuration, system date/time, or display system information.
System Accounts	Manage default system passwords. For more information about system accounts and modifying them, see the "System Accounts on the Cisco StadiumVision Director Servers" module of the *Cisco StadiumVision Director Server Administration Guide*.
Services Control	Access services running on the server to start, stop, or show status.
StadiumVision Server Administration	Manage the operation and software configuration of the server.
Troubleshooting	Run a **ping** command, monitor disk space usage, clean up files to free up disk space, or display system logging information.

Figure 1 shows a map of the new Cisco StadiumVision Director TUI menuing system and options.

In Cisco StadiumVision Director Release 3.1.0-797, the Cisco StadiumVision Director TUI was modified with the following changes to allow configuration of the log file retention policy for upgraded servers:

- The "Backup/restore Retention Policy" sub-menu from the StadiumVision Server Administration menu is renamed to "Retention Policy."

- A new sub-menu named "Log Files" was added to the revised Retention Policy menu, with corresponding options to keep files newer than 5, 10, or 15 days.

Figure 1 **TUI Map for Cisco StadiumVision Director Servers**

System Settings

Network Settings → Setup Network Information

Date and Time Settings

System Information

Setup Network Information
Manually edit network config file
Edit hosts file
Generate certificate file

Setup NTP Source
Change Date and Time
Change Timezone

Find Timezone Code
Change System Timezone

System Accounts

Enable/Disable TAC user
Change installer password
Enable/Disable Backup user
Change MySQL password
Change admgr password
Change admin password
Change JMX password

Services Control

Networking
MySQL
Web Server
Content Management System (cms)
Message Queue (hornetq)
Dynamic Menu Board / Portal (liferay)
External Content Integration (integration)
StadiumVision Director Services

Start Service
Stop Service
Show Status

All
SVD Config
SVD Control
SVD Local Control
SVD Monitor

StadiumVision Server Administration

Display Software Version
Upgrade Server
Restart StadiumVision Director Software
Shutdown StadiumVision Director Software
Setup automatic backup and restore
Re-Run StadiumVision initial configuration
Content migration
Hard Drive Expansion
Retention Policy
Failover
Reboot
Power Off

Migration Preparation Wizard
Run migration script
Remove legacy (VDM) video files

Backup/restore Files
Log Files

Keep backup/restore files newer than 1 day ... files
newer than 2 days ... files
newer than 5 days ... files
newer than 7 days ... files
newer than 10 days

Keep log files newer than 5 days ... than
10 days ... than
15 days

Promote as Primary/Active
Configure as Secondary/Inactive

System Logs
Web Server (httpd)
Content Management System (cms)
Message Queue (hornetq)
External Content Integration (integration)
Dynamic Menu Board / Portal (liferay)
SVD Config
SVD Control
SVD Local Control
SVD Monitor

/var/log . . .
Tail log
View log

Troubleshooting

Ping a host
Disk Monitoring
Logs

File System Disk Usage
Delete Files

Clean up logs
Clean up system state reports
Clean upgrade ISO files
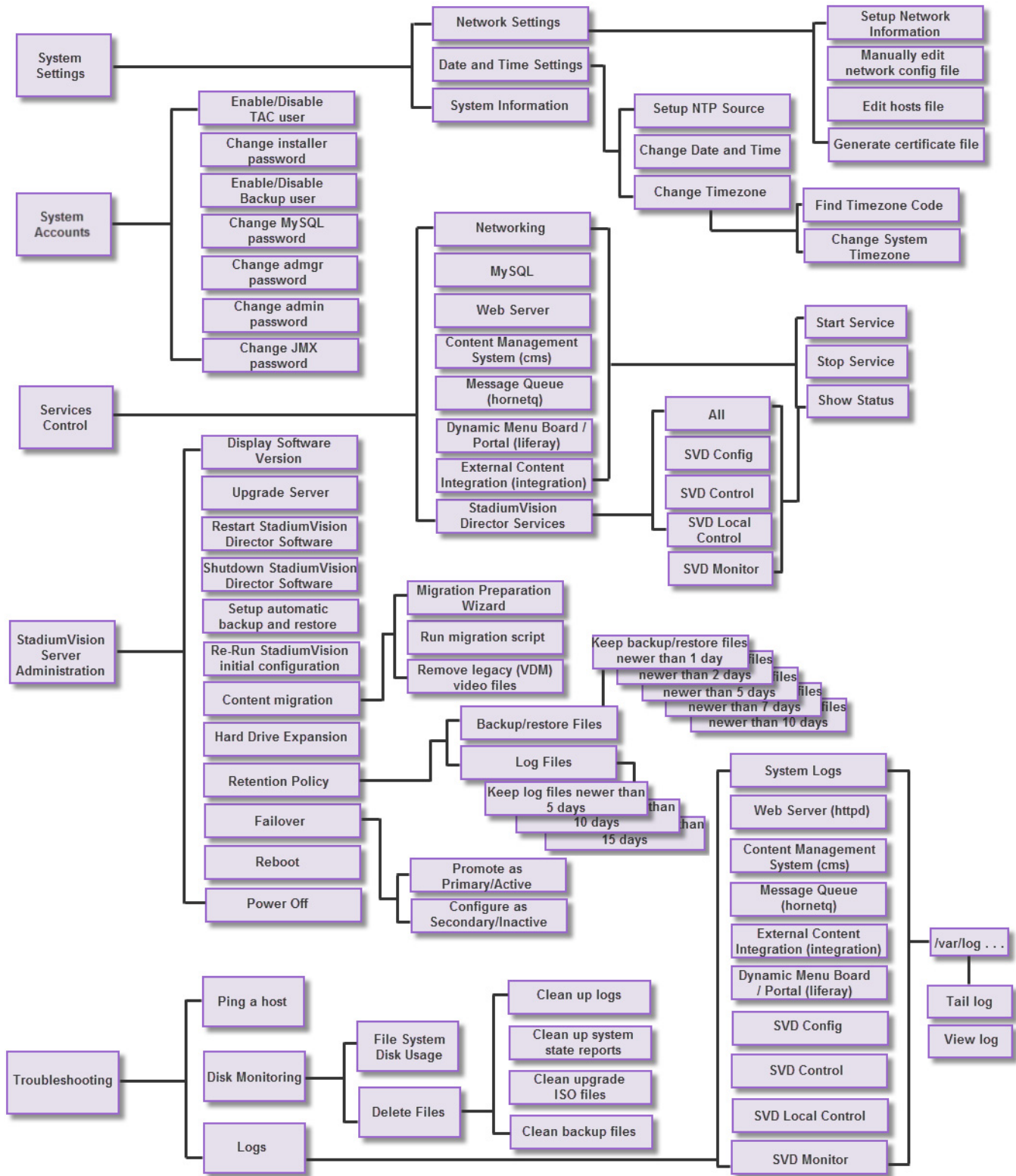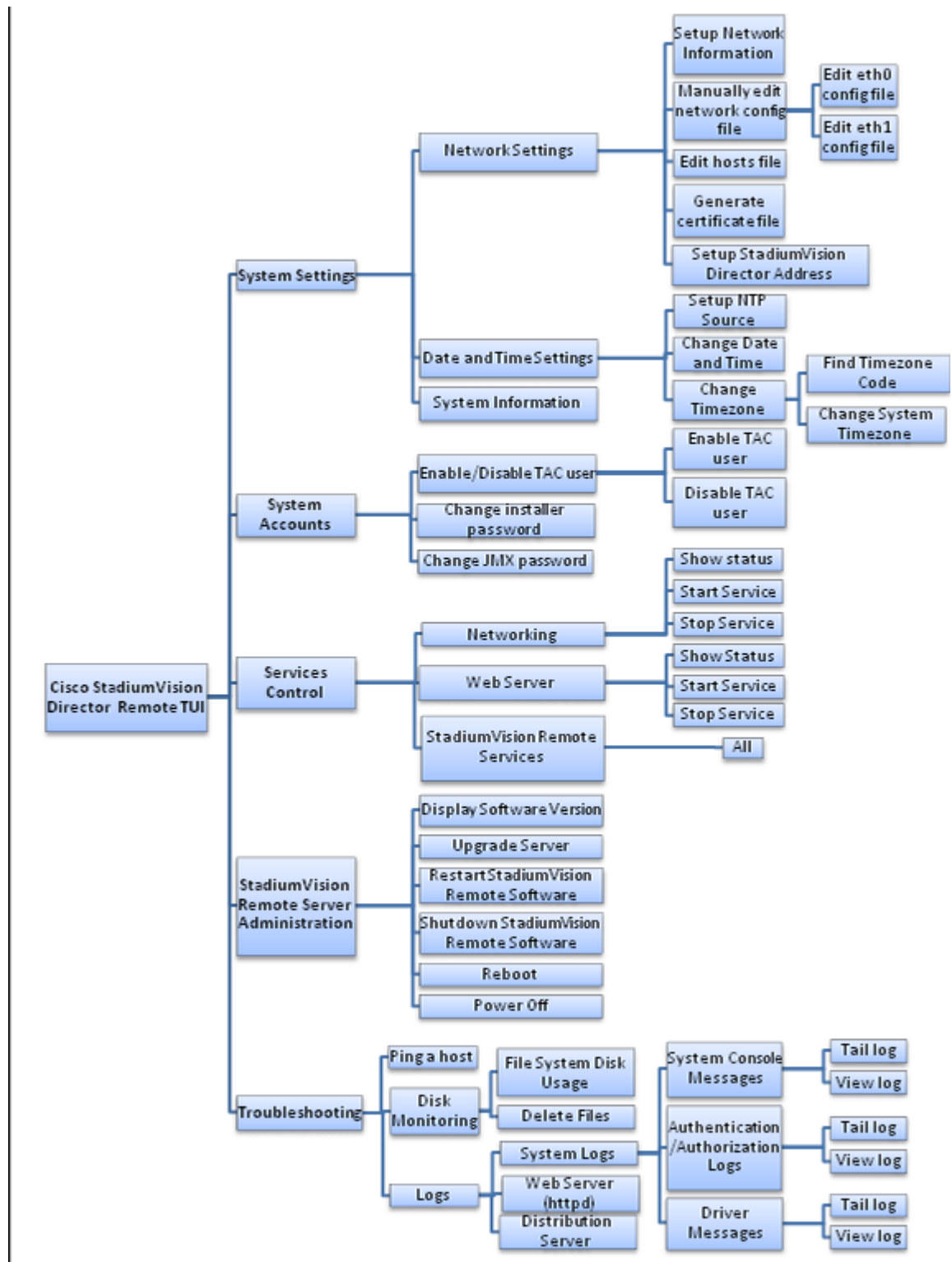Clean backup files

Figure 2 shows a map of the Cisco StadiumVision Director Remote TUI menuing system and options.

Figure 2   *TUI Map for Cisco StadiumVision Director Remote Servers*

Working with the TUI Interface

This section includes the following topics:

Menu Navigation

The Main Menu is displayed when you log in. To navigate through the menus you must type the character that corresponds to the menu area where you want to go (**a**, **b**, **c**, and so on) and press **Enter**.

To return to other menus, you must back out of the hierarchy of menus using one of the indicated keys to return you to prior menus.

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Caution   Avoid pressing Ctrl-c from the TUI. This immediately terminates the TUI session and if services were started during the session they might stop running. Use the TUI menu system to exit the interface.

File Editor

Several of the TUI options open server system files for you to modify using the Unix system vi editor. The following configuration files are editable from the TUI:

- DNS information—/etc/resolv.conf
- NTP server information—/etc/ntp.conf
- Server host information—/etc/hosts

Before modifying configuration files, you should be familiar with the simple editing techniques used within the vi editor. Table 2 describes some of the more common vi Editor commands.

Table 2   Common vi Editor Commands

Command	Description
ZZ or **:wq**	Exit vi and save changes.
:q!	Exit vi without saving changes.
Esc key	Exit current mode and enter vi command mode.
Cursor Movement	
h	Move left (backspace).
j	Move down.
k	Move up.
l	Move right.
Enter key	Move to the beginning of the next line.
Inserting	
a	Append character after cursor.
i	Insert character before cursor. Enters INSERT mode.
r	Replace character under cursor with next character typed.

Table 2   Common vi Editor Commands

Command	Description
R	Keep replacing character until [Esc] is pressed.
Deleting	
db	Delete word before cursor.
dd	Delete line under cursor.
dw	Delete word under cursor.
x	Delete character under cursor.
Put	
P	Undo deletion of characters, words, or lines before cursor.
p	Undo deletion of characters, words, or lines after cursor.

How to Use the TUI

This section provides information about how to use some of the areas of the TUI interface. It includes the following topics:

- Logging Into the TUI, page 8
- Displaying System Information, page 9
- Configuring the System Date and Time, page 10
- Exiting the TUI, page 14

Logging Into the TUI

To access the TUI, you need either physical console access or an SSH client such as PuTTY.

To log into the TUI, complete the following steps:

Step 1   Do one of the following:

- Access the server using a directly-attached console.
- In the SSH client software, specify the IP address of the server that you want to access.

Step 2   When the "login as:" prompt appears, type **installer** and press **Enter** (Figure 3):

Figure 3   TUI Login Prompt
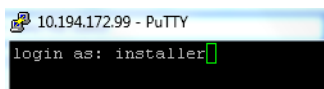
Step 3   At the password prompt, type the installer password and press **Enter**.

✎ **Note**   In a PuTTY terminal, the keystrokes for your password entry are not shown.

When the login is successful, the Main Menu is displayed along with some basic system information at the top of the screen (Figure 4).

Figure 4 *Cisco StadiumVision Director TUI Main Menu*

Tip Once logged in, you can change the installer password from the **System Accounts** > **Change installer password** menu option.

Displaying System Information

The System Settings > System Information option allows you to obtain information about the current network configuration, hosts file, DNS configuration, NTP server, system date and time, and UUID for the server.

To display system information, complete the following steps:

Step 1 Go to the TUI Main Menu.

Step 2 Type **a** (for System Settings) and press **Enter**.

Step 3 From the System Settings menu, type the letter corresponding to the System Information option and press **Enter**.

The system information is displayed on your screen.

Step 4 To return to the System Settings menu, press any key.

Configuring the System Date and Time

When you install or upgrade the Cisco StadiumVision Director or Cisco StadiumVision Director Remote servers, you need to configure the system date and time. To ensure synchronicity with redundant servers and the Cisco StadiumVision Director remote server, it is recommended that you configure a reference clock using an NTP server. You also need to configure the time zone.

Configuring an NTP Server

The **System Settings** > **Date and Time Settings** > **Setup NTP Source** option allows you to configure the NTP server address information on both the Cisco StadiumVision Director and Cisco StadiumVision Director Remote servers.

Standard NTP server configuration uses the word "server" followed by the Domain Name System (DNS) name or IP address of an NTP server. By default, the ntp.conf file on Cisco StadiumVision Director servers has configured the following Red Hat Linux public pool of servers:

```
server 0.rhel.pool.ntp.org
server 1.rhel.pool.ntp.org
server 2.rhel.pool.ntp.org
```

For these servers to be used as a reference clock, they must be reachable from the Cisco StadiumVision network. If you want to use your own server, be sure to add it and comment out these default pool servers in the ntp.conf file.

For more information about using NTP pool servers see the Network Time Protocol website at:

http://support.ntp.org/bin/view/Servers/NTPPoolServers

Prerequisites

Before you configure an NTP server, you should know the following information:

- How to use vi editor commands.
- The IP address or DNS name of the NTP servers that you want to configure.
- If you plan to use a public pool of NTP servers, be sure that the servers are reachable from the Cisco StadiumVision network. You do not need to do any further editing of the ntp.conf file.

Procedure

To configure an NTP server, complete the following steps:

Step 1   From the TUI Main Menu, go to **System Settings** > **Date and Time Settings** > **Setup NTP Source**.

A confirmation screen to Configure NTP and edit the ntp.conf file is displayed.

Step 2   To open the ntp.conf file for edit, press any key.

The ntp.conf file opens in the vi editor and the cursor is positioned at the end of the last configured NTP server line. If this is not the case, navigate to the server configuration section.

Step 3   To enter INSERT line editing mode, type **i**.

The vi editor changes to INSERT mode.

Step 4   If you have a server that you want to use as the reference clock source at your site, do the following:

- Add a line and type "**server** *ip-address*" or "**server** *dns-name*," where *ip-address* or *dns-name* is replaced by the IP address or name of the NTP server that you want to configure.

- Go to the lines where the pool servers are configured and add a "#" sign in front to comment them out of the configuration as shown below:

```
#server 0.rhel.pool.ntp.org
#server 1.rhel.pool.ntp.org
#server 2.rhel.pool.ntp.org
```

Step 5   To exit INSERT mode and return to vi command mode, press **Esc**.

Step 6   To save your changes, type **:wq**.

The configuration is saved and the ntpd service is restarted. Verify that you see the "OK" confirmation that the ntpd has started.

Step 7   To return to the Date and Time Settings menu, press any key.

Configuring the Date and Time Manually

To configure the date and time manually, complete the following steps:

Step 1   From the TUI Main Menu on the server, go to **System Settings > Date and Time Settings > Change Data and Time**.

Step 2   At the confirmation prompt, type **Y** to continue.

Step 3   Type the new date and time in the format: MMDDhhmm[[CC] YY] [.ss], where:

- MMDDhhmm is required (MM is month, DD is day, hh is hour, and mm is minutes).

- CC is the century (first 2 digits of the year) and is optional for use with YY. For example "20" in the year 2013.

- YY is the last 2 digits of the year and is optional. For example "13" in the year 2013.

- .ss is seconds and is optional.

Step 4   Press any key to return to the Date and Time Settings menu.

Configuring the Time Zone

Configuring the time zone is required for both the Cisco StadiumVision Director and Cisco StadiumVision Director Remote servers.

Note   Although there is an option to set the time zone in the Venues interface of the Control Panel on the Cisco StadiumVision Director server, this option is informational only and is also used for proof-of-play reporting. The actual time zone for the venue is configured from the TUI on the remote server.

This section includes the following tasks:

Finding the Time Zone Code for System Configuration

Use this task to find out the time zone code that is needed when you configure the server's time zone information.

✎
Note This task provides information only.

To find the time zone code for system configuration, complete the following steps:

Step 1 From the Date and Time Settings menu, do the following:

a. Select **Change Timezone**.

b. Type the number that corresponds to the applicable continent or ocean for the location of the remote server.

c. Type the number that corresponds to the country.

d. Type the number for the time zone (as applicable).

e. When the confirmation of the time zone information that you configured is displayed, type **1** (for Yes) to accept your settings, or 2 (for No) to cancel (Figure 5).

Figure 5   *Time Zone Confirmation Prompt*


```
The following information has been given:

        United States
        Pacific Time

Therefore TZ='America/Los_Angeles' will be used.
Local time is now:      Mon Feb 18 16:42:55 PST 2013.
Universal Time is now:  Tue Feb 19 00:42:55 UTC 2013.
Is the above information OK?
1) Yes
2) No
#?
```

f. After confirming Yes at the prompt, note the time zone string that is provided.

Figure 6 shows a sample time zone code for America/Los_Angeles.

Figure 6   ***Sample Time Zone Code***

```
The following information has been given:

        United States
        Pacific Time

Therefore TZ='America/Los_Angeles' will be used.
Local time is now:     Mon Feb 18 16:56:47 PST 2013.
Universal Time is now:  Tue Feb 19 00:56:47 UTC 2013.
Is the above information OK?
1) Yes
2) No
#? 1

You can make this change permanent for yourself by appending the line
        TZ='America/Los_Angeles'; export TZ
to the file '.profile' in your home directory; then log out and log in again.

Here is that TZ value again, this time on standard output so that you
can use the /usr/bin/tzselect command in shell scripts:
America/Los_Angeles
Press any key to return to the menu.
```

Step 2   Press any key to return to the Date and Time Settings menu.

Step 3   Configure the system time zone using the appropriate code for the server location. See the "Configuring the System Time Zone" section on page 13.

Configuring the System Time Zone

Prerequisites

Before you configure the system time zone, you should know the following information:

- How to use vi editor commands.

- The time zone code for the server location. If you need to look up the time zone code, see the "Finding the Time Zone Code for System Configuration" section on page 12.

Procedure

To configure the system time zone so that it persists after restart of the server, complete the following steps:

Step 1   From the TUI Main Menu on the server, go to **System Settings** > **Date and Time Settings** > **Change System Timezone**.

Step 2   At the prompt to edit the system clock file, press any key to continue.

The /etc/sysconfig/clock file is opened for editing.

Step 3   Use the vi editor to specify your time zone. Figure 7 shows an entry for the **"America/Los_Angeles"** time zone code.

Tip   The quotation marks and underscore symbols are required.

Figure 7 *Editing the Clock File*

Step 4 To exit INSERT mode and return to vi command mode, press **Esc**.

Step 5 To save your changes, type **:wq!**.

Step 6 At the prompt, press any key to return to the Date and Time Settings menu.

Step 7 Restart the server to put the time zone changes into effect.

Restarting the Cisco StadiumVision Software

After you configure the time zone in the TUI on the server, you must restart the software on the Cisco StadiumVision Director or Cisco StadiumVision Director Remote server.

To restart the Cisco StadiumVision software, complete the following steps:

Step 1 From the TUI Main Menu on the server, do one of the following according to the server that you need to restart:

- Go to **StadiumVision Server Administration** > **Restart StadiumVision software**.

- Go to **StadiumVision Remote Server Administration** > **Restart StadiumVision Remote software**.

Cisco StadiumVision Remote distribution is stopped and restarted.

Step 2 When the prompt appears, press any key to return to the Server Administration menu.

Step 3 Return to the Main Menu and exit the TUI.

Exiting the TUI

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Caution Avoid pressing Ctrl-c from the TUI. This immediately terminates the TUI session and if services were started during the session they might stop running. Use the TUI menu system to exit the interface.

To exit the TUI, complete the following steps:

Step 1 Go to the TUI Main Menu.

Tip If you are in a TUI submenu, you will have to type **R** or **<** or **,** and press **Enter** to navigate back to the Main Menu.

Step 2 Type **X** and press **Enter**.

Related Documentation

The following documents provide details about using some of the specific areas of the TUI:

- Other modules in this *Cisco StadiumVision Director Server Administration Guide*
- *Cisco StadiumVision Director Software Installation and Upgrade Guide*