

# Configure Time Settings on a Wireless Access Point

## Objective

The system clock provides a network-synchronized time-stamping service for software events such as message logs. Without synchronized time, accurate correlation of log files between devices is difficult to maintain. Configuring the time settings on your Wireless Access Point (WAP) is important because it can help troubleshoot network issues such as system log services that display each and every log entry with a time stamp.

The system time can be configured either manually or automatically. Manual configuration is helpful when your network is not connected to a Network Time Protocol (NTP) server. NTP is used to synchronize the client or server time with another server time or reference time source.

This article provides you with instructions on how to configure time settings on your WAP in two ways: manually and automatically.

## Applicable Devices

- WAP100 Series
- WAP300 Series
- WAP500 Series

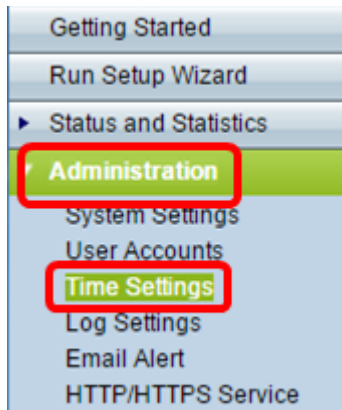
## Software Version

- 1.0.0.17 — WAP571, WAP571E
- 1.0.1.2 — WAP150, WAP361
- 1.0.2.2 — WAP351, WAP131
- 1.0.6.2 — WAP121, WAP321
- 1.2.1.3 — WAP371, WAP551, WAP561

## Configure Time Settings on a WAP

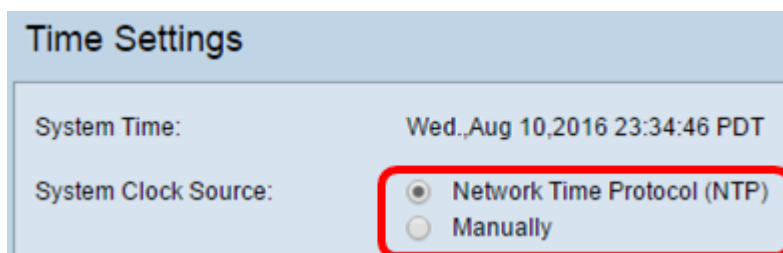
Use the Time Settings page on the WAP to set the system time manually or to configure the system to acquire its time settings from a preconfigured NTP server. By default, the WAP is configured to obtain its time from a predefined list of NTP servers.

Step 1. Log in to the web-based utility and choose **Administration > Time Settings**.



Step 2. Click the desired radio button for the appropriate time source from the System Clock Source. The options are listed below:

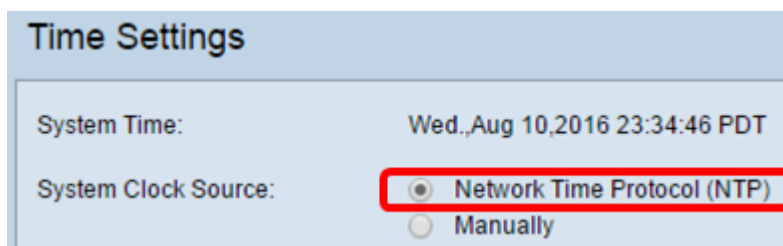
**Note:** The System Time displays the current system time.



- Network Time Protocol (NTP) — The WAP automatically acquires the time settings from an NTP server. If you choose NTP as the System Clock Source, go to the [Automatic Time Settings](#) subsection.
- Manually — You can manually configure the time settings on the WAP. If you choose Manually as the System Clock Source, go to the [Manual Time Settings](#) subsection.

## [Configure Automatic Time Settings](#)

Step 1. Click the **Network Time Protocol (NTP)** radio button from the System Clock Source to automatically synchronize the clock with an NTP server.



Step 2. Enter the NTP server host name or IP address in the *NTP Server IPv4/IPv6 Address/Name* field. The use of IP address for this field is not recommended as it can change often. The device receives the time information from the NTP server.

**Note:** A host name can consist of one or more labels, which are sets of up to 63 alphanumeric characters. If a host name includes multiple labels, each is separated by a period. The entire series of labels and periods can be up to 253 characters long.

The number of NTP Server fields may vary according to your WAP. The available number of servers per model are as follows:

- WAP351, WAP131, WAP361, and WAP150 — 4 NTP Servers

**Time Settings**

System Time: Wed., Aug 10, 2016 23:34:46 PDT

System Clock Source:  Network Time Protocol (NTP)  
 Manually

NTP Server 1 IPv4/IPv6 Address/Name: (Max 253 Characters)  
0.ciscosb.pool.ntp.org

NTP Server 2 IPv4/IPv6 Address/Name: (Max 253 Characters)  
1.ciscosb.pool.ntp.org

NTP Server 3 IPv4/IPv6 Address/Name: (Max 253 Characters)  
2.ciscosb.pool.ntp.org

NTP Server 4 IPv4/IPv6 Address/Name: (Max 253 Characters)  
3.ciscosb.pool.ntp.org

Time Zone: USA (Pacific)

Adjust Time for Daylight Savings:

Daylight Savings Start: second Sunday in March at 02

Daylight Savings End: First Sunday in November at 02

Daylight Savings Offset: 60 Minutes

Save

- WAP571, WAP571EWAP121, WAP551, WAP561, WAP371, and WAP321 — 1 NTP Server

## Time Settings

System Time: Wed Aug 10 2016 23:45:51 PDT

System Clock Source:
  Network Time Protocol (NTP)
  Manually

NTP Server IPv4/IPv6 Address/Name: 0.ciscosb.pool.ntp.org

Time Zone: USA (Pacific)

Adjust Time for Daylight Savings:

Daylight Savings Start: Second Sunday in March at 02

Daylight Savings End: First Sunday in November at 02

Daylight Savings Offset: 60 Minutes

Save

Step 3. Choose the international time zone in which the WAP operates from the Time Zone drop-down list.

**Note:** In this example, USA (Pacific) is chosen.

Time Zone: USA (Pacific)

Adjust Time for Daylight Savings:

Daylight Savings Start:

Daylight Savings End:

Daylight Savings Offset:

Save

Trinidad and Tobago  
 Tunisia  
 Turkey  
 Turkmenistan  
 Turks & Caicos Islands  
 Tuvalu  
 Uganda  
 Ukraine  
 Ukraine (Simferopol)  
 United Arab Emirates  
 United Kingdom  
 Uruguay  
 US Virgin Islands  
 USA (Alaska)  
 USA (Aleutian Islands)  
 USA (Arizona)  
 USA (Central)  
 USA (Eastern)  
 USA (Mountain)  
 USA (Pacific)

Step 4. (Optional) To adjust the system time for Daylight Saving Time (DST), check the **Adjust Time for Daylight Savings** check box. Once you check this, additional fields appear to let you choose the date and time to start and end DST.

**Note:** Day light saving is followed only in some countries. This option will not appear if you choose a country from the time zone list which does not use daylight saving.

Adjust Time for Daylight Savings:

Daylight Savings Start: second Sunday in March at 02

Daylight Savings End: First Sunday in November at 02

Daylight Savings Offset: 60 Minutes

Save

**Note:** If you did not check the Adjust Time for Daylight Savings check box, skip to [Step 8](#).

Step 5. In the Daylight Savings Start area, choose the day, time, and month on which the Daylight Saving period starts from the respective drop-down lists.

Daylight Savings Start: second Sunday in March at 02 : 00

Daylight Savings End: First Sunday in November at 02 : 00

Daylight Savings Offset: 60 Minutes

Step 6. In the Daylight Savings End area, choose the day, time, and month on which the Daylight Saving period ends from the respective drop-down lists.

Daylight Savings Start: second Sunday in March at 02 : 00

Daylight Savings End: First Sunday in November at 02 : 00

Daylight Savings Offset: 60 Minutes

Step 7. From the Daylight Savings Offset drop-down list, choose the number of minutes to add while daylight saving time is in progress.

Daylight Savings Start: second Sunday in March at 02 : 00

Daylight Savings End: First Sunday in November at 02 : 00

Daylight Savings Offset: 60 Minutes

[Step 8](#). Click **Save** to save the configuration.

### Time Settings

System Time: Wed Aug 10 2016 23:45:51 PDT

System Clock Source:  Network Time Protocol (NTP)  
 Manually

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NTP Server IPv4/IPv6 Address/Name:  (xx /Ho

Time Zone:  ▼

Adjust Time for Daylight Savings:

Daylight Savings Start:  ▼  ▼ in  ▼ at  ▼

Daylight Savings End:  ▼  ▼ in  ▼ at  ▼

Daylight Savings Offset:  ▼ Minutes

You should now have automatically configured the time settings on your WAP.

## [Configure Manual Time Settings](#)

Step 1. Click the **Manually** radio button in the System Clock Source to set the system time manually.

### Time Settings

System Time: Wed., Aug 10, 2016 23:34:46 PDT

System Clock Source:  Network Time Protocol (NTP)  
 Manually

Step 2. (Optional) Click **Cloning** next to the Clone PC Time to clone the system time settings from your local PC.

Clone PC Time:

System Date:  ▼ /  ▼ /  ▼ (MM/DD/YYYY)

System Time:  ▼ :  ▼ (HH:mm)

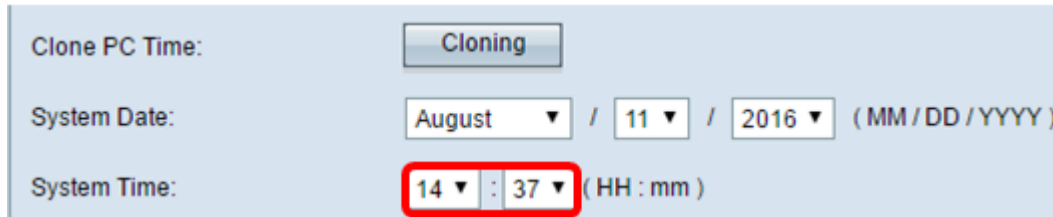
Step 3. From the System Date drop-down lists, choose the month, day, and year.

Clone PC Time:

System Date:  ▼ /  ▼ /  ▼ (MM/DD/YYYY)

System Time:  ▼ :  ▼ (HH:mm)

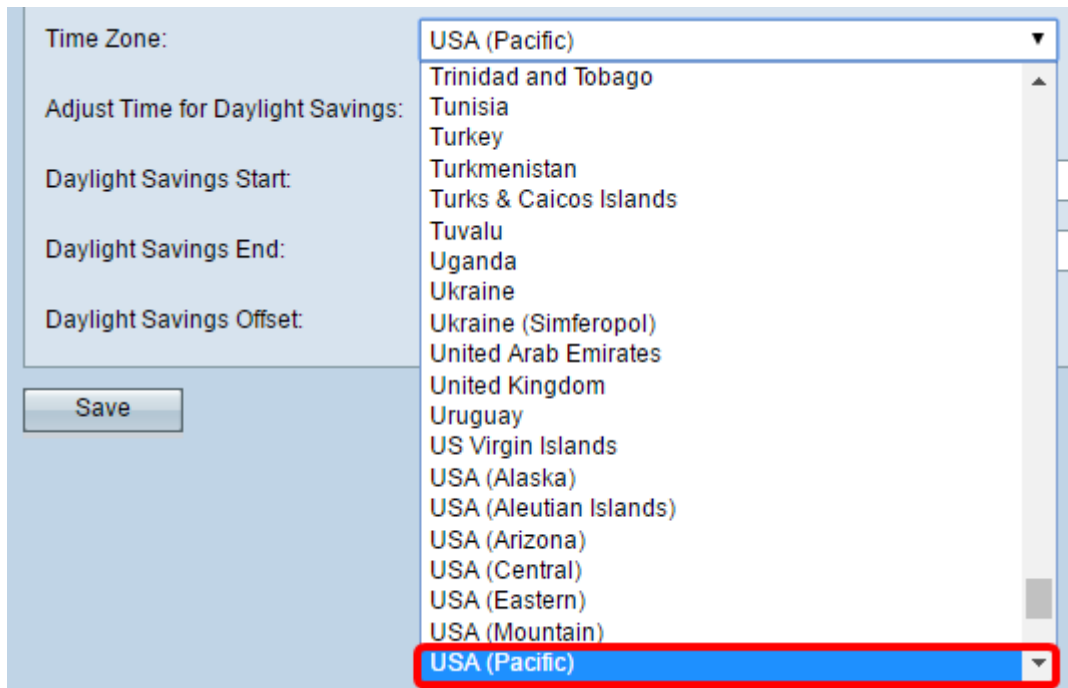
Step 4. From the System Time drop-down lists, choose the hours and minutes. All times are relative to the local time zone.



The screenshot shows a configuration window with a 'Cloning' button. Below it, the 'System Date' is set to 'August / 11 / 2016 (MM/DD/YYYY)'. The 'System Time' is set to '14 : 37 (HH : mm)', with the hour and minute dropdowns highlighted by a red box.

Step 5. From the Time Zone drop-down list, choose the international time zone in which the access point operates.

**Note:** In this example, USA (Pacific) is chosen.



The screenshot shows a 'Time Zone' dropdown menu with 'USA (Pacific)' selected and highlighted by a red box. The dropdown list includes various international time zones such as Trinidad and Tobago, Tunisia, Turkey, Turkmenistan, Turks & Caicos Islands, Tuvalu, Uganda, Ukraine, Ukraine (Simferopol), United Arab Emirates, United Kingdom, Uruguay, US Virgin Islands, USA (Alaska), USA (Aleutian Islands), USA (Arizona), USA (Central), USA (Eastern), and USA (Mountain). Other fields like 'Adjust Time for Daylight Savings', 'Daylight Savings Start', 'Daylight Savings End', and 'Daylight Savings Offset' are visible but not active. A 'Save' button is located at the bottom left.

Step 6. (Optional) To adjust the system time for Daylight Saving time (DST), check the Adjust Time for Daylight Savings check box. Once you check this, additional fields appear to let you choose the date and time to start and end DST.

**Note:** Day light saving is followed in some countries. This option will not appear if you choose a country from the time zone list which does not use day light saving.

## Time Settings

System Time:	Wed., Aug 10, 2016 23:34:46 PDT
System Clock Source:	<input type="radio"/> Network Time Protocol (NTP) <input checked="" type="radio"/> Manually
Clone PC Time:	<input type="button" value="Cloning"/>
System Date:	August / 11 / 2016 (MM/DD/YYYY)
System Time:	14 : 37 (HH:mm)
Time Zone:	USA (Pacific)
Adjust Time for Daylight Savings:	<input checked="" type="checkbox"/>
Daylight Savings Start:	second Sunday in March at 02 : 00
Daylight Savings End:	First Sunday in November at 02 : 00
Daylight Savings Offset:	60 Minutes
<input type="button" value="Save"/>	

**Note:** If you did not check the Adjust Time for Daylight Savings, then skip to [Step 10](#).

Step 7. In the Daylight Savings Start area, choose the day, time, and month on which the Daylight Saving period starts from the respective drop-down lists.

Daylight Savings Start:	second Sunday in March at 02 : 00
Daylight Savings End:	First Sunday in November at 02 : 00
Daylight Savings Offset:	60 Minutes

Step 8. In the Daylight Savings End area, choose the day, time, and month on which the Daylight Savings period ends from the respective drop-down lists.

Daylight Savings Start:	second Sunday in March at 02 : 00
Daylight Savings End:	First Sunday in November at 02 : 00
Daylight Savings Offset:	60 Minutes

Step 9. From the Daylight Savings Offset drop-down list, choose the number of minutes to add while daylight saving time is in progress.

Daylight Savings Start:	second Sunday in March at 02 : 00
Daylight Savings End:	First Sunday in November at 02 : 00
Daylight Savings Offset:	60 Minutes

[Step 10.](#) Click **Save** to save the configuration.

### Time Settings

System Time: Wed., Aug 10, 2016 23:34:46 PDT

System Clock Source:  Network Time Protocol (NTP)  
 Manually

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Clone PC Time:

System Date: August / 11 / 2016 (MM/DD/YYYY)

System Time: 14 : 37 (HH:mm)

Time Zone: USA (Pacific)

Adjust Time for Daylight Savings:

Daylight Savings Start: second Sunday in March at 02 : 00

Daylight Savings End: First Sunday in November at 02 : 00

Daylight Savings Offset: 60 Minutes

You should now have manually configured the time settings on your WAP.