

# 802.1X Time Range Configuration on 300 Series Managed Switches

## Objective

802.1X is an IEEE standard for Port-based Network Access Control (PNAC). It provides an authentication method to devices that are connected to ports. 802.1X is made up of three parts. The user or client, called a supplicant, that wants to be authenticated; the server that does the authentication; and the device in between called an authenticator. Time ranges are used to define a time period at which 802.1x is active on 802.1x enabled ports. This can be useful to limit access to a network at certain times. For example, a network administrator could limit office network access to only business hours. The 300 series switch supports up to 20 absolute time ranges.

For a time range to take effect, it must be bound to a port through the *Port Authentication* page. Refer to the article [802.1X Port Authentication Configuration on 200/300 Series Managed Switches](#) for more information.

This article explains how to configure absolute and recurring time ranges on the 300 Series Managed Switches.

## Applicable Devices

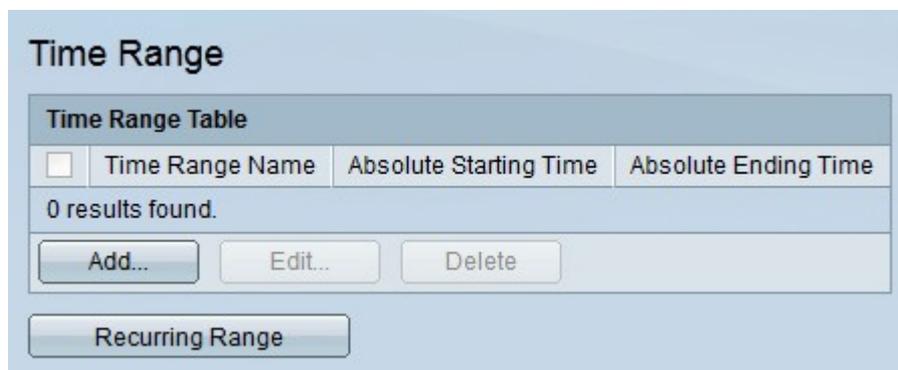
- SF/SG 300 Series Managed Switches

## Software Version

- 1.3.0.62

## Absolute Time Range Configuration

Step 1. Log in to the web configuration utility and choose **Security > 802.1X > Time Range**. The *Time Range* page opens:



Time Range Table				
<input type="checkbox"/>	Time Range Name	Absolute Starting Time	Absolute Ending Time	
0 results found.				
Add...			Edit...	Delete
Recurring Range				

Step 2. Click **Add**. The *Add Time Range* window appears.

⚙ Time Range Name:  (14/32 Characters Used)

Absolute Starting Time:  Immediate  
 Date    Time   HH:MM

Absolute Ending Time:  Infinite  
 Date    Time   HH:MM

Step 3. Enter the name for the time range in the Time Range Name field.

Step 4. Click the radio button that corresponds to the desired start time in the Absolute Starting Time field.

- Immediate — The time range starts from the time when it is created.
- Date and Time — Choose the start time from the drop-down list.

Step 5. Click the desired radio button that corresponds to the desired end time in the Absolute Ending Time field.

- Infinite — The time range is infinite and never ends.
- Date and Time — Choose the end time from the drop-down list.

Step 6. Click **Apply**. The time range is created.

**Time Range**

Time Range Table			
<input type="checkbox"/>	Time Range Name	Absolute Starting Time	Absolute Ending Time
<input type="checkbox"/>	Business Hours	2013-Jan-08 12:00:00	2014-Jan-01 00:00:00

Step 7. To edit a time range, check the check box of the time range you wish to edit and click **Edit**.

Step 8. To delete a time range, check the check box of the time range you wish to delete and click **Delete**.

## Recurring Range Configuration

A recurring range is a time range that is configured alongside an absolute time range. It is used to further define when 802.1x is active on an 802.1x enabled port. A port is only considered active if both the absolute and recurring time ranges have been met.

Step 1. Log in to the web configuration utility and choose **Security > 802.1X > Recurring Range**. The *Recurring Range* page opens:

### Recurring Range

Recurring Range Table	
Filter: <i>Time Range Name</i> equals to	Business Hours <input type="button" value="Go"/>
<input type="checkbox"/> Recurring Starting Time	Recurring Ending Time
0 results found.	
<input type="button" value="Add..."/>	<input type="button" value="Delete"/>
<input type="button" value="Time Range"/>	

Step 2. From the Time Range Name equals to drop-down list, choose the desired absolute time range that you want to apply a recurring range to.

Step 3. Click **Go**. The recurring ranges that have been applied to the specified time range are displayed.

Step 4. Click **Add**. The *Add Recurring Range* window appears.

Time Range Name:	Business Hours		
Recurring Starting Time:	Day of the Week	Mon <input type="button" value="v"/>	Time 08 <input type="button" value="v"/> 00 <input type="button" value="v"/> HH:MM
Recurring Ending Time:	Day of the Week	Fri <input type="button" value="v"/>	Time 17 <input type="button" value="v"/> 00 <input type="button" value="v"/> HH:MM
<input type="button" value="Apply"/>		<input type="button" value="Close"/>	

Step 5. From the Time Range Name drop-down list choose the time range that the recurring range will apply to.

Step 6. Configure the start time of the recurring range from the Day of the Week and Time drop-down list in the Recurring Starting Time field.

Step 7. Configure the end time of the recurring range from the Day of the Week and Time drop-down list in the Recurring Ending Time field.

Step 8. Click **Apply**. The recurring range is added to the time range.

### Recurring Range

Recurring Range Table	
Filter: <i>Time Range Name</i> equals to	Business Hours <input type="button" value="Go"/>
<input type="checkbox"/> Recurring Starting Time	Recurring Ending Time
<input type="checkbox"/> Mon, 08:00:00	Fri, 17:00:00
<input type="button" value="Add..."/>	<input type="button" value="Delete"/>
<input type="button" value="Time Range"/>	

Step 9. To delete a recurring range, check the check box of the recurring range you wish to delete and click **Delete**.