

The Advanced Features provides the ability to time from a NPT timing source. There are two options to setup NPT timing:

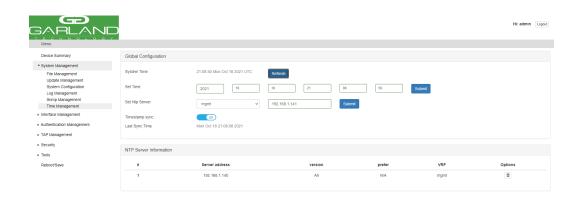
**Basic NTP Timing** 

**Authenticated NTP Timing** 

## **Basic NTP Timing**

- 1. Login to the Advanced Features unit, (admin/gtadmin1).
- 2. Select System Management.
- 3. Select Time Management.
- 4. Set NTP Server, enter the IP Address.
- 5. Select Submit.
- 6. Enable Timestamp sync.

The Global Configuration and NTP Server Information will be displayed.



Additional NTP Servers may be applied by repeating Steps 4 and 5. The first NTP server added will be the highest priority, #1. Additional NTP servers added will be #2, #3 etc.



## **Authenticated NTP Timing**

Connect to the Advanced Features unit. A connection to the unit may be established using two options:

Directly connected to the Console Interface to COM Port using Putty/Serial connection.

Connected via the IP Management Interface using Putty/SSH connection.

- 1. Press the Return key.
- 2. Enter enable.
- 3. Enter configure terminal.
- 4. Enter the following command to configure the minimum distance between the unit and the NTP server. The default is 1ms, (X=1ms to 1000ms).

```
Switch(config)# ntp minimum-distance X
```

5. Enter the following command to define the NTP server IP address (xxx.xxx.xxx), define the NTP protocol version (Y=1,2,3), define the authentication key (Z=1-64000) and define as the preferred server (prefer).

```
Switch(config)# ntp server mgmt-if XXX.XXX.XXX version Y key Z prefer
```

6. Enter the following command to enable/disable NTP authentication.

```
Switch(config)# ntp authentication enable / disable
```

7. Enter the following command to create a NTP key ID (X=1-64000) and define the key value (Y=key string).

```
Switch(config)# ntp key X Y
```

8. Enter the following command to authenticate the NTP server identity (X=1-64000).

```
Switch(config)# ntp trustedkey X
```

9. Enter the following command to display the NTP server configuration.

```
Switch# show ntp
```

10. Enter the following command to display the NTP status.

```
Switch# show ntp status
```

11. Enter the following command to display the NTP statistics.

```
Switch# show ntp statistics
```

12. Enter the following command to display the NTP associations.

```
Switch# show ntp associations
```

13. Enter the following command to display the NTP Key(s).

```
Switch# show ntp key
```





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14. Enter the following command to clear the NTP statistics.

Switch# clear ntp statistics