

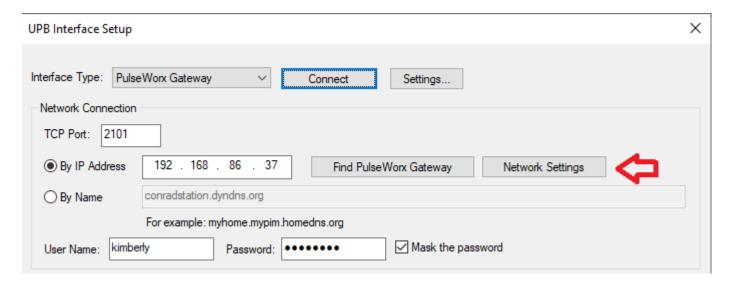
PulseWorx Gateway automatic time setting

Starting in PulseWorx Gateway firmware 2.4 a new feature was added to periodically contact an internet time server and update the Gateway internal clock. This will help ensure accurate schedule execution as the Gateway clock may "drift" after it has been powered on for a while.

Note: The UPB configuration program UPStart version 8.3.25 or later must be used to configure the Gateway for this.

Gateway configuration

Step 1: Configure some of the Gateway's internet settings. These are in the Interface selection dialog after using the "Network Settings" button and then "Advanced Settings".









Gateway Network Settings	×
The Gateway is assigned an address by a DHCP server - usually your router	
The Gateway is asigned the address you enter here. The values enetred depend upon how your network is configured	
Static Address: 0 . 0 . 0 . 0 For example: 192.168.0.200	
Subnet Mask: 0 . 0 . 0 . 0 For example: 255.255.255.0	
Network Gateway (Router): 0 . 0 . 0 . 0 For example: 192.168.0.1	
The default network port is 2101 but you can change it to different port number Network Port: 2101 OK Cancel Advanced Settings	

Gateway Advanced Network Settings	×
Note: These settings shouldn't be modified unless instructed to by Technical Suppor	t
DNS: 8 . 8 . 8	
Secondary DNS: 8 . 8 . 4 . 4	
MAC Address: 00 40 9d 88 b2 a6	
HTTP port: 80	
IP for HTTP Post: 192 . 168 . 86 . 35	
Port for HTTP Post: 80	
OK Cancel	

Use any DNS that works for you and you are familiar with.

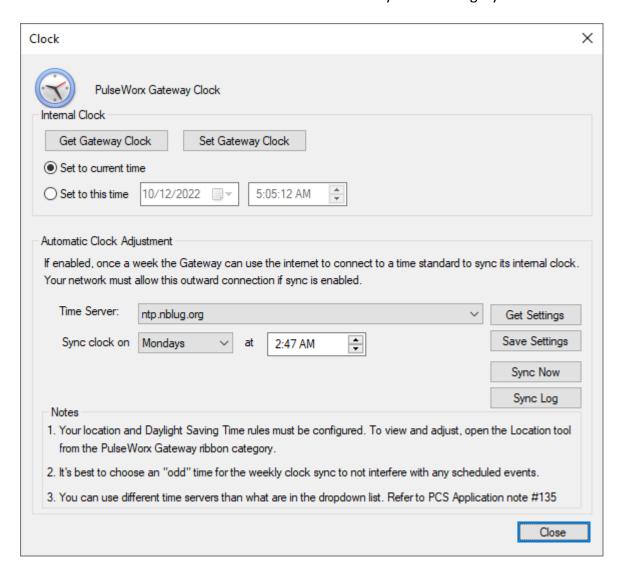






Step 2: Configure time server and day/time for the sync

Select the "Time" tool in the UPStart PulseWorx Gateway ribbon category.

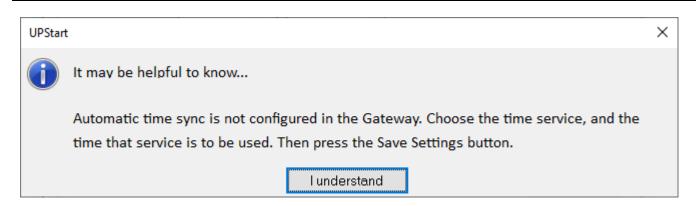


Press the "Get Settings" button to retrieve the current configuration from the Gateway. If this is the first time you are configuring the time sync, a popup tells you this:





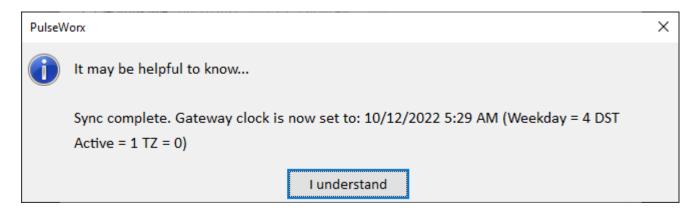




Choose a time server, the day of the week to sync, and the time to do that. It is best to choose a day and time when you expect the Gateway to be idle: when probably no UPB network activity is happening and not in propinquity to any scheduled event.

Press the "Save Settings" button to write your selections into the Gateway.

You can also use the "Sync Now" button to test the settings. A connection is made to the time server and the Gateway clock updated. If the sync failed a message displays, otherwise the updated clock settings display.



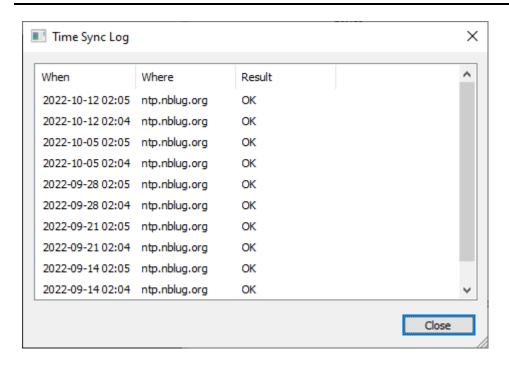
Note: Time servers can be difficult. Some work great for users located in one area and others not so much. If you are having problems, just try a different time server.

Anytime you would like to see how the Time Sync has worked, use the "Sync Log" button. This reports on the last few time syncs.









Additional time servers

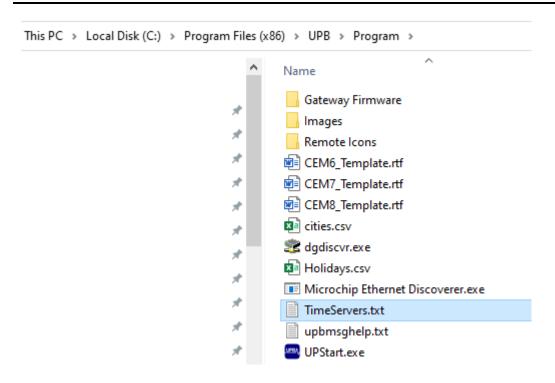
The Time Sync dialog contains only a very few time server choices. If you are familiar with internet time servers and would like to use a different one, here is the procedure.

First locate this file in the UPStart installation:









Copy the file to someplace where you can edit, it as Windows security will not let you edit the file directly from a location below "Program Files". This file is in a simple format:

```
//
// These all come from this list: https://support.ntp.org/bin/view/Servers/StratumTwoTimeServers
// To add another, just add the host name as a separate line
//
ntp.nblug.org
e.time.steadfast.net
time1.nv.skyfiberinternet.com
a.time.steadfast.net
time.btr.net
time.nist.gov
```

As the first few lines in the file say, go to the referenced internet page, find the time server you want – choose only the "open" ones – and get its host name and add to the file. Save the file and replace the file in the UPStart installation. Windows will complain, so tell it that it is ok and to allow the file replacement. Now restart UPStart and it will offer the new time server as a choice.

##end##



