

Day Time Server Changes – Energy Tracking

Dated: November 1, 2017

Updated: November 16th 2017

Models Affected: ALL

History: Energy Tracking's metering technology originally used SNTP servers for time synchronization. On rare occasions, the resulting date / time stamp would be incorrect. So, a backup module was designed to use the Day Time protocol to validate the date and time.

Problems & Fix:

- a. Several SNTP and Day Time Servers were terminated by nist.gov causing a timeout in the meter resulting it to reboot.

This issue was exacerbated if the option "Force Day Time Sych" was checked / enabled. Note: The DNS to many servers was executed successfully but the connection would timeout. Also, with the proliferation of IoT devices is resulting in congestion and high traffic.

- b. Server List <http://tf.nist.gov/tf-cgi/servers.cgi> for future reference.
- c. Bug fix: The Day Time Servers could be manually changed but upon a meter reboot, these changes would revert back to the original servers.

Solution:

1. Upgrade to the latest firmware. This is an important upgrade. The firmware upgrade version 115117_MX3_TB for the WEM-MX 333mV meters will automatically upgrade the SNTP and Day Time Servers.
2. Verify upgrade of SNTP Server 2. Path: [Setup >> Main Configuration](#).

SNTP And Time Zone Setup:	
Enable SNTP	<input checked="" type="checkbox"/> Enable Time Synch
Server 1	0.us.pool.ntp.org
Server 2	time-b-wwv.nist.gov

Server 2: time-b-wwv.nist.gov

Note: You are free to choose other NTP Servers. However, SNTP Server 2 must support both NTP and Day Time protocols.

3. Verify upgrade of the Day Time Servers. Path: Setup >> Setup DayTime Servers.

DayTime Servers Setup	
Server 1:	time.nist.gov
Server 2:	time-c.nist.gov
Server 3:	time-d-wwv.nist.gov
Server 4:	time-d.nist.gov
Server 5:	utcnist.colorado.edu
<input type="button" value="Submit"/> <input type="button" value="Cancel"/>	

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Note: You are free to choose other Day Time Servers.