

How To Set Up Meinberg Time Server Monitor

Typinski, Oct, 2019

Here is a Quick Start guide to getting up Meinberg Time Server Monitor software on a PC.

PROCEDURE

Short Version

Intended for users already familiar with the software

Install the software and make the screens look like those pictured on the following pages. The ntp.conf file in use on all AJ4CO Observatory computers is shown for reference after the screen shots.

NOTE:

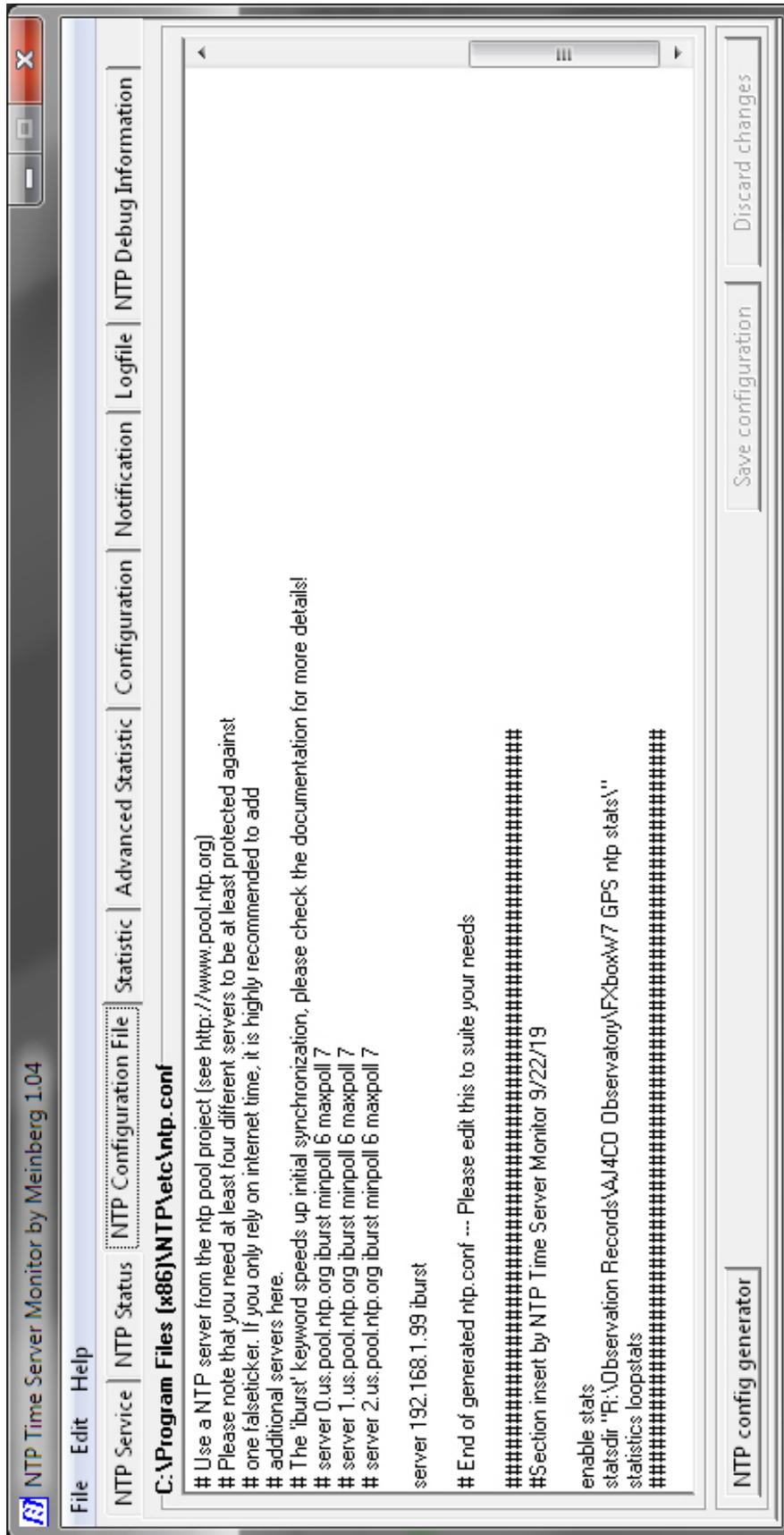
On Windows 7 and above, the Meinberg Time Server Monitor *must* be started via “Run as Administrator.” If not, neither the changes made to the ntp.conf file through the Time Server Monitor nor the changes in the Time Server Monitor’s configuration tab will be saved. On Windows XP machines, the software works as intended without elevated privileges.

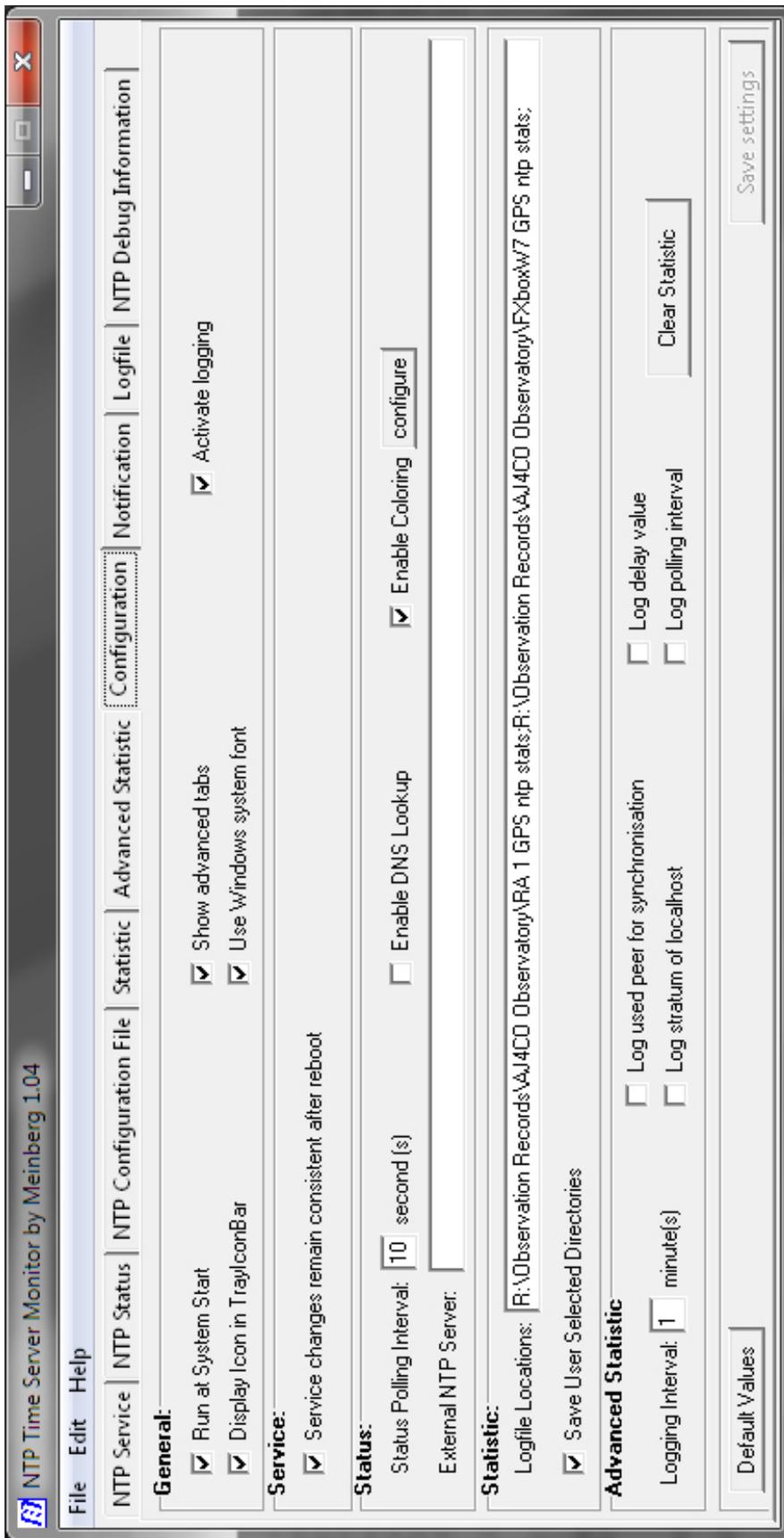
Detailed Version

Intended for users unfamiliar with the software, provided step-by-step instructions

Follow the instructions here:

[http://www.reeve.com/Documents/Articles Papers/Reeve_NTP-MeinMon_Install.pdf](http://www.reeve.com/Documents/Articles%20Papers/Reeve_NTP-MeinMon_Install.pdf)





NTP Time Server Monitor by Meinberg 1.04

File Edit Help

NTP Service NTP Status NTP Configuration File Statistic Advanced Statistic Configuration Notification Logfile NTP Debug Information

Service information:
 NTP version: ntpd 4.2.8p12@1.3728-o Aug 15 17:32:51 (UTC+02:00) 2018 (2)
 Service name: NTP
 Display name: Network Time Protocol Daemon
 Description: Synchronizes the local system clock to a reference time source and (eventually) provide this time to NTP and/or SNTP clients
 Path to EXE: C:\Program Files (x86)\NTP\bin\ntpd.exe -U 3 -M -g -c "C:\Program Files (x86)\

Log on as: ntp
 Service Status: **Started**
 Service Start Type: **Automatically**
 ntpsvcio.dll version: 120

Service configuration:
Control service:
 Start Type: Automatically
 Start NTP service
 Restart NTP service
 Stop NTP service
 Settings

Service information:
 Application Log



NTP Time Server Monitor by Meinberg 1.04

File Edit Help

NTP Service **NTP Status** NTP Configuration File Statistic Advanced Statistic Configuration Notification Logfile NTP Debug Information

Localhost

Current local NTP Status: Sync to: 192.168.1.99 Offset: 0.008ms Stratum: 2 Refresh Interval: 10 s

NTP Status:

Remote	Refid	Stratum	Type	When Poll	Reach	Delay	Offset	Jitter	
* 192.168.1.99	KPPS	1	Unicast server	565	1024	377	0.977	0.008	0.977

Polling Status: Running NTP Version: ntpd 4.2.8p12@1.3728-o Aug 15 17:32:51 [UTC+02:00] 2018 (2) DNS lookup Legend

```

# NTP Network Time Protocol
# **** ATTENTION ****: *You have to restart the NTP service when you change
this file to activate the changes*
# PLEASE CHECK THIS FILE CAREFULLY AND MODIFY IT IF REQUIRED
# Configuration File created by Windows Binary Distribution Installer Rev.:
1.27 mbg
# please check http://www.ntp.org for additional documentation and background
information
# restrict access to avoid abuse of NTP for traffic amplification attacks
# see http://news.meinberg.de/244 for details
restrict default noquery nopeer nomodify notrap
restrict -6 default noquery nopeer nomodify notrap

# allow status queries and everything else from localhost
restrict 127.0.0.1
restrict -6 ::1

# if you need to allow access from a remote host, you can add lines like
this:
# restrict <IP OF REMOTE HOST>

# Use drift file
driftfile "C:\Program Files (x86)\NTP\etc\ntp.drift"

# your local system clock, could be used as a backup
# (this is only useful if you need to distribute time no matter how good or
bad it is)
#server 127.127.1.0
# but it should operate at a high stratum level to let the clients know and
force them to
# use any other timesource they may have.
#fudge 127.127.1.0 stratum 12

# Use a NTP server from the ntp pool project (see http://www.pool.ntp.org)
# Please note that you need at least four different servers to be at least
protected against
# one falseticker. If you only rely on internet time, it is highly
recommended to add
# additional servers here.
# The 'iburst' keyword speeds up initial synchronization, please check the
documentation for more details!
# server 0.us.pool.ntp.org iburst minpoll 6 maxpoll 7
# server 1.us.pool.ntp.org iburst minpoll 6 maxpoll 7
# server 2.us.pool.ntp.org iburst minpoll 6 maxpoll 7

server 192.168.1.99 iburst

# End of generated ntp.conf --- Please edit this to suite your needs

#####
#Section insert by NTP Time Server Monitor 9/22/19

enable stats
statsdir "R:\Observation Records\AJ4CO Observatory\FXboxW7 GPS ntp stats\"
statistics loopstats
#####

```