Meinberg NTP

The free Meinberg NTP synchronizes the computer clock time to Network Time Protocol (NTP) servers on the internet. <u>https://www.ntppool.org/en/</u>

Amateur radio digital modes such as WSPR, JT65 and FT8 etc are timesynchronous and require the PC computer clock to have accurate time to within 1 second.

When using computer clock synchronization software disable the Windows Time Service otherwise it is possible that conflicts could occur.

Check that the time zone configuration of the computer is correct.

The accuracy of a computer clock can be checked on..... https://time.is



Your clock is 0.2 seconds behind.

Accuracy of synchronization was ±0.177 seconds. Time in Manila, Philippines now:

Any previously installed NTP Client/Server software should be uninstalled prior to the installation and configuration of Meinberg NTP.

Meinberg NTP can be downloaded from

https://www.meinbergglobal.com/english/sw/ntp.htm

To download click on.....and after downloading click on the M icon to install.

ntp-4.2.8p15-v2-win32-setup.exe (4.29 MB) 24 February 2021
NTP package with IPv6 support for Windows XP and newer



The current stable NTP version can be used with current 32 and 64 bit Windows versions (Windows XP and newer).

After clicking the M install icon, Meinberg NTP will start to be installed on the computer.

License Agreement.

Choose Install Location, choose the Destination Folder.



Choose Components – I left boxes as found (ticked)

Choose Components		[na		
Choose which features of Netv	vork Time Protocol you want to ins	tall.		
Check the components you wa install. Click Next to continue.	nt to install and uncheck the comp	onents you don't want to		
Select components to install:	Components NTP Daemon NTP Tools NTP Documentatic Create Startment	Description Position your mouse over a component to see its description.		
Space required: 6.2MB	< +			
Nullsoft Install System v2 46				

Configuration of file settings, I chose Asia as the NTP server.

nes nu	ave been installed	
Please :	specify your configuration settings	[]]]
Confi	guration File Settings	
Loca	ation of configuration file:	
C:\	Program Files (x86)\NTP\etc\ntp.conf	
	Asia	-
	You can specify up to 9 NTP servers (comma separated) you want to use:	-
	Vise fast initial sync mode (iburst)	
	Add local clock as a last resort reference. Stratum: 12	
llsoft In:	stall System v2.46	

Clicking Yes will open Notepad

Network Time Protocol Setup	
Do you want to review the generate settings)?	ed config file (to check it or apply additional
	Yes No

Close Notepad.

ntp.conf - Notepa	id	
File Edit Format	View Help	Close
server 0.asia.po server 1.asia.po server 2.asia.po server 0.us.poo server 1.us.poo server 2.us.poo	ool.ntp.org iburst minpoll 6 maxpo ool.ntp.org iburst minpoll 6 maxpo ool.ntp.org iburst minpoll 6 maxpo I.ntp.org iburst minpoll 6 maxpoll I.ntp.org iburst minpoll 6 maxpoll I.ntp.org iburst minpoll 6 maxpoll	oll 7 oll 7 oll 7 7 7 7

Setting up NTP Service, select Use SYSTEM account, I left all the boxes as ticked.

Setting up NTP service		[na]
Please specify your service settings		101
NTP Service Settings		
Create and use a special NTP a	account	
🕐 Use existing account		
Our State of the state of th		
V Start NTP service automatically	<i>,</i>	
📝 Disable other Time Services eve	entually installed (e.g. W32Tim	e, other NTP flavours)
📝 Start NTP service right after in:	stallation	
📝 Allow big initial timestep (>100	0 secs)	
💟 Enable Multimedia Timer at star	rtup	
Charle Charles Carl		
Check Firewall Settings		
Check Firewall Settings		
Jullsoft Install System v2.46		

Wait until Completing the Network Time Protocol Setup Wizard appears.

M Network Time Pr	otocol Setup: NTP Service Account	
Setting up NTP s Please specify you	ervice [,] service settings	[77]
	Please wait, trying to start NTP Service	
Nullsoft Install System	v2.46	Cancel

Completing the Network Time Protocol Setup Wizard. Finish



Meinberg NTP has now been installed and running on the computer.

To check the status of Meinberg NTP click: Quick NTP Status

The images are taken from Windows 7.

Click Windows Start / All Programs / Meinberg / Network Time Protocol / Quick NTP Status



Quick NTP Status							- 0	×
Checking current status of NTP s remote refid	service st t	witl when	h ntpo poll	ı −p reach	delay	offset	jitter	-
-182.92.12.11 (t 10.137.38.86 +time.neu.edu.cn .PTP. -ott136.hkcable. 223.255.185.2 -38.229.54.9 172.16.21.35 *ntp3.your.org .GPS. +198.255.68.106 164.67.62.194 (Auto-Refresh every 10s CT)	2 u 1 u 2 u 2 u 1 u 2 u RL+C to	64 25 24 64 62 67 Can	64 64 64 64 64 64 cel)	37 77 75 37 37 17	331.954 190.918 174.792 350.895 202.995 175.971	+12.016 -64.614 -54.439 -45.680 -5.386 +24.616	25.876 23.203 16.770 24.811 25.148 7.128	

An asterisk * in the first column marks the server which is currently preferred by the Meinberg NTP, the + character marks servers which could be used if the currently selected time source should become unavailable.

Delay shows the round trip in milliseconds taken between the client PC and the NPT time server. The delay can be quite variable ie depending on the PC's CPU load and the network between the PC and server.

Offset is the difference in milliseconds between the remote server UTC time and the PC time-of-day clock. It is presumed that the remote server has no time error with UTC.

Jitter measured in milliseconds shows how stable is the connection between the PC and the remote server. The more accurate a timing reference, the lower the jitter value.

A column of all zeros means the NTP cannot connect to any servers. Firewall ?

Any problems uninstall Meinberg NTP and reinstall or uninstall and restart the PC.

Don't like or having a problem with Meinberg ?

Other Time Sync programs : BktTimeSync : Dimension 4 : NetTime: Time-Sync : can be found along with NTP (Network Time Protocol) pool project information at....<u>https://www.para.org.ph/docs/network%20time.pdf</u>

This article is a guide to installing Meinberg NTP and there could be errors.

73 de John (age 79) GM4DKO (Scotland) and 4F3EW (Philippines) June 2021

I found there are four decisions to be made when installing Meinberg NTP

Page 3 Configuration of file settings, that is choosing the NTP server.

Page 3 Review config file Yes or No

Page 4 Setting up NTP Service. Select Use SYSTEM account.

Page 5 Finish

All the boxes being left as found (ticked).