

Configuring Meinberg to improve NTP time accuracy in Windows

1. Customer is using Domain Controller and group policy to manage resources and NTP within the GS hardware
 - a. Our lab in Germantown is also set for NTPDC environment.
2. Currently customer has WS32TM registry service providing NTP service reference clock to sync with the DC reference clock
 - a. The lab is using the same setup
3. Downloaded following SW from "Meinbergglobal.com" website
 - a. [ntp-4.2.8p12-win32-setup.exe](#)
4. During Installation, provided following DC FQDN for NTP system reference
 - a. [Dsdc7.ds.jdsu.net](#)
 - b. [Dsdc90.ds.jdsu.net](#)
 - c. [Dsdc72.ds.jdsu.net](#)
5. After SW install Wizard is finished, SW automatically shuts off WS32TM service to stop interference and runs SW timing reference in the background
6. To check the status of NTP timing reference against the system clock, run "Quick NTP Status" from the NTP menu.
7. Following is the window showing NTP server reference with Delay (Round Trip in ms), OFFSET (ms) and Jitter Values. The offset is the value in time difference from system clock to NTP server reference.

a.

```
Checking current status of NTP service with ntpq -p
remote      refid      stratum  uptime  reach  delay  offset  jitter
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dsdc72.ds.jdsu.net 10.106.5.45 3 u 7 64 37 94.784 -1043.9 7.504
dsdc90.ds.jdsu.net 10.106.5.45 3 u 11 64 37 147.228 -1088.7 33.458
dsdc72.ds.jdsu.net 10.106.5.45 3 u 3 64 37 92.872 -1039.9 11.888
(Auto-Refresh every 10s --- CTRL+C to Cancel)
```

Please follow below procedure to download and install Meinberg on the affected GigaStor.

1. Downloaded following SW from “Meinbergglobal.com” website
 1. [ntp-4.2.8p12-win32-setup.exe](#)
2. During Installation, provided IP address/FQDN for NTP system reference
3. After SW install Wizard is finished, SW automatically shuts off WS32TM service to stop interference and runs SW timing reference in the background
4. To check the status of NTP timing reference against the system clock, run “Quick NTP Status” from the NTP menu.

Next Action:

FIDELITY INFORMATION-156107 – Install Meinberg SW as third party NTP source

VIAMI - Gather status post installation