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How to Setup a Remote Time Server (NTP) Host connection to vUSS

December 11, 2014

BACKGROUND

This application note informs you how to setup a remote Time Server (NTP) Host when the networked vUSS machines are not part of a Microsoft Active Directory domain (domain controller that likely maintains time accurately is not present).

PRE-REQUISITES

- Windows Workgroup Environment
- Designated Remote Time Server (NTP) Host
- vUSS Windows network and virtual NVR network must have network connectivity to the remote Time Server (NTP)

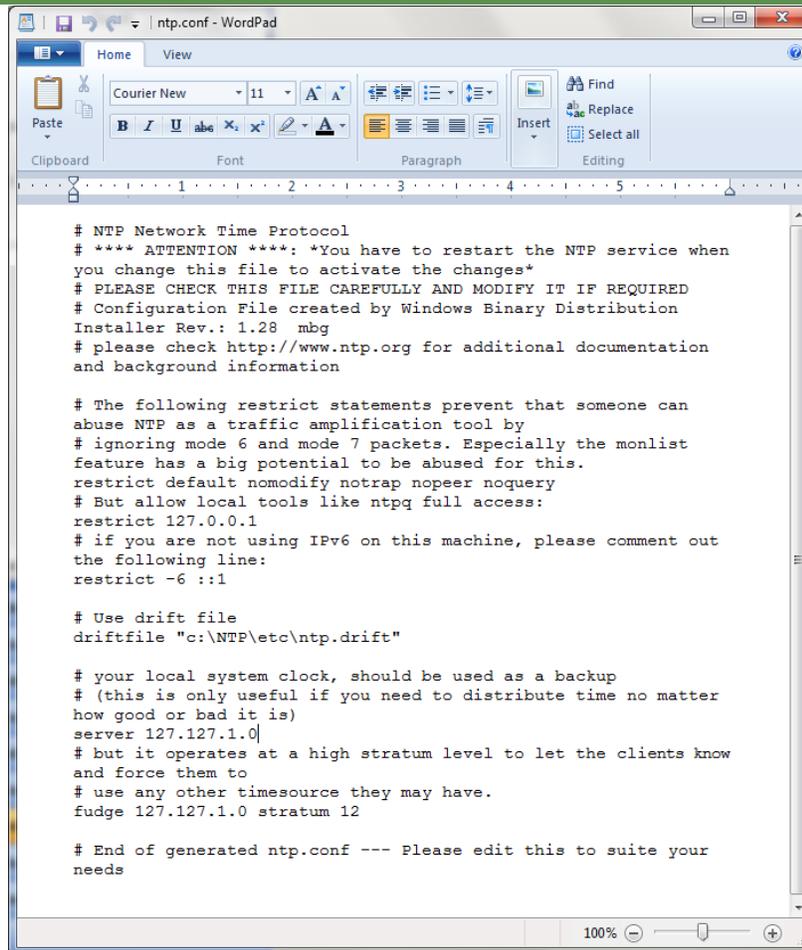
SOLUTION

After successfully configuring the vUSS unit to point to the remote timeserver NTP Host, all of the American Dynamics and Software House products shall utilize it as the timeserver to ensure that the internal clock for all security systems and devices are time synchronized.

Follow the steps outlined below to configure the vUSS to connect to a remote timeserver (NTP) Host:

1. Log onto the vUSS unit with administrator credentials.
2. Open Windows Services and stop the **Network Time Protocol Daemon** service.
3. Open the **NTP configuration file** located in: **C:\NTP\etc\ntp.conf**
 - i) The **ntp.conf** file (shown below) will open in notepad. Change the server IP address from 2 lines (*server 127.127.1.0*) and (*fudge 127.127.1.0*) to the IP address of the remote timeserver NTP Host
 - ii) Close the Notepad file and click "Save"

NB – This allows the NTP application to refer to the remote NTP timeserver instead of using the local system as the NTP server.



```
# 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.: 1.28 mbg
# please check http://www.ntp.org for additional documentation
and background information

# The following restrict statements prevent that someone can
abuse NTP as a traffic amplification tool by
# ignoring mode 6 and mode 7 packets. Especially the monlist
feature has a big potential to be abused for this.
restrict default nomodify notrap nopeer noquery
# But allow local tools like ntpq full access:
restrict 127.0.0.1
# if you are not using IPv6 on this machine, please comment out
the following line:
restrict -6 ::1

# Use drift file
driftfile "c:\NTP\etc\ntp.drift"

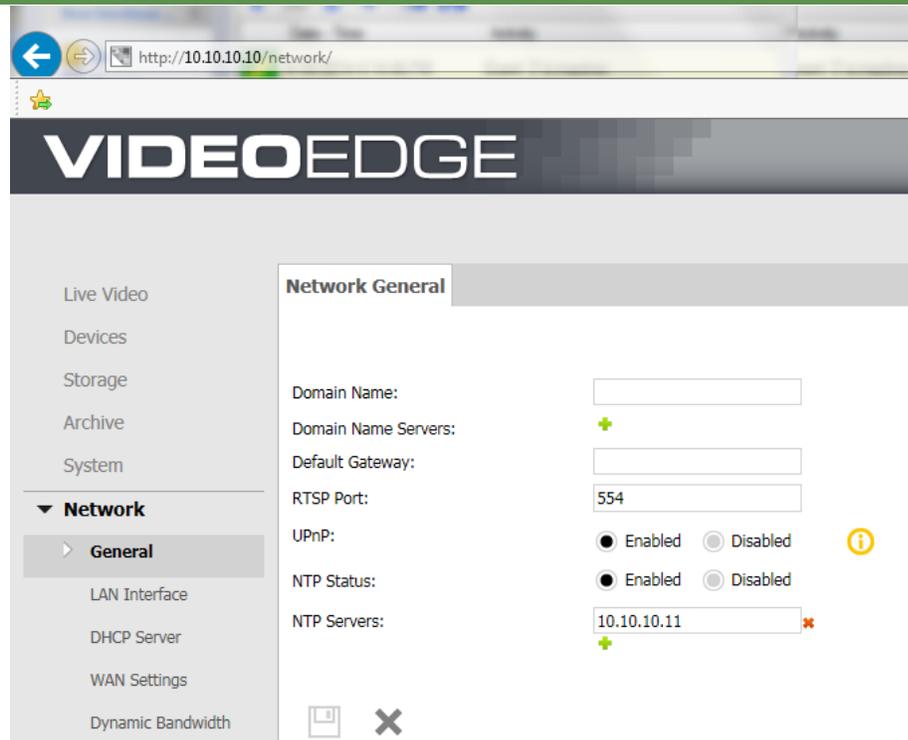
# your local system clock, should be used as a backup
# (this is only useful if you need to distribute time no matter
how good or bad it is)
server 127.127.1.0
# but it operates at a high stratum level to let the clients know
and force them to
# use any other timesource they may have.
fudge 127.127.1.0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

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

4. Open the **VideoEdge Administration Interface** by clicking on the desktop shortcut as shown below:



5. Login
6. Select **Network, General**
7. Change the NTP Server from 10.10.10.11 to the IP Address of the remote timeserver NTP Host and Click the Save button



8. Restart the vUSS unit

KNOWN LIMITATIONS

If the Windows or NVR time is manually changed, a system reboot is recommended to ensure time sync occurs correctly.

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