

Advantech AE Technical Share Document

Date	2018/07/23	SR#	1-3508328831
Category	<input type="checkbox"/> FAQ <input checked="" type="checkbox"/> SOP	Related OS	N/A
Abstract	How to setup Windows OS as SNTP server of WISE-4000 series?		
Keyword	WISE, SNTP, private network, Windows.		
Related Product	WISE-4010LAN, WISE-4050LAN, WISE-4060LAN, WISE-4012, WISE-4012E, WISE-4050, WISE-4051, WISE-4060, WISE-4220-S231		

■ Problem Description:

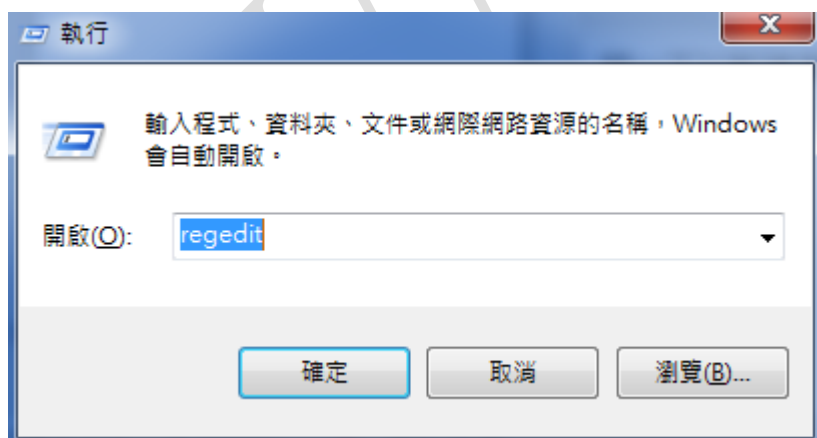
If WISE is not going to use public Network, is it possible to use Windows as SNTP server?

This document is showing how to set up Windows as SNTP server of WISE module.

■ Brief Solution - Step by Step:

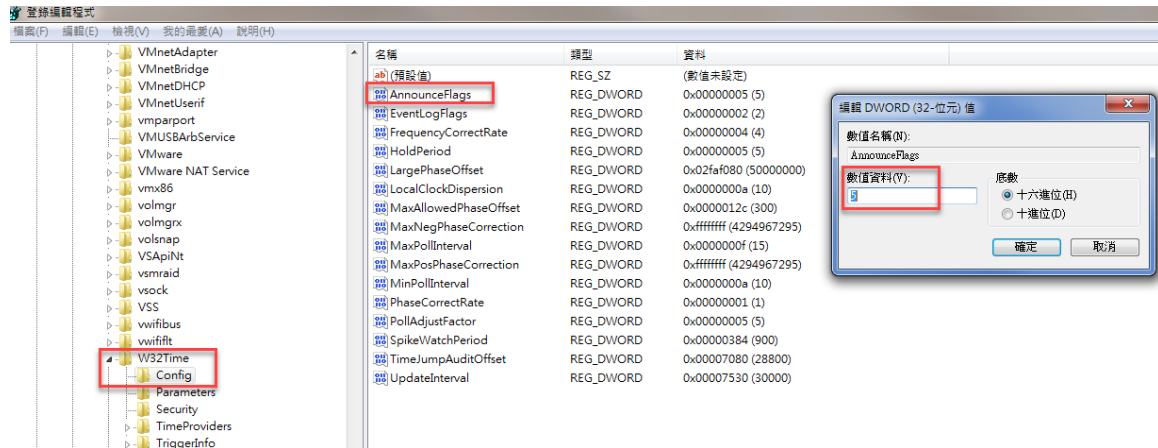
Step 1. Time server setting

- Run Windows command.
- "regedit"

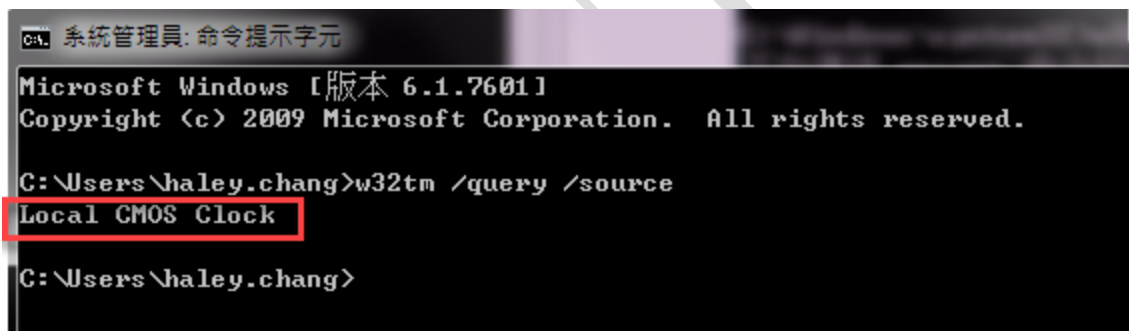


Step 2. To use local CMOS time clock

- Locate registry entry:
 - HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\W32Time\Config\AnnounceFlags
 - Change the value from 10 to 5
- (it means to use local CMOS time clock, KB314054)

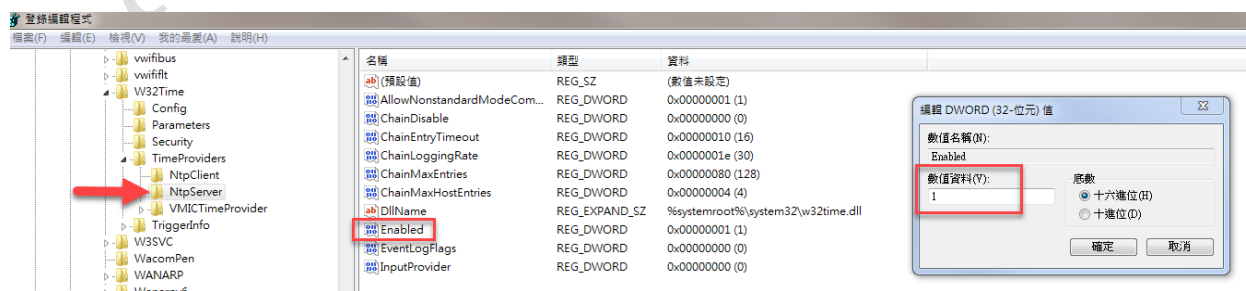


Checking NTP client setup is correct "w32tm /query /source"



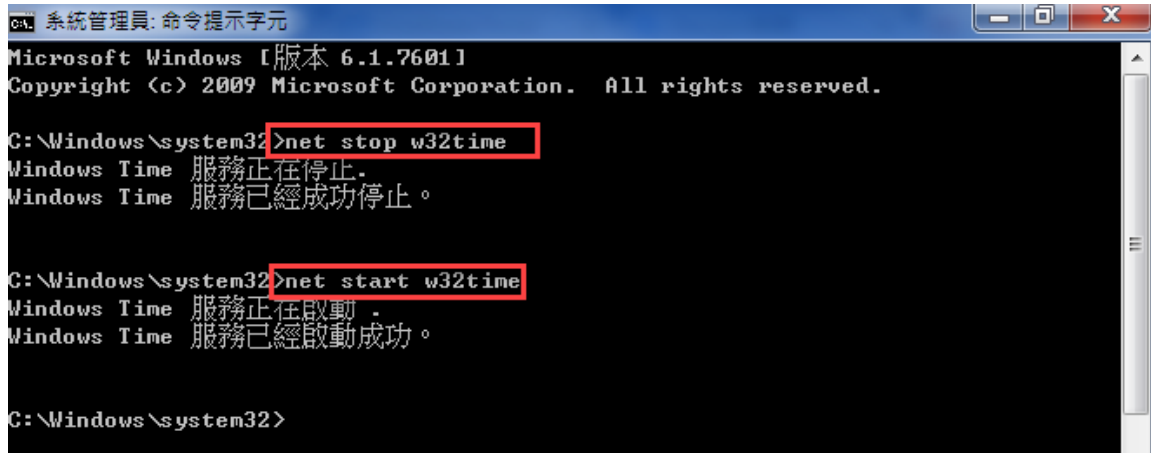
Step 3. Enable NTP server

- Locate registry entry:
 - HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\services\W32Time\TimeProviders\NtpServer
 - Enabled = 1.



Step 4. Run the Windows Time service

- Run Windows command as administrator.
- “net stop w32time”
- “net start w32time”



```
系統管理員: 命令提示字元
Microsoft Windows [版本 6.1.7601]
Copyright (c) 2009 Microsoft Corporation. All rights reserved.

C:\Windows\system32>net stop w32time
Windows Time 服務正在停止。
Windows Time 服務已經成功停止。

C:\Windows\system32>net start w32time
Windows Time 服務正在啟動。
Windows Time 服務已經啟動成功。

C:\Windows\system32>
```

Step 5. Run the NTP server

- Checking on NTP server
 - use command “w32tm /query /configuration” to view if not show “NtpClient <Local>”
- Checking on NTP client
 - use command “w32tm /resync” and “w32tm /query /source” to show if successful

```
C:\Windows\system32>w32tm /query /source
HQDC3.ADVANTECH.CORP

C:\Windows\system32>w32tm /resync
正在傳送 resync 命令給本機電腦
命令已經成功完成。

C:\Windows\system32>w32tm /query /source
HQDC3.ADVANTECH.CORP
```

Step 6. Setup SNTP function on WISE

- Primary SNTP server: the IP of the NTP server, which is the Windows NTP server setup in step 1-5.
- SNTP time polling interval (sec.): counted from the time WISE plugged line power.
 - The moment when WISE is connected with a line power, it will adjust the timing with NTP server. Second adjust timing depends on the polling interval.

WISE-4050

Configuration

Time Sync

Time Synchronization Method: SNTP

Primary SNTP Server: 172.16.12.28 the IP of the NTP server

SNTP Time Polling Interval: 40000 sec

Result

WISE-4050

Configuration

Time & Date

Local Time

Current Time: 2018-07-16T17:21:58

Time Zone: (GMT+08:00) Tai

Time Calibration: 2018-07-16T17

timeanddate.com

Current Local Time in Taipei

09:23:58 CST

Monday, 23 July 2018



WISE-4050

- Information
- Configuration**
- I/O Status
- Advanced

Configuration

- Information
- Wireless
- Network App
- Time & Date
- Time Sync**
- Modbus
- Control
- General
- Cloud
- Firmware
- Account

Time Synchronization

Time Synchronization Method:

SNTP

Primary SNTP Server: the IP of the NTP server

SNTP Time Polling Interval: sec

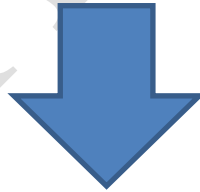
Click on SUBMIT



Please wait for module restart



Page will be redirected after 9 seconds...



WISE-4050

- Information
- Configuration**
- I/O Status
- Advanced

Configuration

- Information
- Wireless
- Network App
- Time & Date**
- Time Sync
- Modbus
- Control
- General
- Cloud
- Firmware
- Account

Local Time

Daylight Saving Time

Local Time

Current Time:

Time Zone:

Time Calibration:

Simply Modbus - E... Warranty L...

損壞的
勞力士手
也可收購

ate.com

K金回收專門店 @ Jewell...

Clock • Time Zones • Calendar • V...

Extended World Clock | Personal World Cl...

es / World Clock / Taiwan / Taipei

ent Local Time in T

09:39:11 CST

Monday, 23 July 2018