



Ref: FAQ-0003

Title – NTP Server information

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Question –

- When Programming the NTP Server details on a Wi5 GPRS hub, can I use an IP Address?
- Is the time shown in the STATUS display correct? – it does not match the local time.
- What does NTP protocol DAYTIME mean ? This appears to be an option in Version 7.4 but not Version 6.6_48k of the Wi5.

Answer –

A. You can use an IP address (in fact, Ethernet hubs only support IP addresses for NTP and SMTP servers)

B. The time standard used by NTP servers is UTC time, you don't get the same time as BST etc, but this does prevent problems when the clocks go forward or back.

FYI: The hub will re-sync its time with the NTP server at midnight every day (provided it can reach the server)

C: There are several 'ports' used to transfer NTP data across the internet – different servers may use different ports/modes

- DAYTIME = port 13
- TIME = port 37
- SNTP = port 123

The ability to change these modes/ports was only introduced from v6.8

If you don't fully understand the concept of 'ports' in IT/Networking/Internet etc, you can think of them as 'channels' over which different types of data are sent.

Firewalls can be set to pass or block these ports/channels and this control the flow of data to and from devices.

Example – when you browse the internet, you'll be using port 80 or port 8080 (HTTP), When you send an email, you'll use port 25 (SMTP), when you check the time, you'll use port 123 (SNTP) etc

Common NTP Servers;

- wi5.hwmonline.com (Our own NTP server) – Uses DAYTIME (SET NTP PROTO 0 Option in Wi5 programming)
- pool.ntp.org (Uses SNTP (SET NTP PROTO 2 Option in Wi5 programming)
- 1.uk.pool.ntp.org (Uses SNTP (SET NTP PROTO 2 Option in Wi5 programming)

A quick Google search for NTP Servers will yield more results,

Document History:

Edition	Date of Issue	Modification	Notes
1st	24 th Oct 2013	1 st Release	n/a