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WIFI Clock setup and configuration

WIFI Connected Clock






Connection details and general information
In addition to standard manuals



Serial Output

Connection between clock and WiFi adapter

This should already be configured with the recommended settings on page 5 and below

Set1 Digit	Set2 Max/Min	Output Reset	Alarms OK	OFF 
Lockouts: off - off			Circuit board ON	
Short Press: Set1 & Output				


	Baud Match with WiFi adapter settings, Recommended 19200
	Data format Match with WiFi adapter settings, Recommended 8n1
	Protocol Set to P2
	Address Match with clock syncing software, Recommended 01
	Time in mS between characters Default 05







Set1 Digit	Set2 Max/Min	Output Reset	Alarms OK	 Done!
 Press to accept				



Manually Setting the Clock

Set the clock to the wrong time, so you can see when it has synced for test purposes

As per RTC setup in fusion H manual page 19.

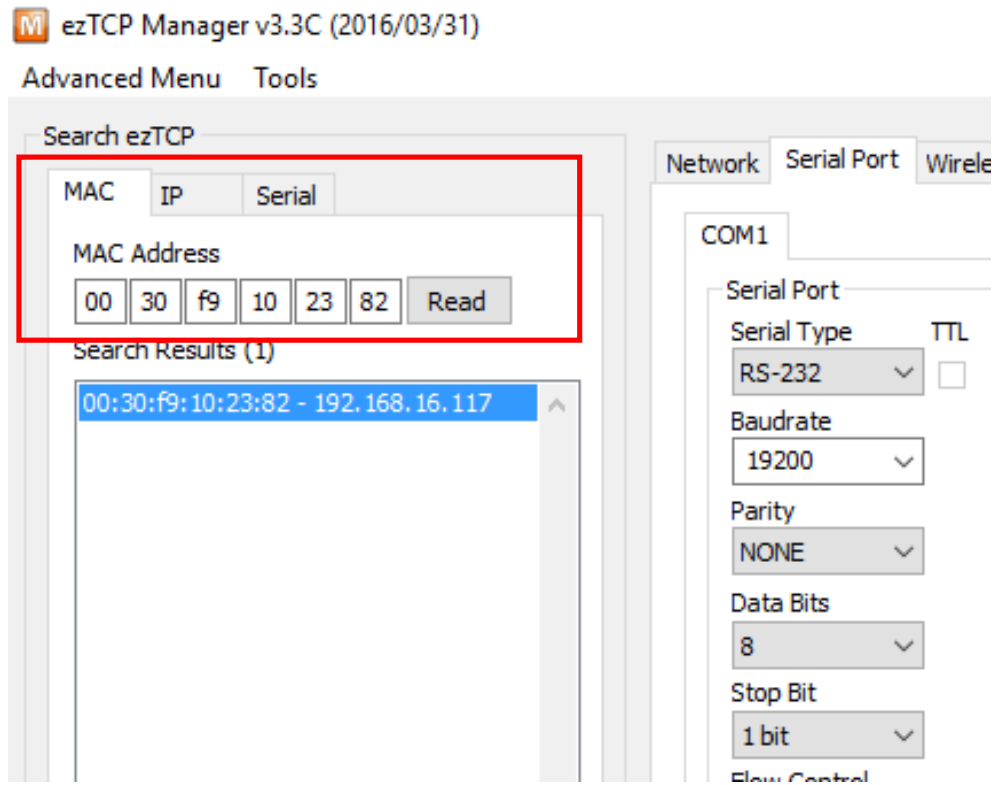
Set1 Digit	Set2 Max/Min	Output Reset	Alarms OK	OFF 
Lockouts: off - off			Circuit board ON	
Long Press: Set1 & Set2 & Output				

	Year Match with WIFI adapter settings, Recommended 19200
	Month Set month 1=Jan, 12=Dec
	Date Set date 1= 1 st , 31= 31 st
	Hours Set the Hours
	Minutes Set the Minutes
	The time will brighten and the 4 LEDs on the right of the display will flash. At exactly 14:59, press the OK button. No menu timeout.

Set1 Digit	Set2 Max/Min	Output Reset	Alarms OK	 Done!
 Press to accept				

Configuring WIFI Connection

Configuring WIFI Adapter settings over WIFI for your Network settings



Open the ezTCP Manager software, Enter the MAC address of the device and click read.

ezTCP Manager v3.3C (2016/03/31)

Advanced Menu Tools

Search ezTCP

MAC IP Serial

MAC Address

00 30 f9 10 23 82 Read

Search Results (1)

00:30:f9:10:23:82 - 192.168.16.117

View Comment

Network Serial Port Wireless LAN Option

COM1

Serial Port

Serial Type TTL

RS-232

Baudrate

19200

Parity

NONE

Data Bits

8

Stop Bit

1 bit

Flow Control

NONE

DTR/DSR

TX Interval

0

Create an ezVSP Port

TCP/IP

Communication Mode

T2S - TCP Server

Peer Address

Peer Port

0

Local Port

1001 TCP Server

Event Byte

0

Timeout

0

Data Frame

Data Frame Interval(10ms)

0

Separator

Separator Length

0

Separator(HEX)

00 00 00 00

Separator Operation

Transmit Separators

Telnet COM Port Control(RFC2217)

Disable TCP Transmission Delay

SSL

Match these settings with Serial output settings of clock – These setting should already be configured as shown on page 2

Standard local port in software config file, 1001

Search All Write Status Simple Test

Network Serial Port Wireless LAN Option

Product CSW-H85 Ver.:2.2A

Network

IPv4

Local IP Address

192 . 168 . 16 . 117

Subnet Mask

255 . 255 . 255 . 0

Gateway IP Address

192 . 168 . 16 . 1

DNS IP Address

192 . 168 . 16 . 3

Use static IP address

Obtain an IP Automatically(DHCP)

Obtain an IP Automatically(PPPoE)

PPPoE ID

PPPoE Password

Obtain DNS Server Address Automatically

Obtain an IP From The First Received Packet

IPv6

Disable

Use static IP address

Obtain an IP Automatically

EUI

MAC Address

Local IP Address

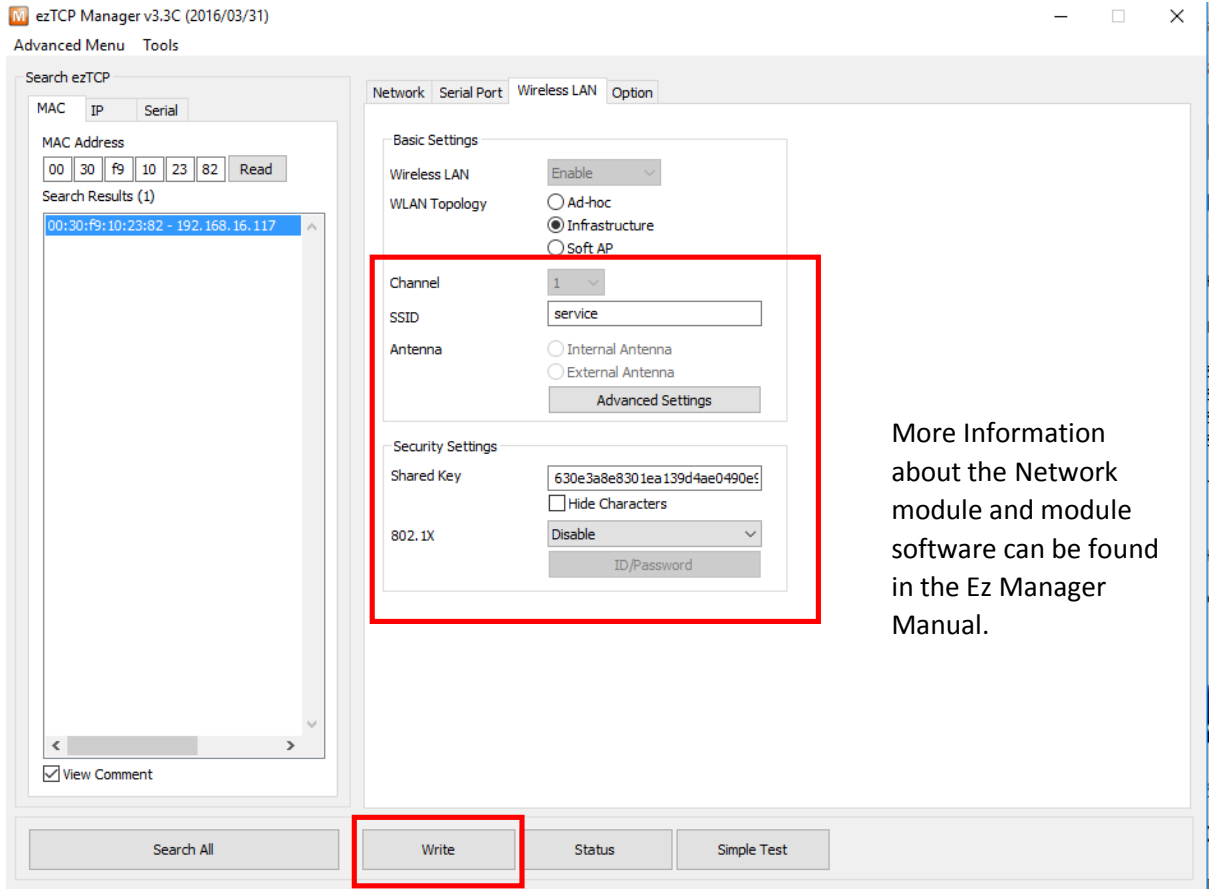
Gateway IP Address

DNS IP Address

Enter network details – Use a Static IP Address

Write Status Simple Test

Enter SSID and Password and click write, make sure you are 100% sure. If the settings are incorrect for your network, you will have to connect to the device via RS232 or modify your network settings to match,

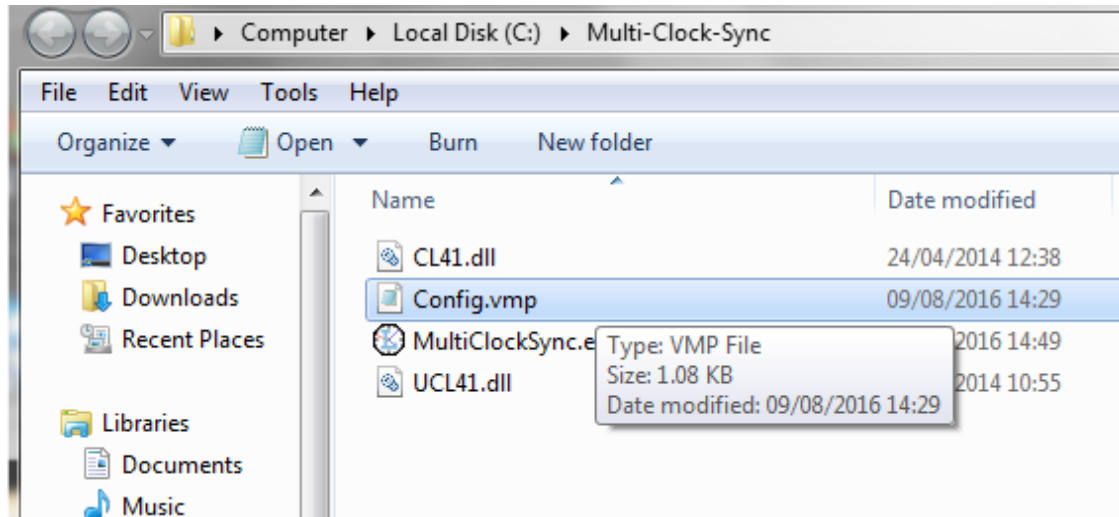


More Information about the Network module and module software can be found in the Ez Manager Manual.

Configuring

Configuring Software to automatically Sync the clock

Copy Multi-Clock-Sync software. Open Multi-Clock-Sync folder and locate the config.vmp file, supplied in disc format.



Config.vmp - Notepad

File Edit Format View Help

```
{
  "Info" = "Clock Sync Configuration"
  "Debug"
  {
    "ShowTraceAtStartup" = "0"
    "SelectAllAtStartup" = "1"
  }
  "Options"
  {
    "TimeOffset" = "0"
  }
  "Gateways"
  {
    "1"
    {
      "ID" = "EM1"
      "IsActive" = "1"
      "Text" = "Ethernet Module Clock 1"
      "Mode" = "ETHERNET"
      "IP" = "192.168.16.117"
      "Port" = "1001"
      "ConnectionTimeout" = "2000"
    }
    "2"
    {
      "Text" = "Serial Port Template"
      "ID" = "SP1"
      "IsActive" = "0"
      "Mode" = "SERIAL"
      "Port" = "COM5"
      "Baud" = "9600"
    }
  }
  "Clocks"
  {
    "1"
    {
      "IsActive" = "1"
      "SyncActive" = "1"
      "Protocol" = "P2"
      "Text" = "WIFI Clock 1"
      "Gateway" = "EM1"
      "DeviceAddress" = "01"
      "ResponseTimeout" = "1000"
    }
    "2"
    {
      "IsActive" = "0"
      "SyncActive" = "0"
      "Protocol" = "P2"
      "Text" = "SPI Clock 1 Example"
      "Gateway" = "SP1"
      "DeviceAddress" = "01"
      "ResponseTimeout" = "1000"
    }
  }
}
```

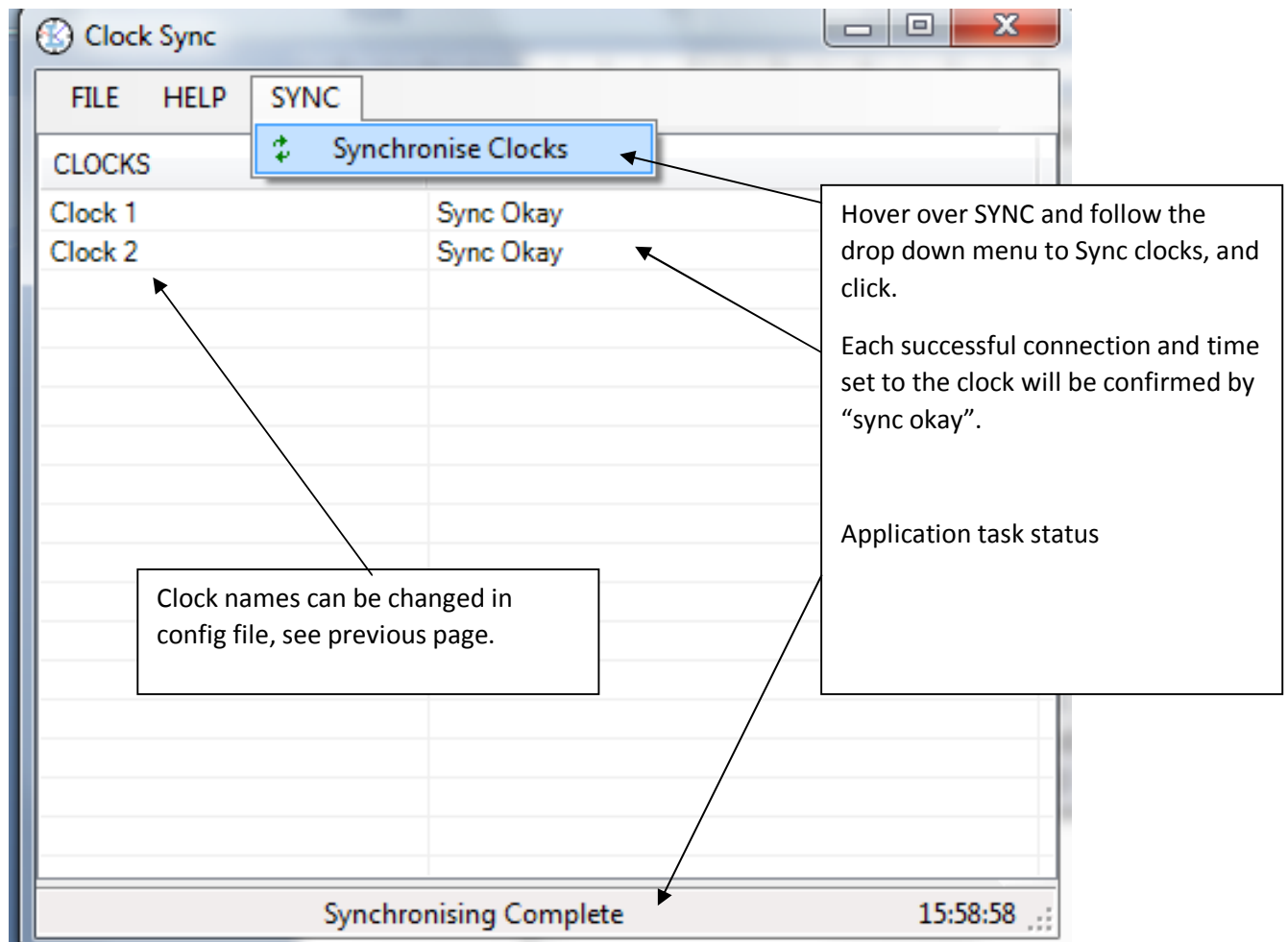
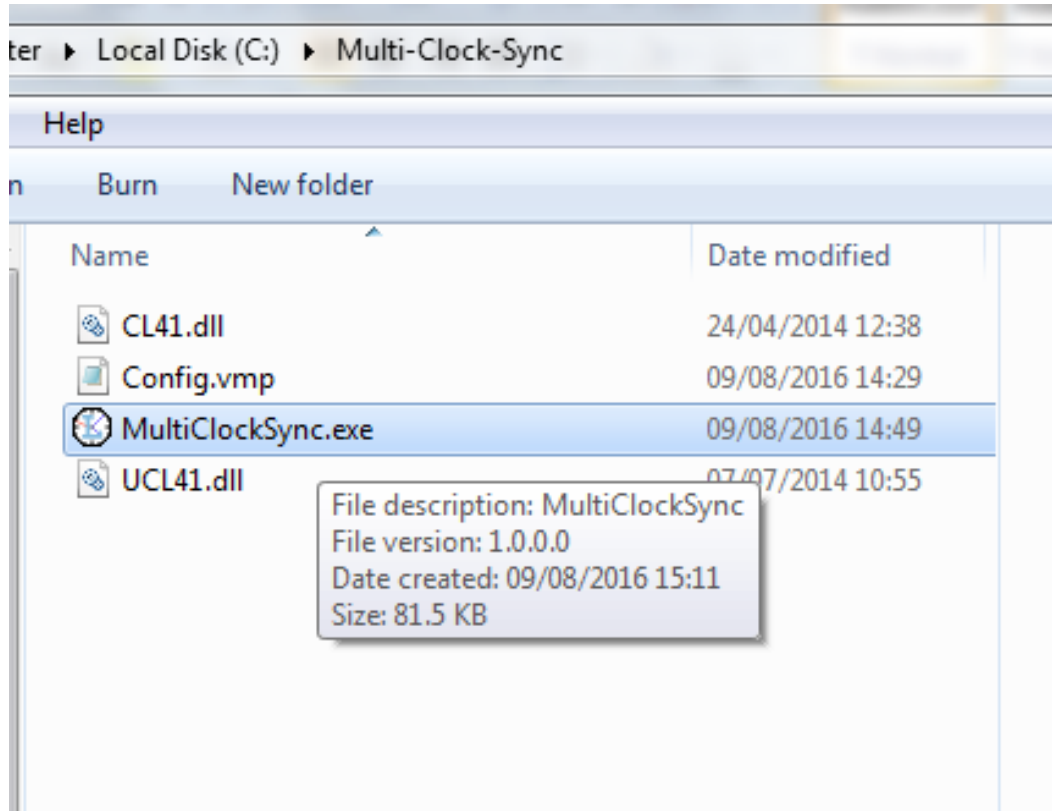
Time Offset in seconds

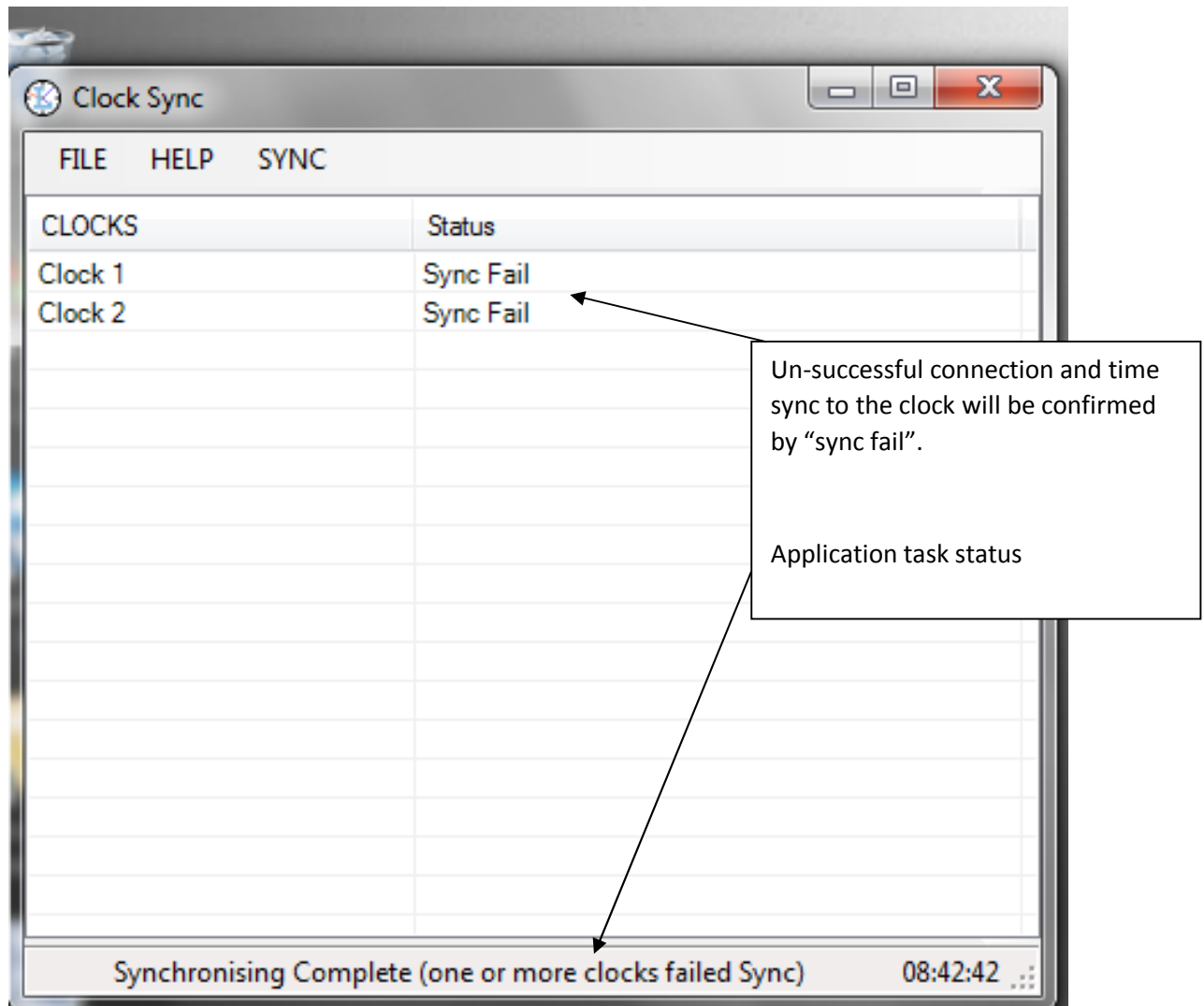
Enter clock 1 IP Address

You can re-name the clocks. For example, that of their location, like entrance.

Display address, 01

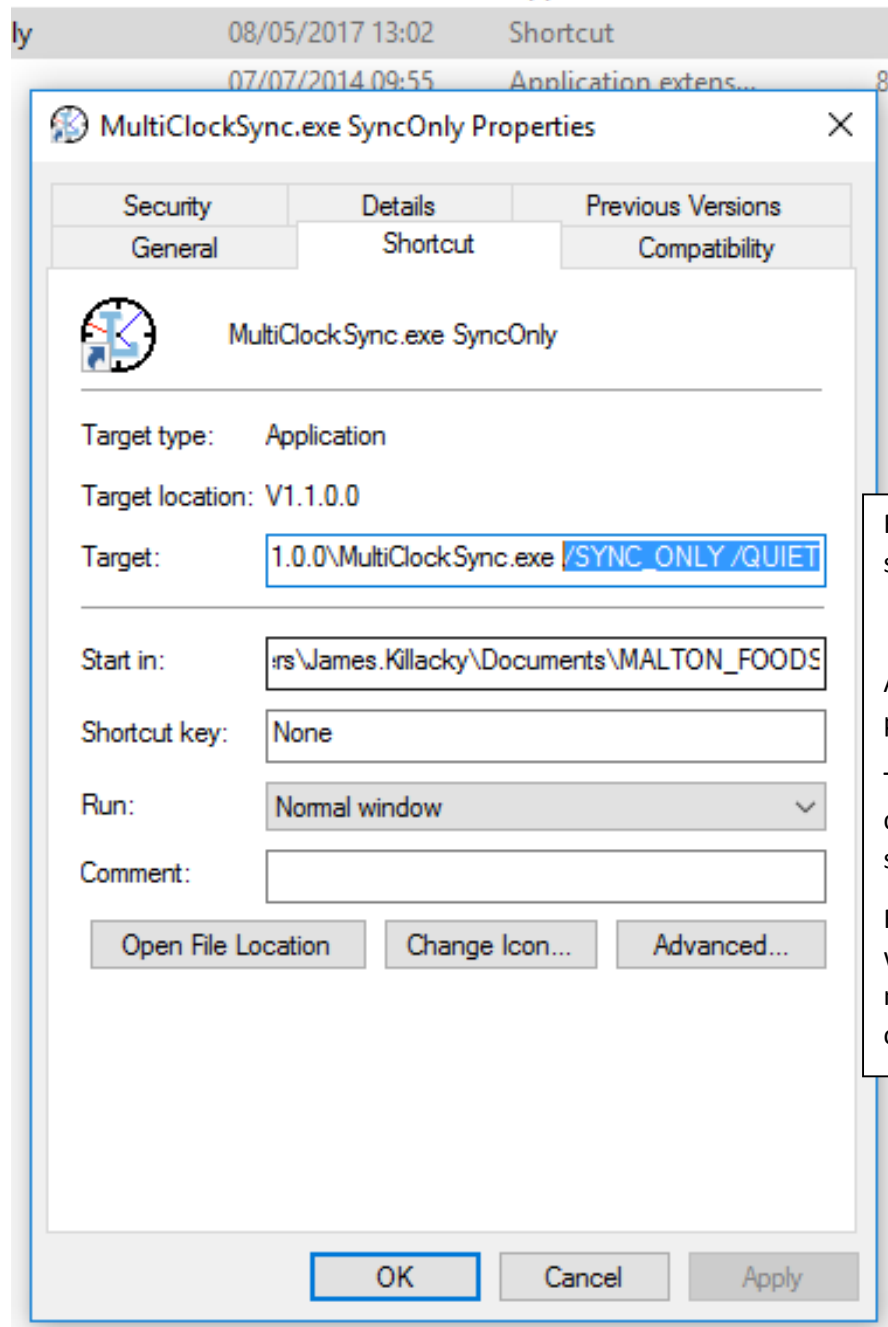
Run multi-clock-sync





If an un-successful connection is made, check:

- The unit and Ethernet module are on.
- The correct IP address has been selected.
- The correct IP address has been entered into the config file.

For automatic syncing

For scheduled clock syncing create a shortcut and add

`/SYNC_ONLY /QUIET`

At the end of target – make sure file path is correct

This will sync the clocks quietly, and create a log in the software folder of sync successfulness.

Running this shortcut in a scheduler will sync the clocks. Clocks do not need to be synced any more than once a day.