Application Note

FESTO

Set Date and Time for Festo PLC

How to read and write Date & Time from the command prompt.

CECC;
FDT

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Internet: http://www.festo.com
E-Mail: service_international@festo.com

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1 Components/Software/ used

Type/Name	Version Software/Firmware	Date of manufacture
FFT – Festo Field Device Tool	2.6.21	10/08/2016
CODESYS provided by Festo	V3.5.7 SP2 pbF	30/06/2016
Putty	Release 0.70	08/07/2017

Table 1.1: Components/Software used

Festo software are available on Festo Support Portal:

➔ https://www.festo.com/net/en-gb_gb/SupportPortal/default.aspx

Picture 1.1: Support portal

Putty software : http://www.putty.org/

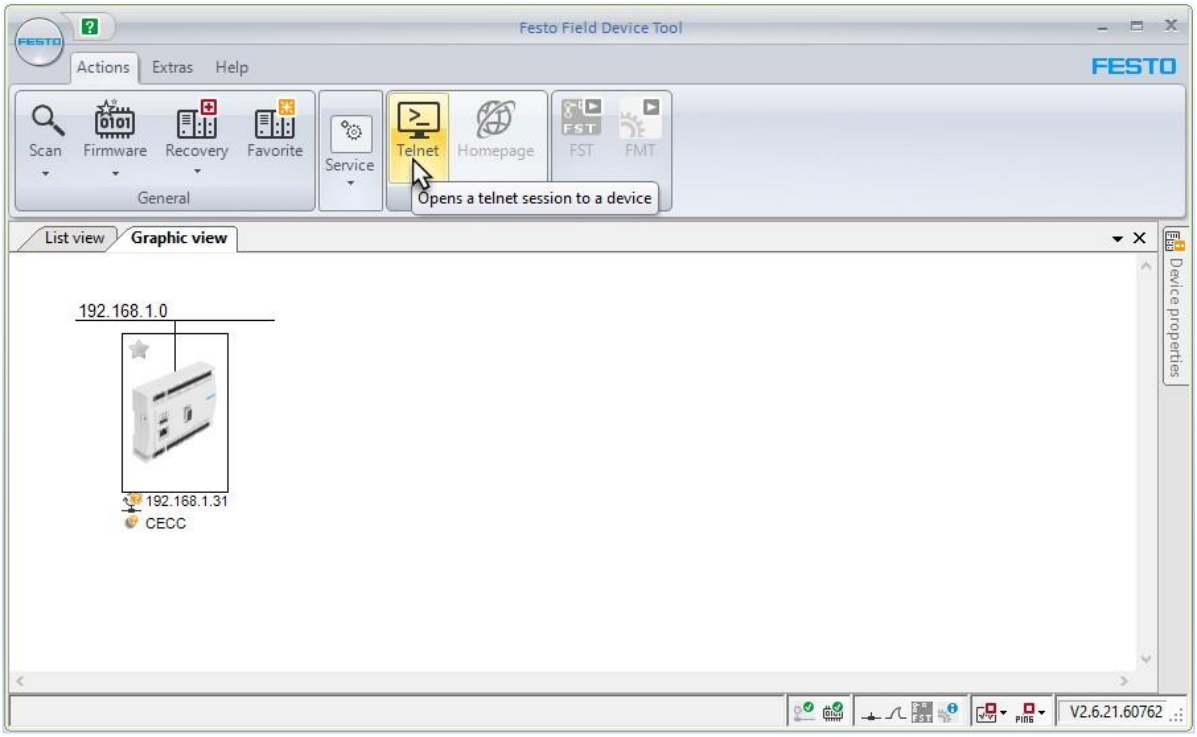
2 Login to PLC with Telnet

2.1 Pre conditions

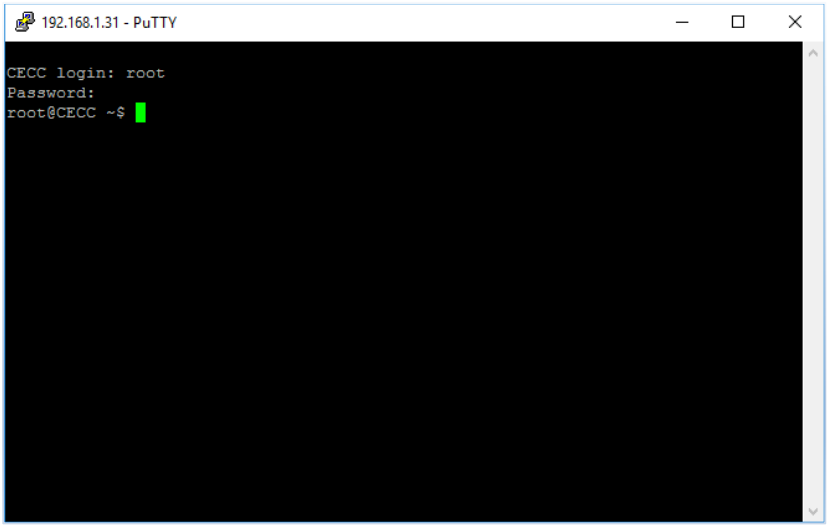
Festo PLC are Linux based systems and with a telnet session we can write Linux command.

Login as **root** password is **Festo**

Putty is implemented in Festo Field Device Tool and we need it to open a telnet session.



Picture 2.1: Telnet session with Festo Field Device Tool.

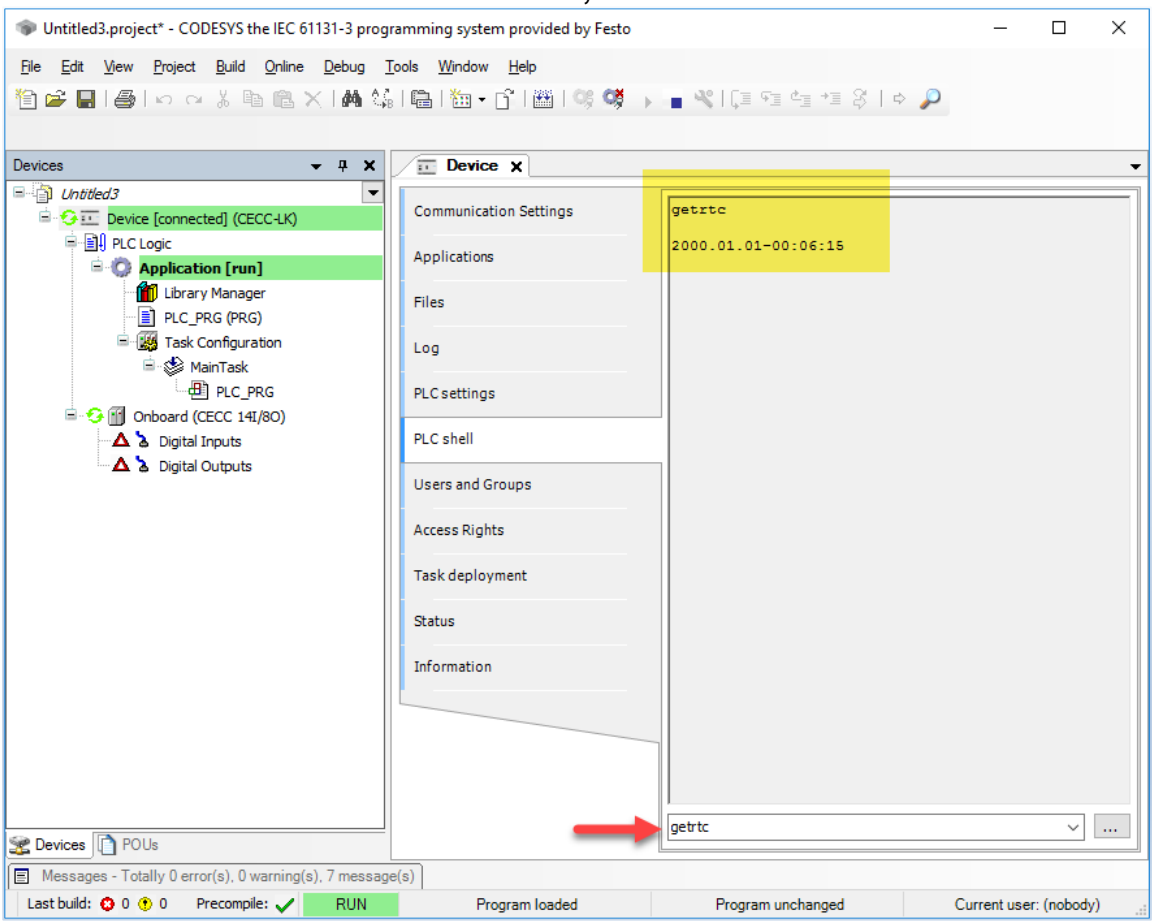


Picture 2.2: Putty used standalone, this is the command prompt.

3 How to use?

3.1 Look at the Codesys side

With the command #getrtc in the PLCShell we can read the actual RTC date & Time.
We can also use #setrtc but let's do it without CoDeSys.



Picture 3.1: CoDeSys view : PLC Shell.

3.2 Display Current Date and Time

> **Note**
> To simplify this documentation, next commands will be prefixed by # and the answer with ›››

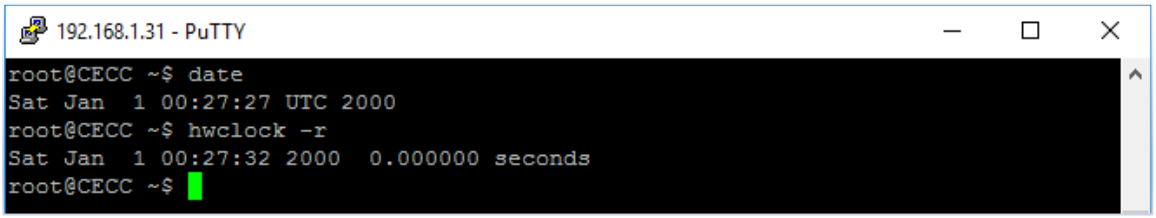
Go back to the command prompt and simply with the following command we can display the current date & time

```
# date
››› Sat Jan  1 00:19:55 UTC 2000
```

3.3 Display the Hardware clock RTC

Like the date command we can also display the hardware clock

```
# hwclock -r
››› Sat Jan  1 00:23:33 2000  0.000000 seconds
```



Picture 3.2: Putty session : read date & time

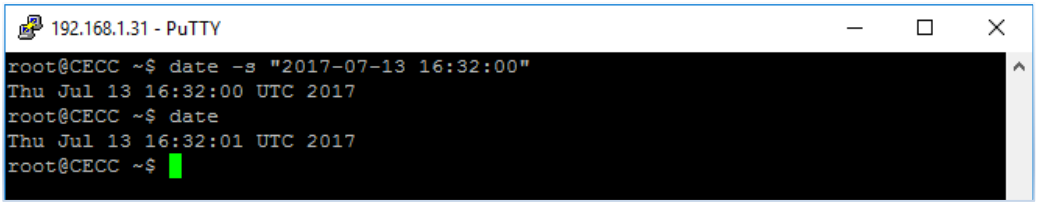
3.4 Set Date & Time

Use the following syntax to set the date & time

date -s “AAAA-MM-DD hh:mm:ss”

››› Thu Jul 13 16:32:00 UTC 2017

If we check again with the date command, we can see the correct setting.

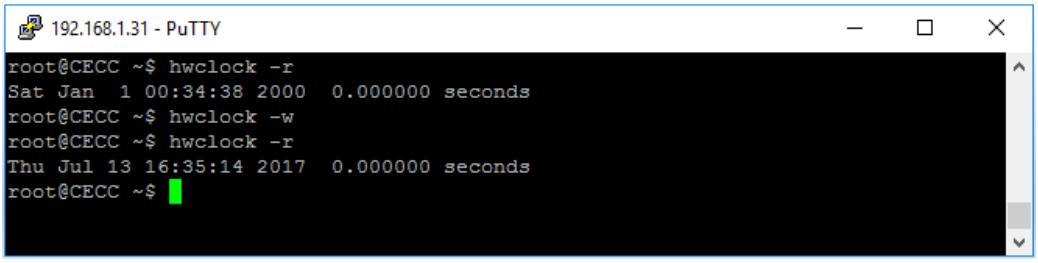


Picture 3.3: Putty session : set date & time.

3.5 Set the Hardware Clock to the current System Time

With the command -w we will set the hardware clock to the current system time.

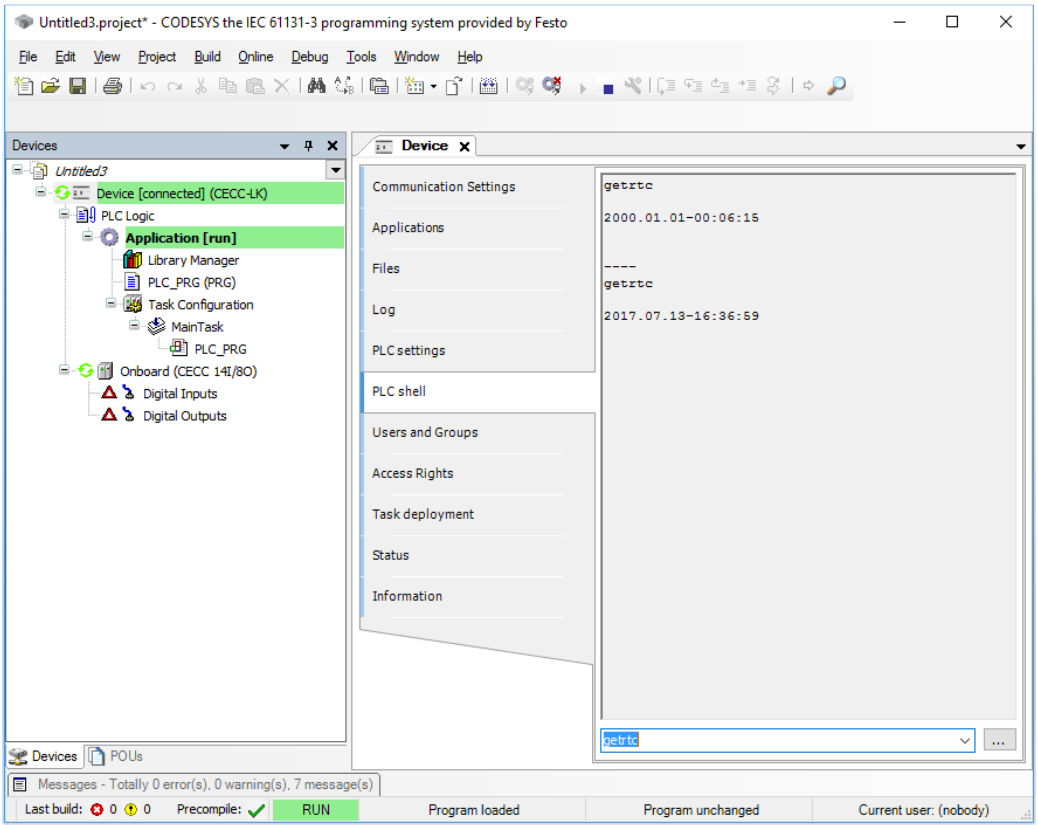
hwclock -w



Picture 3.4: Putty session : set RTC.

3.6 Return to the CoDeSys side

To control the date & time setting re use the syntax “getrtc in the PLC shell, the system is now on time.



Picture 3.5: CoDeSys view : #getrtc.