This is an appendix to the UD operating manual.

NTP Server

Option N allows a UD display to be used as a NTP server. Time and date are taken from a real-time LTC that carries time and date, connected to LTC IN connector.

Set-Up

Settings of the UD display can be changed with the UD/SC Configuration program. You can download it from here (see under "Product Downloads / Software Tools":

> https://plurainc.com/products/ud-n/

First, do the Ethernet settings of the UD display. If you want to set a static IP then open the UD/SC Configuration tool, connect to the display, go to "Ethernet" configuration page and click to "Change". Enter your static IP configuration and click OK. You will be disconnected from the display, please re-connect again and set "Source" to "LTC".

Next, go to page "Real-Time" check that "Enable Real-Time" is switched on, that's the factory setting. Set "Reference Time Zone" to your LTC's time zone, including DST switching, if any. This setting will be used to calculate UTC from LTC source. You can select presets like CET/CEST or UTC form a list. Below you can set "Local Time Zone" that can be set accordingly, this will be used to display time+date on UD display's front. Time zone settings are important because NTP is based on UTC and has to be calculated is LTC source is in local time zone.
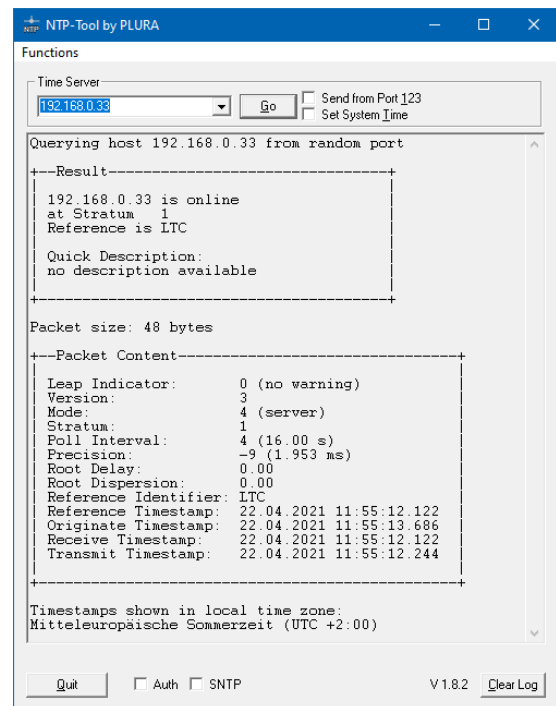
Go to page "LTC" and set "User Mode" to the date format your LTC source is using. Correct setting is important, it's used to calculate NTP's UTC and for DST settings.

Go to page "Display". You can switch "Mode / Display" between time and date. Please check that both are correct, appropriate to the time zone settings.

You can check the NTP server's function with Plura's NTP tool. You can download it from here (see under "Product Downloads / Software Tools":

> https://plurainc.com/products/ud-n/

Enter the UD display's IP address and click "Go". Check that "Transmit Timestamp" shows reasonable time and date (shown in local time zone).

Special Software

To update a unit to this special software an activation code is needed.

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