

7XV5664-0 GPS-Receiver (hopf 6875) and SIPROTEC devices with UTC time using DCF77

Output of DCF77 telegrams with time base „UTC“ for SIPROTEC devices

Within the original DCF77 telegram the locale time is presented as summer or winter time. The summer or winter time is presented by the use of the bits Z1/Z2 (17/18) of the telegram, in form of status „01“ or „10“.

The output DCF77 telegram of GPS-Receiver 7XV5664-0xA00 is a simulated DCF77 telegram, and distinguishes between the time bases „local“ or „UTC“.

If the **Time Base** of **DCF77 Simulation** is set to **Local Time**, the simulated output DCF77 telegram of the receiver is the same as the original DCF77 telegram, bits Z1/Z2 (17/18) have status „01“ or „10“.

If the **Time Base** of **DCF77 Simulation** is set to **UTC**, the bits Z1/Z2 (17/18) have generally the status „00“, what is not accepted from all connected devices.

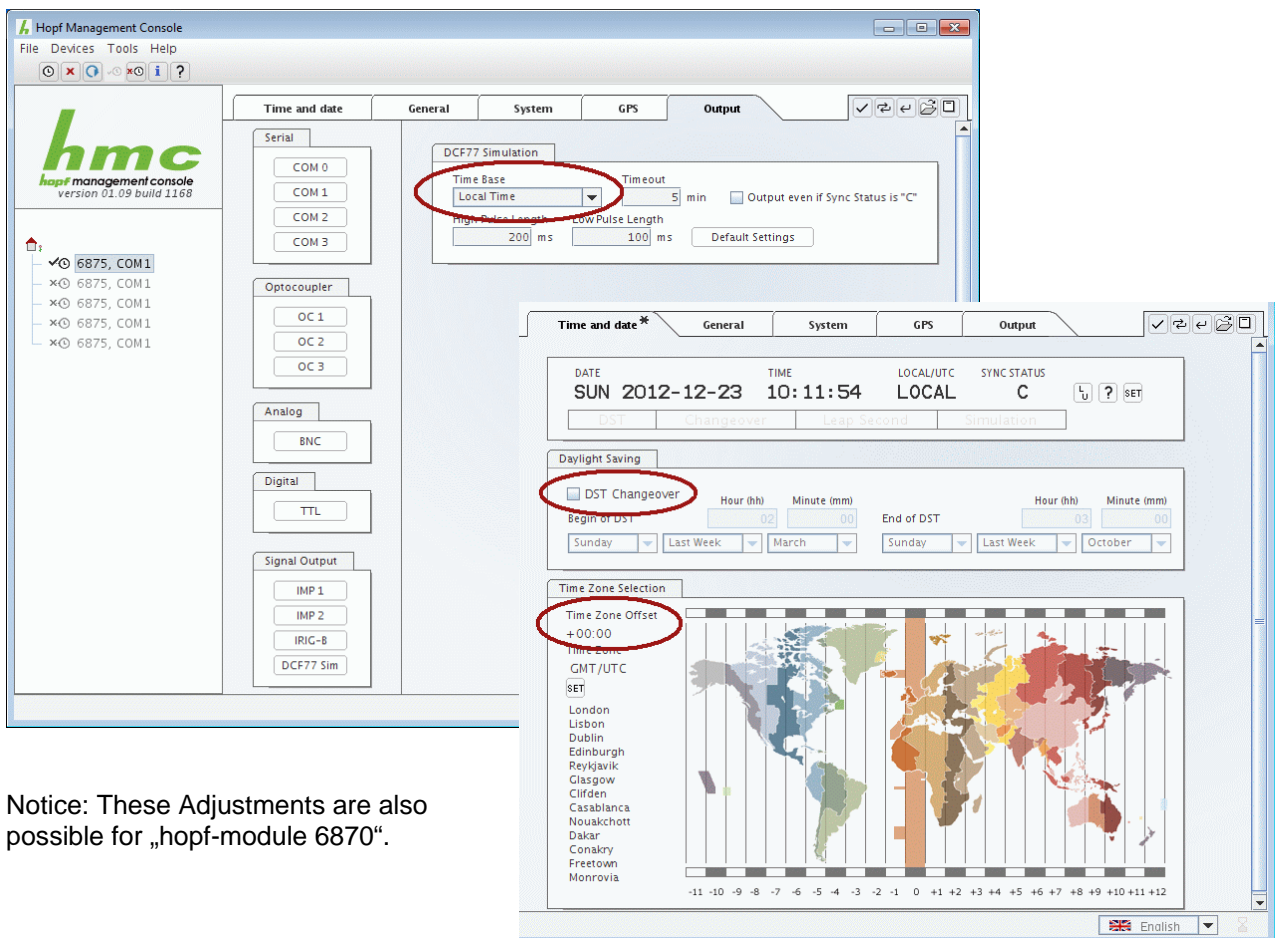
All SIPROTEC devices reject this „UTC-telegram“ as invalid!

But the synchronization of SIPROTEC devices by the use of DCF77 is possible:

Setting for SIPROTEC devices with „DCF77-Simulation“ and „time base“ „UTC“:

- Set within section **DCF77 Simulation** the **Time Base** to **Local Time**.
- **Deactivate** within section **Daylight Saving** the **DST changeover** (summer/winter).
- Set within section **Time Zone Selection** the **Time Zone Offset** to **+00:00**.

Using this settings, the DCF77 simulation (DCF77 tact and DCF77 antenna simulation) has the information of the UTC time and time zone code, and will be send as "standard time" (winter time).



Notice: These Adjustments are also possible for „hopf-module 6870“.