

Tips for using the TDA feature for Real Time Clock functions in IQAN  
June 2019

IQAN masters have a feature to receive a TDA (Time / Date Adjust) J1939 message to control the Time and Date used by the IQAN master. For those masters without a real time clock chip, such as the MC4x, the first two tips are relevant. For those with a real time clock chip, such as the MD4s, all tips are relevant.

To enable an external TDA, the property TDA enabled should be set to Yes:

Property	Value
Name	Display
Description	
Address	1
Optional	Yes
RTC enabled	No
✓ J1939	{34; Yes; Yes; Yes}
Source address	34
TDA enabled	Yes
COMPID enabled	Yes
SOFT enabled	Yes

Tip 1: The device that is sending the TDA should do it as a broadcast message.

Tip 2: The hour and minute offset parameters should be set to 0 (scaled value) or 0x7D (raw value). The IQAN module does not use these parameters and will reject any attempts that have an offset in them.

Tip 3: For those masters that have a RTC chip, in order for the TDA message to set the value the master will use, it is necessary to set the RTC enabled property to No:

Property	Value
⌘ Name	Display
Description	
Address	1
Optional	Yes
RTC enabled	No