

EFM ABB Totalflow 'Failed to set data point' warnings from XRegisterData

This document will detail the steps needed to be able to debug the root causes for the 'Failed to set data point' warning.

Warnings from the XRegisterData logger will look similar to those shown below:

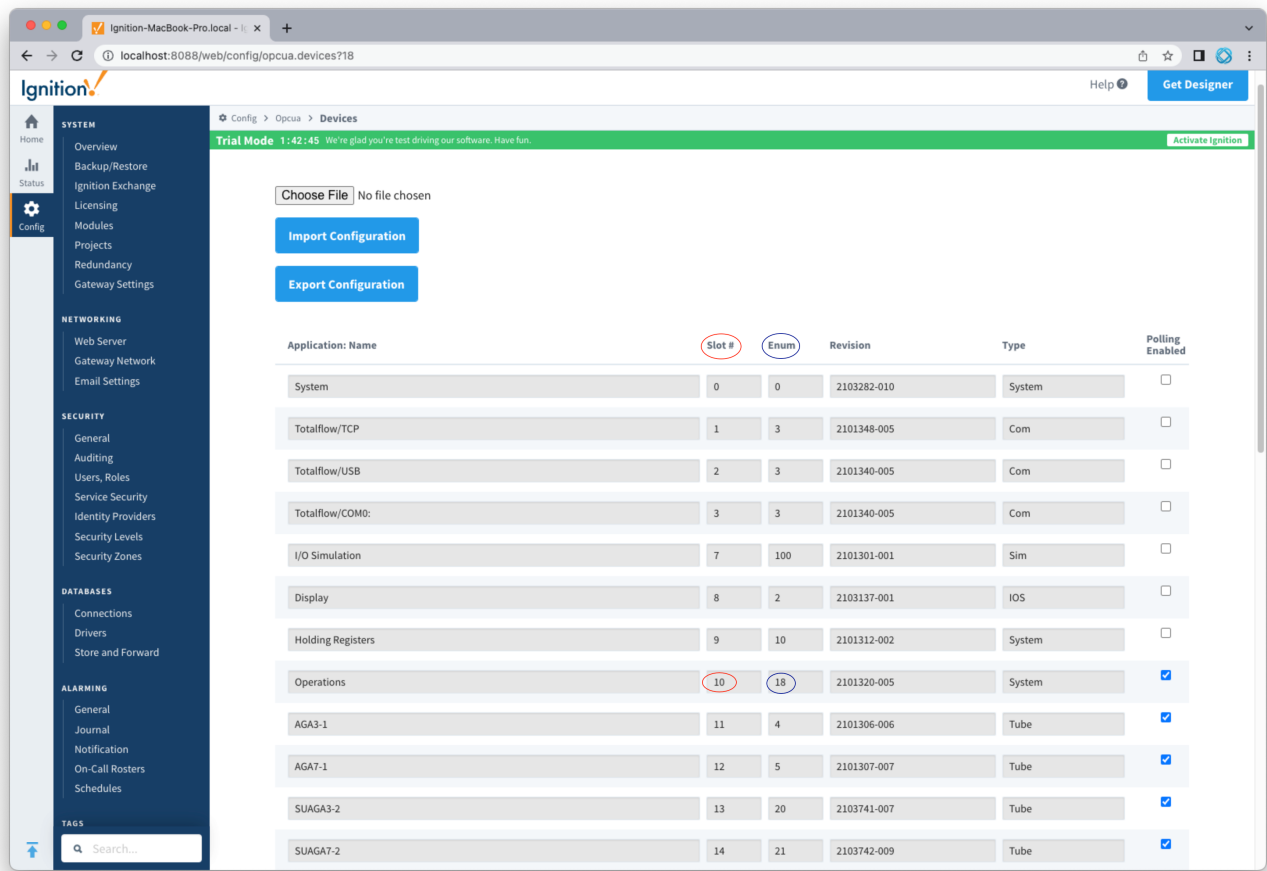
Logger	Time	Message
XRegisterData	13-Jan-2023 09:45:46	[ABB-TF G4' 192.168.168.190:9999] Failed to set data point Register Template-0 of type REGISTER - there is no data from the ABB Totalflow device. - X_REGISTER_DATA: [AppSlot#=10, Array#=207, Register#=0, NumberOfRegisters=10, status=Valid Frame]
XRegisterData	13-Jan-2023 09:45:46	[ABB-TF G4' 192.168.168.190:9999] Failed to set data point String Template-0 of type STRING - there is no data from the ABB Totalflow device. - X_REGISTER_DATA: [AppSlot#=10, Array#=206, Register#=0, NumberOfRegisters=10, status=Valid Frame]
XRegisterData	13-Jan-2023 09:45:46	[ABB-TF G4' 192.168.168.190:9999] Failed to set data point Byte Template-0 of type BYTE - there is no data from the ABB Totalflow device. - X_REGISTER_DATA: [AppSlot#=10, Array#=205, Register#=0, NumberOfRegisters=10, status=Valid Frame]
XRegisterData	13-Jan-2023 09:45:46	[ABB-TF G4' 192.168.168.190:9999] Failed to set data point Unsigned Int32 Template-0 of type INT32 - there is no data from the ABB Totalflow device. - X_REGISTER_DATA: [AppSlot#=10, Array#=204, Register#=0, NumberOfRegisters=10, status=Valid Frame]
XRegisterData	13-Jan-2023 09:45:46	[ABB-TF G4' 192.168.168.190:9999] Failed to set data point Signed Int32 Template-0 of type INT32 - there is no data from the ABB Totalflow device. - X_REGISTER_DATA: [AppSlot#=10, Array#=203, Register#=0, NumberOfRegisters=10, status=Valid Frame]
XRegisterData	13-Jan-2023 09:45:46	[ABB-TF G4' 192.168.168.190:9999] Failed to set data point Unsigned Int16 Template-0 of type INT16 - there is no data from the ABB Totalflow device. - X_REGISTER_DATA: [AppSlot#=10, Array#=202, Register#=0, NumberOfRegisters=10, status=Valid Frame]
XRegisterData	13-Jan-2023 09:45:46	[ABB-TF G4' 192.168.168.190:9999] Failed to set data point Signed Int16 Template-0 of type INT16 - there is no data from the ABB Totalflow device. - X_REGISTER_DATA: [AppSlot#=10, Array#=201, Register#=0, NumberOfRegisters=10, status=Valid Frame]
XRegisterData	13-Jan-2023 09:45:46	[ABB-TF G4' 192.168.168.190:9999] Failed to set data point Float Template-0 of type FLOAT - there is no data from the ABB Totalflow device. - X_REGISTER_DATA: [AppSlot#=10, Array#=200, Register#=0, NumberOfRegisters=10, status=Valid Frame]
XRegisterData	13-Jan-2023 09:45:46	[ABB-TF G4' 192.168.168.190:9999] Failed to set data point Float64 Template-9 of type DOUBLE - there is no data from the ABB Totalflow device. - X_REGISTER_DATA: [AppSlot#=10, Array#=9, Register#=1, NumberOfRegisters=9, status=Valid Frame]
XRegisterData	13-Jan-2023 09:45:46	[ABB-TF G4' 192.168.168.190:9999] Failed to set data point Uint64 Template-3 of type UINT64 - there is no data from the ABB Totalflow device. - X_REGISTER_DATA: [AppSlot#=10, Array#=8, Register#=1, NumberOfRegisters=9, status=Valid Frame]
XRegisterData	13-Jan-2023 09:45:46	[ABB-TF G4' 192.168.168.190:9999] Failed to set data point Int64 Template-9 of type INT64 - there is no data from the ABB Totalflow device. - X_REGISTER_DATA: [AppSlot#=10, Array#=7, Register#=1, NumberOfRegisters=9, status=Valid Frame]

The logged warning includes details that will help in identifying the points in the Array-Register template that are cause this warning.

- The message is prepended with the Device Name, Hostname and TCP Port
- The message is appended with the X_REGISTER_DATA showing the AppSlot#, Array#, Register#, NumberOfRegisters and status

For example if we look at the highlighted entry shown above, the warning is coming from the Device Name of ABB-TF G4 and a Hostname of 192.168.168.190 and X_REGISTER_DATA of [AppSlot#=10, Array#=7, Register#=1, NumberOfRegisters=9, status=Valid Frame]

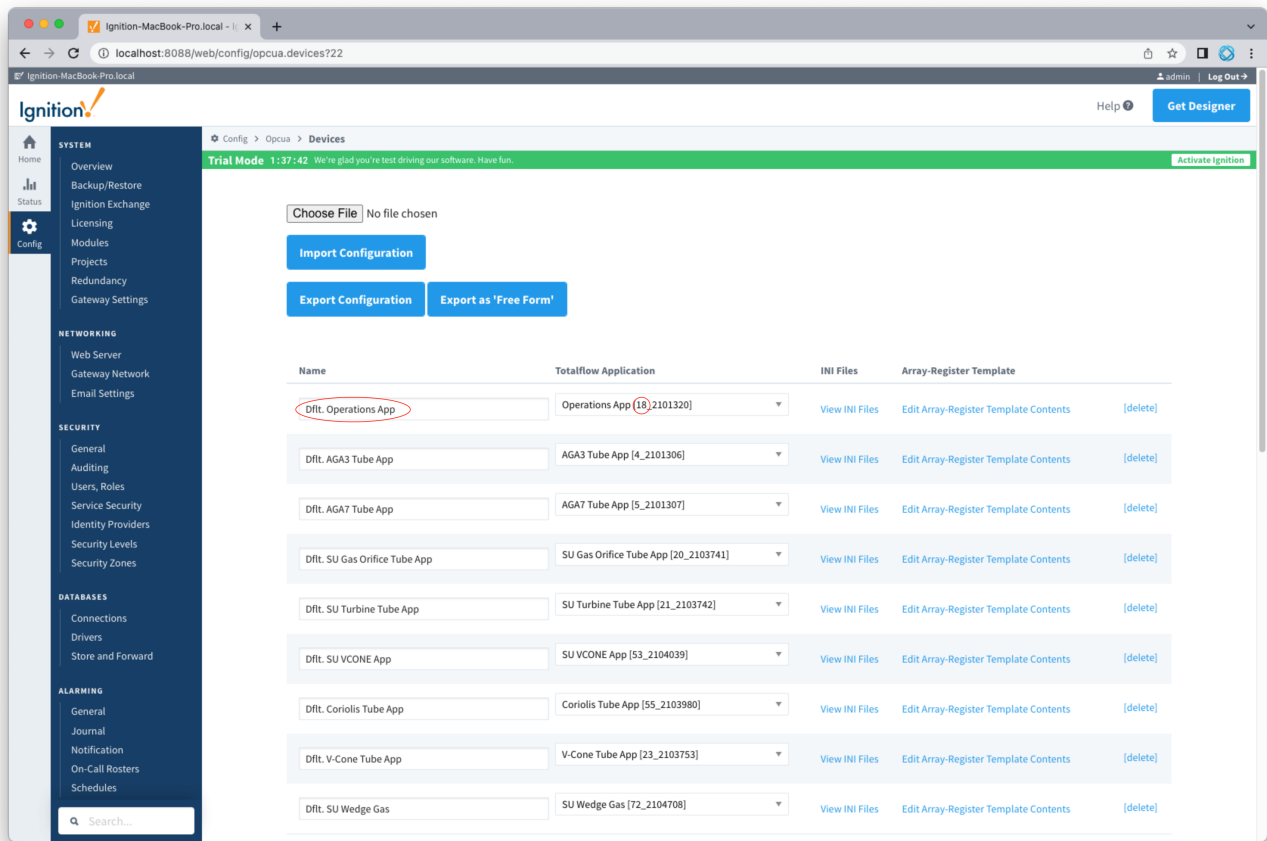
Now, we should find the AppSlot# 10 in the list of the Totalflow applications by navigating to Config > Opcua > Devices and selecting *Totalflow Applications* from the More dropdown for your device. This will display similarly to below:



Note that the application name is 'Operations' and its AppEnum# is 18.

Next we need to look at the Array-Register templates and find a template for AppEnum# 18 by navigating to Config > Opcua > Devices and selecting *Array-Register Templates* from the More dropdown for your device.

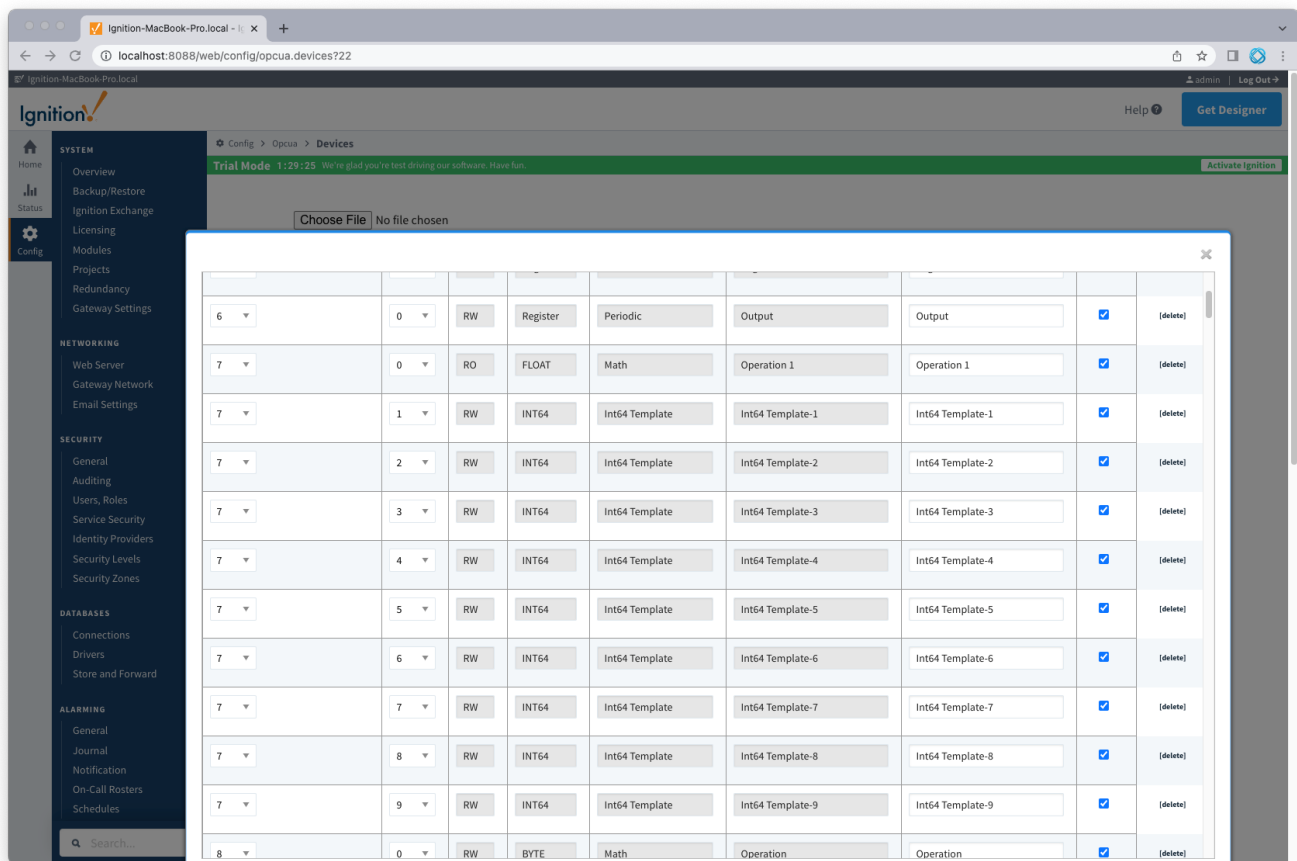
This will display similarly to below where the AppEnum is the identified as part of the Totalflow Application name.



If you are not using the template associated with the AppEnum, in our example it is Dflt. Operations App, you can simply disable this template to remove the warning messages.

If you are using only some of the registers within this template, select Edit Array_Register Template Contents. This will display similarly to below and we can disable the array registers identified in the warning message.

In our example of X_REGISTER_DATA: [AppSlot#=10, Array#=7, Register#=1, NumberOfRegisters=9, status=Valid Frame] we would be looking at Array 7 Registers 1 through 9.



If you are using the template associated with the AppEnum, then there will be additional work with both the INI file, which you can open by selecting the View INI Files link, and the flow computer configuration.

Additional details to follow

Additional Resources

- Inductive Automation's Ignition download with free trial
 - [Current Ignition Release](#)
- Cirrus Link Solutions Modules for Ignition
 - [Ignition Strategic Partner Modules](#)
- Support questions
 - Check out the Cirrus Link Forum: <https://forum.cirrus-link.com/>
 - Contact support: support@cirrus-link.com
- Sales questions
 - Email: sales@cirrus-link.com
 - Phone: +1 (844) 924-7787
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