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[EtherCAT] - Problems with a slave (EL6751) (/t5/Industrial-Communications/EtherCAT-Problems-with-a-slave-EL6751/m-p/3223655) 🖼

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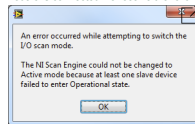
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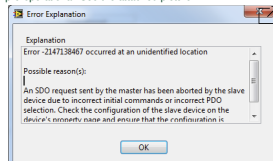
Hello,

We are updating a test rig that is equipped with many ethercat Beckhoff modules. The idea is to develop a new LabVIEW software (LabVIEW RT) using the actual I/O hardware (Beckhoff). We have checked the communication between the NI-Ethercat Master and most of the modules, and we have a problem with a EL6751 module (CANOpen master).
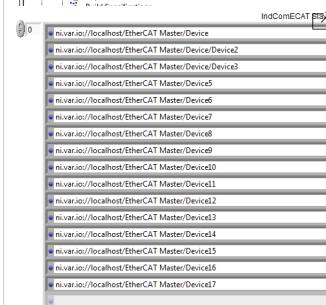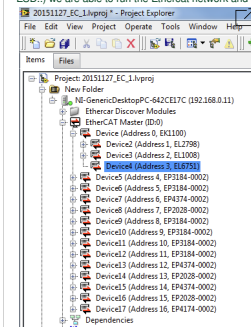
The problem is that when we try to switch the san engine to active and the EL6751 module is connected we receive the following error:

If we go to EL6751 module we can see that the module was not able to change from init to pre-operational. See the attached picture

And what is more strange, if we search the module programatically we can discover (and send SDO) to all other devices except the EL6751, which not appear in list of slave devices discovered. If we use other Ethercat masters for other companies (Beckhoff, ESD..) we are able to run the Ethercat network and to configure all the modules.

We know that we have to configure the EL 6751 module properly to establish a real CANOpen communication (thing that we think to do by SDO), but we don't understand why the Scan Engine is not able to start correctly. One thing a little bit strange is that is the only module that hasn't any variable under the tree...

The configuration that we have been using is :

1. Industrial PC computer: Intel i7
2. Network Adapter: Intel Pro 100/1000 compatible device
3. NI Real-Time Phar Lap ETS 13.1
4. NI-Industrial Communications for Ethercat 14.5

It would be very helpful if someone can give some advise or recommendation ...

Thanks in advance.

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