


# TwinCat Connection Faults

A simple way to see where connections are lost on the etherbus/ethernet networks

 Difficulty Easy

 Duration 5 minute(s)

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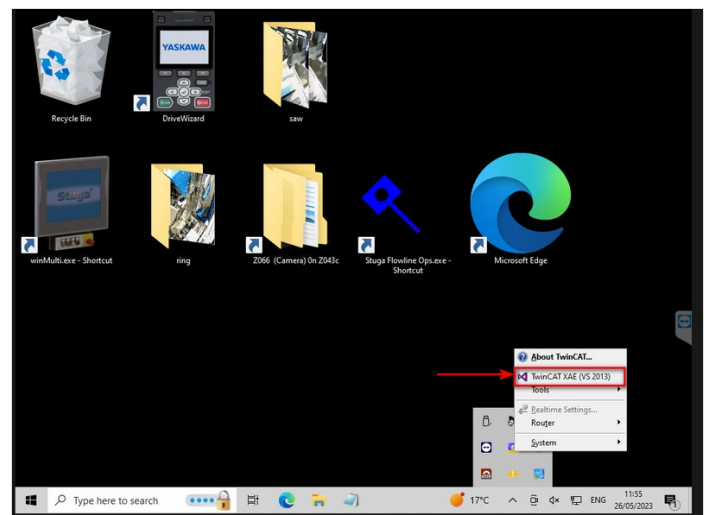
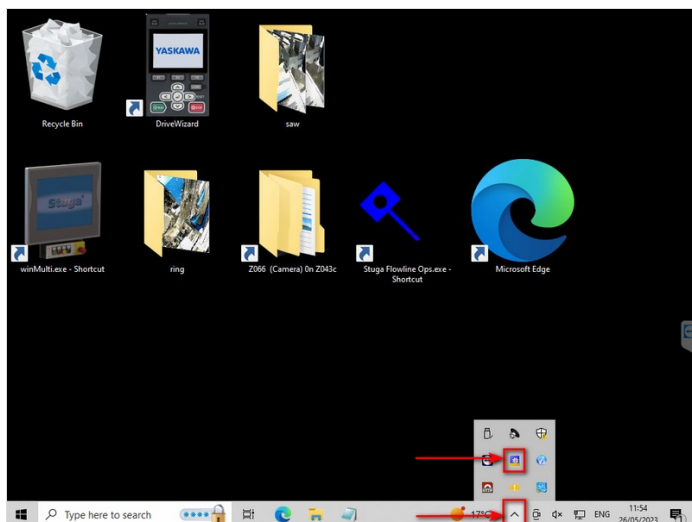
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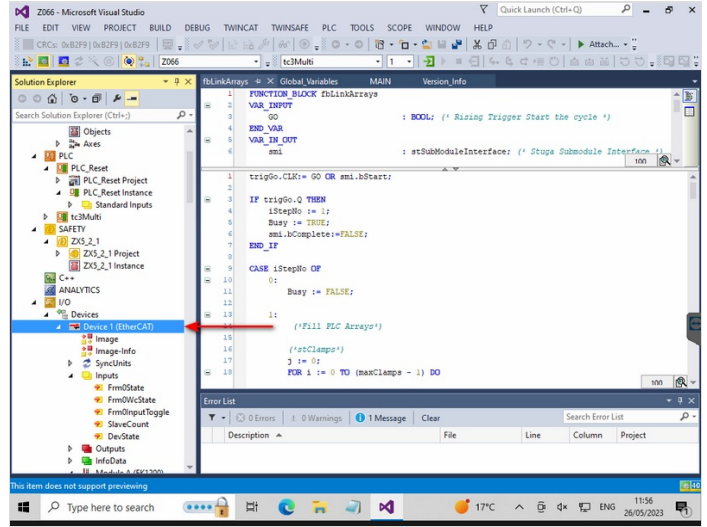
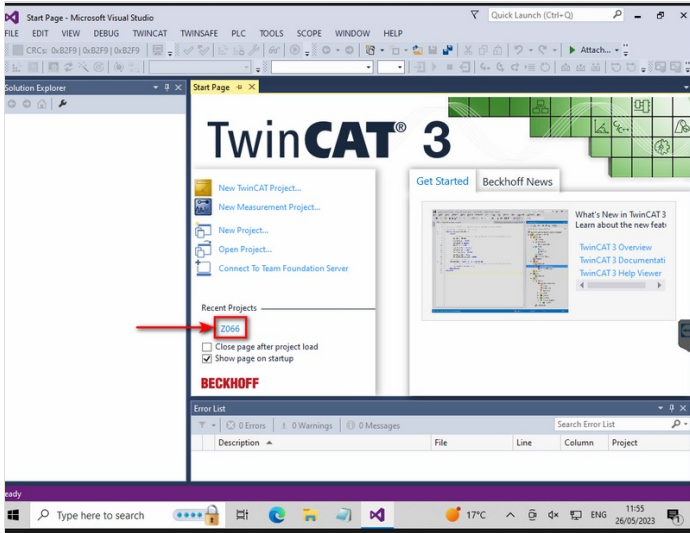
## Introduction

We are quite often faced with multiple Axis/Door Open/ Estop faults all being reported at the same time. More often than not this is caused by a bad connection on the TwinCat system somewhere. If there is any dropout of connection at any point in the system it will result in this error. You could spend some time crawling about on your hands and knees, opening electrical cabinets and trying to find the fault manually, but by using TwinCat we can save some time and effort, and pinpoint the cause almost immediately.

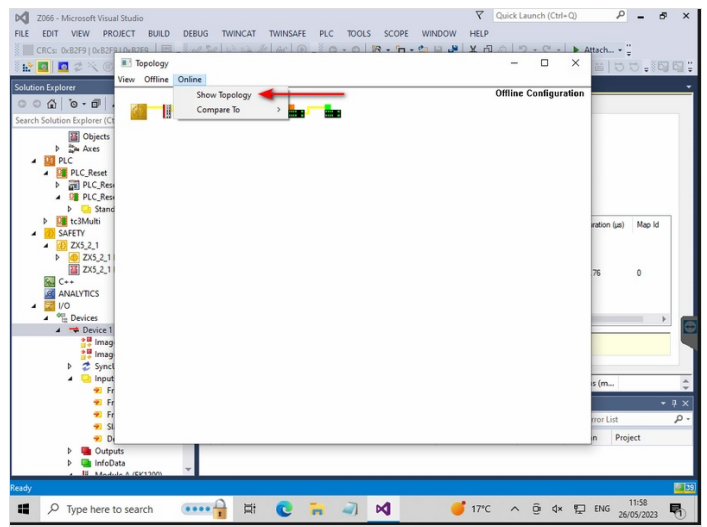
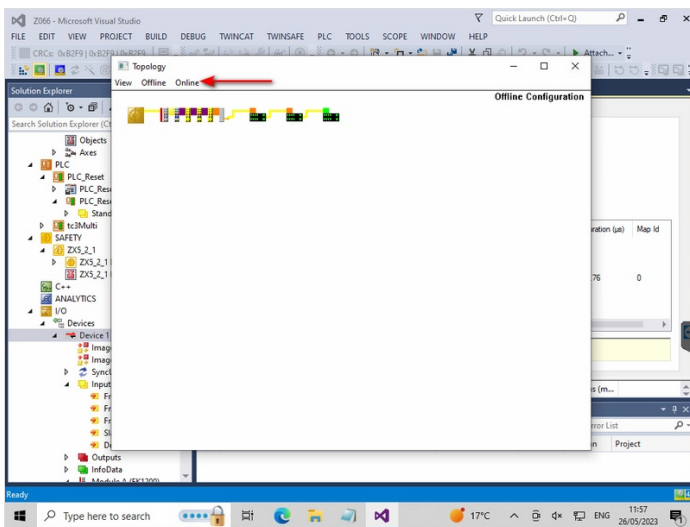
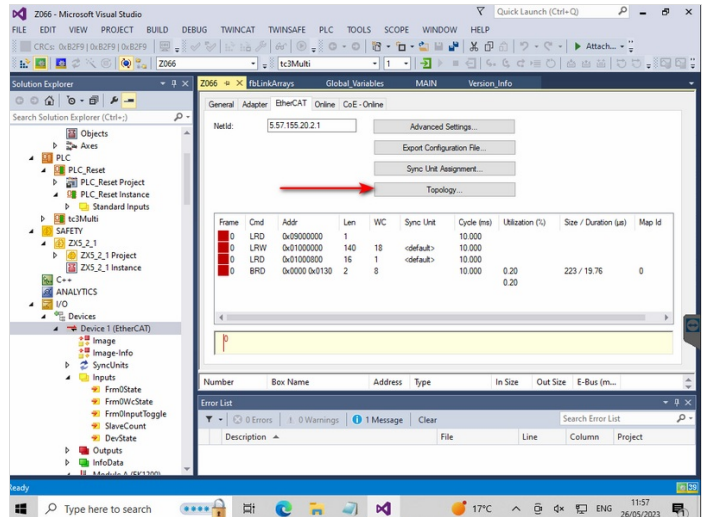
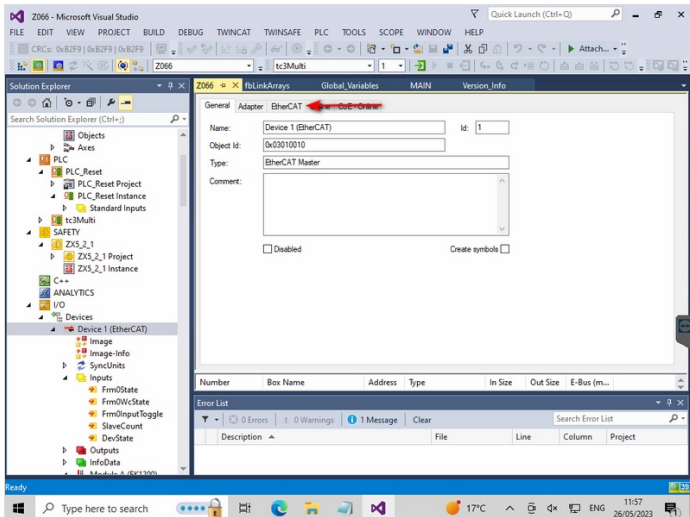
## Step 1 - Open TwinCat

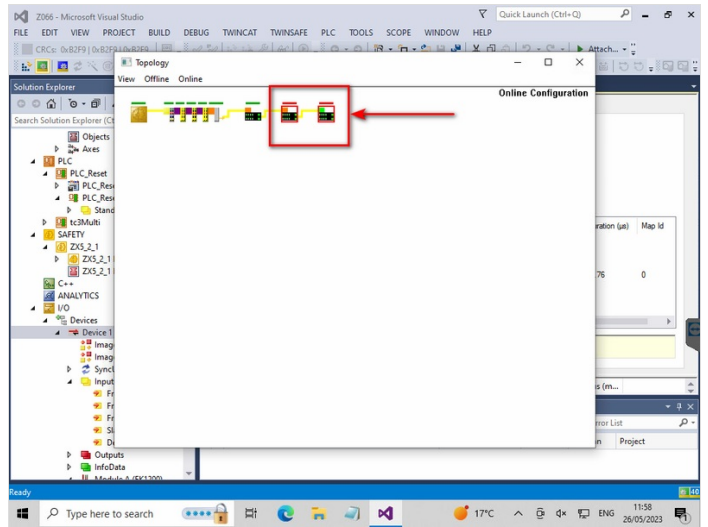


## Step 2 - Open Project - Locate and open devices



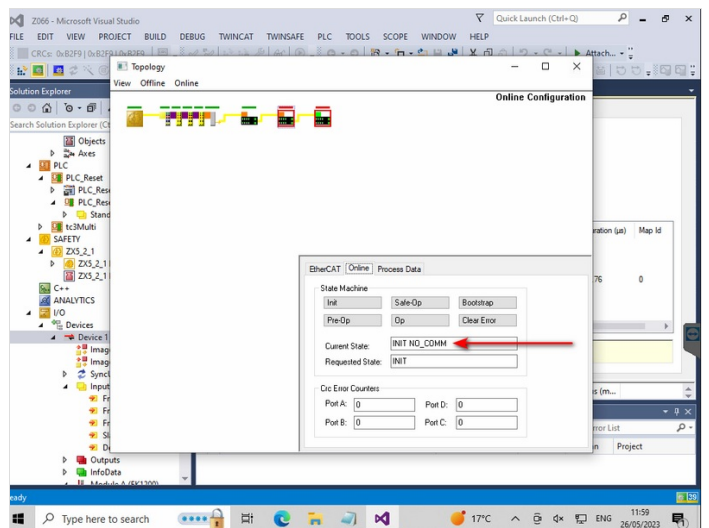
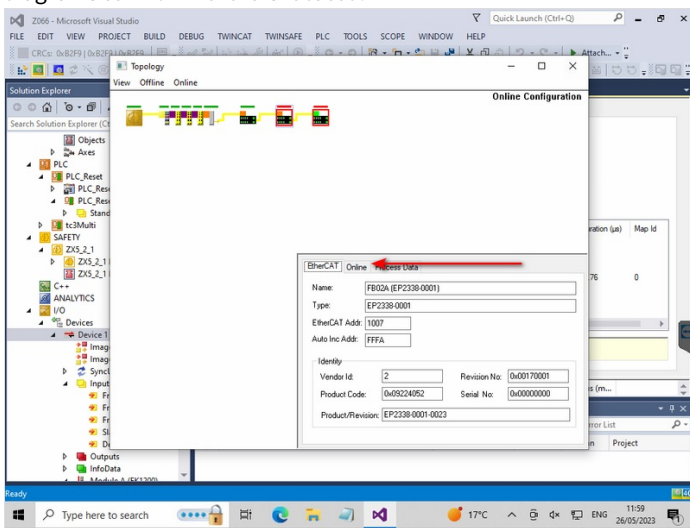
## Step 3 - EtherCat - Topology - Online - Show Topology - Locate Fault



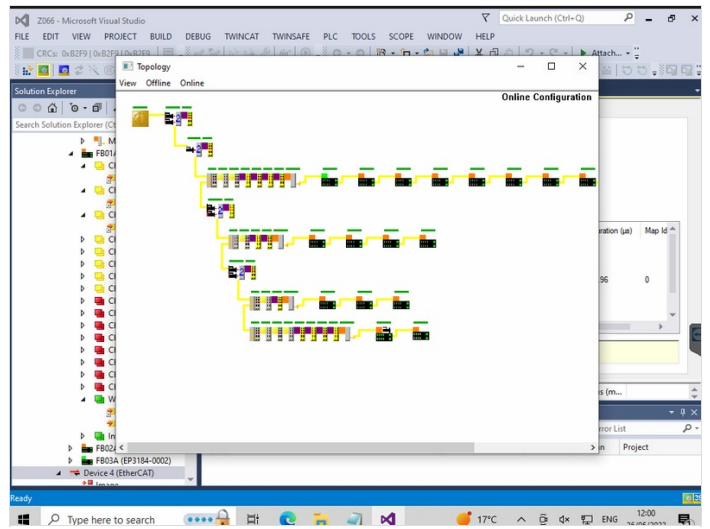


## Step 4 - Select Device - Online

From here we can see there are no comms, and more importantly the device name. This name can be cross referenced from the wiring diagrams to find where it is located.



## Step 5 - Healthy System



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## Step 6 - Further Information

For more advanced information, see [Diagnosing EtherCAT Issues - Advanced](#)

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