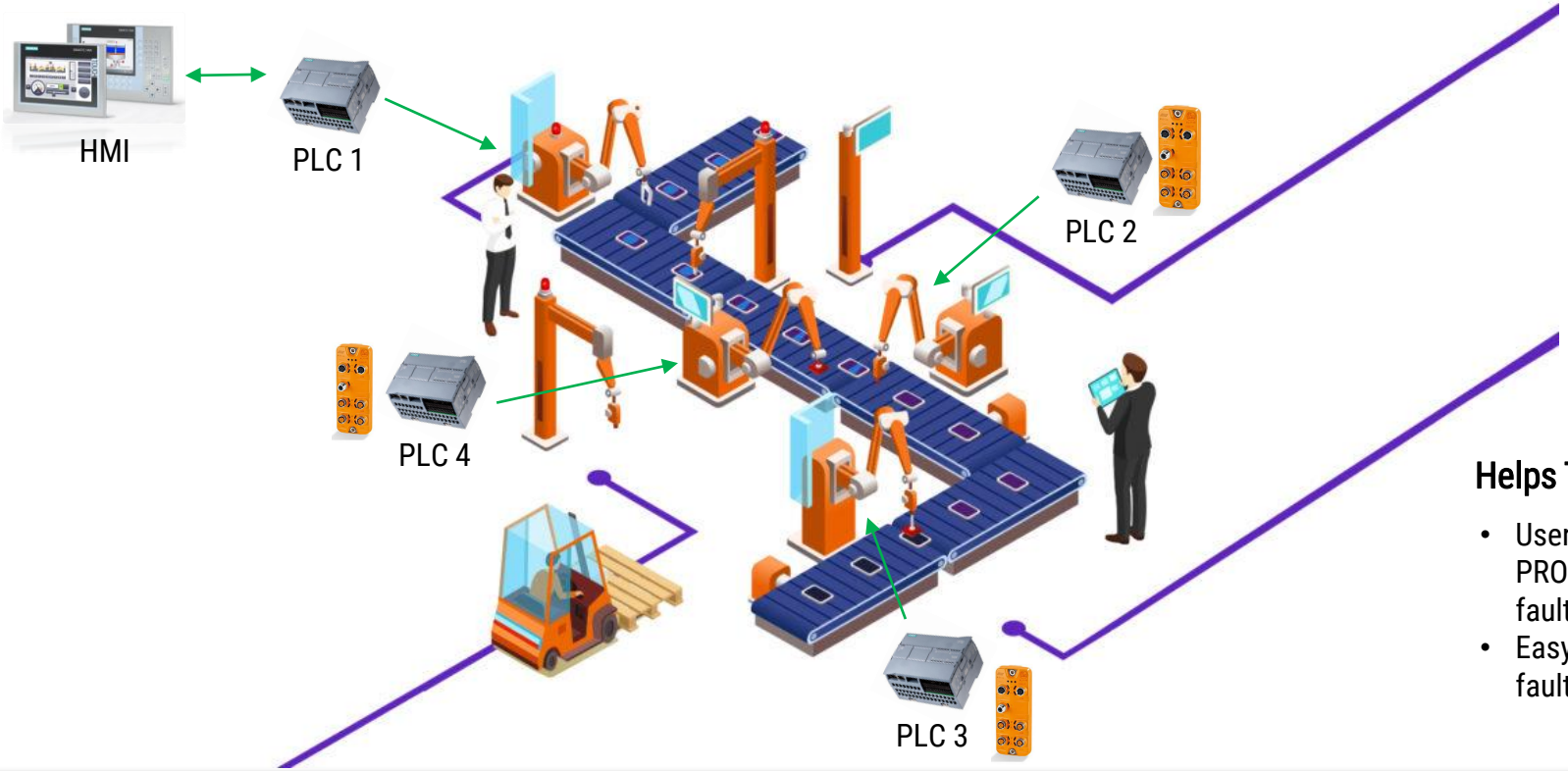
Code and Compile
presents

How to read

Device Status in PROFINET Network

Using Device state instruction

Why we need to Monitor PROFINET Devices?



Helps Troublehsooting!

- User knows exactly which PROFINET device has fault, exist or configured
- Easy to troubleshoot the fault device

What we are going to learn in this section:

Tasks:

Read the device status information in PROFINET network:

- **Mode 1:** IO/DP slaves are configured
- **Mode 2:** IO/DP slaves are faulty
- **Mode 3:** IO/DP slaves are disabled
- **Mode 4:** IO/DP slaves exist
- **Mode 5:** IO/DP slaves has problems
  - ❑ Maintenance required
  - ❑ Not accessible/available
  - ❑ Error occured

What we are going to learn in this section:

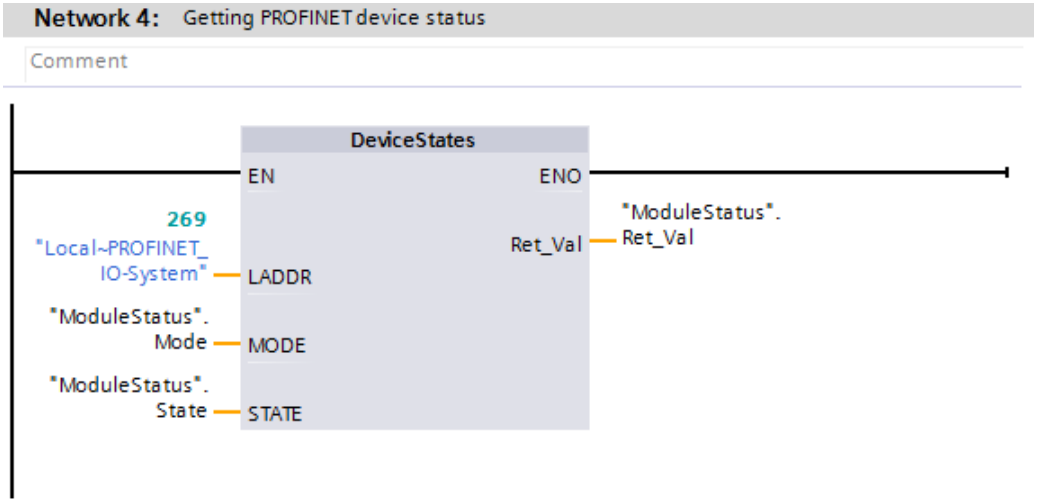
Task Solution:

Mode 1: IO/DP slaves are configured

Bit 0:
1 = If any of the devices are configured
0 = If none of the devices are configured

Bit 1:
1 = Device number 1 is configured
0 = Device number 1 is not configured

Bit 2:
similar for Device number 2
...
...



What we are going to learn in this section:

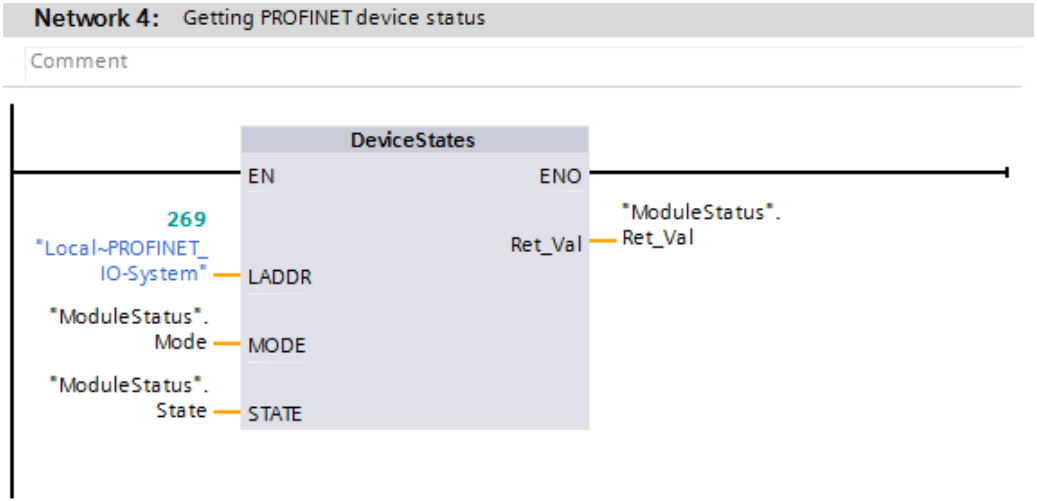
Task Solution:

Mode 2: IO/DP slaves are faulty

Bit 0:
1 = If any of the devices are faulty
0 = If none of the devices are faulty

Bit 1:
1 = Device number 1 is faulty
0 = Device number 1 is not faulty

Bit 2:
similar for Device number 2
...
...



What we are going to learn in this section:

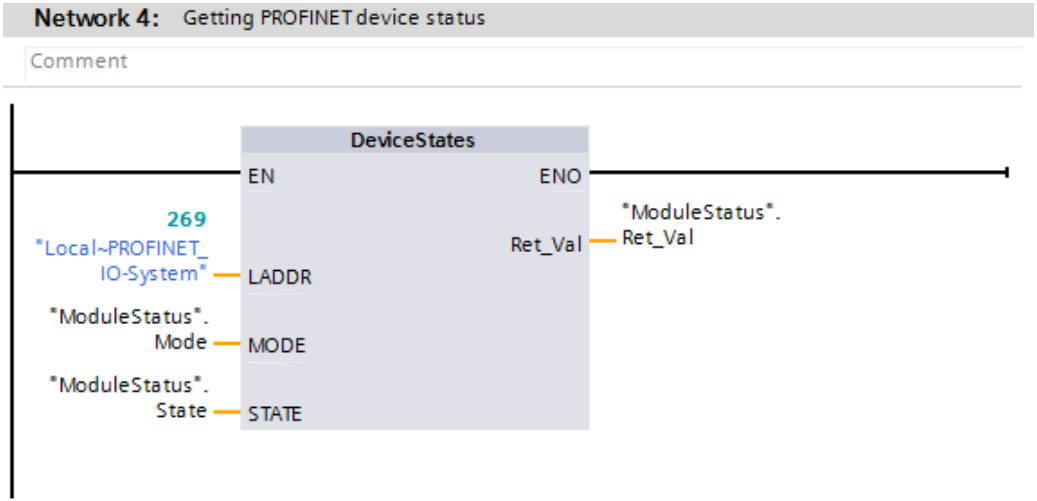
Task Solution:

Mode 3: IO/DP slaves are disabled

Bit 0:
1 = If any of the devices are disabled
0 = If none of the devices are disabled

Bit 1:
1 = Device number 1 is disabled
0 = Device number 1 is not disabled

Bit 2:
similar for Device number 2
...
...



What we are going to learn in this section:

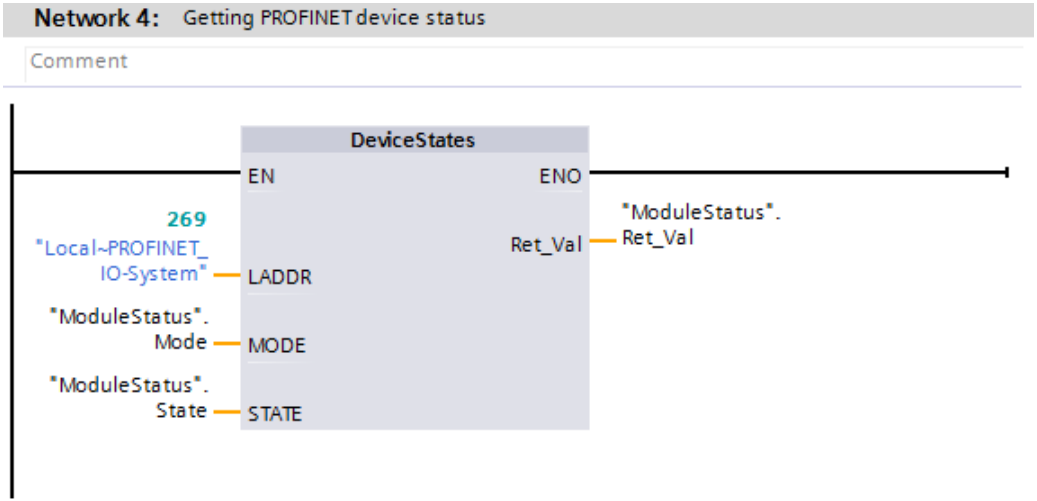
Task Solution:

Mode 4: IO/DP slaves exist

Bit 0:
1 = If any of the devices exist
0 = If none of the devices exist

Bit 1:
1 = Device number 1 exist
0 = Device number 1 does not exist

Bit 2:
similar for Device number 2
...
...



What we are going to learn in this section:

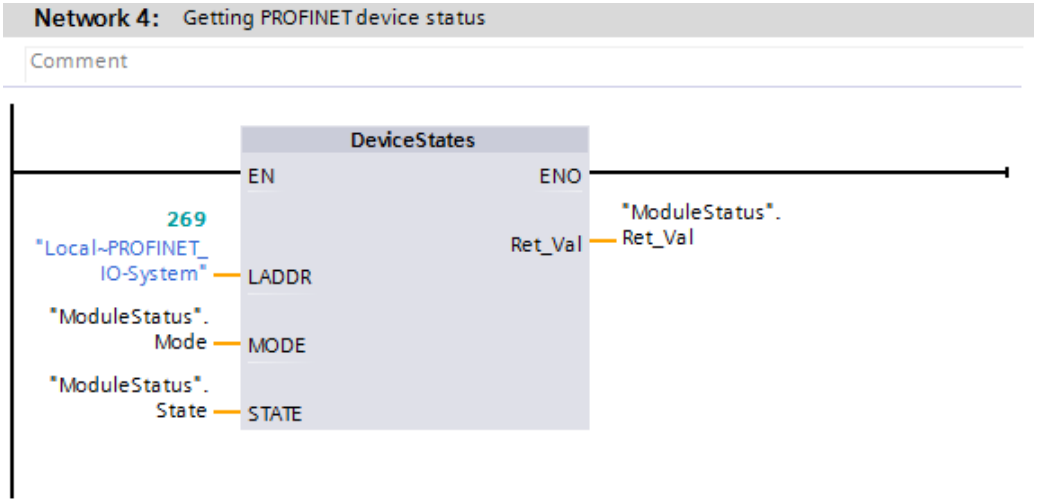
Task Solution:

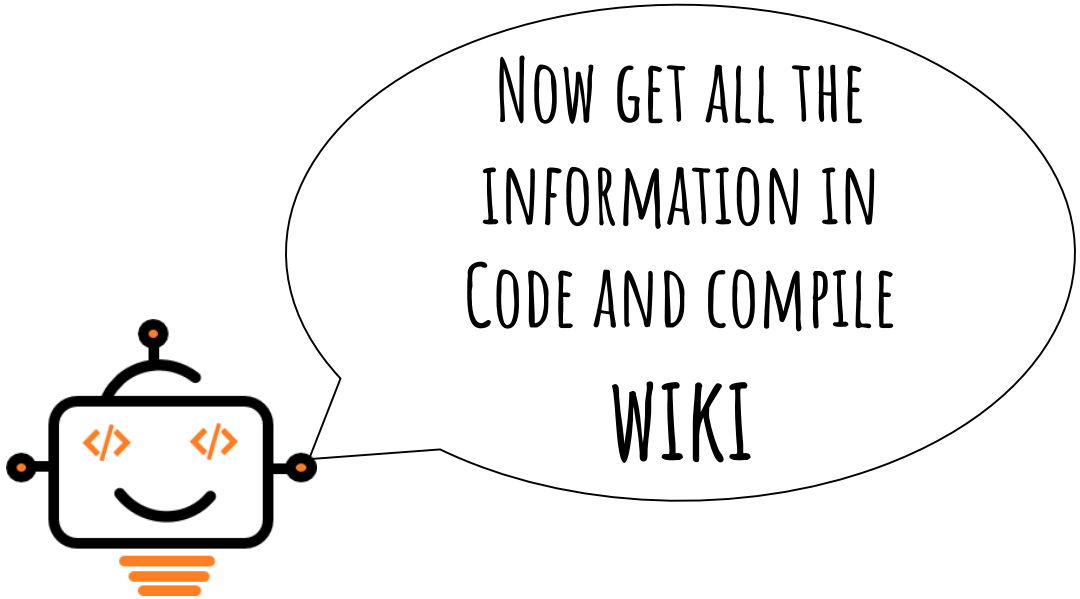
Mode 5: IO/DP slaves has problems

Bit 0:
1 = If any of the devices has problems
0 = If none of the devices has problems

Bit 1:
1 = Device number 1 has problems
0 = Device number 1 is OK

Bit 2:
similar for Device number 2
...
...





To get more information visit

https://www.codeandcompile.com

Link is also given in the video description