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Knowledge Base

EcoStruxure Machine Expert – Configure LXM32S as Sercos Drive with M660 Controller

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1 OBJECTIVE

This article will guide through the steps to use the **LXM32S** as **Sercos Drive** with **Modicon M660** Motion Controller.

Software Version
EcoStruxure Machine Expert V2.6

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2 PREREQUISITES

It is recommended to have knowledge of the following tools:

- EcoStruxure Machine Expert Logic Builder

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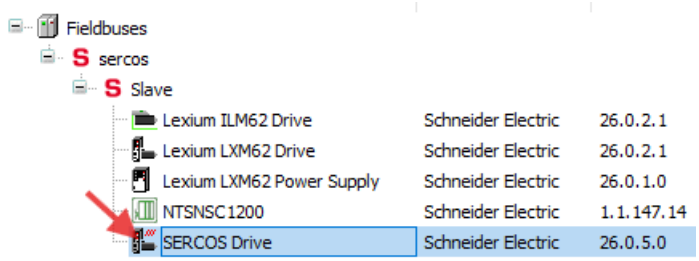
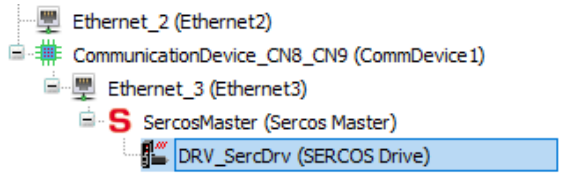
3 ADD AND CONFIGURE SERCOS DRIVE

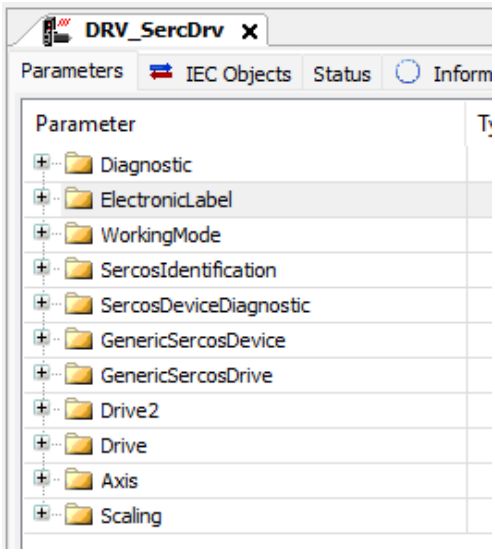
Right-click “**SercosMaste**r” node and add “**SERCOS Drive**”.



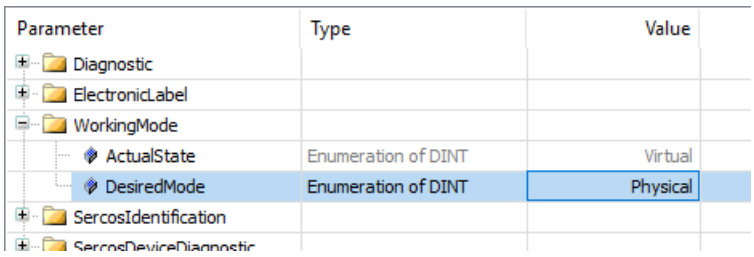
Result



Double-click “**DRV_SercDrv**” device. This opens its “Parameters” tab.



Expand the “**WorkingMode**” and change the desired mode to “**Physical**” mode.



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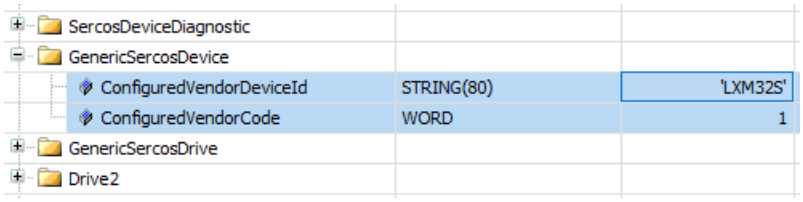
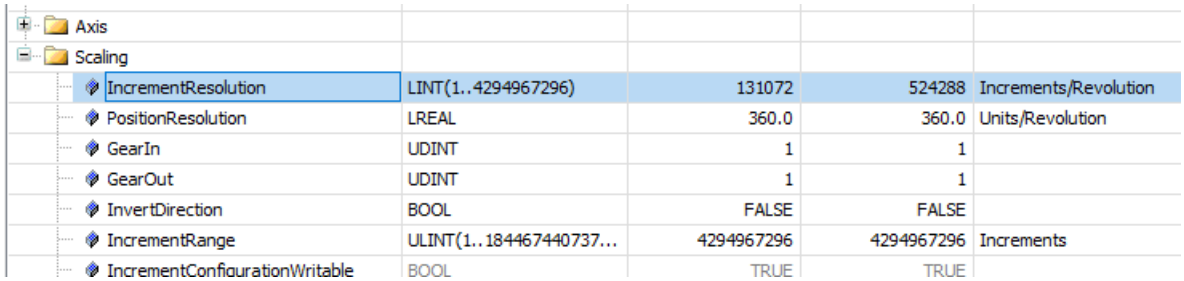
Expand the “**GenericSercosDevice**” and change the vendor device id to “**LXM32S**” and the vendor code to **1**.



Now we need also to configure the “**IncrementalResolution**”. Expand the “Scaling” and type the value “**131072**” which matches the default incremental resolution of **LXM32S**.



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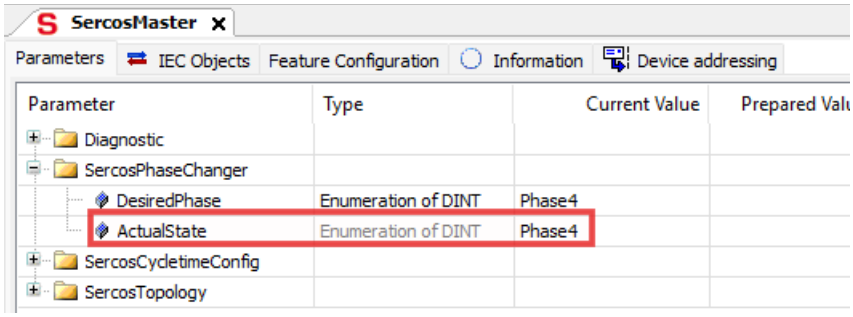
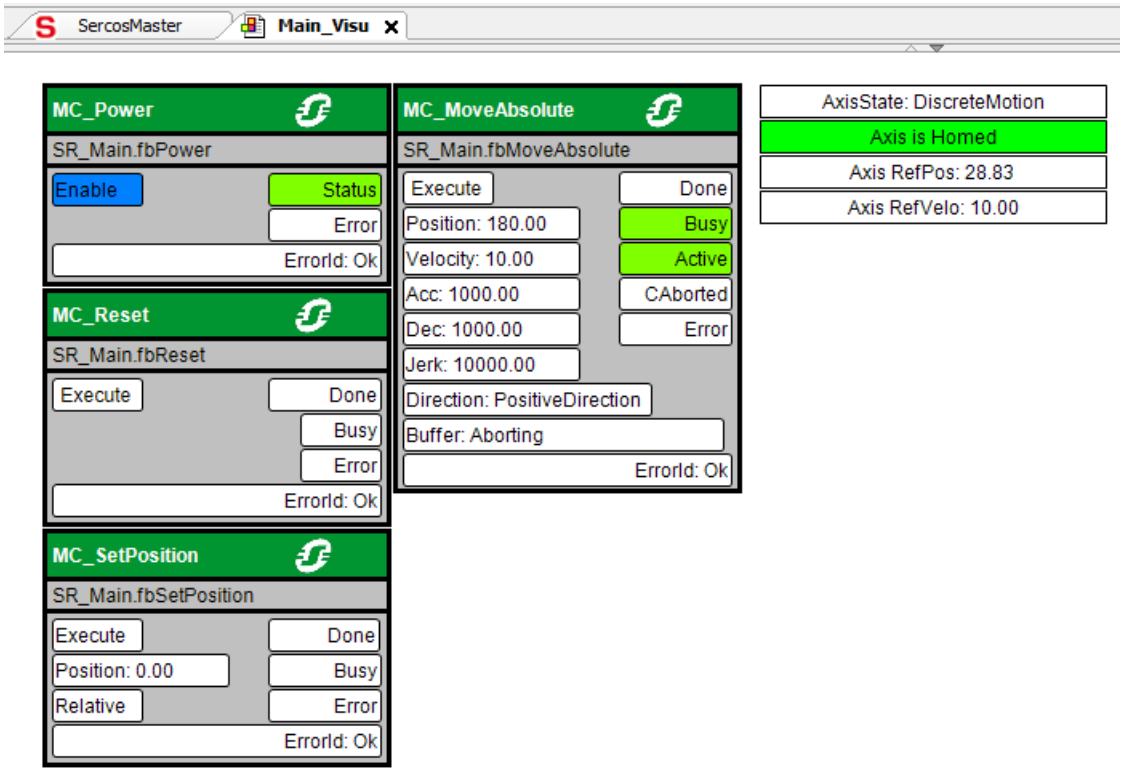
4 DOWNLOAD APPLICATION

Download the application to the controller and check the Sercos State.



Now you will be able to operate the drive via **PLCopen Function** Blocks as follows.



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5 CONCLUSION

By successfully completing these configuration steps, the LXM32S drive is fully integrated into the Sercos network with the Modicon M660 Controller. Setting the correct vendor ID, vendor code, and matching the incremental resolution to the drive's default (131072) ensures accurate communication and scaling.
Once the application is downloaded to the controller and the Sercos state reaches Phase 4, the drive is ready to be commanded smoothly and efficiently using standard PLCopen Function Blocks within EcoStruxure Machine Expert.

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