

Change EtherCAT Mailbox Size Jenny Science INTAX®/XENAX® with EtherCAT

Version 1.0.0

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EtherCAT®

INTAX® or XENAX® controller and EtherCAT®
Busmodule

Document Summary

The EoE (Ethernet over EtherCAT) connection can be slow on some PLCs and with certain network settings. If Webmotion takes longer than 5 seconds to load, the steps in this document may solve the problem.

By increasing the mailbox size, larger Ethernet frames can be sent over EoE. This can be tested by sending ping messages with a larger payload.

The ping command provides a parameter to send larger packets.

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1 Requirements

A XENAX or an INTAX with at least firmware version 8.16A is required. In addition, the XENAX requires an EtherCAT bus module, and the INTAX requires an EtherCAT license. The Busmodule must be at least V5.32.

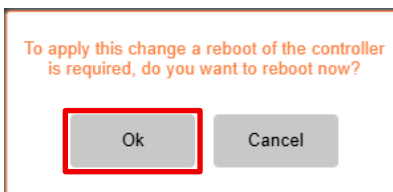
XENAX	Firmware	V8.16A
	WebMotion	V8.16A
	Hardware	V1.00
INDUSTRIAL ETHERNET	Stack	EtherCAT
	Firmware	V5.32
COPROCESSOR	Firmware	A.01.02

2 Configure Servo

Enter ECMBS followed by the Mailbox size.
Example: ECMBS1024



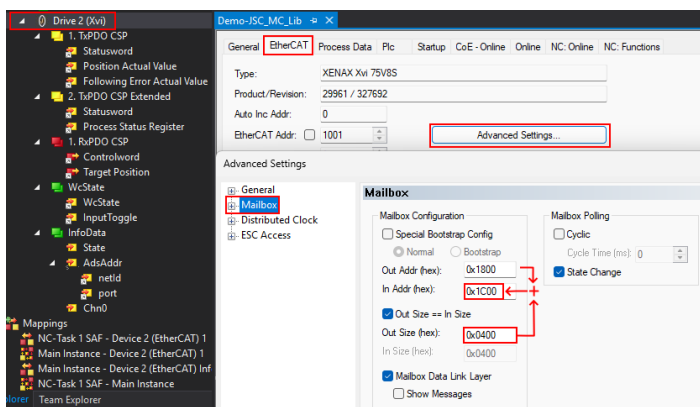
Select Ok to reboot the servo controller.



3 TwinCAT

After adding the servo controller in TwinCAT, configure the same mailbox size in the Mailbox settings (1024->0x0400).

The new "In Addr" is calculated by adding the "Out Addr" to the mailbox size ($0x1800 + 0x400 = 0x1C00$).



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