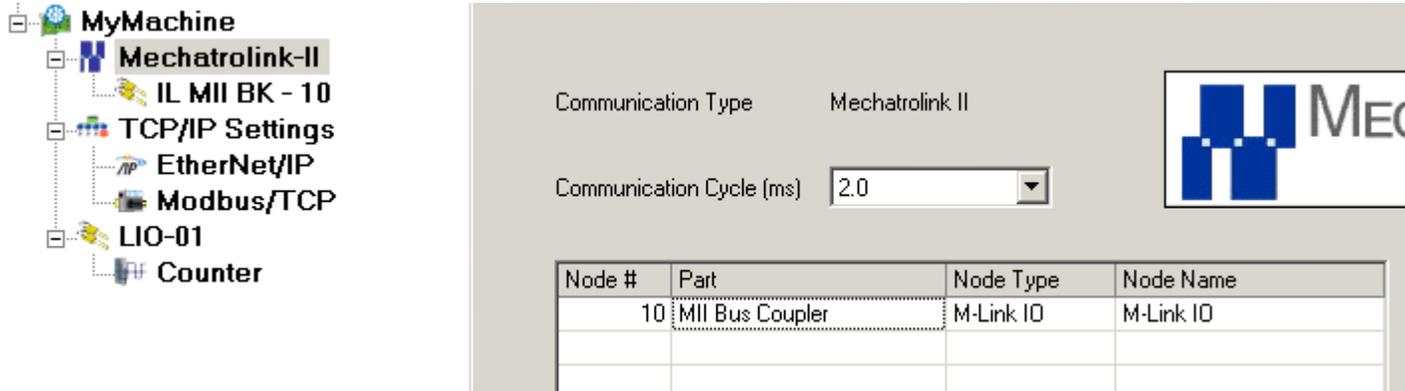


In this example, a phoenix MLINK bus coupler is used to replace an LIO-01 card in the MP2300Siec controller.

For more details on the Phoenix bus coupler:

[http://select.phoenixcontact.com/phoenix/dwl/dwl13a.jsp?fct=dwl&asid=824127&name=db\\_en\\_il\\_mii\\_bk\\_di8\\_do4\\_pac\\_7358\\_en\\_00.pdf&UID=2884619&prodid=&lang=en&lang=en&from=&f=me\\_doku/trans/english/5300/db/7358\\_en\\_00.pdf](http://select.phoenixcontact.com/phoenix/dwl/dwl13a.jsp?fct=dwl&asid=824127&name=db_en_il_mii_bk_di8_do4_pac_7358_en_00.pdf&UID=2884619&prodid=&lang=en&lang=en&from=&f=me_doku/trans/english/5300/db/7358_en_00.pdf)

Add the bus coupler (IL MIIBK -10) in the configuration tool while the CT is offline. Save.

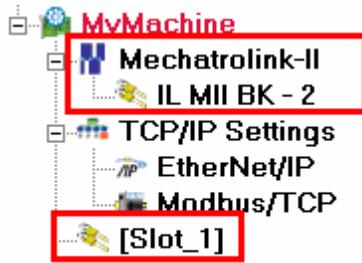


Adding an MLINK device

Transfer all variables that need to be given new addresses. LIO-1 IL MIIBK -10. Save the list of variable names in an excel worksheet. In the following example, ip1 and op1 were assigned to the LIO card and have now been transferred to the MLINK device.

ML110_DI_01	BOOL	VAR_GLOBAL	Digital Input #1	ML110_I1
<b>&lt;MII Bus Coupler&gt; - MechatrolinkIO - 10 (* Modify Variable Names, Not Group Name!! *)</b>				
ML110_DO_03	BOOL	VAR_GLOBAL	Digital Output #3	%QX3222.7
ML110_DO_02	BOOL	VAR_GLOBAL	Digital Output #2	%QX3222.6
ML110_DO_01	BOOL	VAR_GLOBAL	Digital Output #1	%QX3222.5
op1	BOOL	VAR_GLOBAL	Digital Output #0	%QX3222.4
ML110_DI_07	BOOL	VAR_GLOBAL	Digital Input #7	%IX3222.7
ML110_DI_06	BOOL	VAR_GLOBAL	Digital Input #6	%IX3222.6
ML110_DI_05	BOOL	VAR_GLOBAL	Digital Input #5	%IX3222.5
ML110_DI_04	BOOL	VAR_GLOBAL	Digital Input #4	%IX3222.4
ML110_DI_03	BOOL	VAR_GLOBAL	Digital Input #3	%IX3222.3
ML110_DI_02	BOOL	VAR_GLOBAL	Digital Input #2	%IX3222.2
ML110_DI_01	BOOL	VAR_GLOBAL	Digital Input #1	%IX3222.1
ip1	BOOL	VAR_GLOBAL	Digital Input #0	%IX3222.0

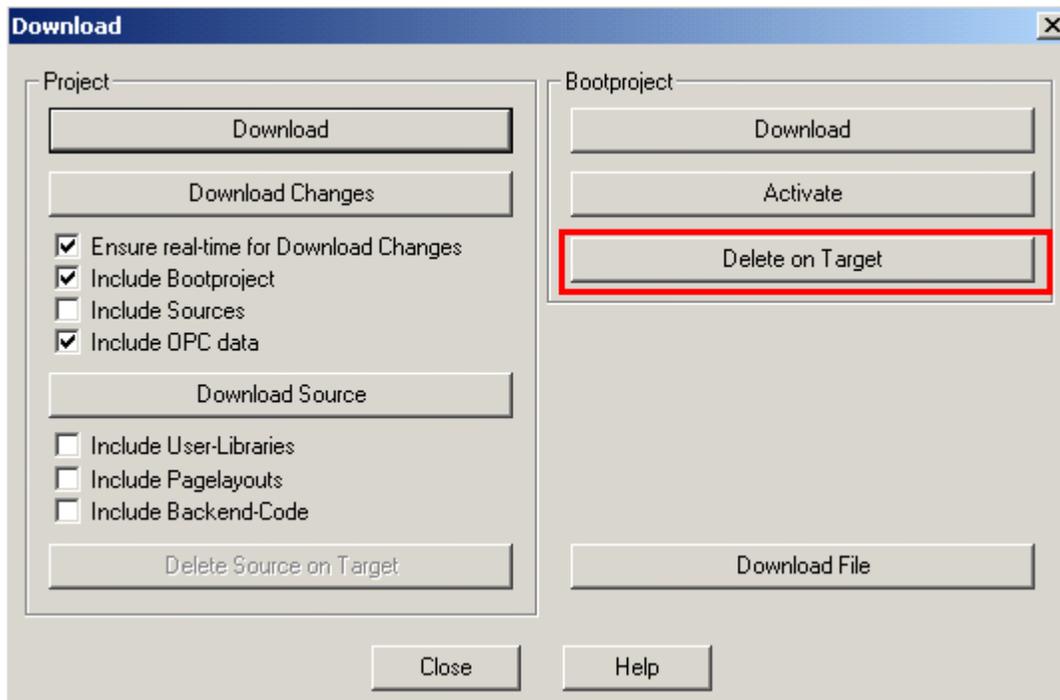
Delete the unwanted device from the CT configuration tree.



Device tree after the MLINK device was added and the LIO-01 card was deleted

Save the configuration and cycle power on the controller. When the controller powers up, an alarm mentioning missing logical inputs and outputs will be seen. This can be cleared in the web interface.

Delete the boot project from the controller by going to the download window and selecting 'Delete on Target'.



Log on to the web interface of the controller. Log in to the controller. Go to Project archives

The image shows a vertical menu on a blue background. The menu items are: Home, Welcome, Operation, Machine Operations, Alarm Status, Alarm Reference, Alarm History, Debugging Output, Configuration, Axis Grid, I/O Grid, Configuration Sets, Ethernet Config, Set Clock, Maintenance, Project Archive, Update Firmware, Initialize SRAM, Reboot. The 'Maintenance' section and its first item, 'Project Archive', are highlighted with a red rectangular box. At the bottom of the menu, it says 'Logged in as: Admin', 'Access Level: OEM', and 'Log Out'.

Save a copy of your project archive by clicking on the download button and saving 'archive.zip' in a safe location. This zip file is made up of the project files and supporting configuration files.

The image shows a horizontal bar with a light blue background and a dark blue border. In the center, the text 'Download Archive' is displayed in a bold, black, serif font. Below this text, there is a rectangular button with a light gray background and a dark gray border. The button contains the text 'Download' in a black, sans-serif font. The button is highlighted with a red rectangular box.

Once a backup copy has been made, delete all files in the archive.

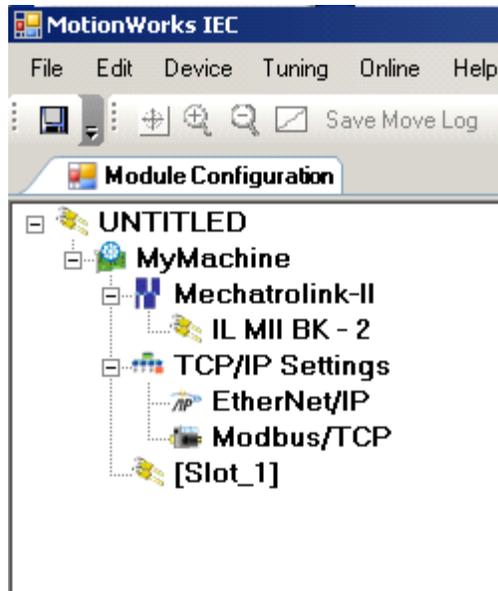
## File Listing

Filename	Size
procon/any/PcFiles.pcf	25
procon/any/Pdc.MLI	17
procon/any/Pdc.PRI	94
procon/any/sr.zsv	50
procon/boot/BootFile.pro	54
user/config/current.xml	6
user/config/disco/axis.xml	55
user/config/disco/hardware.xml	54
user/config/disco/io.xml	47
user/config/disco/servonet.xml	12
user/config/startup/axis.xml	63
user/config/startup/hardware.xml	60
user/config/startup/io.xml	64
user/config/startup/servonet.xml	56
user/config/startup/userdata.xml	26

**Delete All User Files**

Delete

Turn on the CNFG switch. Cycle power on the controller. Go to the CT and connect to the controller. Choose the configuration found during 'auto discovery'. Now the configuration tree will have the new configuration.



Click 'save'. This configuration will be saved. Cycle power on the controller. Notice that the variable addresses in the global variable list in the MW IEC program will have changed. Paste the variable names from the excel worksheet to the variable column in the global variable list. Make the project and download it.

◻ <MII Bus Coupler> - MechatrolinkIO - 2 (* Modify Variable Names, Not Group Name!! *)					
ML12_DO_03	BOOL	VAR_GLOBAL	Digital Output #3	%QX3220.7	
ML12_DO_02	BOOL	VAR_GLOBAL	Digital Output #2	%QX3220.6	
ML12_DO_01	BOOL	VAR_GLOBAL	Digital Output #1	%QX3220.5	
op1	BOOL	VAR_GLOBAL	Digital Output #0	%QX3220.4	
ML12_DI_07	BOOL	VAR_GLOBAL	Digital Input #7	%IX3220.7	
ML12_DI_06	BOOL	VAR_GLOBAL	Digital Input #6	%IX3220.6	
ML12_DI_05	BOOL	VAR_GLOBAL	Digital Input #5	%IX3220.5	
ML12_DI_04	BOOL	VAR_GLOBAL	Digital Input #4	%IX3220.4	
ML12_DI_03	BOOL	VAR_GLOBAL	Digital Input #3	%IX3220.3	
ML12_DI_02	BOOL	VAR_GLOBAL	Digital Input #2	%IX3220.2	
ML12_DI_01	BOOL	VAR_GLOBAL	Digital Input #1	%IX3220.1	
ip1	BOOL	VAR_GLOBAL	Digital Input #0	%IX3220.0	