

Migrating from an existing MVI69-MNETC to MVI69E-MBTCP Document Code: TN-MVI69E-MBTCP_Migrating from MVI69-MNETC_01-1906 Revision: 1

Applicable products include:

Converting from:

• MVI69-MNETC



Converting to:

• MVI69E-MBTCP



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Introduction

This document describes how to export an existing configuration from an older MVI69-MNETC and convert it so that it can be imported into a MVI69E-MBTCP to make it work the same as the older module. This document will be helpful to anyone wanting to replace an existing MVI69-MNETC with the new MVI69E-MBTCP.

NOTE: It is highly recommend to review the MVI69E-MBTCP training video on ProSoft Technology's YouTube channel: <u>https://www.youtube.com/watch?v=0C3H1u40Fug&t=650s</u>

What you need to have on your Personal Computer 1.-Prosoft Configuration Builder : <u>https://www.prosoft-technology.com/Products/ProSoft-Software/ProSoft-Configuration-Builder</u> 2.-A simple text editor. (Microsoft Windows Notepad, notepad ++, etc.)

If you do not have a saved backup. Backing up configuration from the MVI69-MNETC.

Install Prosoft Configuration Builder (optional). Open Prosoft Configuration Builder.



Add the MVI69-MNETC Module



Cł	noose Moo	dule Type		
			Produ	ct Line Filter-
	C All	C PLX4000	O PLX6000	O MVI46
	O All	O PLX5000	C PLX30	MVI69
		O MVI69E	C MVI69L	O PLX80
			Search	Module Type
	STEP 1:	Select Module	Туре	Module Defir
				MODBUS TO
	S <mark>MVI69-</mark>	MNETC	-	
	Sectio	n	Status	Action Re
	/ Mod	ula -	Used	UnCharle



Technical Note

Upload From Device to PC

⊡ Default Proje	ocation
••••• In M	Delete
	Rename
	Сору
	Paste
	Choose Module Type
	Configure
	Verify
	View Configuration
	Write to Compact Flash
	Export Configuration File(s)
	Load Config File
	Add External File
	Download from PC to Device
	Upload from Device to PC
	Diagnostics

Select the serial port or the Serial Port of the USB converter, used to connect the module.

TEP 1: Select Communicatio	n Path:	
Select Connection Type:	Com 1	Browse Device(s)
Ethernet:		Use Default IP
CIPconnect:		CIP Path Edit
,		RSWho
TEP 2: Transfer File(s):		
UPLOAD	Abort	Test Connection



Exporting the Configuration File from MVI69-MNETC

Open the project the current MVI69-MNETC module was configured in. Export the configuration File by right clicking the module to open the shortcut window then select Export Configuration File(s).



Note: A WATTCP.CFG file will also be generated, ignore this for now.



Add a MVI69E-MBTCP module

Export MVI69E-MBTCP the configuration File







Modifying the MVI69E-MBTCP Configuration File using the MVI69-MNETC Configuration File.

Using a Text Editor, open the .cfg files were saved.

Remplace the general parameters of the MVI69E-MBTCP file using the parameters of the MVI69-MNETC.

Note: Slot Number (Slot number where the MVI69E-MBTCP inserted)

MVI69-MNETC.cfg - Notepad	MVI69E-MBTCP.cfg - Notepad
File Edit Format View Help	File Edit Format View Help
<pre># Module Information # Last Change: Jun. 21, 2019 01:59 # Last Download: Never # Application Rev: # OS Rev: # Loader Rev: # MAC Address: # ConfigEdit Version: 4.4.17.0</pre>	<pre># Module Information # Last Change: Jun. 21, 2019 02:17 # Last Download: Never # Application Rev: # 05 Rev: # Loader Rev: # MAC Address: # ConfigEdit Version: 4.4.17.0 # ProSoft Technology</pre>
# ProSoft Technology [Module] Module Type : MVI69-MNETC Module Name : MVI69-MNETC	[Module] Module Type : MVI69E-MBTCP Module Name : MVI69E-MBTCP Read Register Start : 0
Error/Status Pointer : 4000 Read Register Start : 0 Read Register Count : 600 Write Register Start : 600 Write Register Count : 600 Failure Flag Count : 0 Block Transfer Size : 60 Initialize Output Data : 0 Duplex/Speed Code : 0	Read Register Count: 600Write Register Start: 600Write Register Count: 600Failure Flag Count: 0Error/status Pointer: 4000Initialize Input Image: 0Block Transfer Size: 60Slot Number: 1

Note: MVI69-MNETC does not work as Modbus Modbus TCP Server. Do not modify the parameters by default.

[MBTCP Servers] Start Active Pass-Through Mode Float Flag Output Offset Bit Input Offset Holding Register Offset Word Input Offset Connection Timeout	: Y : 0 : N : 0 : 0 : 0 : 0 : 600
---	--



Migrating from an existing MVI69-MNETC to MVI69E-MBTCP

Remplace all clients parameters of the MVI69E-MBTCP file using the parameters of the MVI69-MNETC.

Note: The MVI69-MNETC has 30 Modbus Clients and the MVI69E-MBTCP only 19, If the application to migrate uses more than 19 clients, it is necessary to redistribute the commands in only 19 clients.



Repeat the previous step until all clients are finished and Save all the changes.

Importing the new configuration.

In Prosoft Configuration Builder, In the Tree View, right click MVI69E-MBTCP and select Load Config File, then select the MVI69E-MBTCP .cfg file previously edited.



When you get the following warning, click OK, this is intended.

ProSoft Co	nfiguration Builder	J
4	Warning: This will remove the current configuration. Continue?	
	OK Cancel	

Click MVI69-MNETC \rightarrow Ethernet Configuration and Copy the configuration to MVI69E-MBTCP \rightarrow Ethernet 1.



Remove the MVI69-MNETC in Logix5000

There are 2 possible ways to remove the logic of Module MVI69-MNETC from Logix500.

When the Module was configured using **AOI** (versions 16 or higher) and when it was configured using **Example Ladder**.

A) AOI Procedure.





Technical Note

Migrating from an existing MVI69-MNETC to MVI69E-MBTCP

Write the Word "AOI69MNETC" using All routines.

Find in Routi	nes			×
Find What:	A0169E_MBTCP		▼	Find Next
Limit To:	Text Only		-	Find All
Find) (here)	Ann a			Replace
rinu wriele.				Close
🔽 Wrap		Direction:		Help
📃 Match W	hole Word Only	C Up 💿 Dowr	ı	
— Find With Function Charts, S	nin ———————————————————————————————————	Diagrams, Sequential Func	tion	Find Within >>

Delete the Rung Found.

MARGA MARTY CAMPLE LADDER LOOK	
- IN DOWNED SHARE ENDER EVEN	
DESCRIPTION	
This sample ladder logic implements the required ladder for data transfer between the processor and the MVI69-MNETC module. The following features are supported by this sample ladder logic: Modulus TCPNP data transfer for up to 30 client	ts. Command Control. Event Control. Warrm Boot. Cold Boot.
Status Transfer	
REVISION HISTORY	
version 1.1 (08/14/2009 -) Updated Rung 4 Branch 15 to prevent WriteData[x] values from being applied as WriteOndBits data when Block ID=0.	
version 1.0. (08/29/2008) - Release	
	Block Transfer
	Array Size [62] or
	[122] or [242]
NEG	CPS
Not Equal	Synchronous Copy File
Source A Locat1:1Deta[0]	Source Local1:I.Data[0]
	Dest Connection_input Data[0]
Source D Invest. Unit. Lasreau	Leigin 62
	Add On instruction
	interface between
	the CompactLogix
	backplane and the MURO MNETC methods
	MVIDS-MINETC INDUDIE.
	And On instruction interface between the C
	ACCOMPANY ACCOMP
	Connection Innut Connection Innut
	Connection Output Connection Output
	MNETC MNetC
	CBC
	Sunchronous Conv File
	Source, Connection, Output Data[0]
	Dest Local:1:0.Data[0]
	Length 61

B) Example Ladder Procedure.

NOTE: If Logix5000 is earlier than version 16 - Contact with Prosoft-Technology Support.Open

Main Routine In Logix5000 Click on Search \rightarrow Find

III LOGINGOUC		Jugar		nu			
	👪 RSLog	і <mark>к 5000 -</mark> С	ompact	Logix in M ⁱ	VI69MNETC	_ v :	
	🗎 File I	Edit View	Search	Logic Cor	nmunications	; Т	
	a 🚅		Ein	d	Ctrl+F		
			<u>R</u> e	place	Ctrl+H		
	Offline	[Go	То	Ctrl+G		
	No Forces	▶, ¦	Bro	wse Logic	. Ctrl+L		
\ A /	KIL TILL	- 					
write the w	ord	NETC					
	Find in Rou	tines					×
	Find What:	MNETC				•	Find Next
	Limit To:	Text Only			•	-	Find All
							Replace
	Find Where	Current Rou	utine			1	Close
	V/ran			Direction:			
	Match \	Whole Word Or	nlu	O Un	Down		Help
			Č.	0,0			
	- Find Wi	ithin —			11 J T 11	-	Find Within >>
	Functio Charts,	n Block Diagram Structured Text	ms, Ladder D t	hagrams, Seque	ential Function		







Migrating from an existing MVI69-MNETC to MVI69E-MBTCP

ReadData Routine should has 8 Rung and WriteData Routine should 13 Rungs if there are more than 8 and 13 rungs the routine could be enlarged or modified and it should be compared with an Example Ladder unedited to define what can be eliminated.

Example Ladder:

https://www.prosoft-technology.com/content/download/1511/10818/version/8/file/MVI69MNETC+SAMPLE+LADDERS.zip

If ReadData Routine and WriteData Routine has 8 y 13 Rungs (the rung 0 is countable) remove completely the Routines.







Edit Properties from MVI69-MNETC for MVI69E-MBTCP

🖃 🔄 Controller CompactLogix		1									
- 2 Controller Tags				 							
Controller Haut Handler				 Module Prop	erties - Local:1 (1769	9-MODULE 1.1)					<u>×</u>
Tacks											
🗄 🔄 MainTask				 General Conn	ection						
🕀 🕞 MainProgram											-11
- 🗀 Unscheduled Programs				 Type:	1769-MODULE Generic	1769 Module					
🖶 📇 Motion Groups				 - ·							
Ungrouped Axes				 Parent:	Local	ſ	- Connection Pa	rameters —			
Trends								Assembly			
🕀 📹 Data Types								Instance:	Size:		
E Strings				 	MULTO			101	62		
Predefined				 Na <u>m</u> e:	MINETC		Input:		02	- (16-Dit)	
H Module-Defined					r			100	01		
- 🔄 I/O Configuration				 Description:		<u>^</u>	O <u>u</u> tput:	100	ы	🔁 (16-bit)	
- 🛷 [1] 1769-L35E Ethernet Port Lo	ocalE	NB								_	
GompactBus Local						-	<u>Configuration:</u>	102	0	ᅻ (16-bit)	
	0			 						_	
	U	New Module		 Comm Format:	Data - IN I	<u> </u>					
	ж	Cut	Ctrl+X	 Class	1						
		Сору	Ctrl+C	 51 <u>0</u> 1.							
	R	Paste	Ctrl+V			L					
		Delete	Del								
								-	- 1 -	1	-1
		Cross Reference	Ctrl+E	 Status: Offline		OK	Cancel	Apply		Help	
l i	-	Properties									
<u> </u>											

Secondary click on the MNETC Module and Click on Properties

Edit only the name. Example: MVI69E_MBTCP

Please do not change the instance values or sizes. The appropriate size was configured in the section <u>"Modifying the MVI69E-MBTCP Configuration File using the MVI69-MNETC Configuration File"</u>.

🔜 Module Prop	erties - Local:1 (1769-MODULE 1.1)				×
General* Con	nection				
Type:	1769-MODULE Generic 1769 Module				
Parent:	Local	- Connection Pa	rameters Assembly Instance:	Size:	
Na <u>m</u> e:	MVI69E_MBTCP	Input:	101	62 ÷	(16-bit)
Descri <u>p</u> tion:		O <u>u</u> tput:	100	61 ÷	(16-bit)
Comm <u>F</u> ormat:	Data - INT	<u>C</u> onfiguration:	102	ļ0 ≘	(16-bit)
Sl <u>o</u> t	1				
Status: Offline	OK	Cancel	Apply	н	elp

Click ok.



Adding the logic for the MVI69E-MBTCP

In Prosoft Configuration Builder, select the Module MVI69E-MBTCP previously configured. Right Click on the MVI69E-MBTCP module and click on export AOI File.



Save in the location of your preference.

Right Click on Main routine \rightarrow Import Rungs \rightarrow select the location of the AOI File created in the previous step.





The Slot where the MVI69E-MBTCP module is located must match.

- 🚑 Mair	it nTask	Configure Tag Reference	\$		_	_			_
MainProgram MainRoutine (Rungs)	Import Name	Operation	🔓 Final Name 🛛 🗠	Alias For	Data Type	Description	External Access	Consta	
	A0169E_MBTCP	Create	ADI69F_MBTCP		A0169E_M		Read/Write	Г	
	Local1:1	Use Existing	Local:1:1		AB:1769_M		Read/Write	Г	
	Add-On Instruction	Local1:0	Use Existing	🔽 Local:1:0 🌙		AB:1769_M		Read/Write	Г
🔛 Data Types	🛛 🕅 Data Types	MBTCP	Create	MBTCH		MBTCPMO		Read/Write	Г
			slot n MBT(umber in the r CP module is	ack where installed.	e the MVI	69E-		
		x	slot n MBT0	umber in the r CP module is	ack where installed.	e the MVI	69E-		1
		<u></u>	slot n MBT(umber in the r CP module is	ack where installed.	e the MVI	69E-		1
		<u>دا</u>	slot n MBT	umber in the r CP module is	ack where	e the MVI	39E-		

NOTE: If Logix5000 is earlier than version 16 - Contact with Prosoft-Technology Support.

Writing and Reading Data

The module MVI69E-MNETC, reads and writes using the TAGS: MNetC.DATA.ReadData [x] MNetC.DATA.WriteData [x]

The module MVI69E-MBTCP, reads and writes using the TAGS: MBTCP.DATA.ReadData [x] MBTCP.DATA.WriteData [x]

The Reads will now arrive at MBTCP.DATA.ReadData [x] and the Writes must out from MBTCP.DATA.WriteData [x], it is necessary to generate the Cross References to order this or generate the corresponding Aliases.