

# Technical Note



## 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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### Contents

Introduction .....	3
If you do not have a saved backup. Backing up configuration from the MVI69-MNETC. ....	3
Exporting the Configuration File from MVI69-MNETC .....	5
Modifying the MVI69E-MBTCP Configuration File using the MVI69-MNETC Configuration File. 6	
Importing the new configuration. ....	7
Remove the MVI69-MNETC in Logix5000.....	8
Edit Properties from MVI69-MNETC for MVI69E-MBTCP .....	12
Adding the logic for the MVI69E-MBTCP .....	13
Writing and Reading Data .....	14

## 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:** <https://www.youtube.com/watch?v=0C3H1u40Fug&t=650s>

### What you need to have on your Personal Computer

#### 1.-Prosoft Configuration Builder :

<https://www.prosoft-technology.com/Products/ProSoft-Software/ProSoft-Configuration-Builder>

#### 2.-A simple text editor. (Microsoft Windows Notepad, notepad ++, etc.)

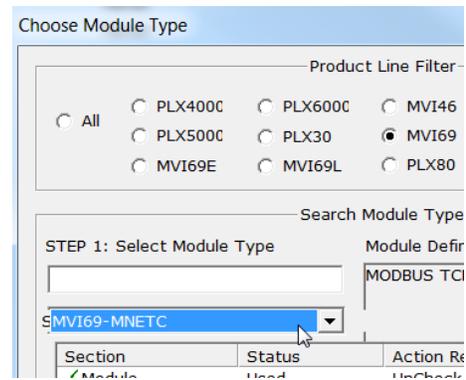
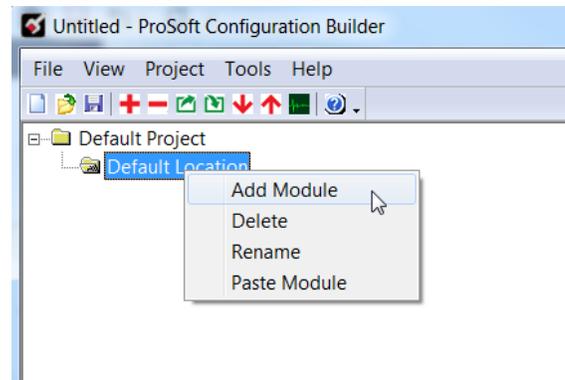
## If you do not have a saved backup. Backing up configuration from the MVI69-MNETC.

Install Prosoft Configuration Builder (optional).

Open Prosoft Configuration Builder.



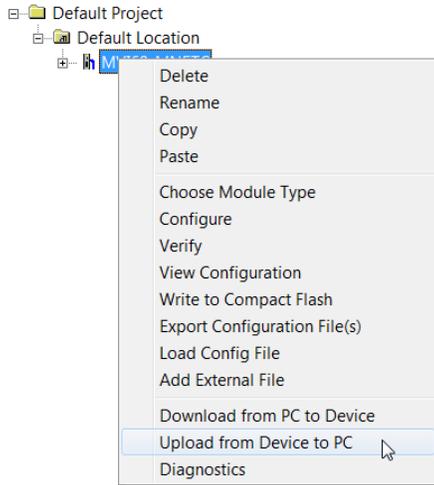
Add the MVI69-MNETC Module



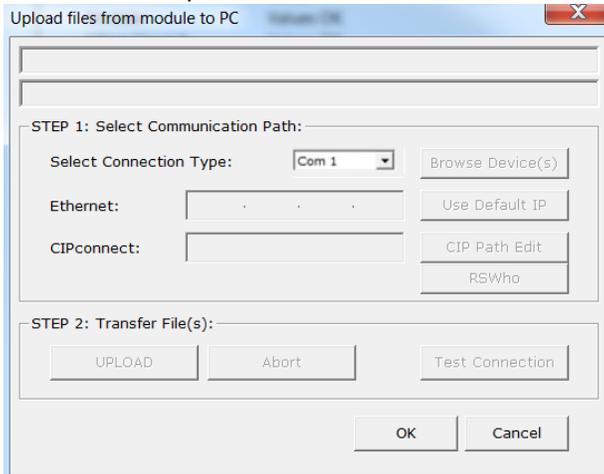
**Migrating from an existing MVI69-MNETC to MVI69E-MBTCP**

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Upload From Device to PC

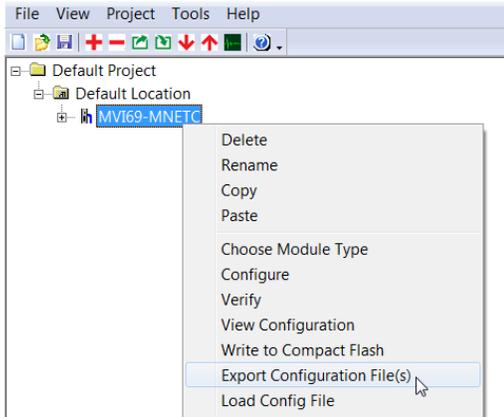


Select the serial port or the Serial Port of the USB converter, used to connect the module.



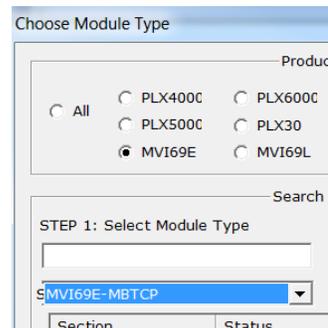
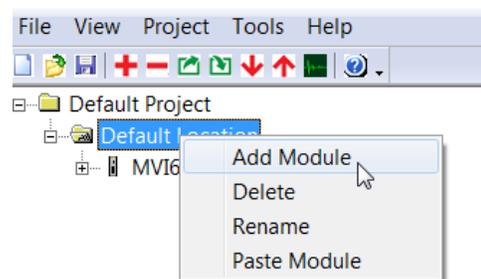
### Exporting the Configuration File from MVI69-MNETC

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).

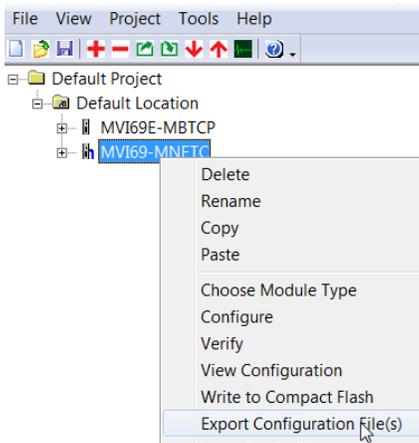


Note: A WATTCP.CFG file will also be generated, ignore this for now.

Add a MVI69E-MBTCP module



Export MVI69E-MBTCP the configuration File



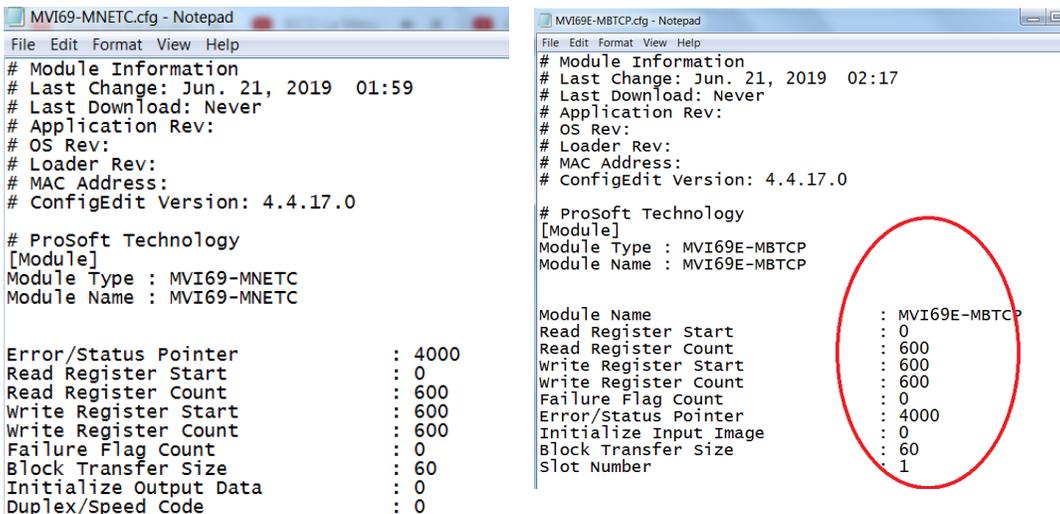
## Migrating from an existing MVI69-MNETC to MVI69E-MBTCP

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

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

Replace 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
File Edit Format View Help
# 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

# ProSoft Technology
[Module]
Module Type : MVI69-MNETC
Module Name : MVI69-MNETC

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

MVI69E-MBTCP.cfg - Notepad
File Edit Format View Help
# Module Information
# Last Change: Jun. 21, 2019 02:17
# Last Download: Never
# Application Rev:
# OS Rev:
# Loader Rev:
# MAC Address:
# ConfigEdit Version: 4.4.17.0

# ProSoft Technology
[Module]
Module Type : MVI69E-MBTCP
Module Name : MVI69E-MBTCP

Module Name                : MVI69E-MBTCP
Read Register Start        : 0
Read Register Count        : 600
Write Register Start       : 600
Write Register Count       : 600
Failure Flag Count        : 0
Error/Status Pointer      : 4000
Initialize Input Image     : 0
Block Transfer Size        : 60
Slot Number                 : 1
  
```

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

```

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

## Migrating from an existing MVI69-MNETC to MVI69E-MBTCP

Replace 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.

```
[MNet Client 0]
Error/Status Pointer      : -1
Command Error Pointer     : -1
Minimum Command Delay    : 0
Response Timeout         : 1000
Retry Count               : 0
Float Flag                : N
ARP Timeout               : 5
Command Error Delay      : 0
MBAP Port Override       : N

[MNet Client 0 Commands]
START
# Enable Internal Poll Int Reg Coun Swap Cod Node IP Serv Por Slave Ad ModBus F MB Addr Comment
1 1 0 0 10 0 0 192.168.1.10 502 1 3 0 0 #
1 1 10 0 10 0 0 192.168.1.10 502 1 3 100 0 #
END

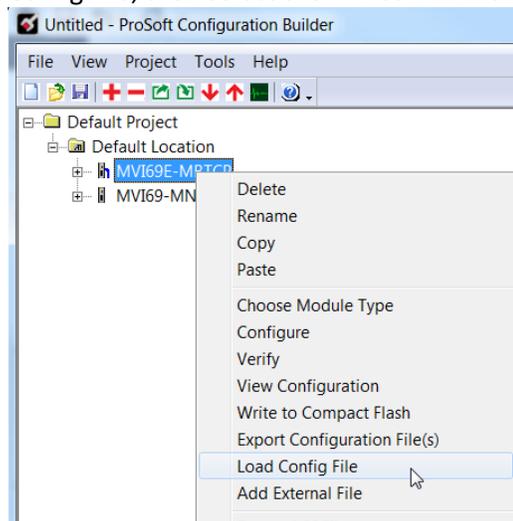
[MBTCP Client 0]
Enabled : Y
Start Active : Y
Error/Status Pointer : -1
Command Error Pointer : -1
Minimum Command Delay : 0
Response Timeout : 1000
Retry Count : 0
Float Flag : N
ARP Timeout : 5
Command Error Delay : 0
MBAP Port Override : N

[MBTCP Client 0 Commands]
START
# Enable Internal Poll Int Reg Coun Swap Cod Node IP Serv Por Slave Ad ModBus F MB Addr Override Comment
1 1 0 0 10 0 0 192.168.1.10 502 1 3 0 0 #
1 1 10 0 10 0 0 192.168.1.10 502 1 3 100 0 #
END
```

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

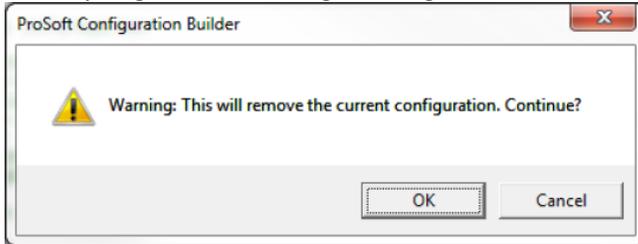
## Importing the new configuration.

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.

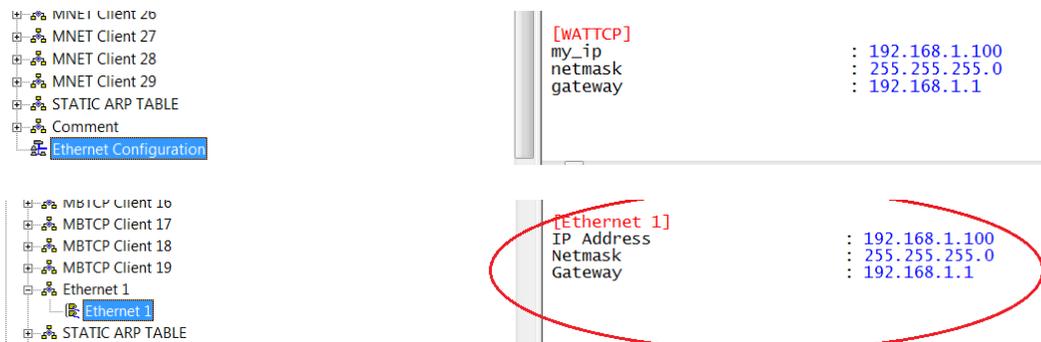


## Migrating from an existing MVI69-MNETC to MVI69E-MBTCP

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



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



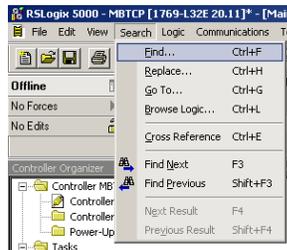
## Remove the MVI69-MNETC in Logix5000

There are 2 possible ways to remove the logic of Module MVI69-MNETC from Logix5000.

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

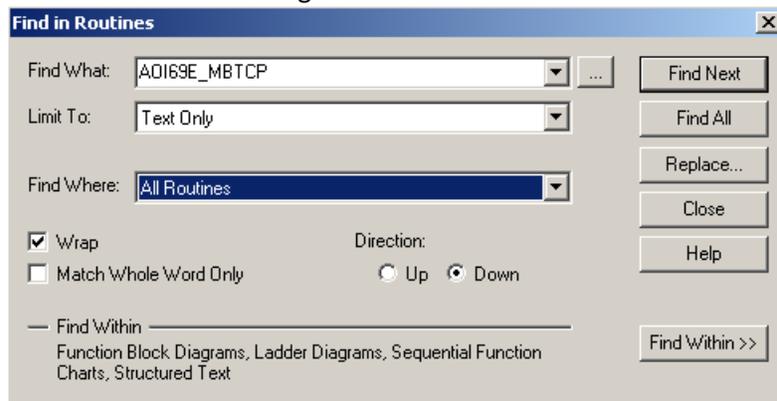
### A) AOI Procedure.

In Logix5000 Click on Search → Find



## Migrating from an existing MVI69-MNETC to MVI69E-MBTCP

Write the Word "AOI69MNETC" using All routines.



Delete the Rung Found.

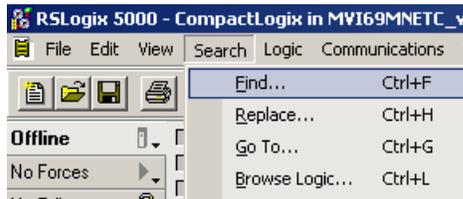


### B) Example Ladder Procedure.

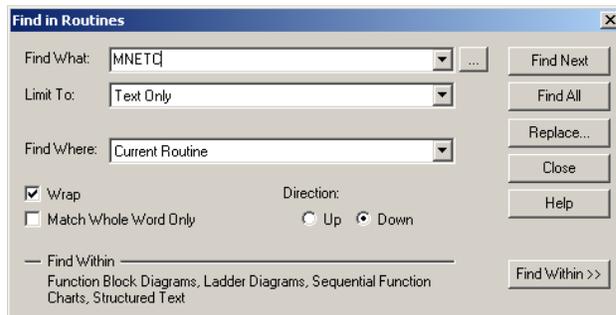
NOTE: If Logix5000 is earlier than version 16 - Contact with Prosoft-Technology Support. Open

Main Routine

In Logix5000 Click on Search → Find

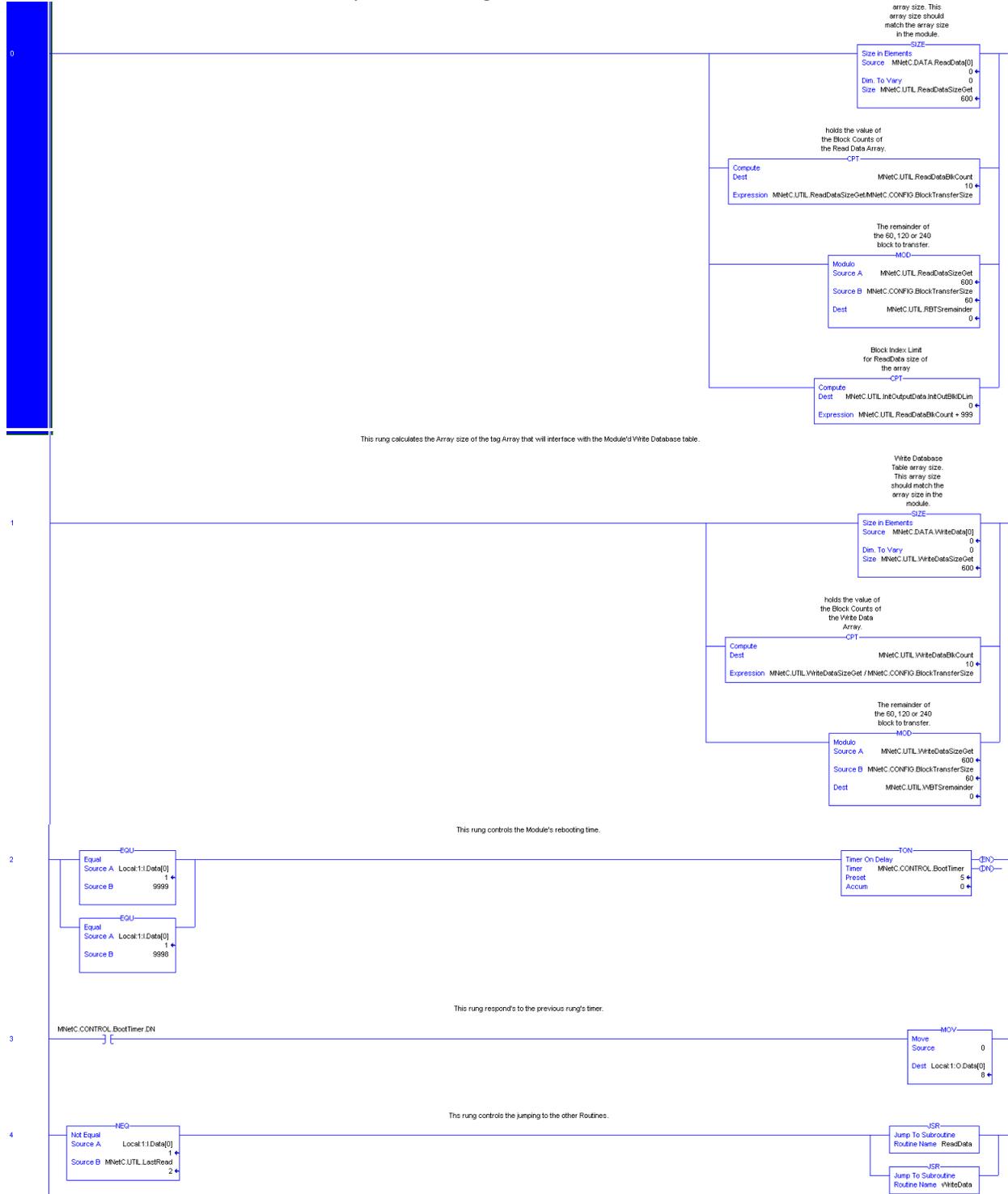


Write the word "MNETC"



## Migrating from an existing MVI69-MNETC to MVI69E-MBTCP

In Main Routine remove only these 5 Rungs.



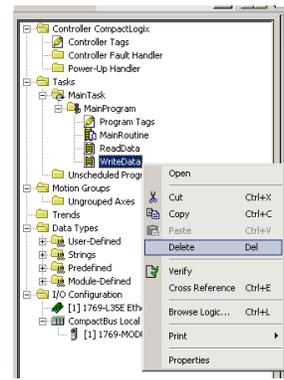
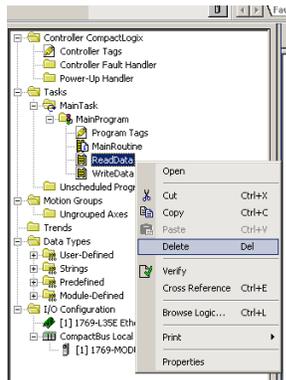
## Migrating from an existing MVI69-MNETC to MVI69E-MBTCP

ReadData Routine should have 8 Rung and WriteData Routine should have 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>

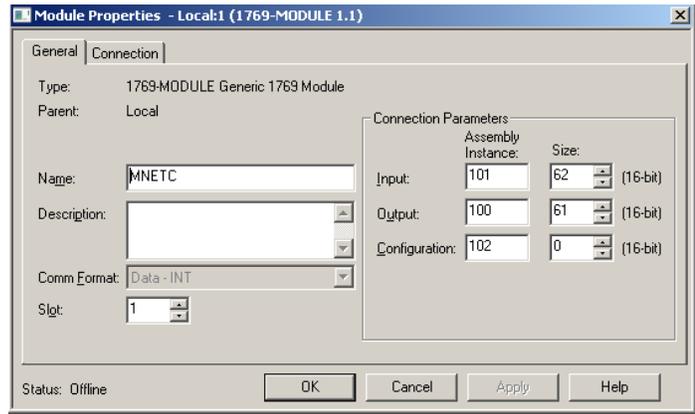
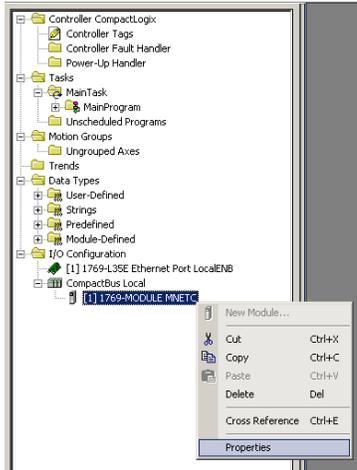
If ReadData Routine and WriteData Routine has 8 y 13 Rungs (the rung 0 is countable) remove completely the Routines.



## Migrating from an existing MVI69-MNETC to MVI69E-MBTCP

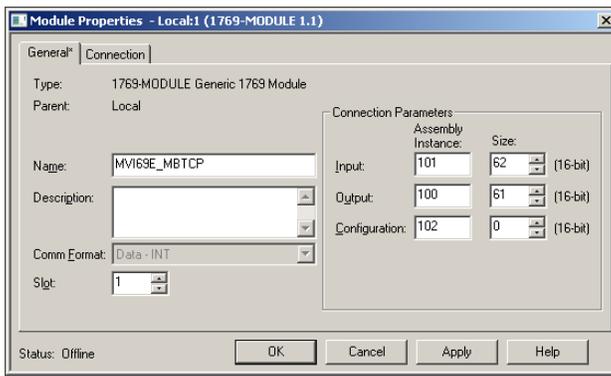
### Edit Properties from MVI69-MNETC for MVI69E-MBTCP

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 ["Modifying the MVI69E-MBTCP Configuration File using the MVI69-MNETC Configuration File"](#).

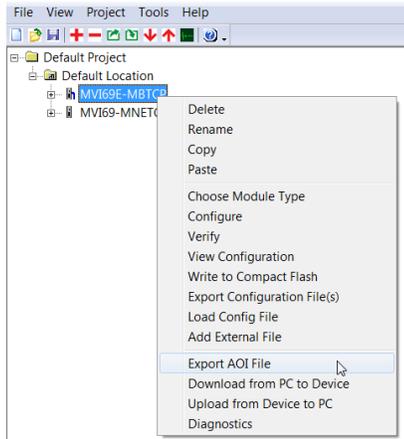


Click ok.

## Migrating from an existing MVI69-MNETC to MVI69E-MBTCP

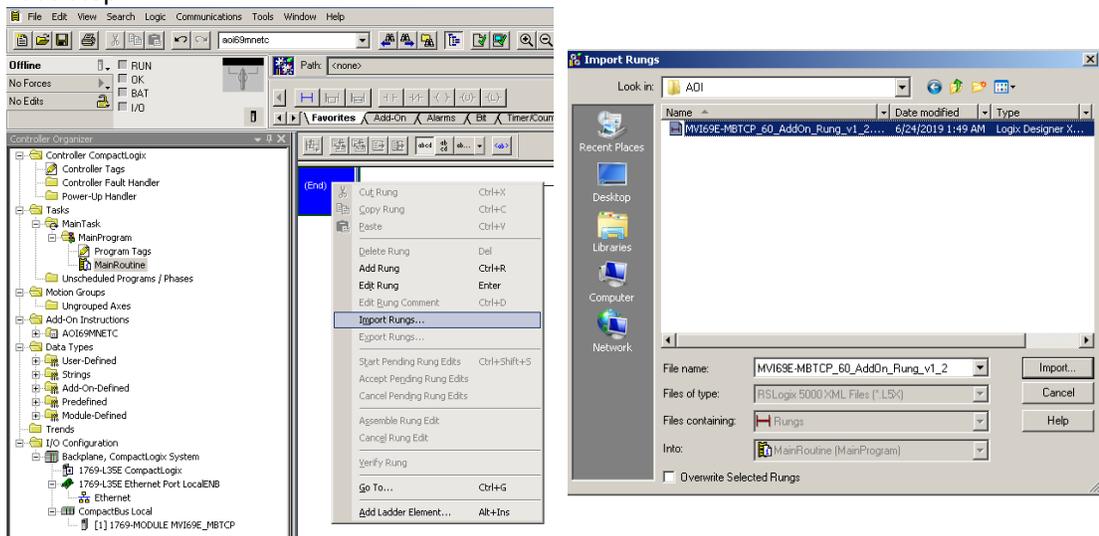
### Adding the logic for the MVI69E-MBTCP

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



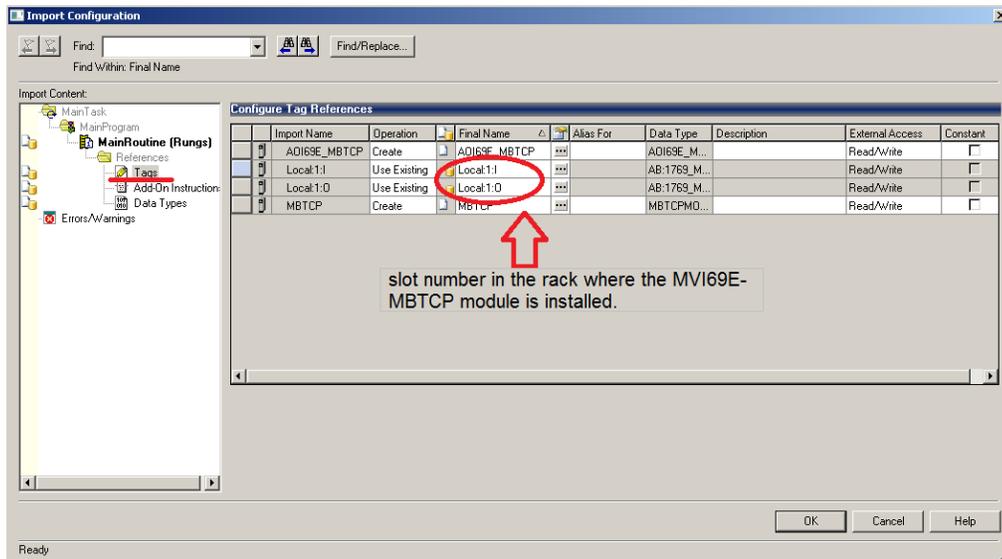
Save in the location of your preference.

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



## Migrating from an existing MVI69-MNETC to MVI69E-MBTCP

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



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.