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Technical Note



A 5201-DFNT-MCM to PLX31-EIP-MBS Configuration Conversion Guide

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Document Information

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Introduction

This document describes how to export an existing configuration from an older ProLinx 5201-DFNT-MCM and convert it so that it can be imported into a newer ProLinx PLX31-EIP-MBS to make it work the same as the older ProLinx Gateway. This document will be helpful to anyone wanting to replace an existing 5201-DFNT-MCM with the new PLX31-EIP-MBS.

Please note that, since the PLX31 gateway is newer than the older 5201 gateway, you will see new parameters in its configuration file that do not exist in the 5201. You may simply leave these at their default values. Also note that there will be differences between parameter names between the two gateways. These differences will be shown in the appropriate sections of this document as we come to them.

What you will need to have on your Personal Computer (PC):

1. ProSoft Configuration Builder, version 4.1.1.1 or higher (do NOT use version 4.4.1.1).
2. A simple text editor. (Windows Notepad, notepad ++, etc.)

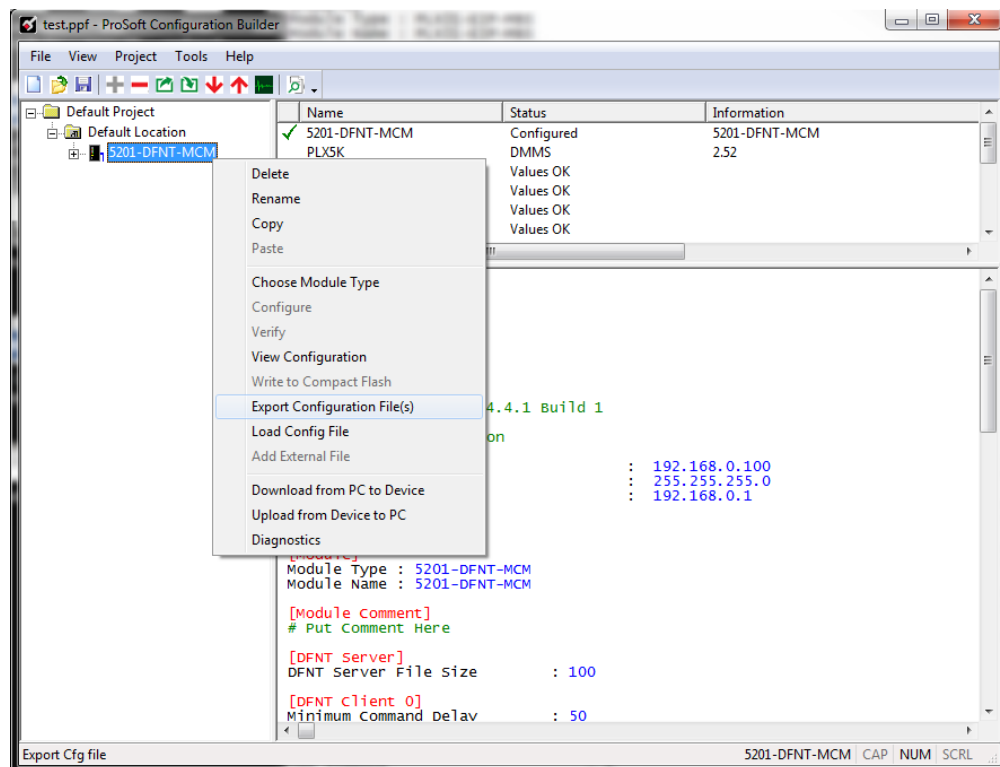
REMEMBER

Save your work often as you progress. Use the “Save As” option so you can save variations of the file at different stages of the process. That way, if your system crashes at any point in the following procedure, you can start again without having to start from the beginning.

Exporting the configuration file

Open the project the current 5201-DFNT-MCM module was configured in.

Export the configuration file by right clicking the module to open the shortcut window then select *Export Configuration File(s)*

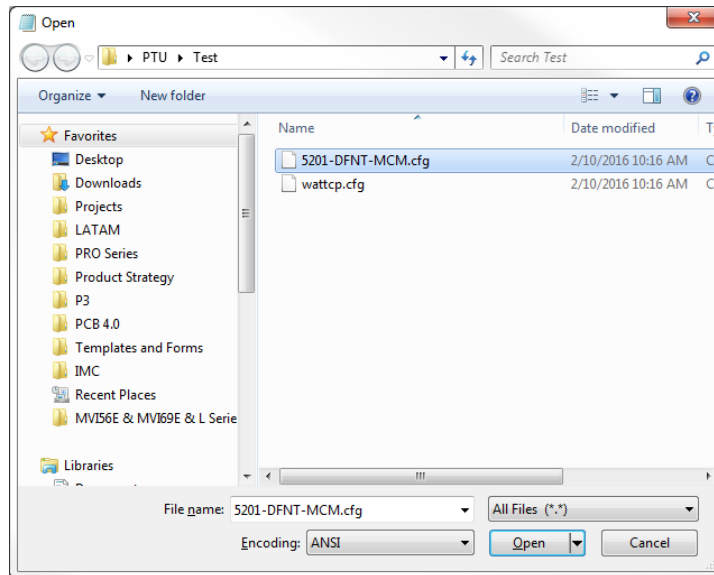


If you do not have the project file (.PPF) you can upload the configuration file from the original 5201-DFNT-MCM (Please refer to your user manuals for the 5201-DFNT-MCM for this process).

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

Modifying the Configuration File

Using a text editor, browse to the location the .cfg files were saved, and open the file with the name you provided when you exported.



Note: You may need to change the file types displayed from Text Documents to All Files.

Now change the Module Type field from 5201-DFNT-MCM to PLX31-EIP-MBS.

```

5201-DFNT-MCM.cfg - Notepad
File Edit Format View Help
# Module Information
# Last Change: Feb. 10, 2016 10:16
# Last Download: Never
# Application Rev:
# OS Rev:
# Loader Rev:
# MAC Address:
# ConfigEdit Version: 4.4.1 Build 1

# Prosoft Technology
[Module]
Module Type : 5201-DFNT-MCM
Module Name : 5201-DFNT-MCM

[Module Comment]
# Put Comment Here
    
```

```

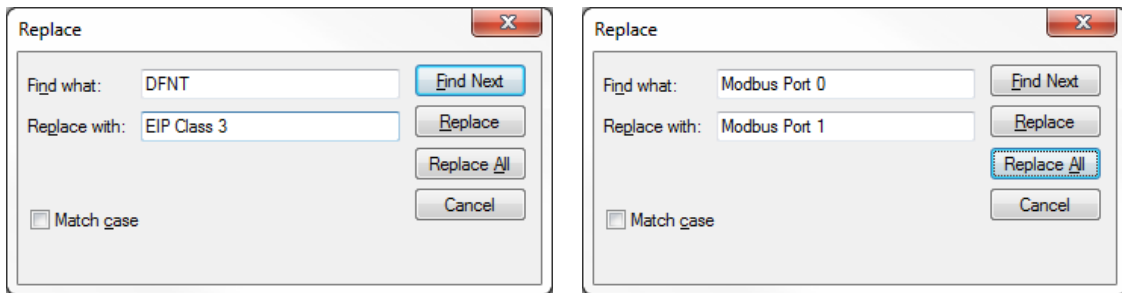
5201-DFNT-MCM.cfg - Notepad
File Edit Format View Help
# Module Information
# Last Change: Feb. 10, 2016 10:16
# Last Download: Never
# Application Rev:
# OS Rev:
# Loader Rev:
# MAC Address:
# ConfigEdit Version: 4.4.1 Build 1

# Prosoft Technology
[Module]
Module Type : PLX31-EIP-MBS
Module Name : PLX31-EIP-MBS

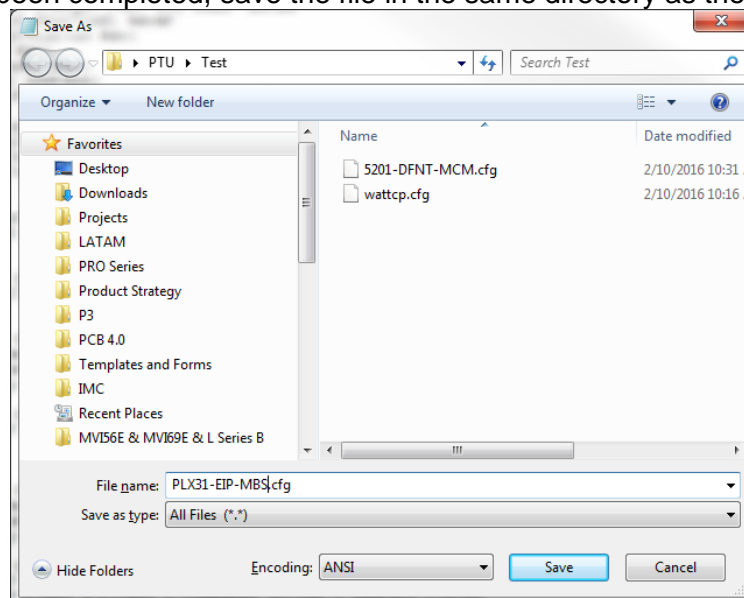
[Module Comment]
# Put Comment Here
    
```

Similarly, if the Module Name field is not unique to the project, the module name field should be changed to PLX31-EIP-MBS. This field changes the module name displayed in PCB.

Next you'll need to replace all of the "DFNT" text with "EIP Class 3" text and all of the "Modbus Port 0" text with "Modbus Port 1". The easiest way to do this is using the find and replace tool found in most text editors.



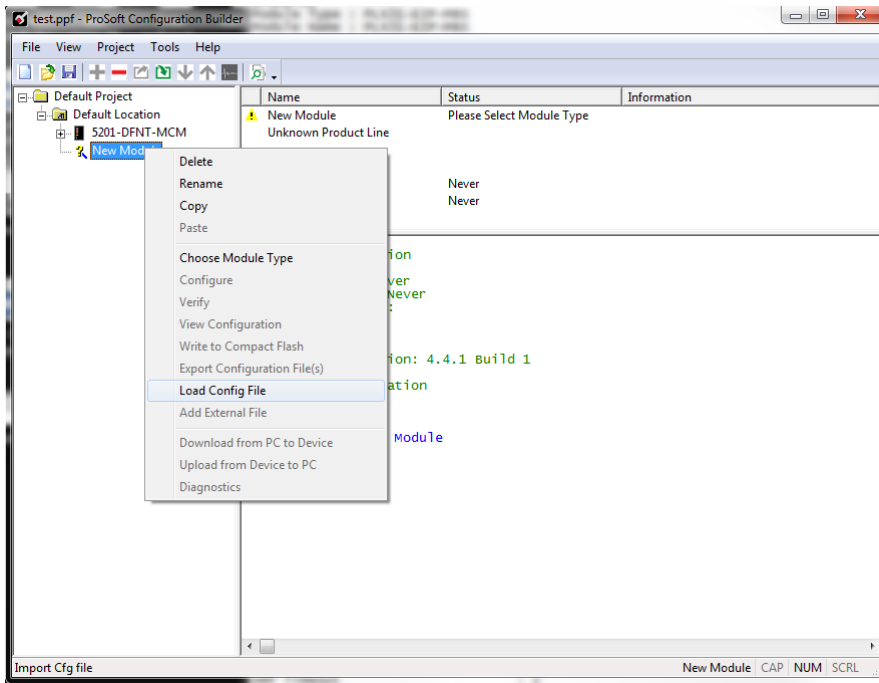
Once this has been completed, save the file in the same directory as the previous file.



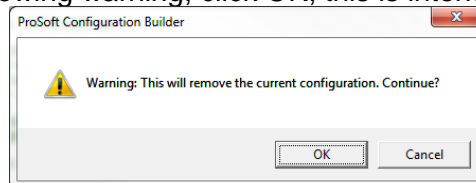
Note: Be sure to change the Save as type to "All Files"

Importing the new configuration

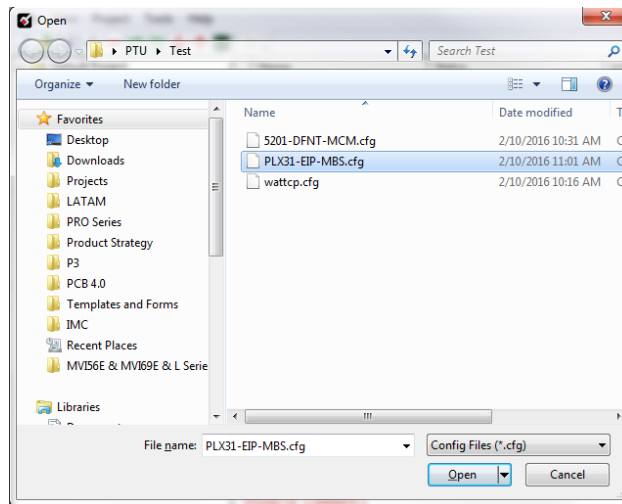
In the Tree View in PCB, right click Default Location and add a new module. If the Choose Module Type window opens, click cancel to close it. Right click the New Module and select Load Config File.



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

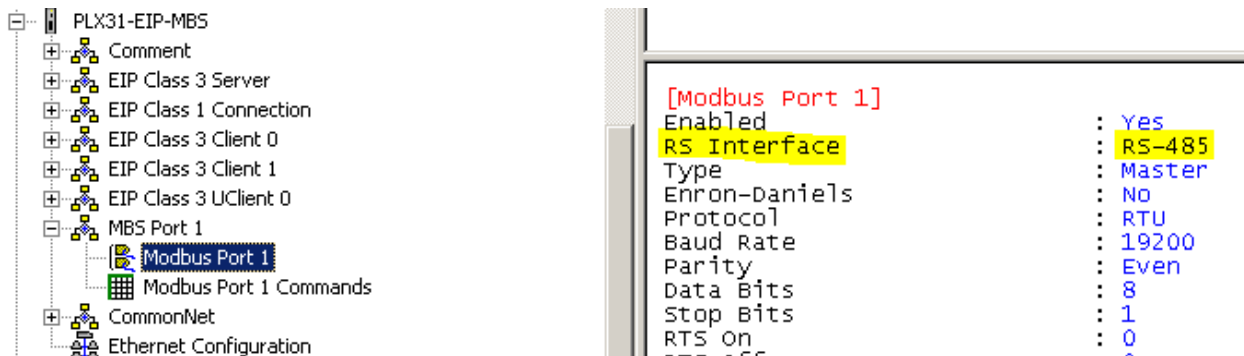


Next, browse to the saved file, select the file and click Open



You should now have a PLX31-EIP-MBS configuration in your tree on the left. Right click this PLX31-EIP-MBS and again select Load Config File and click OK to the warning a second time. This time, however, select the WATTCP.cfg that was generated earlier.

Now determine the RS Interface setting (i.e. RS232, RS422, or RS485) of your 5201-DFNT-MCM. This was defined by a physical jumper on the unit. If you are unsure what your jumper setting indicates, please refer to the 5201-DFNT-MCM user manuals for more detail. Unlike the 5201-DFNT-MCM, the PLX31-EIP-MBS does not use jumpers to control this setting, instead doing so in software. As such, once the old setting is confirmed, expand out PLX31-EIP-MBS on the left (click the plus sign), then expand out MBS Port 1, and finally double click on Modbus Port 1 and in the edit window that appears edit the RS Interface setting to match your 5201-DFNT-MCM's setting.



Finally, there is one more setting which you may need to change. In the Modbus port 0 setting for your 5201-DFNT-MCM, if the port Type is Slave, verify if you have Use Guard Band Timer set to No.

Edit - Modbus Port 0	
Enabled	No
Type	Slave
Enron-Daniels	No
Protocol	RTU
Baud Rate	19200
Parity	None
Data Bits	8
Stop Bits	1
RTS On	0
RTS Off	0
Minimum Response Delay	1
Use CTS Line	No
Internal Slave ID	1
Bit Input Offset	0
Word Input Offset	0
Output Offset	0
Holding Register Offset	0
Use Guard Band Timer	No
Guard Band Timeout	0

If so, or your port is a master, your conversion is complete. If, however, this value is set to Yes, take note of the Guard Band Timeout, then once again bring up the Edit – Modbus Port 1 window in your PLX31-EIP-MBS configuration.

Edit - Modbus Port 1	
Enabled	Yes
RS Interface	RS-485
Type	Slave
Enron-Daniels	No
Protocol	RTU
Baud Rate	19200
Parity	Even
Data Bits	8
Stop Bits	1
RTS On	0
RTS Off	0
Minimum Response Delay	1
Use CTS Line	No
Internal Slave ID	1
Bit Input Offset	0
Word Input Offset	0
Output Offset	0
Holding Register Offset	0
End of Message Delay	0

End of Message Delay

0

Comment:

Definition:

0 to 65535
Adds time delay to the 3.5 character time used by the module to recognize the end of message. Certain applications may require validation of Modbus messages with more than 3.5 character time between consecutive bytes (example: modem applications). A value of 0 uses the default time or you can set the time value in milliseconds.

The Use Guard Band Timer setting has been removed (now assumed to be Y if you have a non-zero time out) and the Guard Band Timeout has been renamed End of Message Delay. Make the End of Message Delay equal your 5201-DFNT-MCM's Guard Band Timeout. Click okay, and your conversion is complete.

For instructions on how to download this Configuration to your PLX31 gateway, please refer to the PLX3x User Manual.

Please note that additional information on the 5201-DFNT-MCM and the PLX31-EIP-MBS can be found in the respective user manuals, as well as the [ProLinx Reference Guide](#). If you have additional questions please contact your regional Technical Support Center.

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