

Lab 07 - Modbus between PLCs

Follow the directions from [this outline](#), then upload proof via screenshots for both programs you are asked to create.

* Indicates required question

1. Email *

2. Were you able to modify the Modbus settings for the .27 (middle = Peripheral) PLC? * 5 points

Mark only one oval.

☐ Yes

☐ No

3. Please upload a screen shot showing the Modbus Mapping to the DO and DI for the Peripheral PLC (.27). * 5 points

Files submitted:

4. Were you able to modify the Modbus settings for the .25 (Left = Controller) PLC? * 5 points

Mark only one oval.

☐ Yes

☐ No

5. Were you able to add the first Modbus message block to the .25 (Left = Controller) PLC to Write to the Coils in the .27 controller? * 5 points

Mark only one oval.

☐ Yes

☐ No

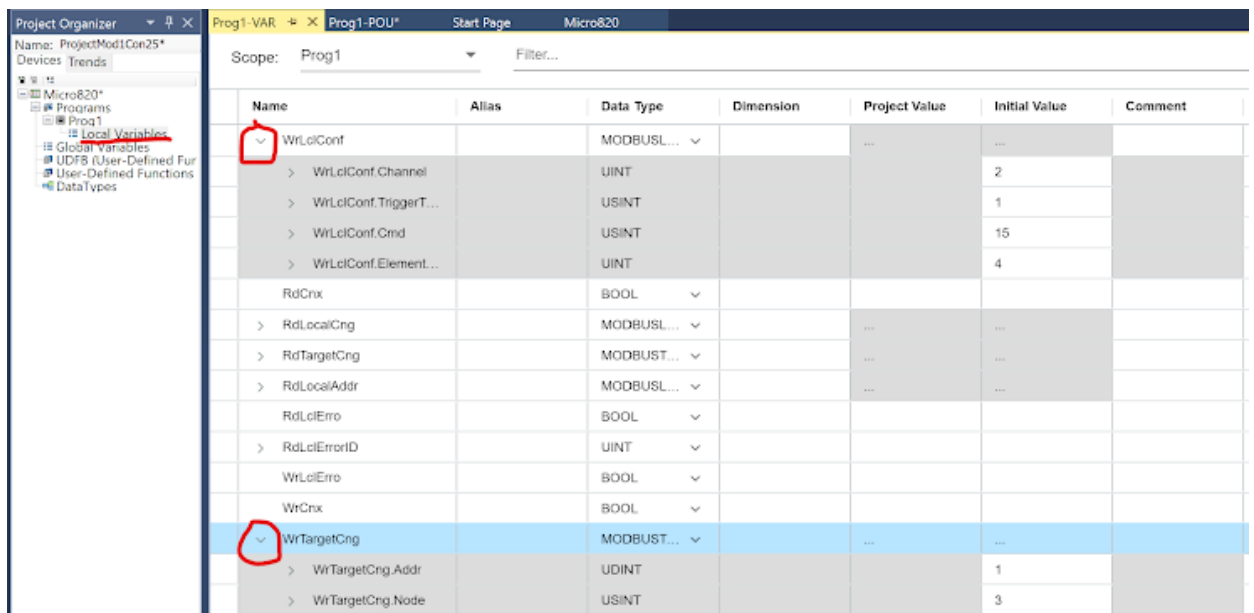
6. Were you able to modify the "Write" configuration setting to use the 0x0F Function Code? * 5 points

Mark only one oval.

☐ Yes

☐ No

7. Please upload a screen shot showing the Configuration settings on the Local Variables page for the .25 Controller PLC. Make sure things are expanded so I can see what values are entered for Local and Target Configurations. It should look something like what is shown here. * 5 points



Name	Alias	Data Type	Dimension	Project Value	Initial Value	Comment
WrLclConf		MODBUS...		...	...
> WrLclConf.Channel		UINT			2	
> WrLclConf.TriggerT...		USINT			1	
> WrLclConf.Cmd		USINT			15	
> WrLclConf.Element...		UINT			4	
RdCnx		BOOL				
> RdLocalCng		MODBUS...		...	...
> RdTargetCng		MODBUS...		...	...
> RdLocalAddr		MODBUS...		...	...
RdLclErro		BOOL				
> RdLclErrorID		UINT				
WrLclErro		BOOL				
WrCnx		BOOL				
WrTargetCng		MODBUS...		...	...
> WrTargetCng.Addr		UDINT			1	
> WrTargetCng.Node		USINT			3	

Files submitted:

8. Did this code work? Were you able to turn the lights on and off on the .27 PLC by changing the values in the WrLclAddr from the .25 PLC? * 5 points

Mark only one oval.

☐ Yes

☐ No

9. Were you then able to add another message block to read in the Discrete Inputs from the Peripheral .27 PLC? * 5 points

Mark only one oval.

☐ Yes

☐ No

10. Please upload a screen shot of your final ladder logic. * 5 points

Name	Alias	Data Type	Dimension	Project Value	Initial Value	Comment
WrLclConf		MODBUS...		...	...
> WrLclConf.Channel		UINT			2	
> WrLclConf.TriggerT...		USINT			1	
> WrLclConf.Cmd		USINT			15	
> WrLclConf.Element...		UINT			4	
RdCnx		BOOL				
> RdLocalCng		MODBUS...		...	...
> RdTargetCng		MODBUS...		...	...
> RdLocalAddr		MODBUS...		...	...
RdLclErro		BOOL				
> RdLclErrorID		UINT				
WrLclErro		BOOL				
WrCnx		BOOL				
WrTargetCng		MODBUS...		...	...
> WrTargetCng.Addr		UDINT			1	
> WrTargetCng.Node		USINT			3	

Files submitted:

11. Describe here what else you tried when messing about with Modbus messages. What else did you learn during this exercise?

* 5 points

12. Please let me know if anything didn't work correct on the lab or could have been made clearer.

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