

SRS Milestone 5

v1.3

1. Login to PLC. (Connection with PLC)
2. Run PLC & Stop PLC

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Introduction:

This document will explain the new feature implementation requirement in XMPS-100.

Run PLC & Stop PLC

UI Requirement:

1. Under “Status/Simulation” tab add “PLC Control” tab
 2. Under “PLC Control” tab there will be 4 tabs
 - a. Login
 - b. Logout
 - c. Run PLC
 - d. Stop PLC
- A. Login-
1. After click on “Login” utility should check that if latest program is downloaded in PLC or not, if not then one popup should come and it should show the “Program changed you need to download first, Do you want to download?” Yes or No. (here utility should check the crc of code downloaded or not after opening the software)
 2. If user selects “YES” then download command should go to PLC.
 3. After downloading latest changed program again user should click on login then following steps..
 4. If latest code downloaded then utility should directly proceed for Login process as explained below.
 5. After click on “Login” the XMPS-100 should connect with PLC and send the following command to PLC for checking the current status of PLC and after that all editable functions should disable.
(same as ONM protocol)

CMD from XMPS-100

Master (XMPS-100)					
SOF	Total data length	Status	CRC	EOF	
0xFD	0X01	0xEA	0x0B to 0xFF	0XFB	

Response from PLC

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<i>Slave (PLC response)</i>					
<i>SOF</i>	<i>Total data length</i>	<i>Status</i>	<i>CRC</i>	<i>EOF</i>	
0xFD	0X01	0XAA or 0x55	0x0B to 0xFF	0XFB	

0xAA- PLC is in Run Mode

0x55- PLC is in Stop mode

- Only after successful Login if PLC current state is in RUN mode then “Run PLC” option should not highlighted & other 2 options “Stop PLC” & “Logout” should highlighted
(same is applicable for Stop mode)
- If connection with PLC will disconnect show the error message.
- Please remove the earlier downloading command which we have given from Online monitoring tab. If Login successful then OM should start without asking any IP address.

B. Logout—

- After click on Logout tab XMPS-100 & PLC connection should disconnect.
- Before exiting from Login mode if PLC is in Stop mode when user click on Logout then one popup should come “PLC is in Stop mode Do you want to Run PLC””Yes or No”.
- If user clicks on “Yes” then “Run PLC” command should go to PLC.

C. Run PLC---

- After click on Run PLC following command should go to PLC... (same as ONM protocol)

<i>Master (XMPS- 100)</i>					
<i>SOF</i>	<i>Total data length</i>	<i>CMD TYPE</i>	<i>RUN PLC</i>	<i>CRC</i>	<i>EOF</i>
0xFD	0X02	0xEA	0XAA	0x0B to 0xFF	0XFB

D. Stop PLC---

1. After click on Stop PLC following command should go to PLC... (same as ONM protocol)

<i>Slave (PLC)</i>					
<i>SOF</i>	<i>Total data length</i>	<i>CMD TYPE</i>	<i>PLC Status</i>	<i>CRC</i>	<i>EOF</i>
0xFD	0X02	0xEA	0X55	0x0B to 0xFF	0XFB