

XM-Pro SRS

Level 2_v1.0

- Download / Upload PLC application & configuration feature

XM-Pro SRS _Level2	<u>Author</u>	Sagar Gupta & Ameya Morje	<u>Date</u>	September 14, 2021
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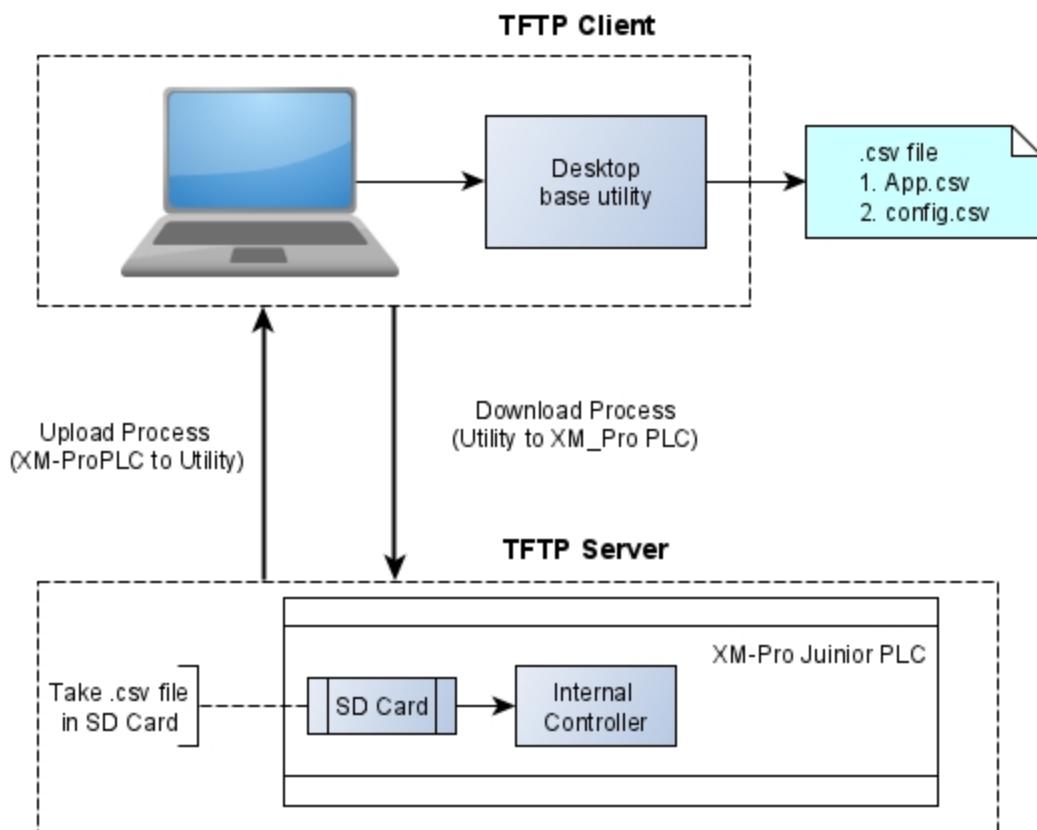
Introduction:

This SRS document will explain the addition of features Download /Upload of the PLC application program file& configuration settings file in the existing working version of XM-pro PLC programming software.

Objective:

The objective is to Download/Upload the PLC application & configuration direct into PLC hardware via an ethernet port using TFTP Client/Server protocol. (In our case Xmpro will be the TFTP server & Laptop will be the TFTP client)

Architecture:



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Requirement:

Download: (Download Application & Configuration nsettings from Xmpro utility to Xmpro hardware)

- On Download tab there should be two options “Application” & “Configuration” user should select which file they needs to Download.
- The name of the application file will be “App.csv” and IO Configuration file name will be “Config.csv”.
- This file's name will be fixed and created by the utility while downloading the Application and Configuration settings.
- Popup window to enter PLC IP address & other settings
- The user will not be allowed to change these file's names in this version, they can change folder names as per their requirement.
- The TFTP download process must be shown by a progress bar on the utility.
- After clicking on download file will be saved automatically if user did not saved the lastest changes.
- After clicking on the download button, the confirmation message should be displayed on the screen. E.g. “Do want to download the Application file?” etc.
- If any error occurs while downloading, the process must be stopped and the error can be displayed on the window.

Upload: (Upload application & configuration settings from Xmpro hardware to utility)

Case 1: When launched the Xmpro software.

- On Upload tab there should be two options “Application” & “Configuration”
- Popup window to enter PLC IP address& other settings
- When user clicks the on the Upload option,popup window should appear in which user must select or create the path for uploading the files.
- When the user selects the path, check whether the App.csv file is present or not on the user-selected folder path. If the App.csv file is not there then create a new file with the name of “App.csv”.
- If the App.csv file is present on the selected path then one pop must be arrived to take confirmation from the user whether he wants to replace an existing file. If yes then first create a new empty file and then start the TFTP action.

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- The TFTP upload process must be shown by a progress bar on the utility.
- After clicking on the Upload button, the confirmation message should be displayed on the screen. E.g. "Do want to Upload the Application file?" etc.
- After completion that file data shoud display on software and saved on perticuler selected path.
- The above points should be the same for Config.csv.

Case 2: When existing application opened on Xmpro software

- When existing application opened and user wants to upload application then one message should popup " Existing application opened Do you want to close this?"
- If user selects yes then application & configuration should auto saved and close, and software should ask for the path of new upload as per Case 1.

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