

Link Variable between M221 and Vijeo Designer

What is the purpose

Link Variable between Somachine Basic Project and Vijeo Designer

What units are effected

1. SoMachine Basic Software
2. Vijeo Designer Software
3. PLC

Details

This application is divided into several parts

Section	Title
1	Parts List
2	System Architecture
3	Step by step setup
4	Online Testing
5	Remarks

Section 1: Parts list

Parts List table

Items used in the test

Items	Part numbers	Description
M221 plc	• TM221ME16T	M221 PLC
HMISTU	• HMISTU655/855	Touch Screen Magelis
Vijeo Designer	• VJDSNDTGSV62M	Vijeo Designer Part Number
Software SoMachine Basic	• SOMBASAP14	Software SoMachine Basic V 1.4

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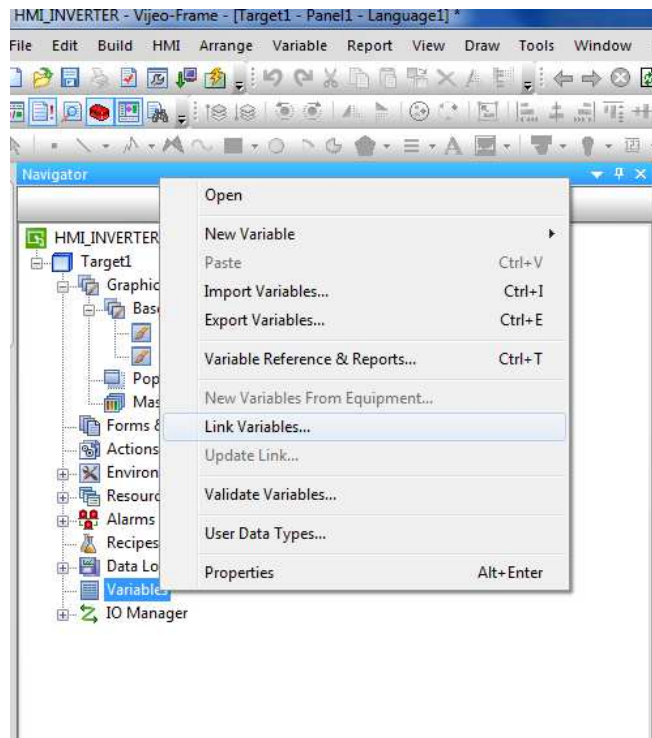
Section 2: System Architecture



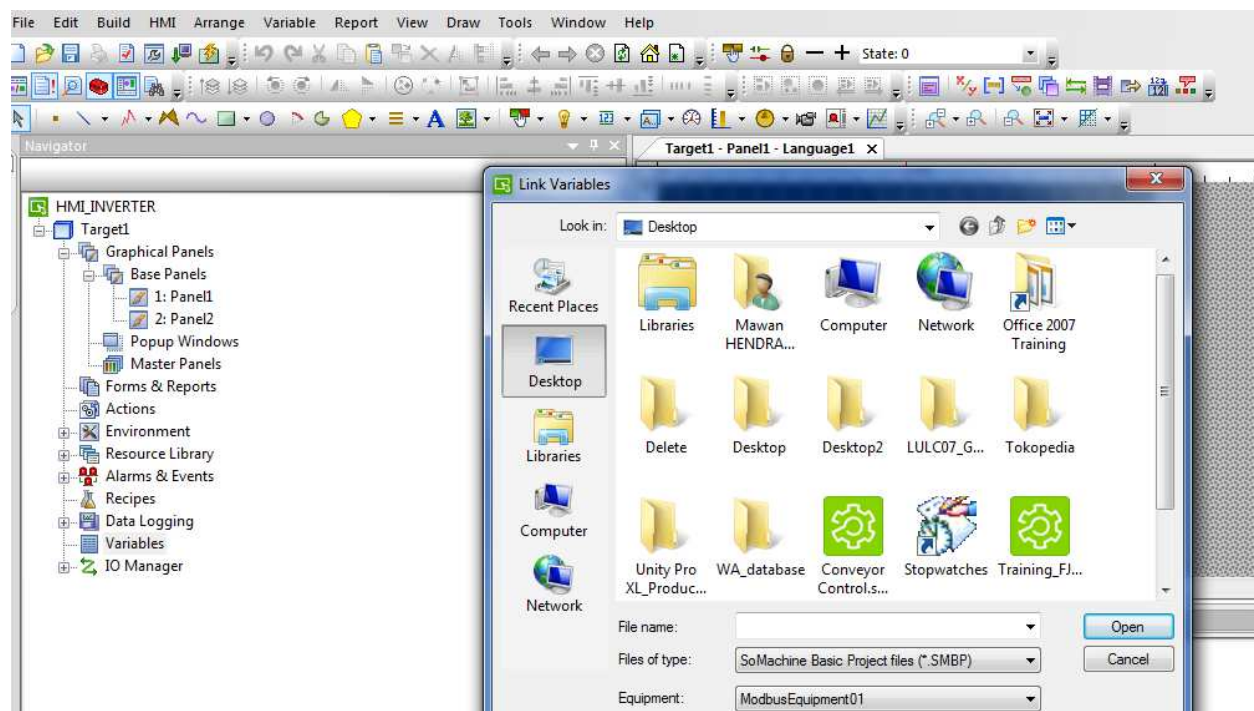
Section 2: System Architecturestep by step

Step by step configuration Link variable between SoMachine Basic and Vijeo Designer :

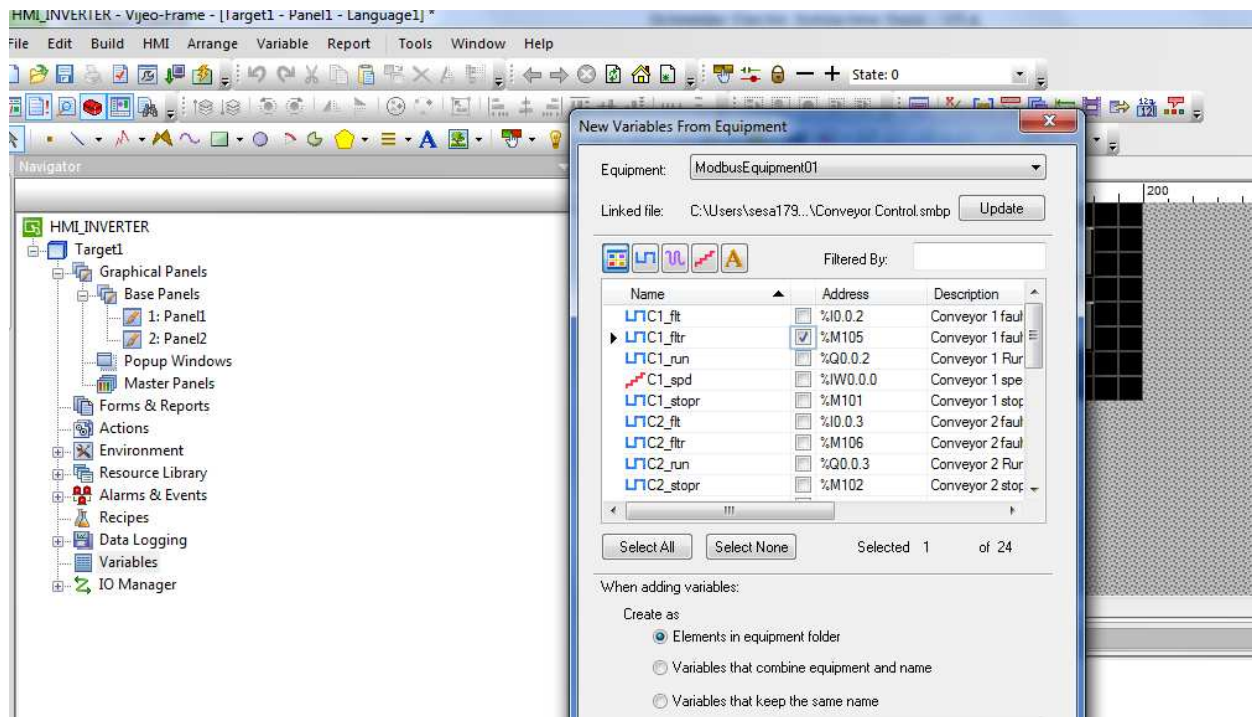
1. Save The Application of So Machine Basic
2. Link The Vijeo designer variable to so machine basic folder application



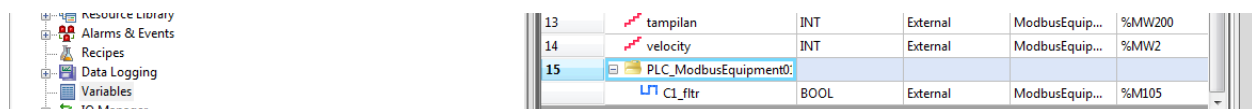
3. Choose the file type and Link to Somachine application file



4. Select the variable that you want to use in Vijeo Designer application



5. After select the desired variable the variable will generate the PLC tag address



6. After finish step 5, we can easily connect the variable to application that we already drew

Section 4: Online Testing

Online testing :

1. Download the PLC program (so machine basic program)
 2. Download the Vijeo Designer application program
 3. Connect PLC and Touch Screen
 4. Test your program
 5. If connection success, the display will show the animation color change
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Section 5: Remark

This Procedure Explain how easy to Link the variable between so machine basic and vijeo designer

This is the best way to avoid human error and determine same understanding level between the Vijeo designer tag and Somachine basic tag by linking variable will reduce the engineering cost and guarantee the address connection
