

# Applying HMIWorks in Data Exchanges

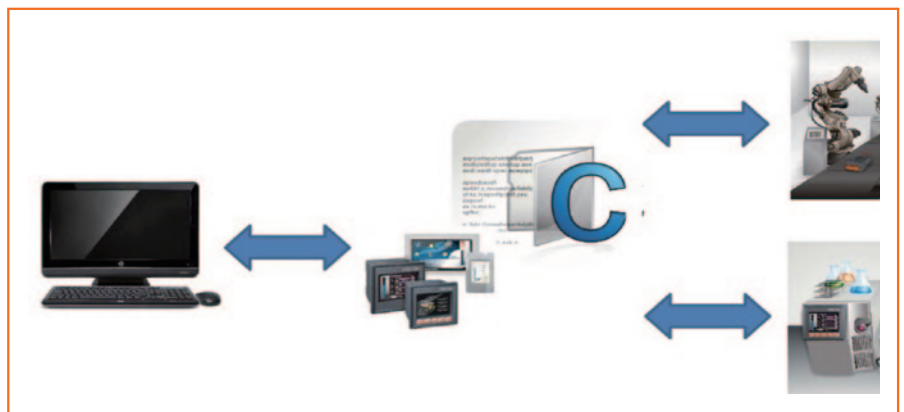
By Edwin Yang

*The production line is the heart, the most critical portion, of industry. It is filled with electronic devices, controlled by different PLC's manning the communication interfaces. To integrate these interfaces, customers can use a TouchPAD as an interface between the different protocols in order to process the data exchanges. Consequently, the configuration of important parameters is easily performed through the TouchPAD.*

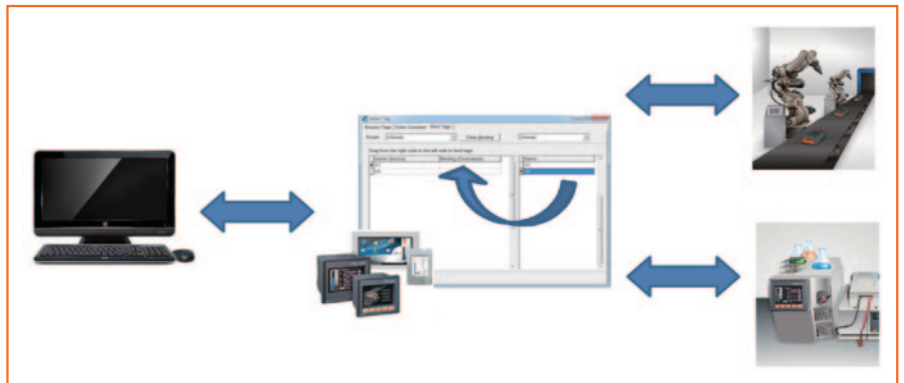
HMIWorks\_STD\_v2.05.11 adds data packed features. The TouchPAD's standardized data format and ability to convert between protocols gives it the central role in the exchange of information between different components and the PC. This mediative role is augmented by the ability of the device to automatically learn, process, and respond, making on-site application much more flexible.

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**Designing a custom function in C can be complicated, especially when converting between formats.**



**Using HMIWorks, the time spent on developing custom C programs and on conversion is eliminated, moving functional data exchange up the schedule.**



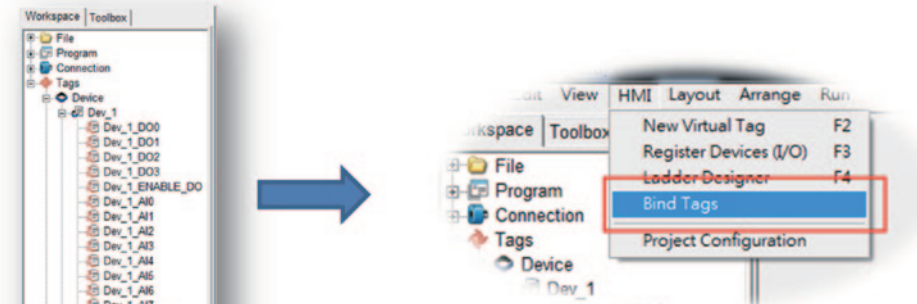
## Step 1)

Initialize the devices in HMIWorks.



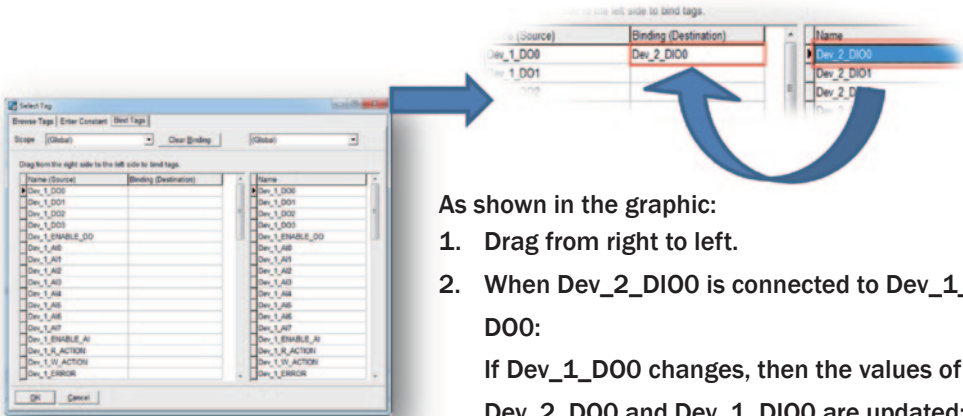
## Step 2)

After initialization, a list of all the tags for all devices can be displayed by selecting "Bind Tags" from the drop-down menu.



## Step 3)

Drag-and-release to create connections between tags. See the illustrated example.



As shown in the graphic:

1. Drag from right to left.
2. When Dev\_2\_DI00 is connected to Dev\_1\_D00:

If Dev\_1\_D00 changes, then the values of Dev\_2\_D00 and Dev\_1\_DI00 are updated; i.e.  $Dev_2\_D00 = Dev_1\_DI00$

3. Continue in the same vein; when B is dragged to A, and C to B, a change in the value of A is reflected in that  $B = A$  and  $C = A$

## Schematic diagram

