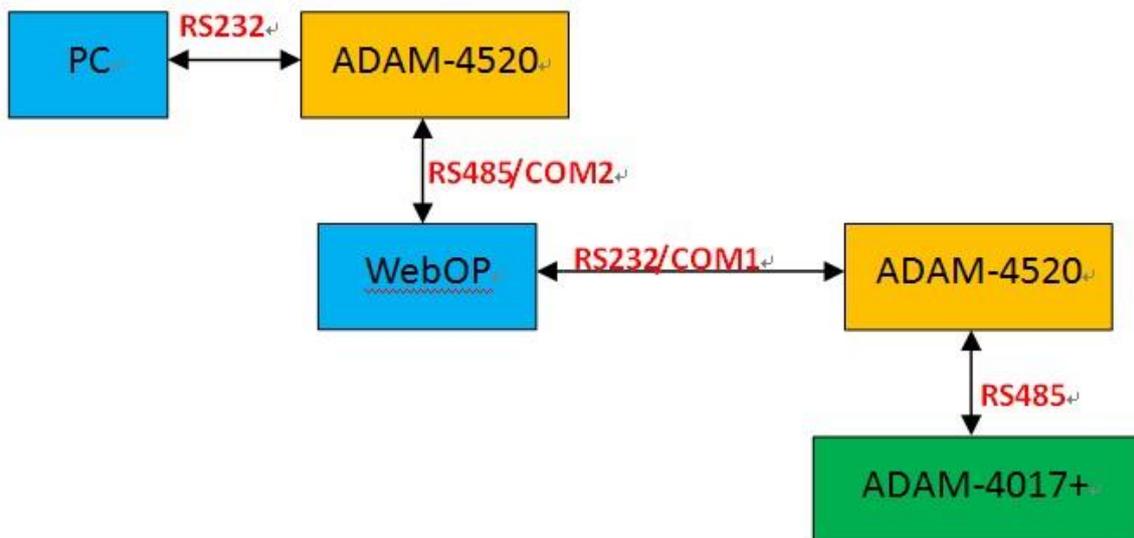


Advantech AE Technical Share Document

Date	2015 / 07 / 21	SR#	
Category	■ FAQ □ SOP	Related OS	
Abstract	How To Use 2-to-1 Transparent Server		
Keyword	2-to-1, Transparent Server, WebOP Designer		
Related Product	WOP-2000/ WOP-3000		

■ **Problem Description:**

User might want to access Remote I/O or Controller indirectly by WebOP as transparent server. Please refer to following architecture.



■ Brief Solution - Step by Step:**1. HMI Setting:**

1.1 Set up a Link1 as Direct Link(COM1) used for communicating with target PLC device.

The screenshot shows the 'Link Properties' dialog box for 'Link1'. The 'General' tab is selected. The 'Link Number' is 1. The 'Link Name' is 'Link1'. The 'Link Type' is 'Direct Link (COM)'. The 'Device/Server' is 'Advantech' and the 'ADAM (Modbus RTU)'. The 'Link Port' is 'COM1 (Link1)'. There is an unchecked checkbox for 'Sub-links'.

The screenshot shows the 'Link Properties' dialog box for 'Link1', 'Parameter' tab. The 'Transmission' section includes: Baud Rate: 115200, Data Bits: 8, Parity: None, Stop Bits: 1. The 'Others' section includes: Panel Address: 1, PLC Address: 1, Timeout Time: 0 (x 0.1 Sec.), Command Delay: 0 (x 0.1 Sec.), and Retry Count: 0.

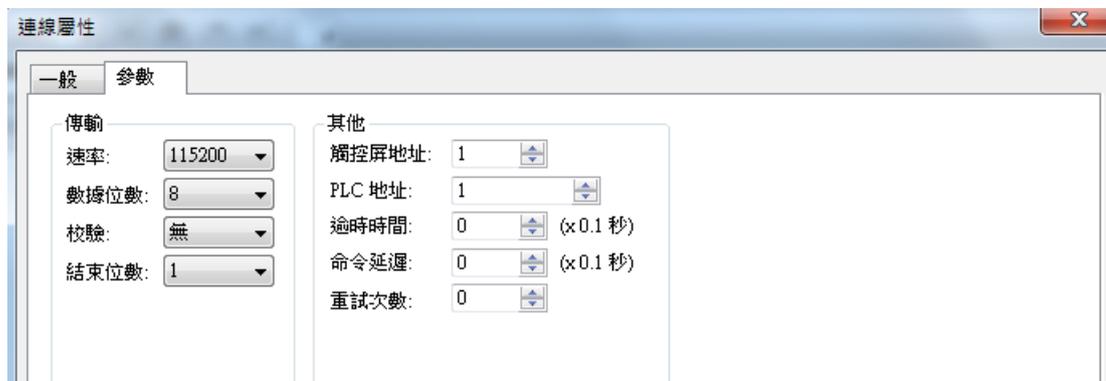
2.2 Set up a Link2 as the 2-to-1 Transparent Sever (COM).

The screenshot shows the 'Link Properties' dialog box for 'Link2'. The 'General' tab is selected. The 'Link Number' is 2. The 'Link Name' is 'Link2'. The 'Link Type' is 'Communication Service (COM)'. The 'Device/Server' is 'PanelMaster' and the '2-to-1 Transparent Server (COM)'. The 'Link Port' is 'COM2 (Link2)'. The 'Data Link' is 'Link1'.

The screenshot shows the 'Link Properties' dialog box for 'Link2', 'Parameter' tab. The 'Transmission' section includes: Baud Rate: 115200, Data Bits: 8, Parity: None, Stop Bits: 1. The 'Others' section includes: Panel Address: 1, PLC Address: 1, Timeout Time: 0 (x 0.1 Sec.), Command Delay: 0 (x 0.1 Sec.), and Retry Count: 0.

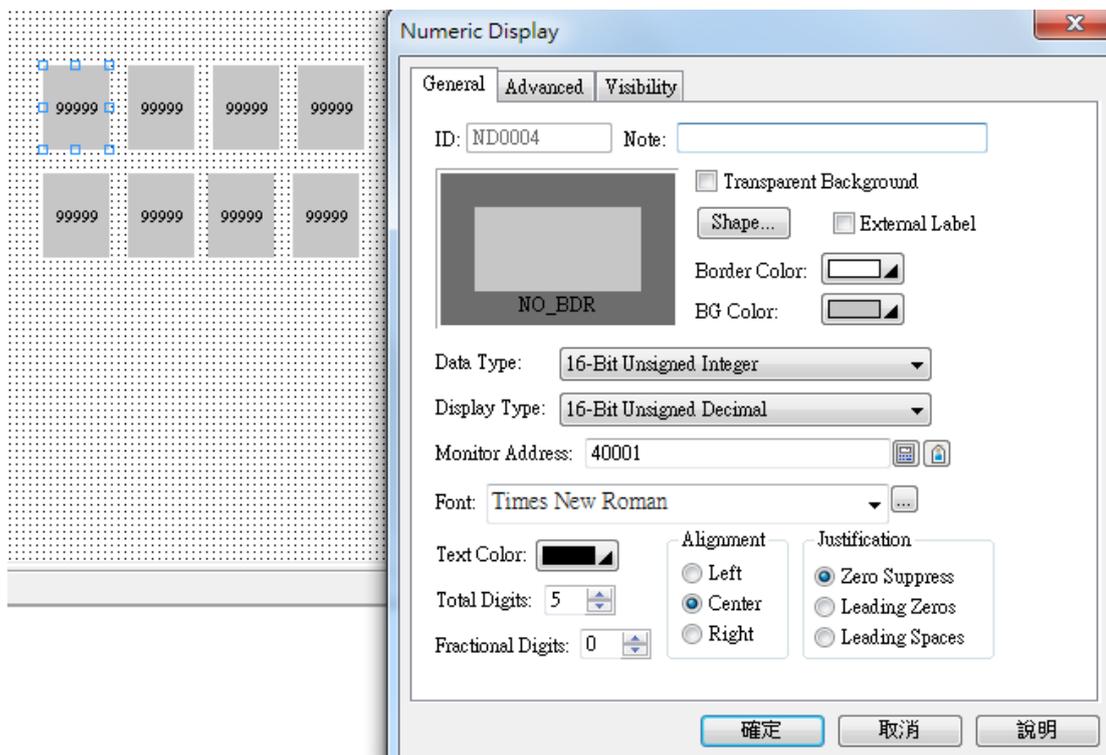
2. Simulation:

3.1 In PC site, we use WebOP Designer simulation function to access the PLC device. The communication setting should be same with PLC device.

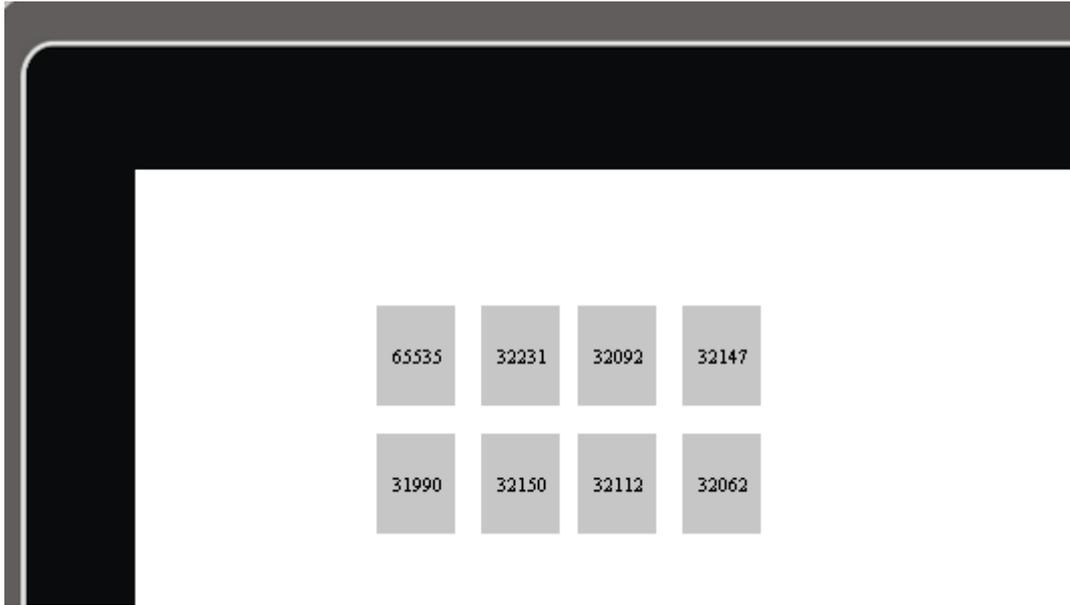


3.2 Create Numeric Display object to monitor the value of PLC device.

(Here we use ADAM-4017+ as the PLC device and it supports ModBus protocol with address 40001 to 40008.)



3.3 Run online simulation to access the value from PLC device.



■ **Reference:**

N/A