

Store and Forward tags

What we call store&forward is the ability of the eWON to read a value from one protocol and to write this value on another protocol.

It's like a "protocol converter" but with limitations.

For example, I want my S7-300 (with ethernet port) reads a temperature from a ModbusRTU device.

We can do that by placing an eWON (an eWON500 is enough) between the Siemens and the Modbus device.

In the eWON:

Define a "reading tag" on the Modbus device.

Identification			
Tag Name:	MbsTemperature	Page:	Default
Tag Description:			
I/O Server Setup			
Server Name:	MODBUS	Topic Name:	a
Address:	30001	Type:	Analog
eWON value = IO Server Value * 1		+ 0	
Force Read Only: <input type="checkbox"/>			

Define a "writing tag" on the S7 device.

Identification			
Tag Name:	S7Temperature	Page:	Default
Tag Description:			
I/O Server Setup			
Server Name:	S7300	Topic Name:	a
Address:	DB1W1	Type:	Analog
eWON value = IO Server Value * 1		+ 0	
Force Read Only: <input type="checkbox"/>			

Write a little BASIC script to assign the value read in the Tag to write.

Here, you have several strategies to do this copy:

- **On timer:**

At a specified interval, you'll copy the value from one tag to the other.

Init section:

```
Ontimer 1,"goto TagsCopy"  
Tset 1,30
```

Timer section:

```
TagsCopy:  
  S7Temperature@ = MbsTemperature@  
END
```

- **On change:**

Only when the read value will change, you'll copy the value from one tag to the other.

Init section:

```
Onchange "MbsTemperature","S7Temperature@ = MbsTemperature@"
```



Revision

Revision History

Revision Level	Date	Description
1.0	11/03/2010	Creation of document

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