

# RSVIEW SE 读写网关 BT-EN-XXX 系列 内部数据手册

BEACON GLOBAL TECHNOLOGY



## 目录

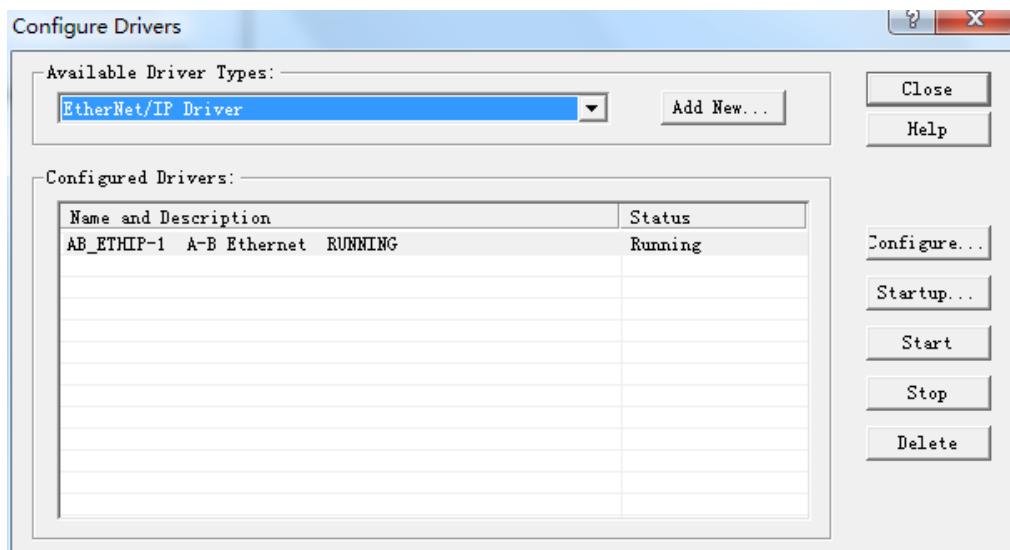
BT-EN-XXX 简介:	1
一: RSLINX 配置网关	1
二: RSVIEW SE 配置	11
其他版本	29
联系我们	29

### BT-EN-XXX简介:

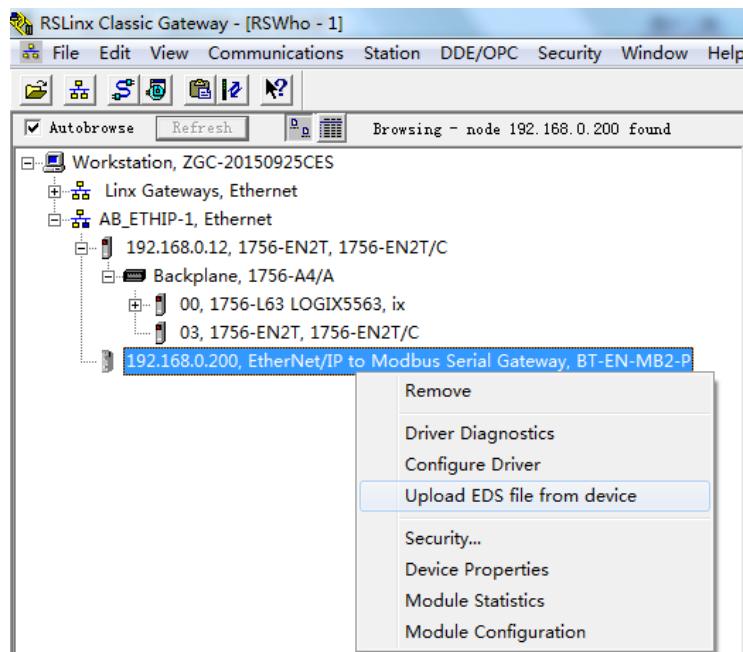
BT-EN-XXX系列是连接罗克韦尔PLC，EtherNet/IP通讯协议的网关，其中EN代表的是EtherNet/IP通讯协议，有些不需要PLC操作读写的数据可以直接送到RSVIEW SE上位机软件里面。

### 一: RSLINX 配置网关

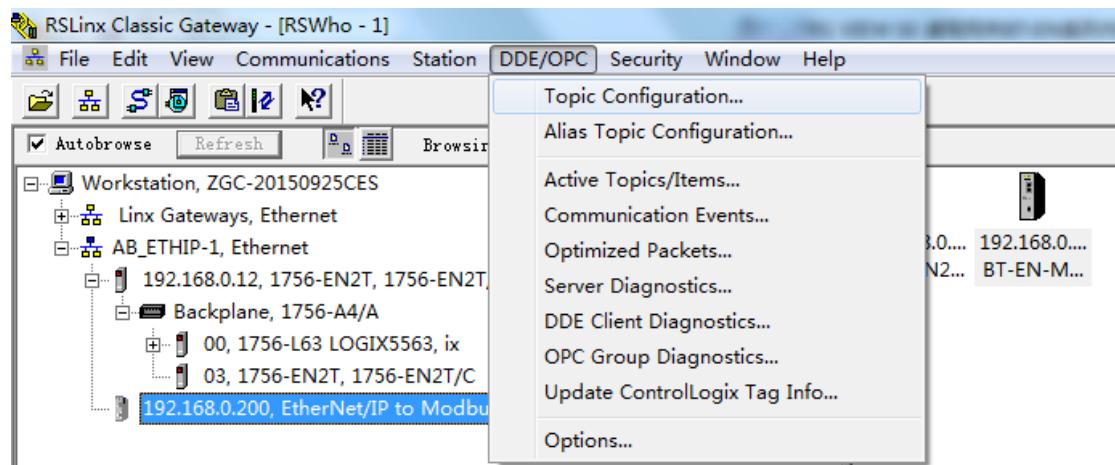
#### 1. 建立以太网驱动，选择 Ethernet devices 配置 IP 地址



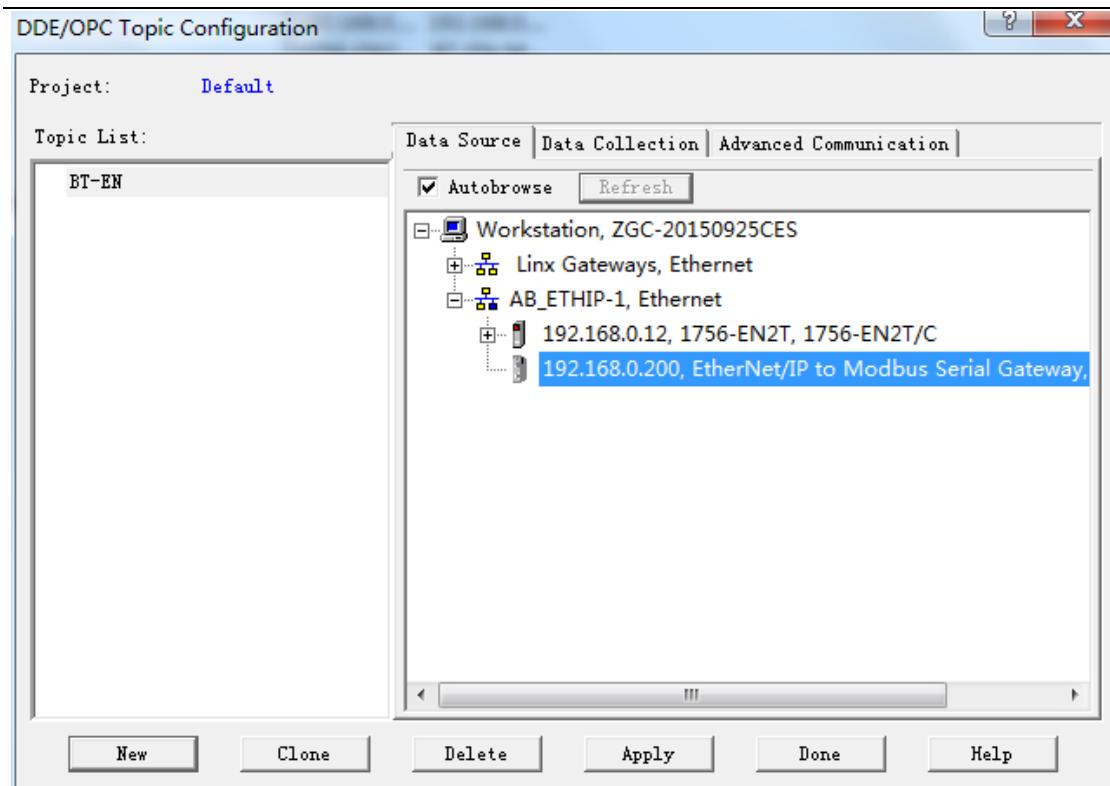
2. 开始时会显示黄色的问号，点击从设备上传 EDS 文件。



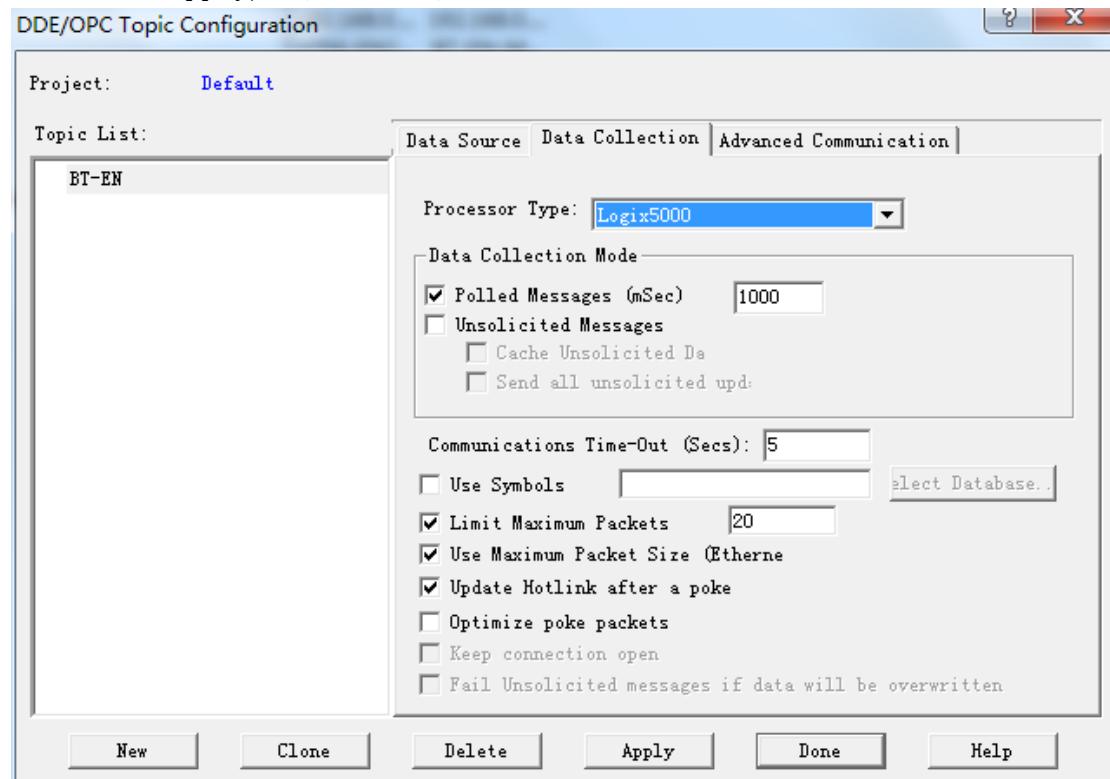
3. 配置 DDE/OPC 驱动，点击 Topic Configuration.

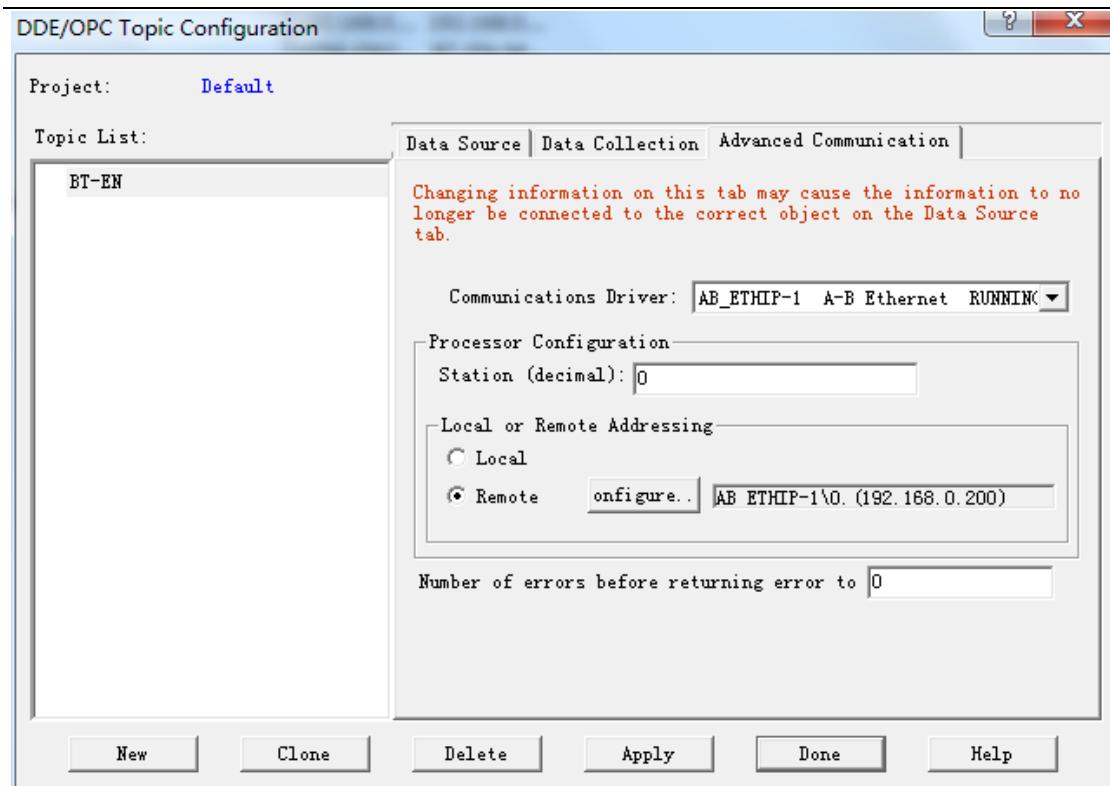


4. 新建一个项目 BT-EN , 指定到 192.168.0.200 的网关上



5. 点击 Apply, 查看其他参数的设定

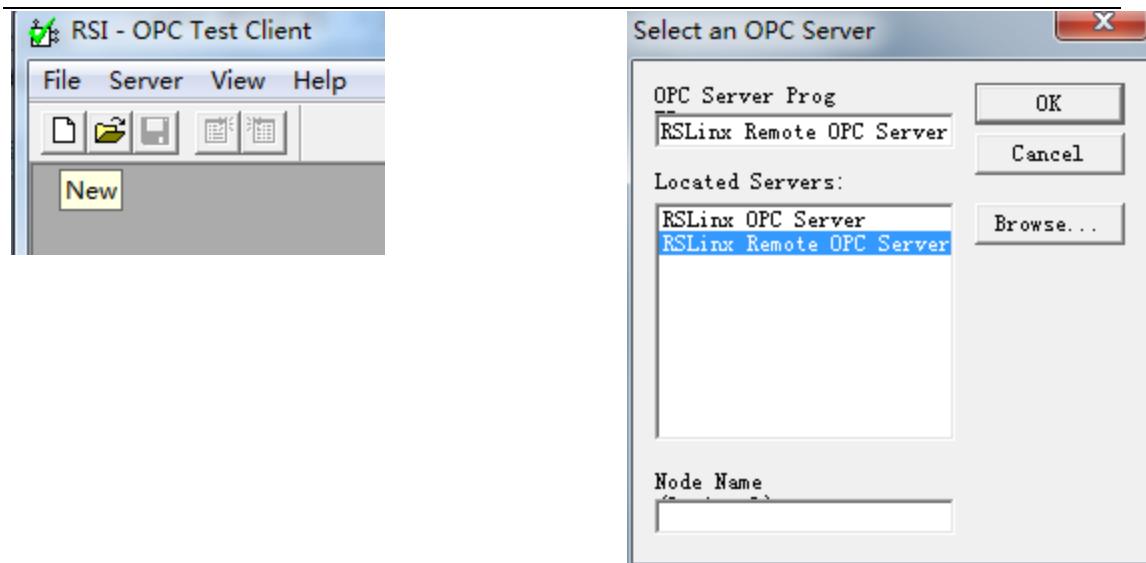




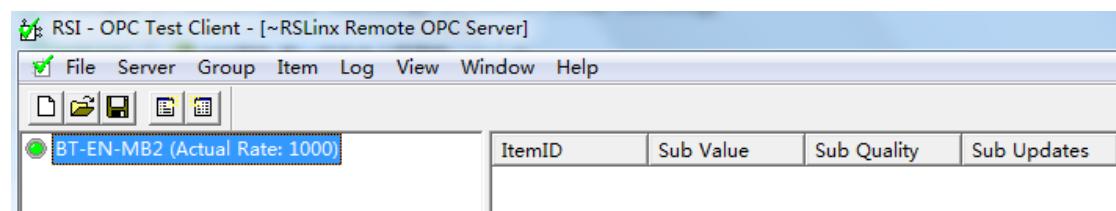
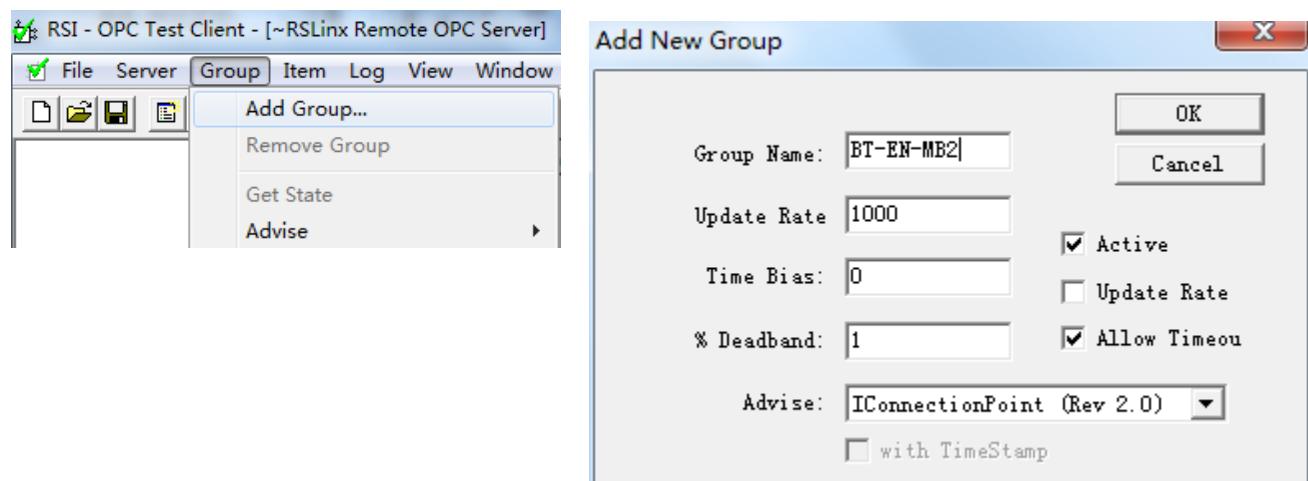
6. 打开测试工具 OPC Test Client, 这个工具随着 RSLINX 自带, 这个工具只是测试工具。不需要建立全部的数据点。



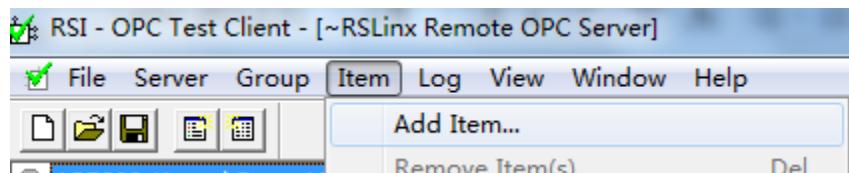
7. 配置 OPC Test Client, 新建一个项目, 选择 Remote OPC Server



8. 添加一个 Group, 起一个名字, 点击 OK 。



## 9. 添加一个 Item。



建立测试点

BOOL

SINT

INT

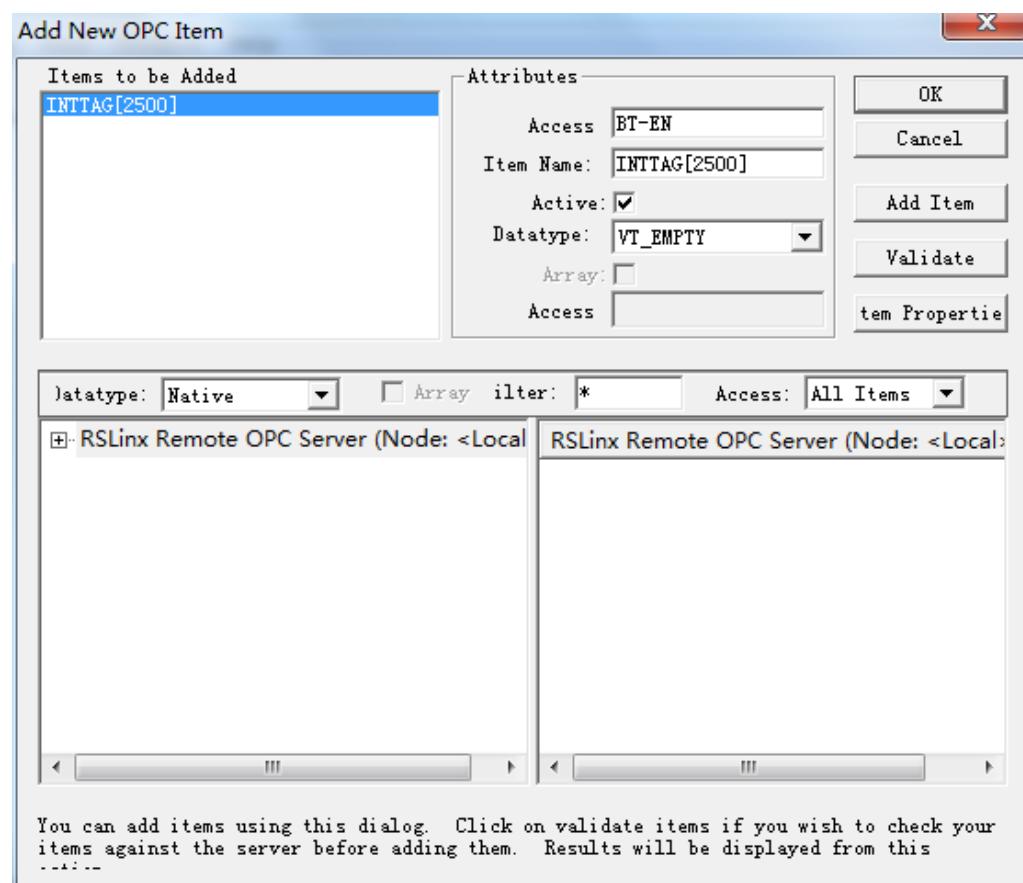
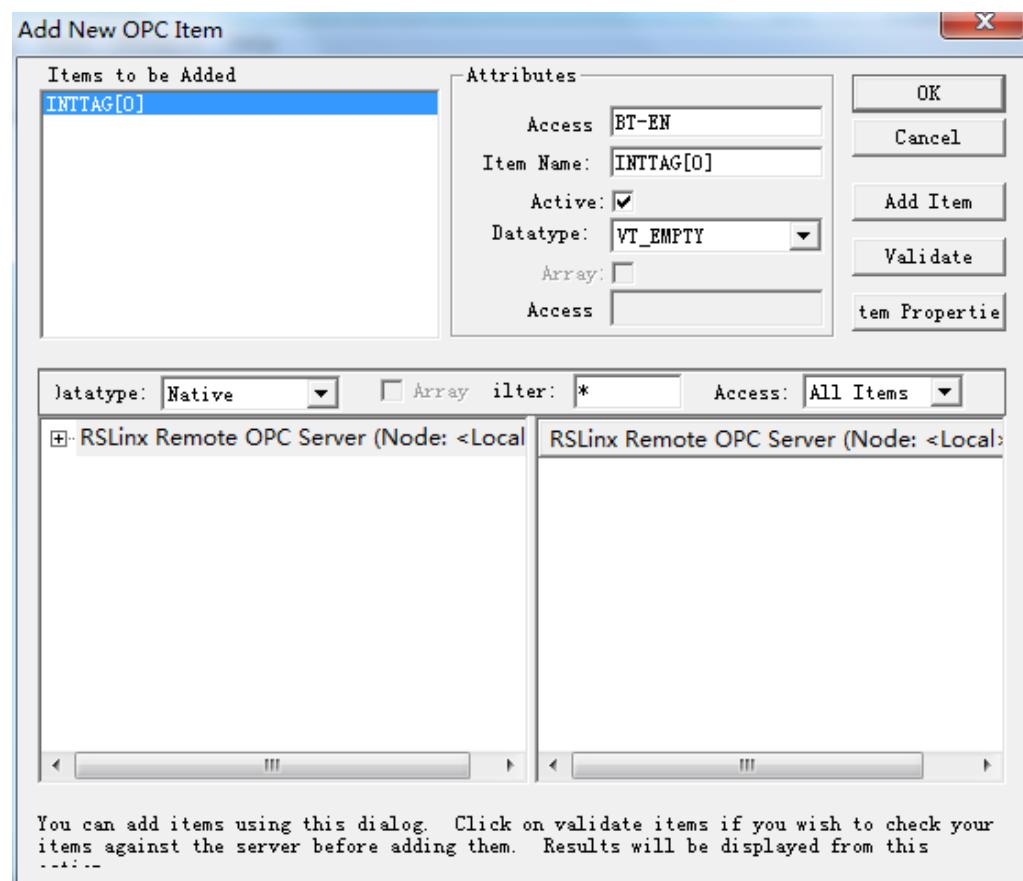
DINT

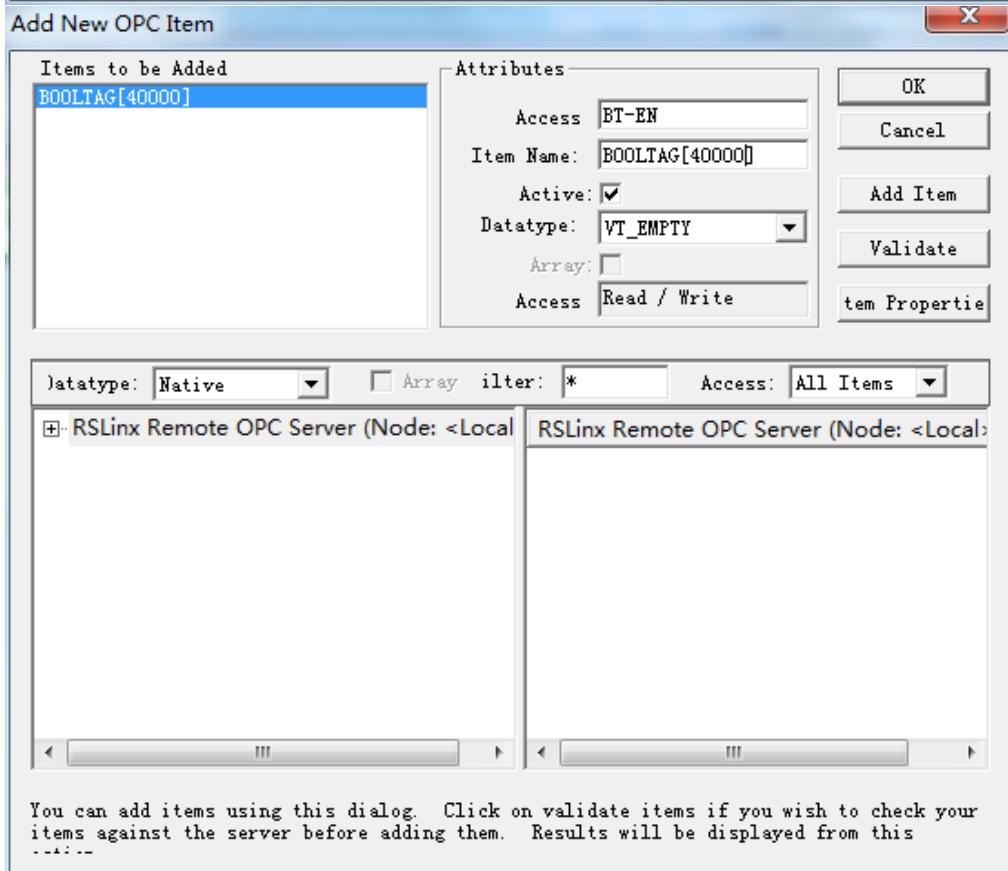
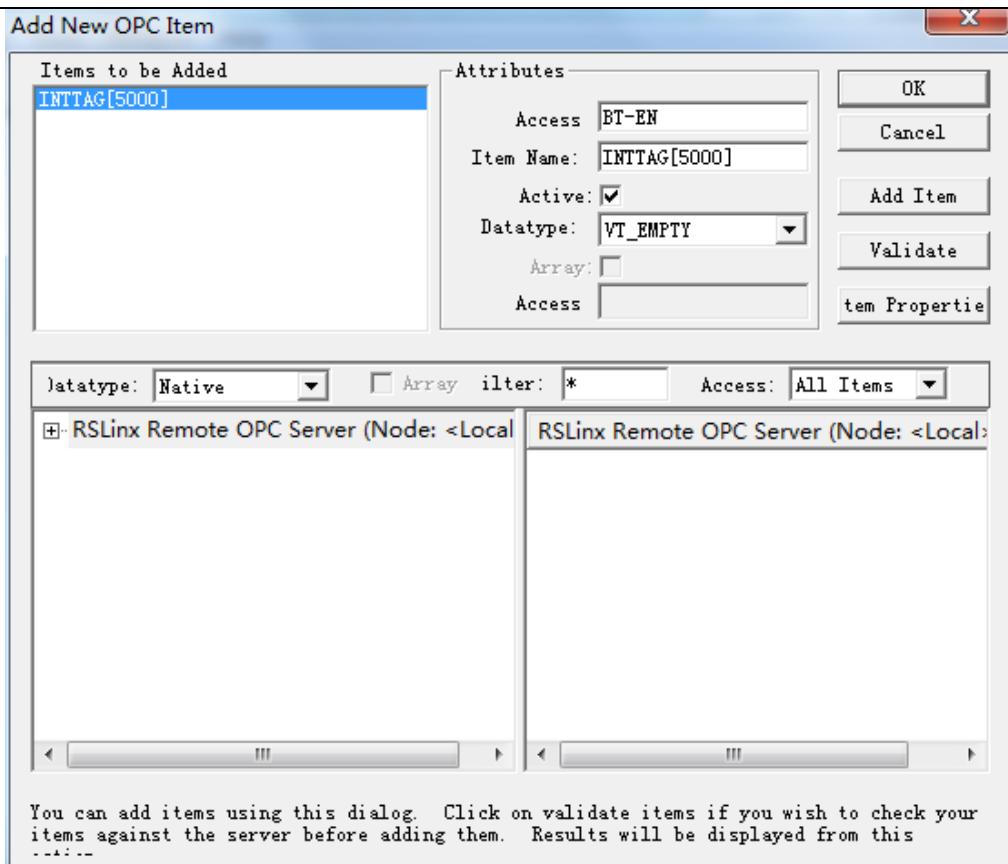
REAL

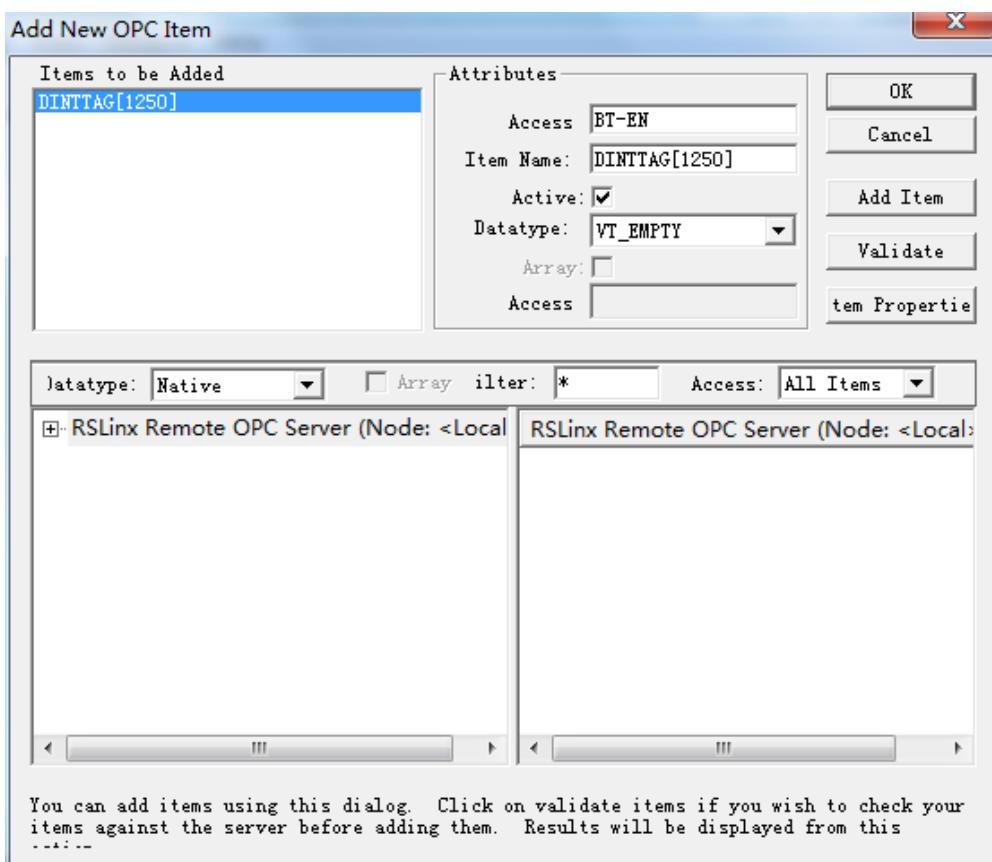
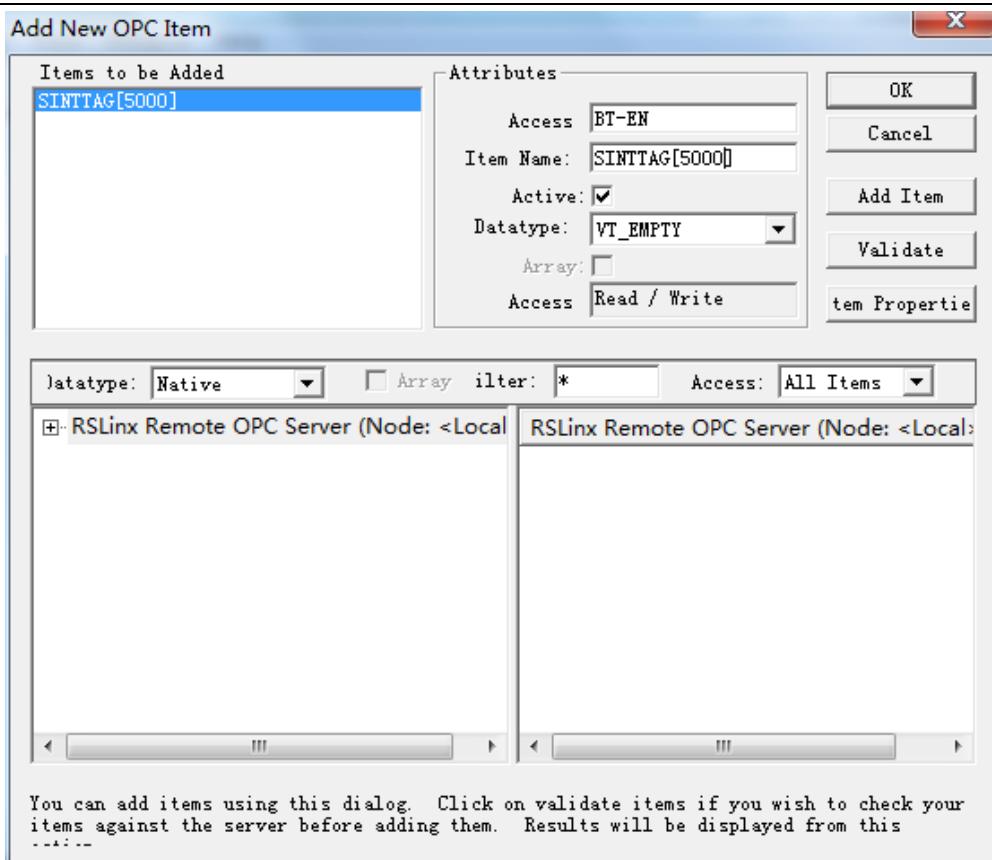
对应关系说明

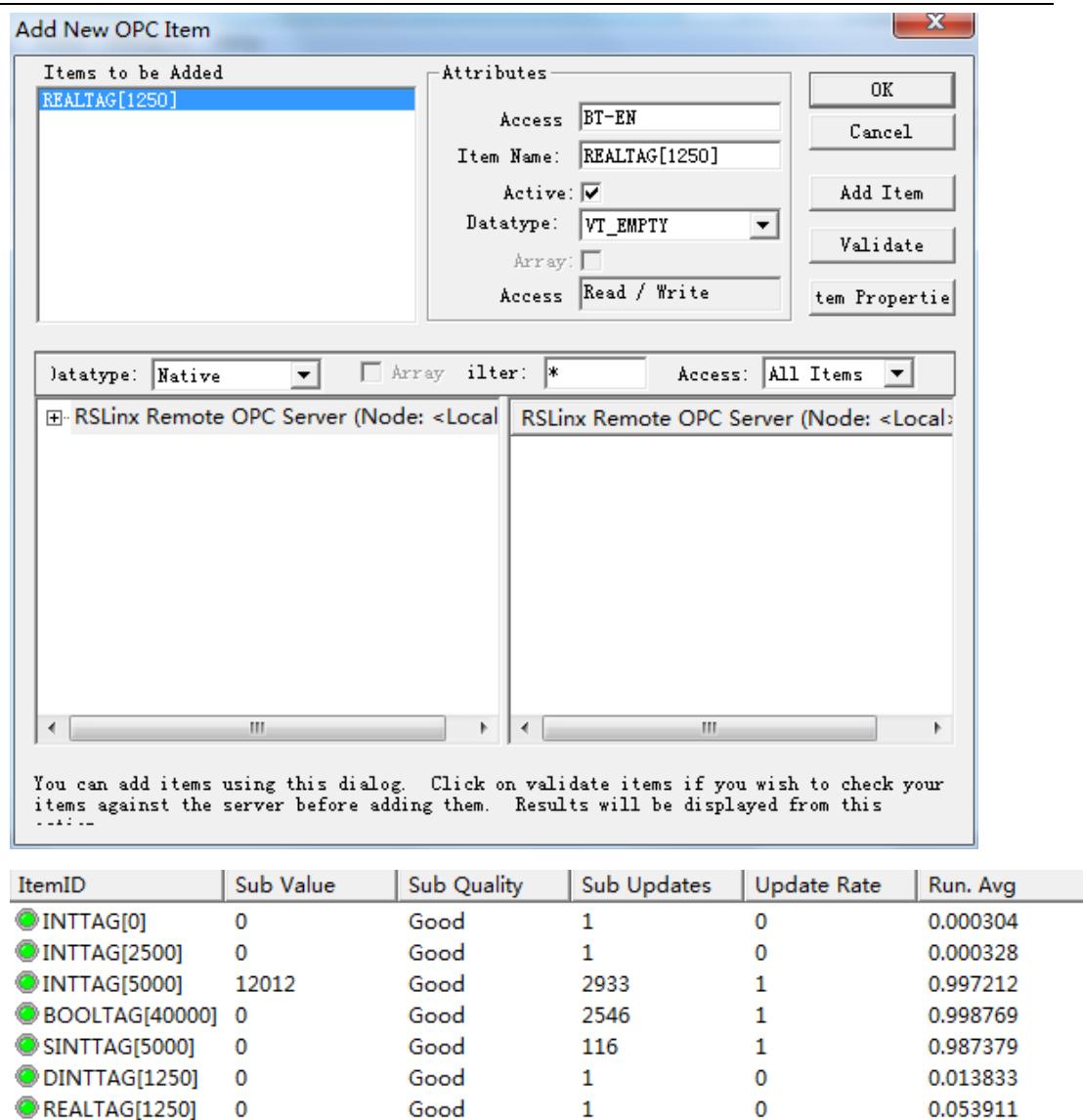
Internal Data	OPC_BOOL	OPC_SINT	OPC_INT	OPC_DINT	OPC_REAL
内部数据库地址	布尔量地址	单整型地址	整型地址	双整型地址	浮点型地址
16 位	1 位	8 位	16 位	32 位	32 位
0	booltag[0]	sinttag[0]	inttag[0]	dinttag[0]	realtag[0]
998	booltag[15968]	sinttag[1996]	inttag[998]	dinttag[499]	realtag[499]
1000	booltag[16000]	sinttag[2000]	inttag[1000]	dinttag[500]	realtag[500]
1998	booltag[31968]	sinttag[3996]	inttag[1998]	dinttag[999]	realtag[999]
2500	booltag[40000]	sinttag[5000]	inttag[2500]	dinttag[1250]	realtag[1250]
5000	booltag[80000]	sinttag[10000]	inttag[5000]	dinttag[2500]	realtag[2500]
10000	booltag[160000]	sinttag[20000]	inttag[10000]	dinttag[5000]	realtag[5000]
内部地址	内部地址×16	内部地址×2	内部地址	内部地址÷2	内部地址÷2

## 10. 点击 Add Item 添加测试点, 添加完后点 OK.





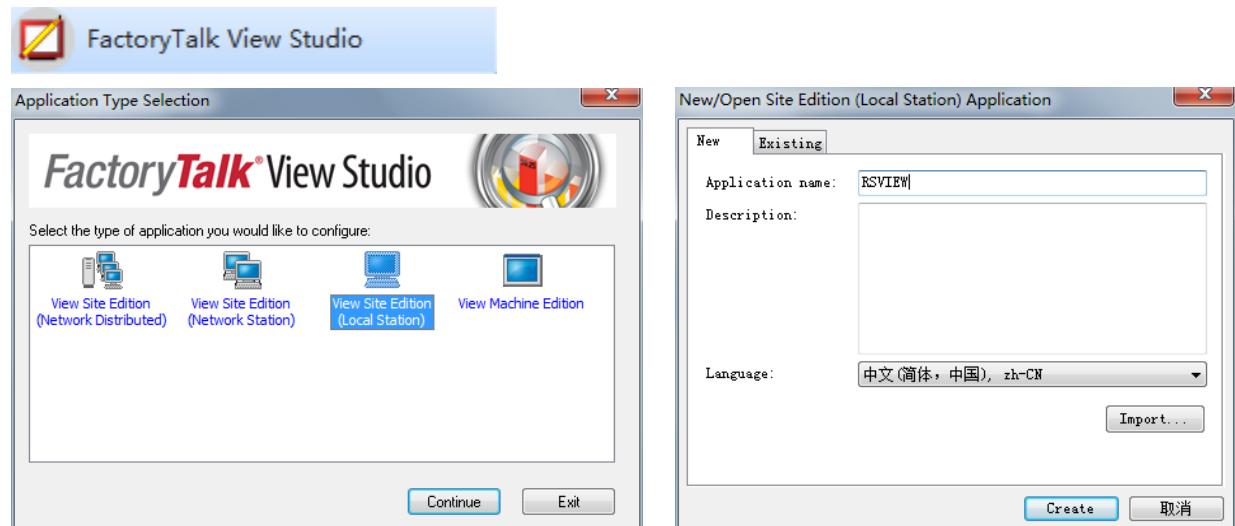




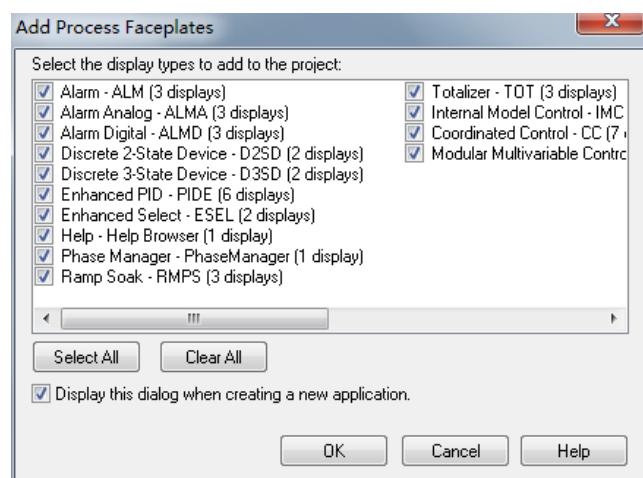
11. 测试点的状态位是 Good , 表示数据 OK。

## 二：RSVIEW SE 配置

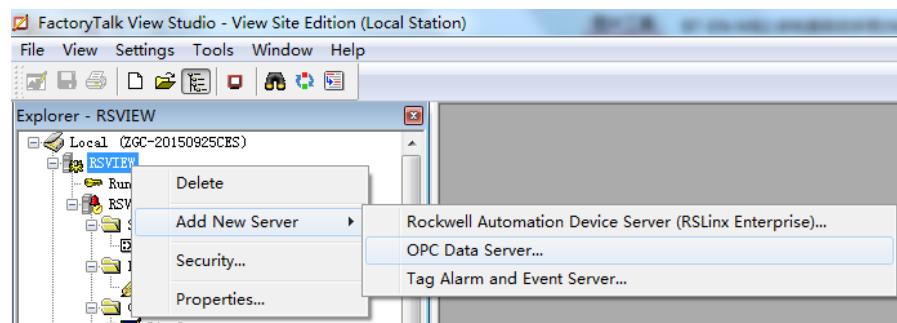
1. 新建 SE 项目，打开 RSVIEW SE 软件，建立一个项目。



2. 弹出如图所示界面，点击 OK。

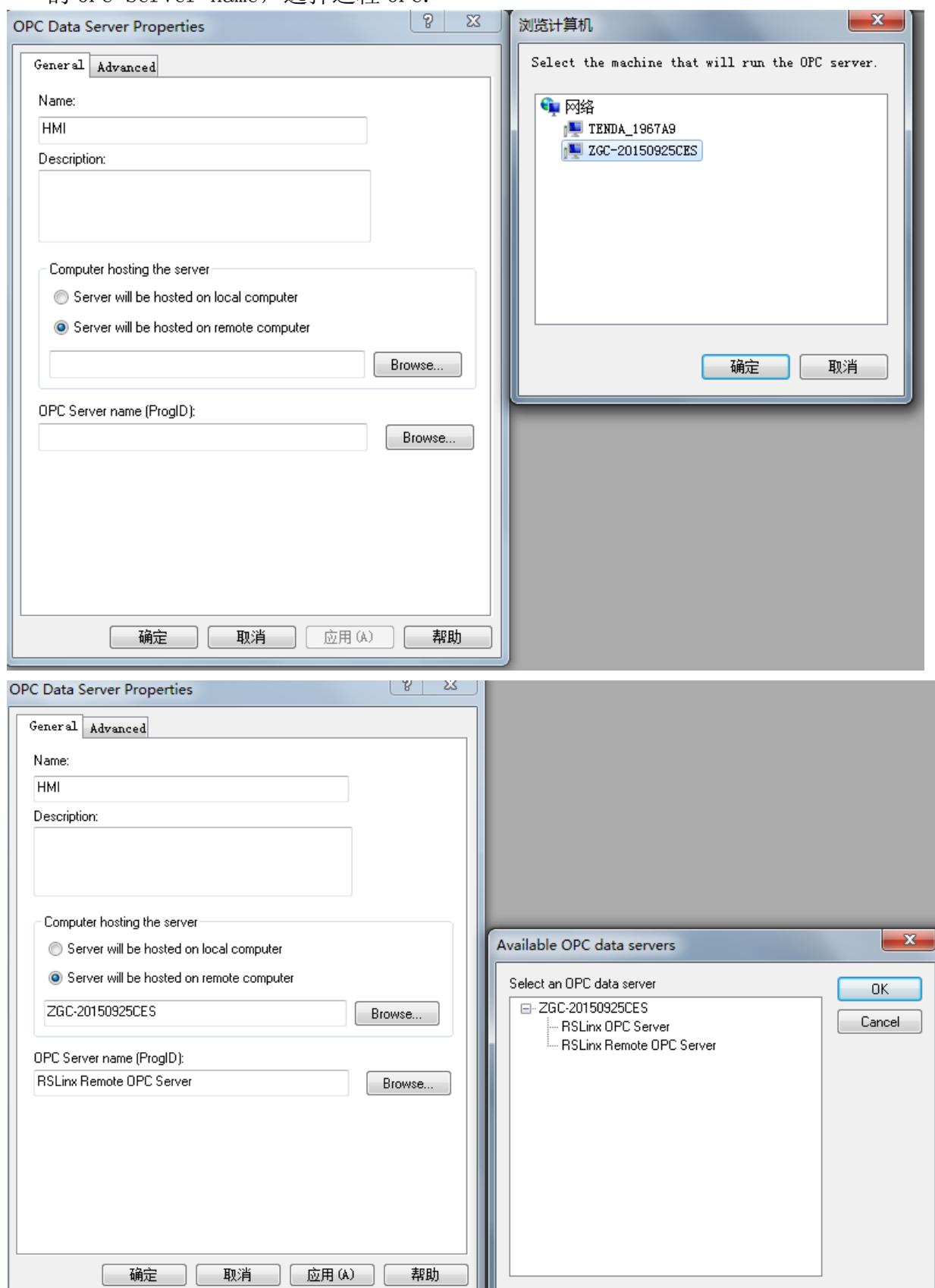


3. 配置通讯。右键单击，弹出菜单中选择“创建新的服务器”，然后选择 OPC Data Server。

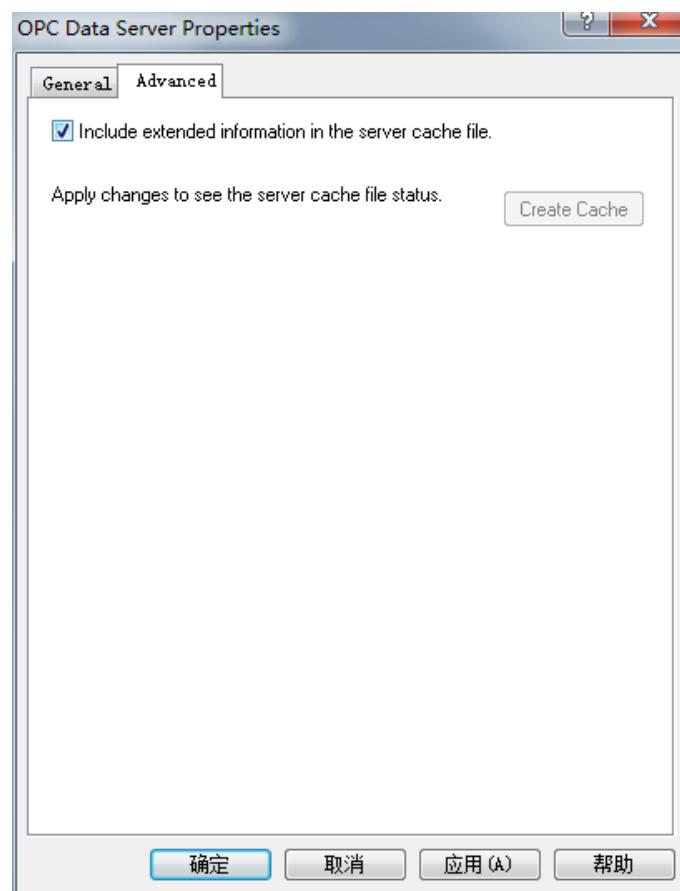


4. 如下图所示，创建名字后，选择远程电脑，并选择 OPC 名字。示例中 ZGC-20150925CES 是所使用电脑的名字，单击选择后点击确定，选择要连接

的 OPC Server name, 选择远程 OPC.

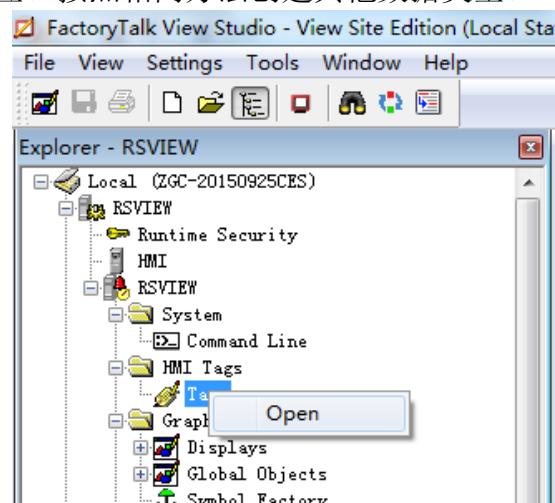


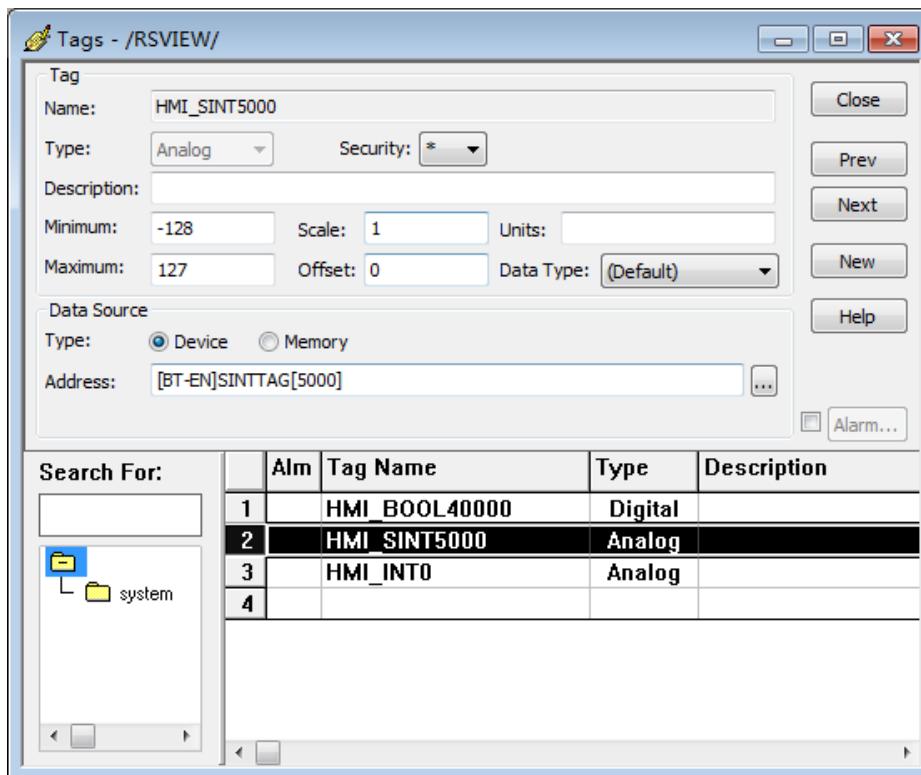
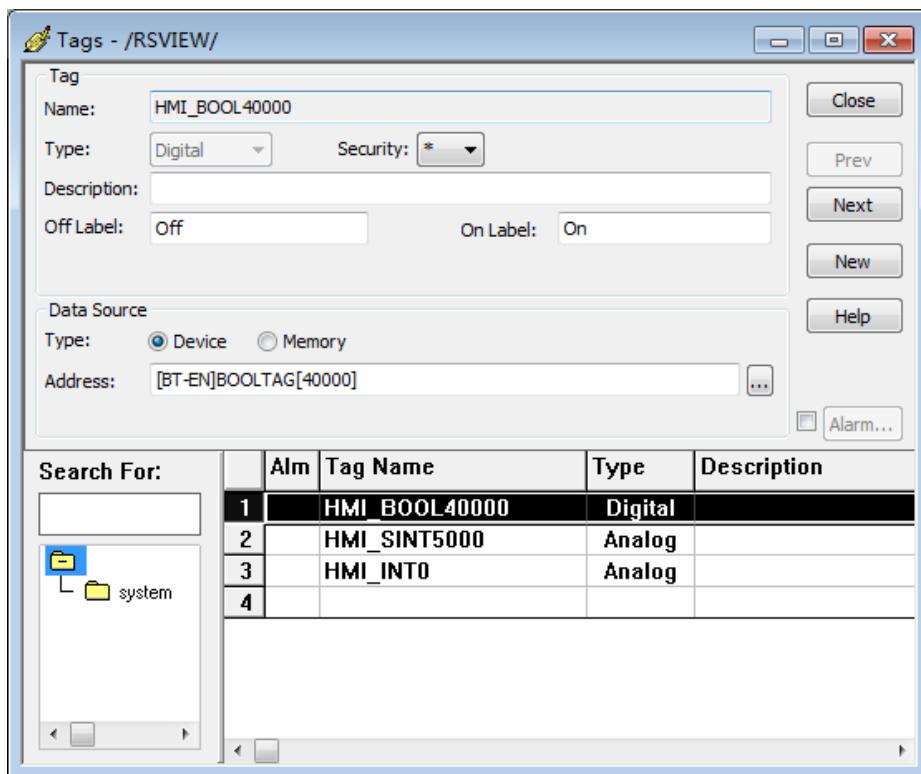
5. 增加选项里勾选包括扩展服务器缓存文件中的信息，点击确定。

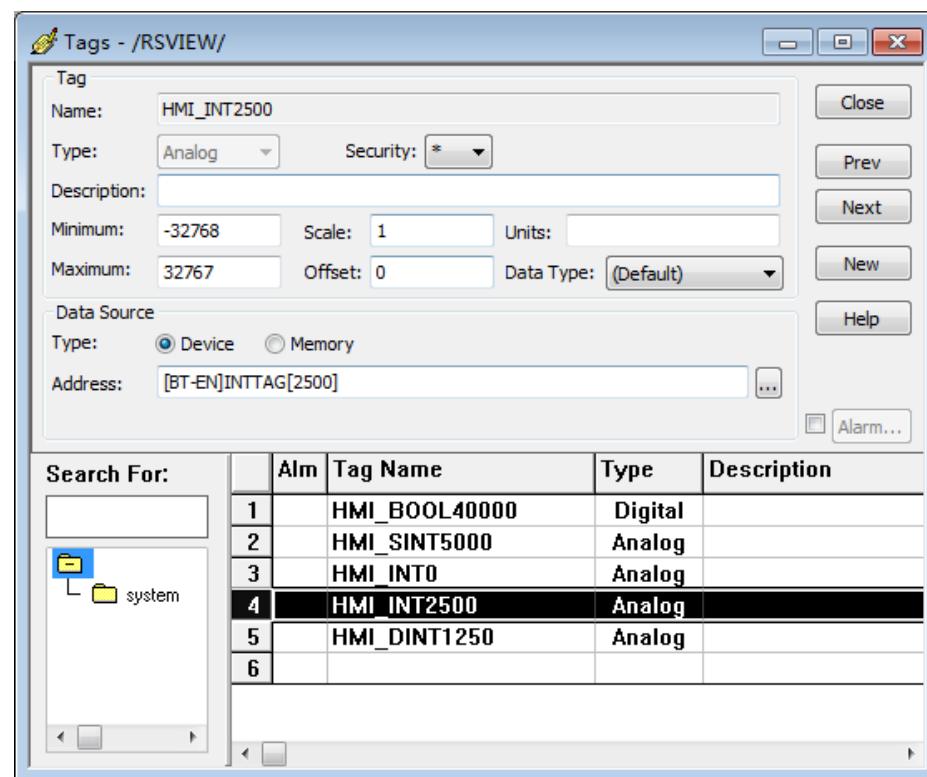
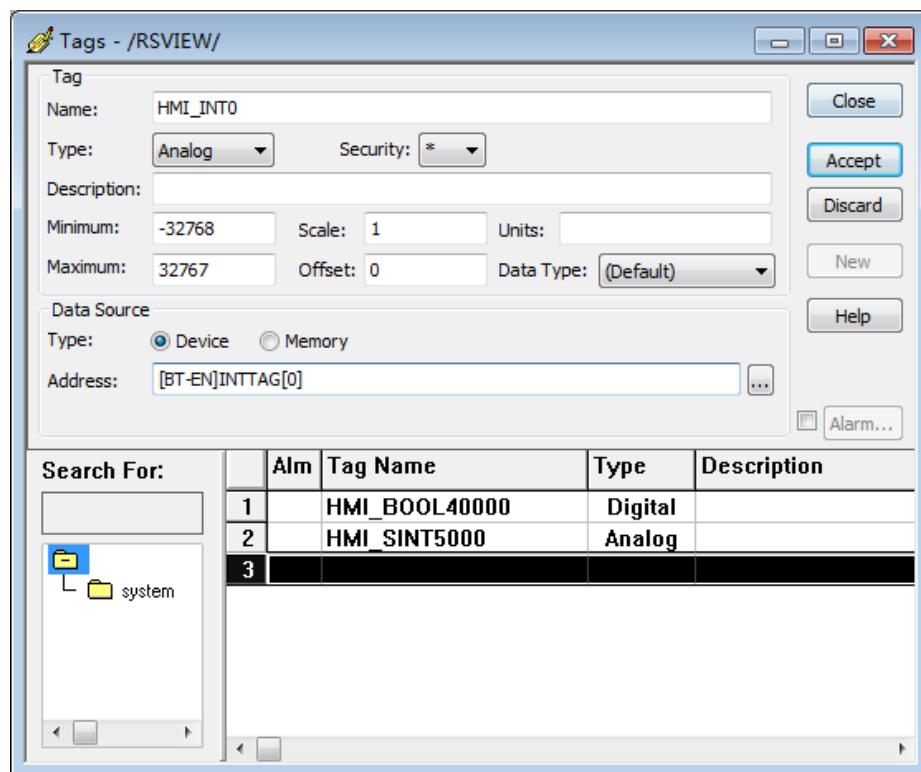


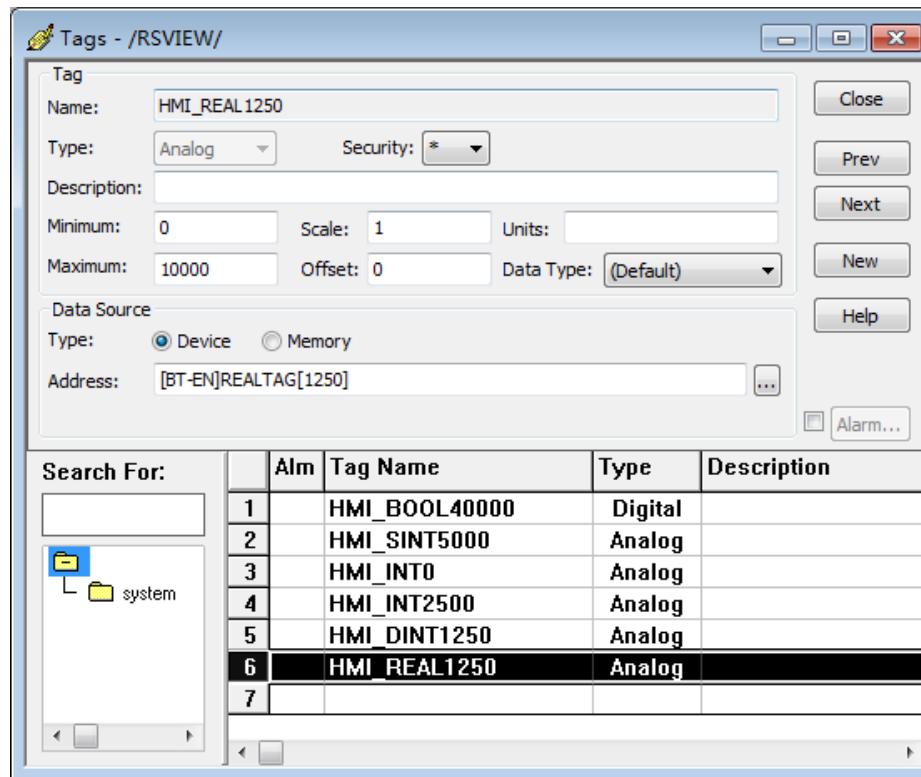
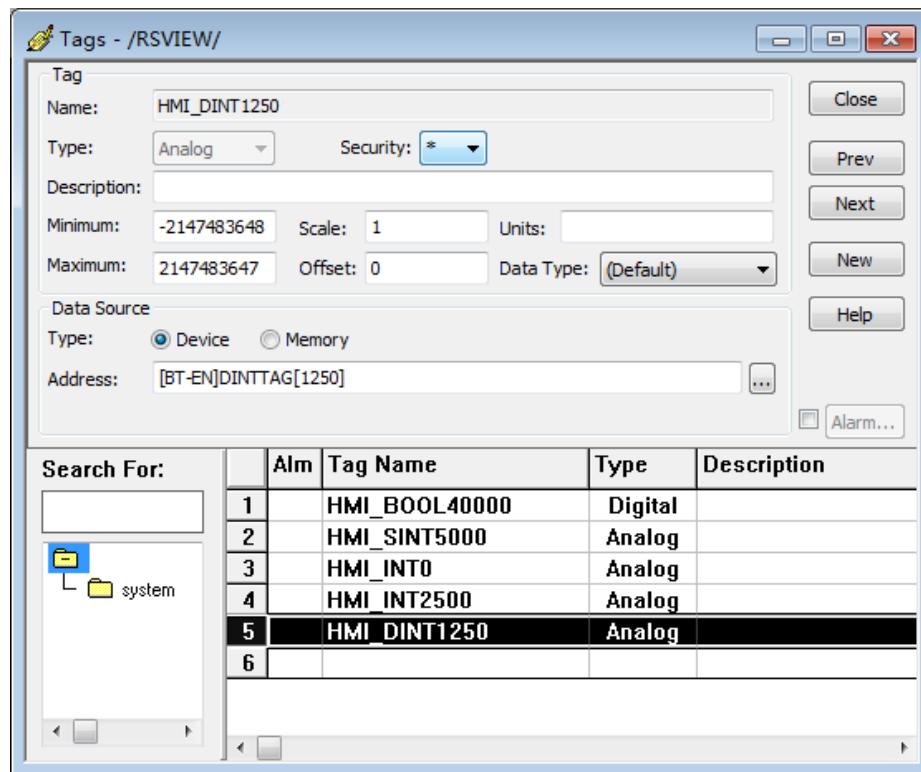
## 6. 配置标签。

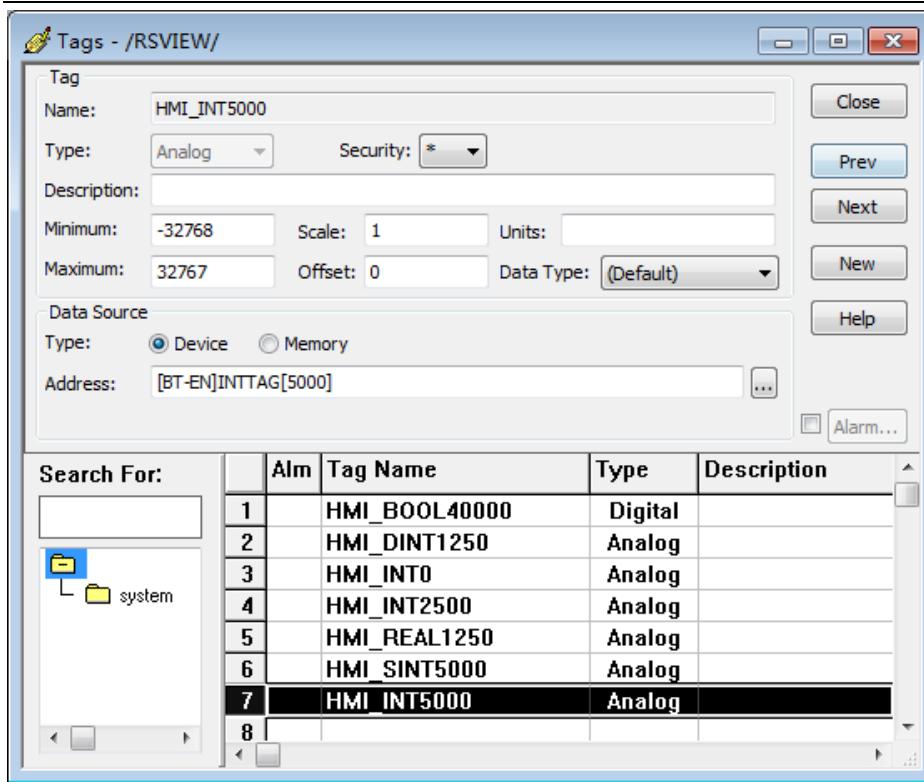
右键点击 TAGS，创建标签名字 HMI\_BOOL，选择数字量 Digital，点击 Accept 建立标签。按照相同方法创建其他数据类型。



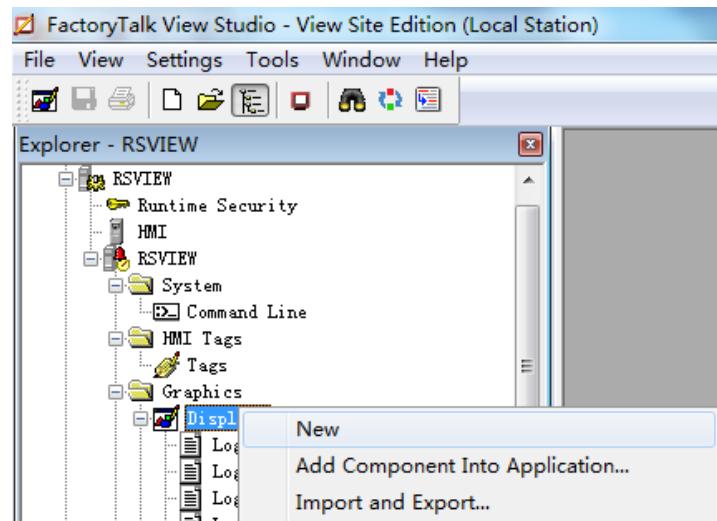




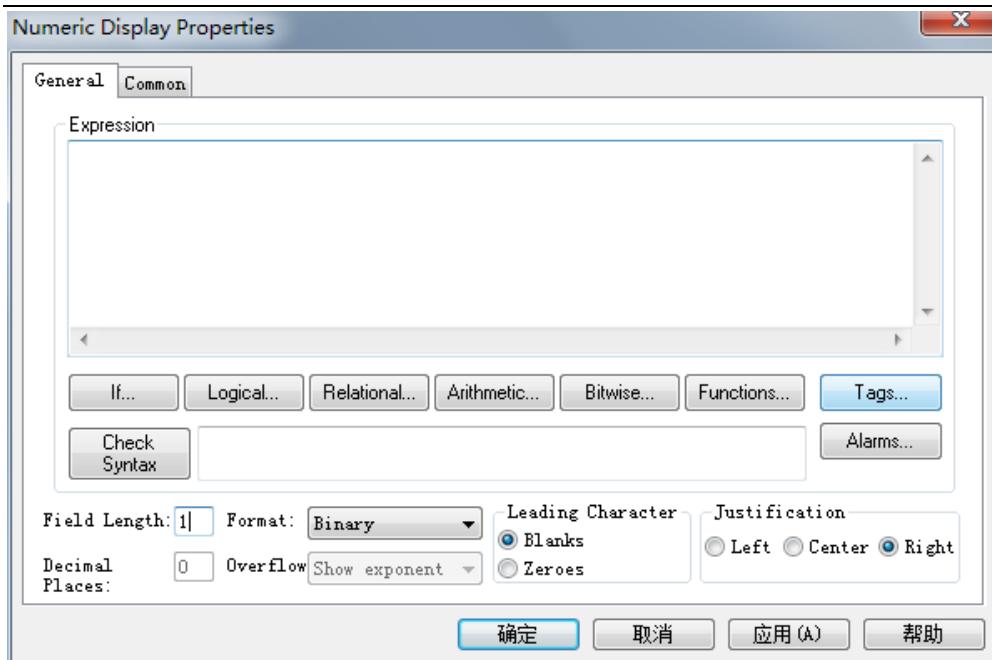




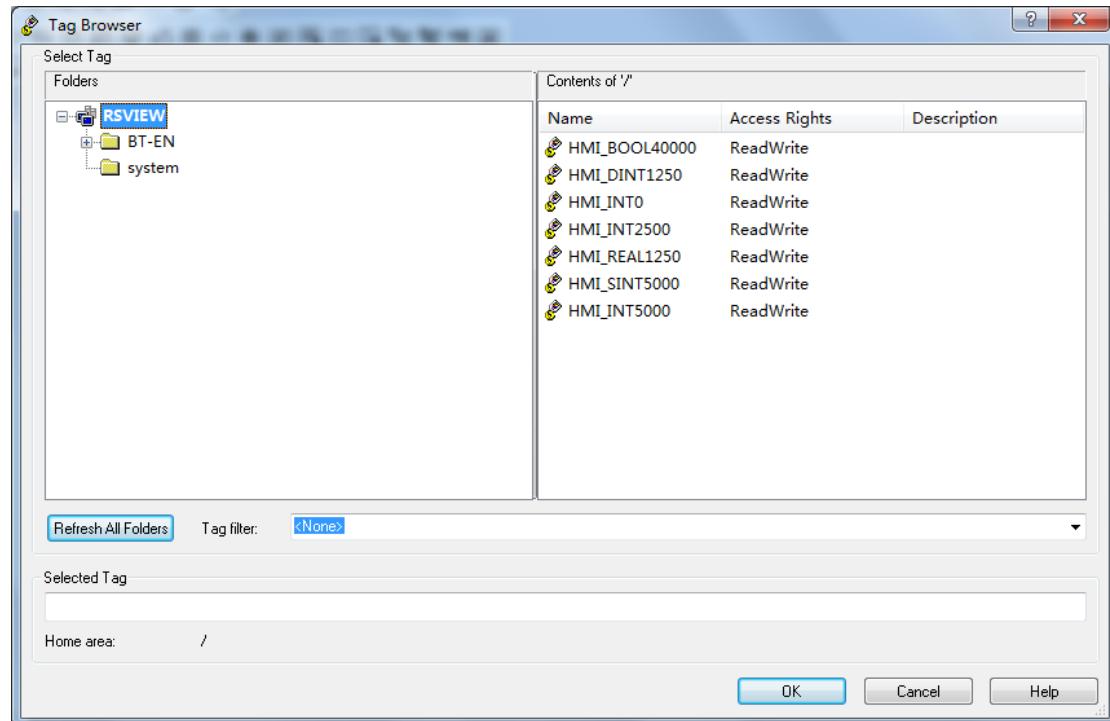
7. 新建一个显示的画面点击 New.



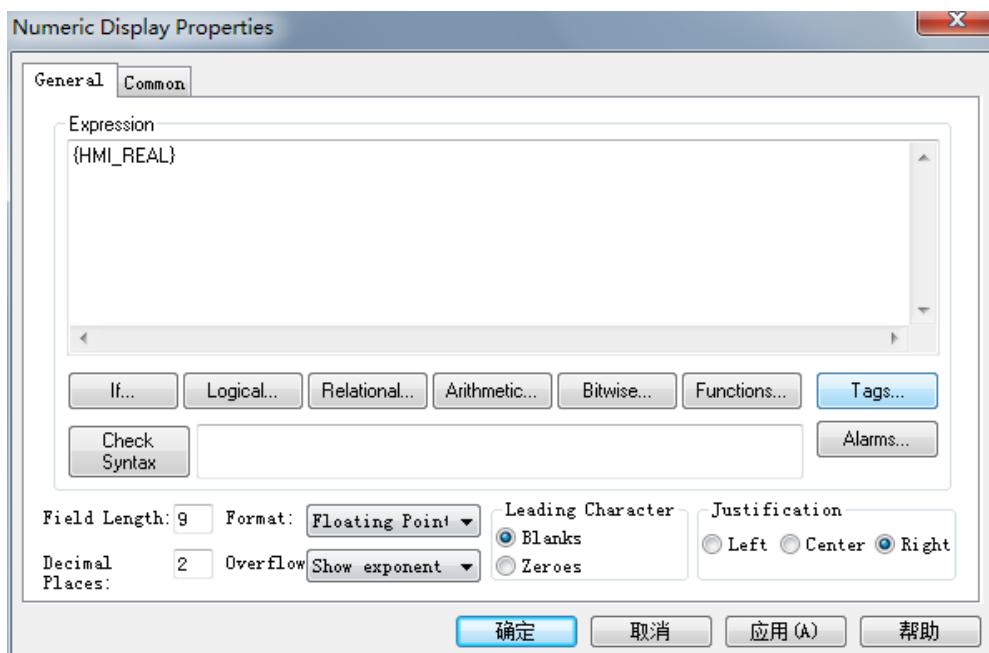
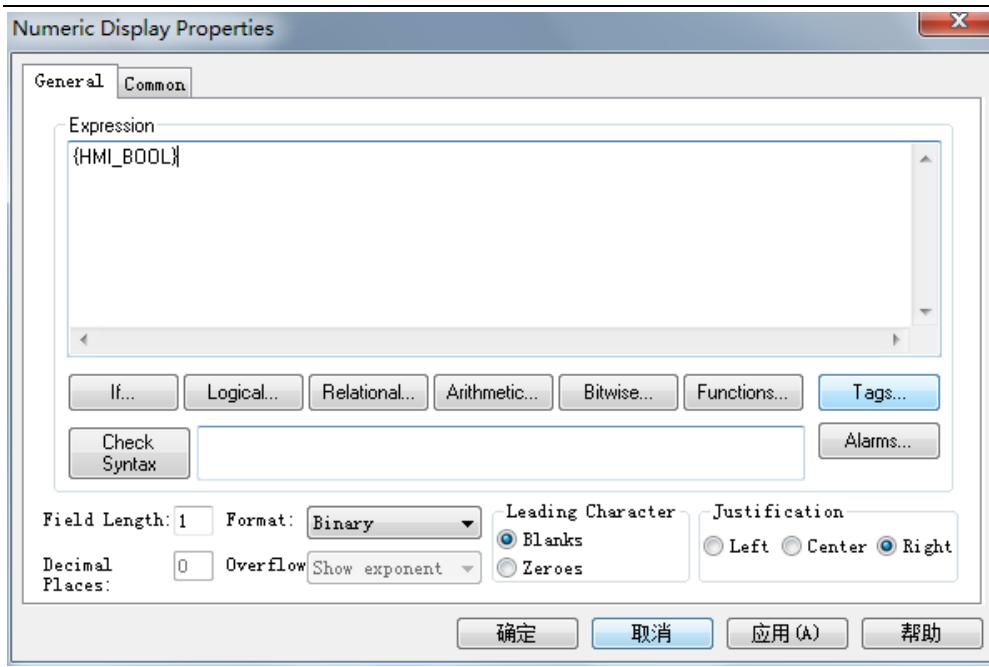
使用显示数据的标志  
建立位显示



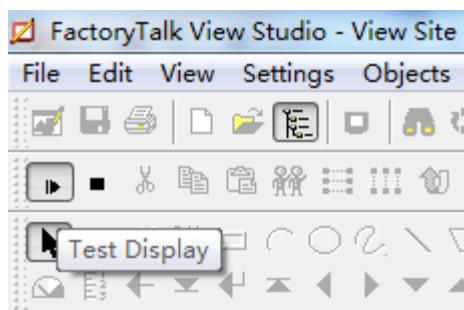
8. 建立其他显示，点击 Tags... 选择之前建立的标签。



9. 选择位的标签点。可按照此方法连接其它数据格式。



#### 10. 点击测试显示。



举例说明：如果通过 MODBUS RTU 和对方 DCS 通讯，数据要求可读可写。配置 Port 1 为 MODBUS 从站，使用仿真软件 MODSCAN 32 仿真 DCS 主站。

Address	0	1	2	3
0	0	0	0	0
10	0	0	0	0
20	0	0	0	0

The image shows the ModScan32 software interface with two main windows open. The left window, titled 'ModScan32 - ModSca1', displays a configuration panel for a device. It includes fields for 'Address' (0001), 'Device Id' (1), 'MODBUS Point Type' (03: HOLDING REGISTER), and 'Length' (10). A message at the bottom states '\*\* Device NOT CONNECTED! \*\*'. The right window, titled 'Connection Details', shows a 'Connect' dropdown set to 'Direct Connection to COM4', a 'Phone Number' field containing '192.168.0.200', and a 'Service' field containing '502'. It also includes a 'Configuration' section with 'Baud' (19200), 'Word' (8), 'Parit' (NONE), and 'Stop' (1) settings, and a 'Hardware Flow Control' section with checkboxes for 'Wait for DSR from sl' (checked), 'Delay 10 ms after RTS before transmitting first', 'Wait for CTS from sl' (unchecked), and 'Delay 1 ms after last character before'.

ModScan32 - ModSca1

File Connection Setup View Window Help

ModSca1

Address: 0001 Device Id: 1

Length: 10 MODBUS Point Type: 03: HOLDING REGISTER

\*\* Device NOT CONNECTED! \*\*

40001: < 9999 > 40006: < 0 >  
40002: < 0 > 40007: < 0 >  
40003: < 0 > 40008: < 0 >  
40004: < 0 > 40009: < 0 >  
40005: < 0 > 40010: < 0 >

Connection Details

Connect: Direct Connection to COM4

Phone Number: 192.168.0.200

Service: 502

Configuration

Baud: 19200

Word: 8

Parit: NONE

Stop: 1

Hardware Flow Control

Wait for DSR from sl

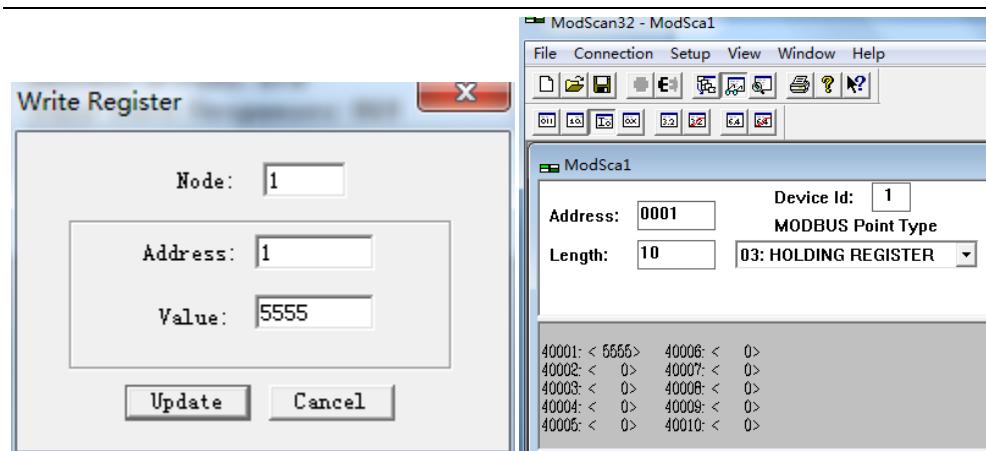
Delay 10 ms after RTS before transmitting first

Wait for CTS from sl

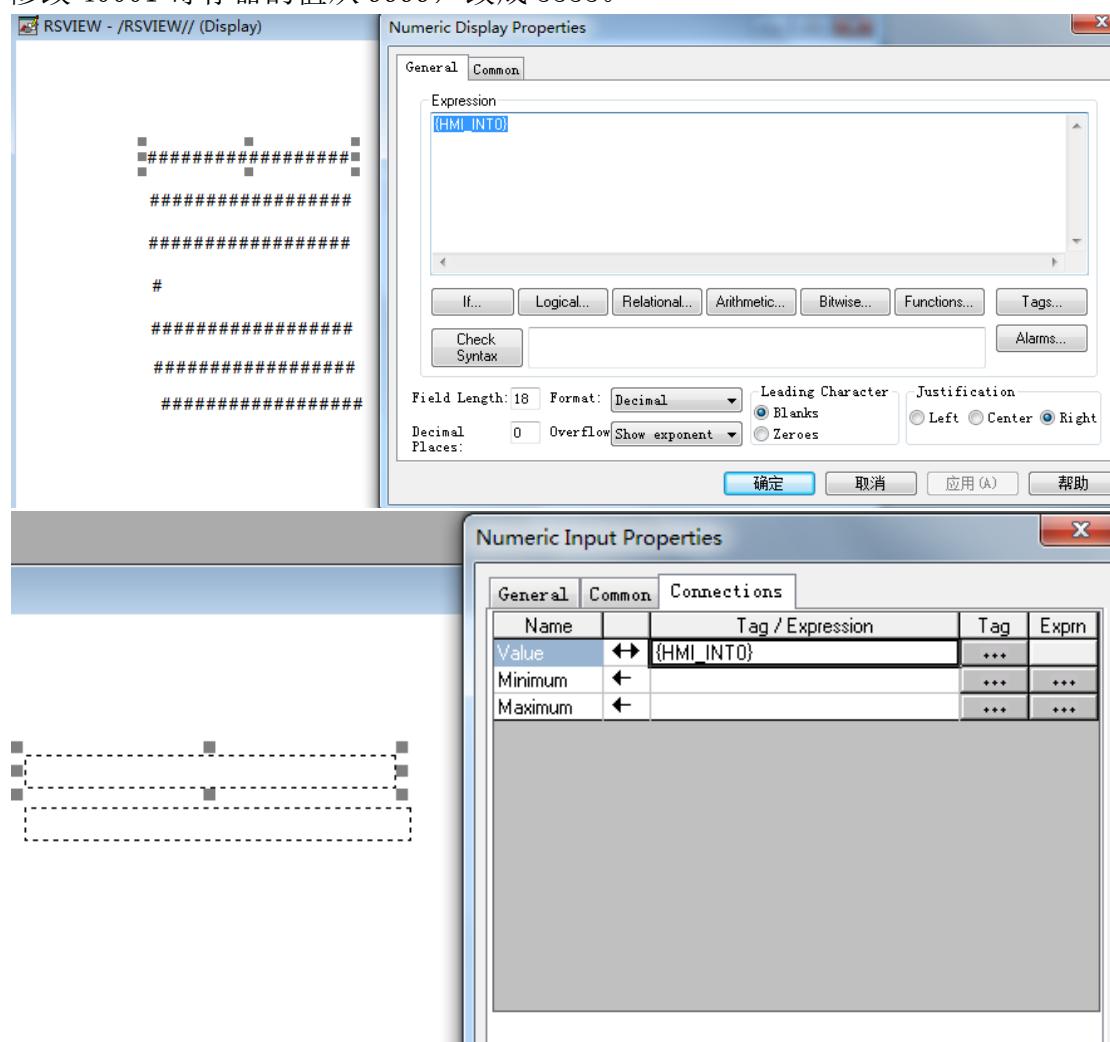
Delay 1 ms after last character before

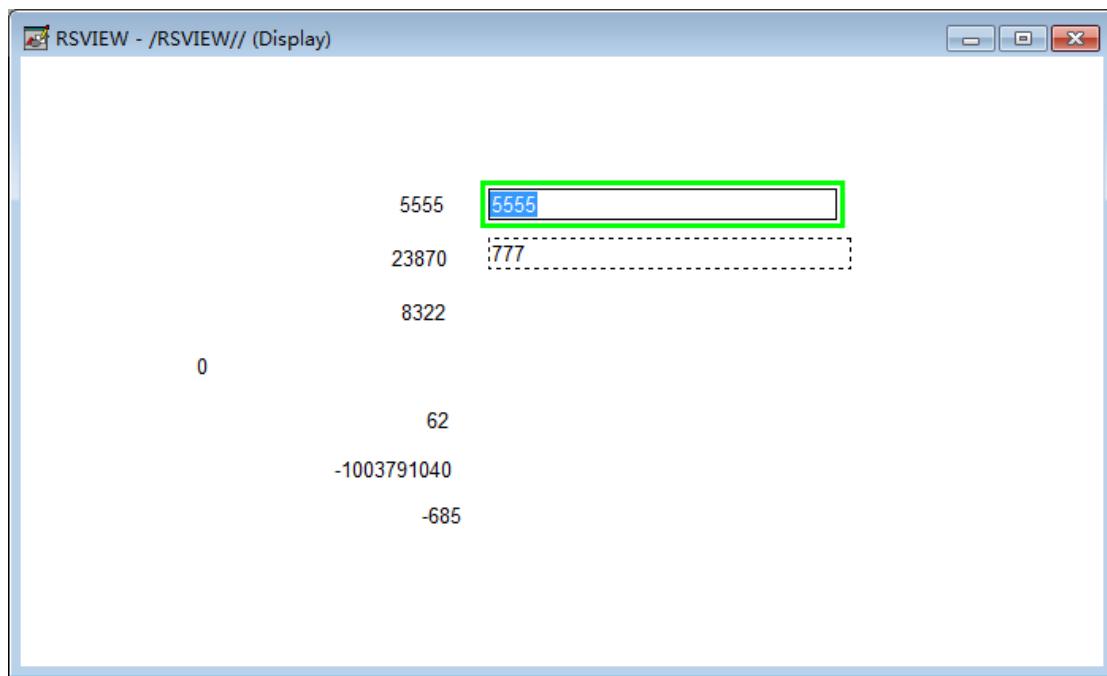
Protocol Selection

OK Cancel

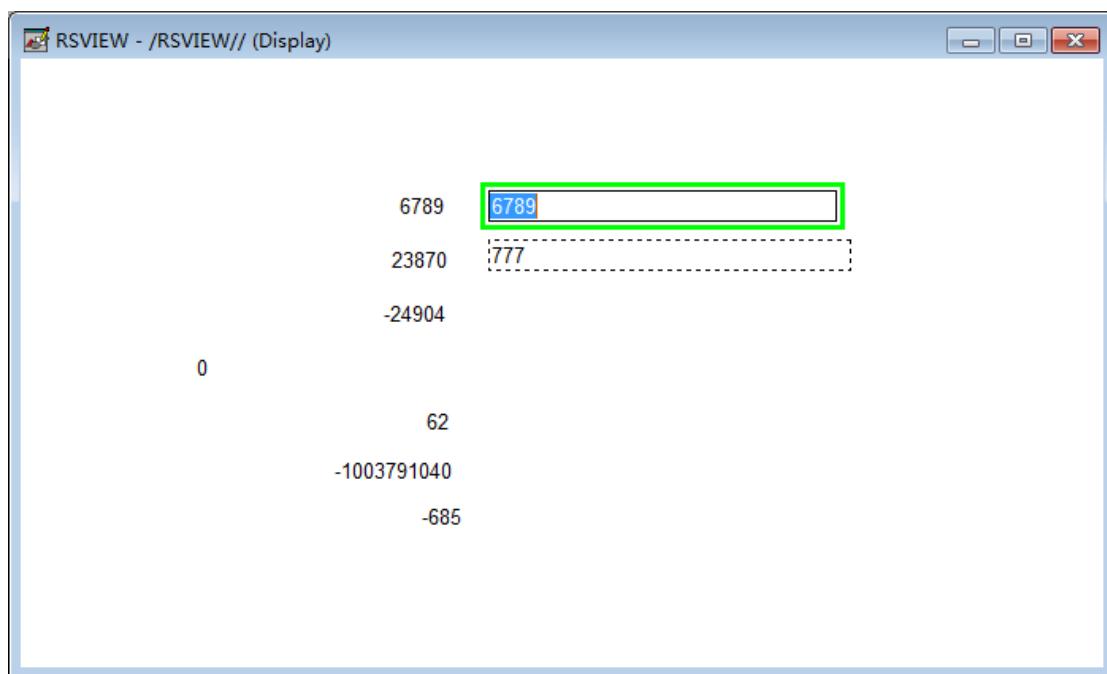


修改 40001 寄存器的值从 9999，改成 5555。

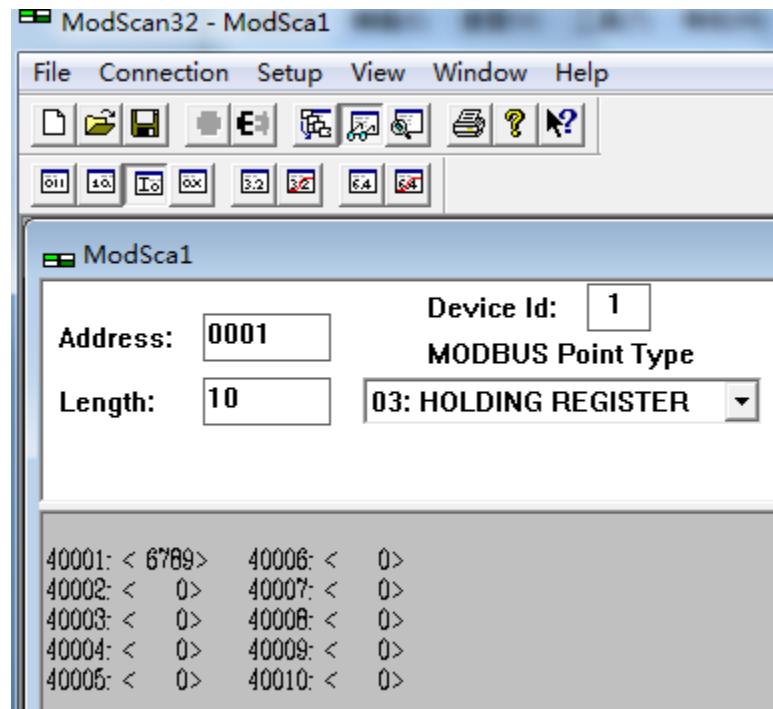




上位机修改 5555 的值 改成 6789

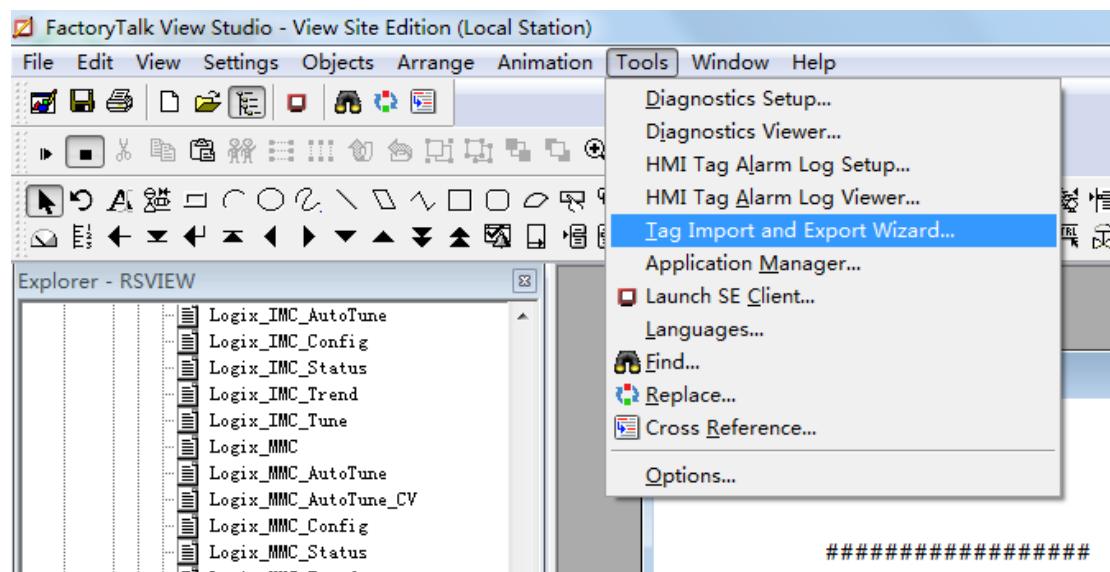


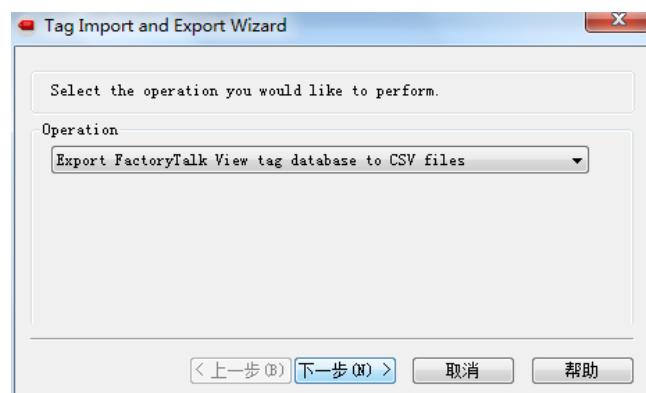
仿真软件 MODSCAN 就可以看到 40001 的变化。



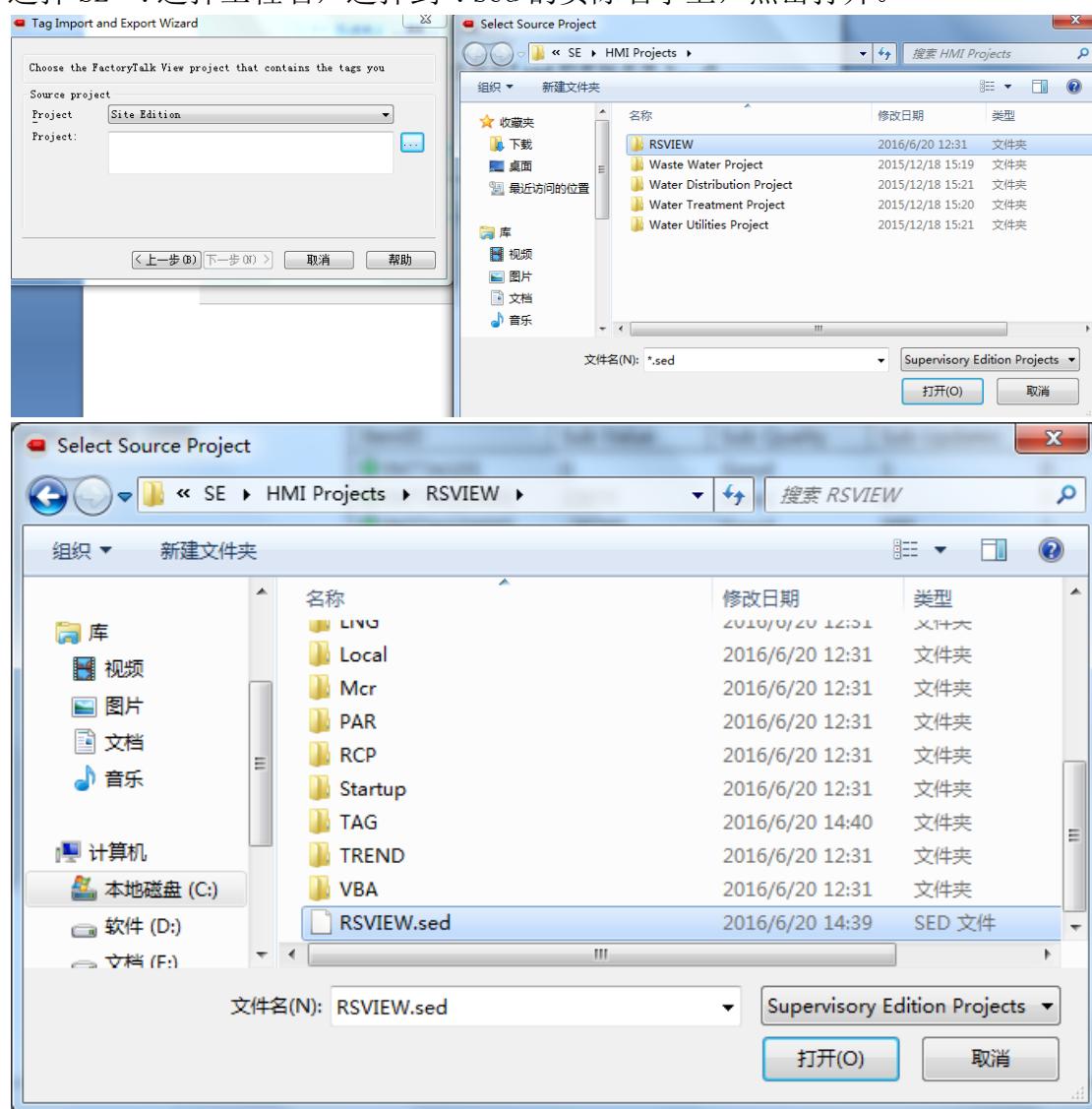
可以看到数据是对应好的。鉴于这只是一个测试工具，可不必理会 RSI-OPC test Client。

## 11. 导出标签，可以批量编辑标签和数据点对应的关系。

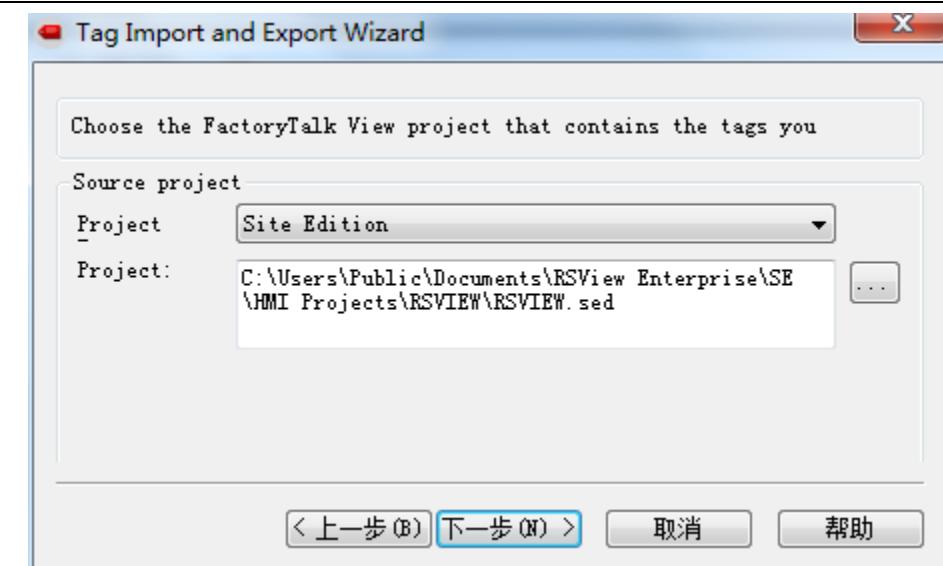




选择 SE . 选择工程名，选择到\*. sed 的实际名字上，点击打开。

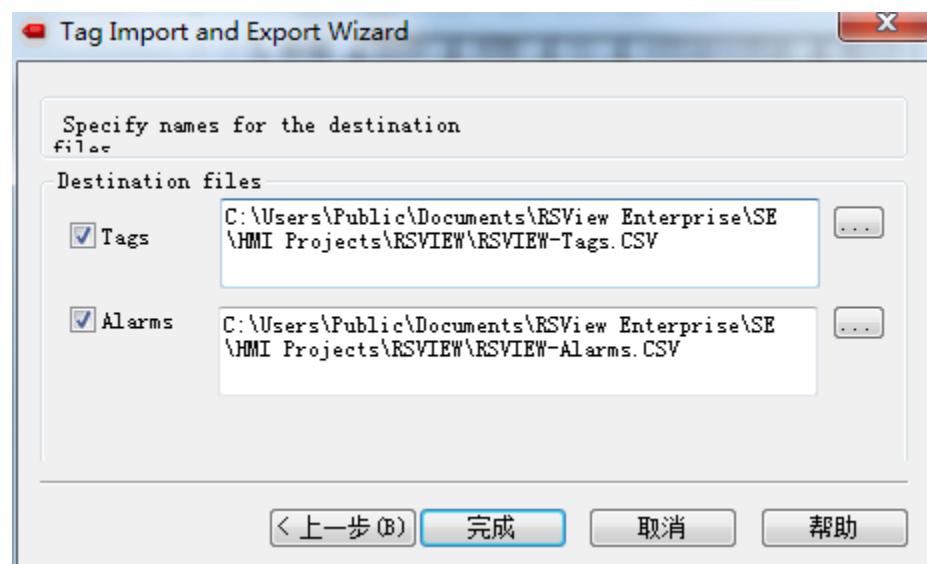


选择下一步。



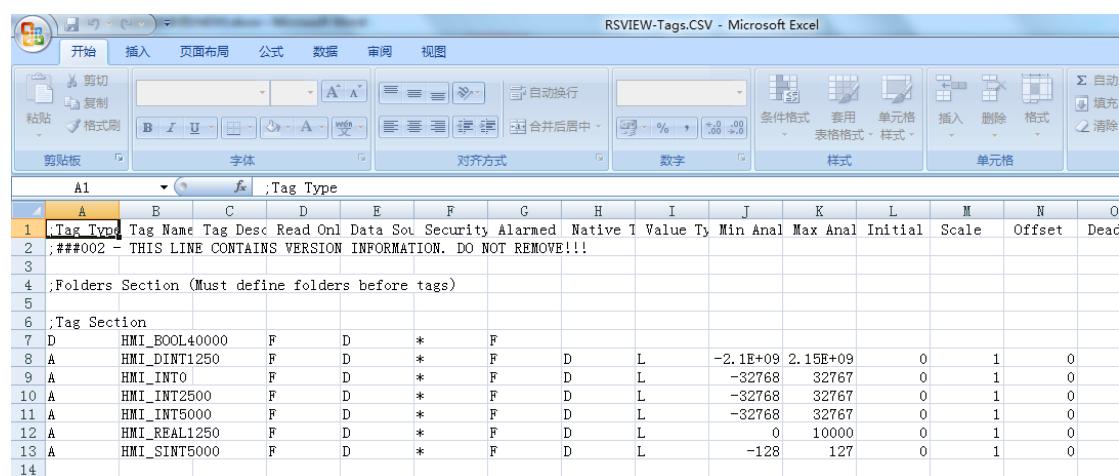
标签表保存的位置，复制下来，点击完成。

C:\Users\Public\Documents\RSView Enterprise\SE\HMI  
Projects\RSVIEW\RSVIEW-Tags.CSV



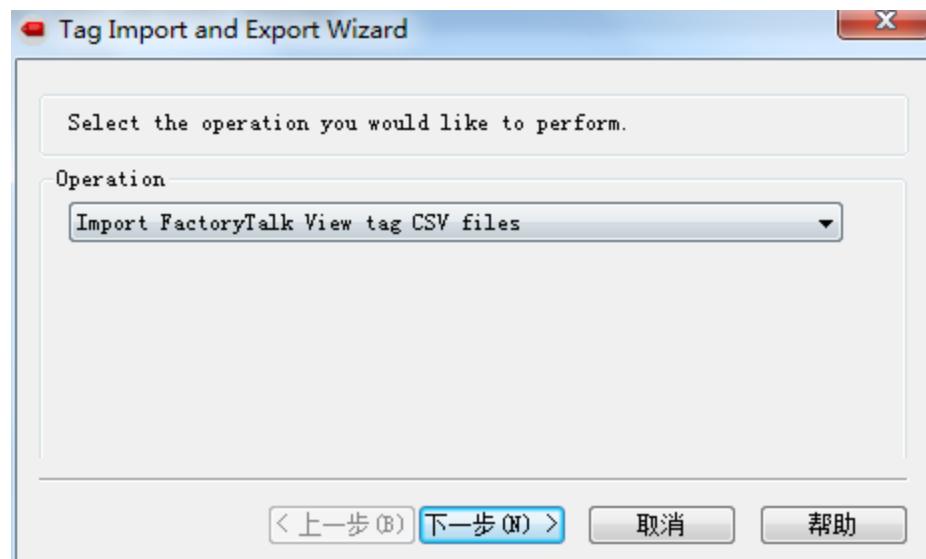
找到这个标签表，复制粘贴就可以任意修改。

RSVIEW-Alarms.CSV	2016/6/20 14:58	Microsoft Office...	2 KB
RSVIEW-Tags.CSV	2016/6/20 14:58	Microsoft Office...	2 KB

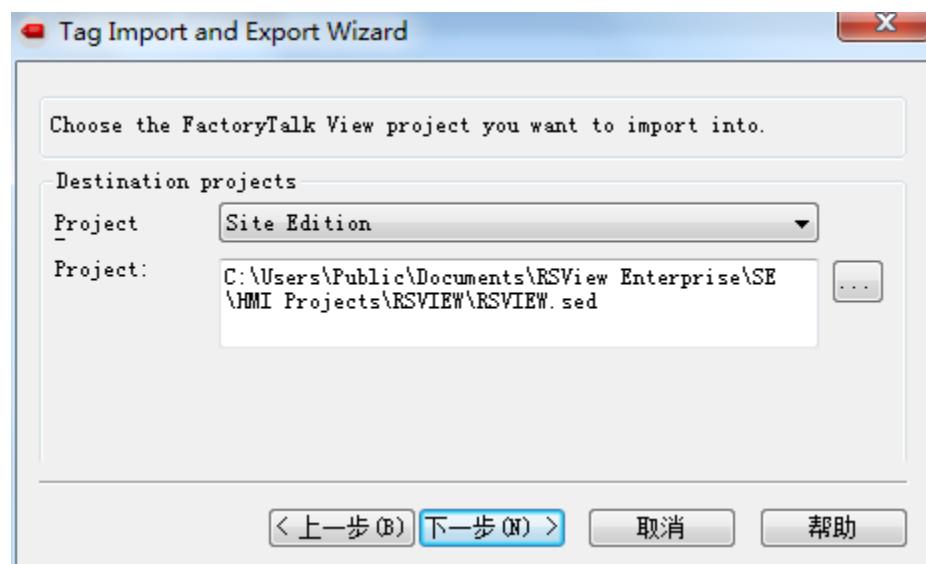


	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
1	;Tag Type	Tag Name	Tag Desc	Read Only	Data Source	Security	Alarmed	Native Type	Value	Ty	Min	Anal	Max	Anal	Initial
2	;###002 - THIS LINE CONTAINS VERSION INFORMATION. DO NOT REMOVE!!!														
3															
4	;Folders Section (Must define folders before tags)														
5															
6	;Tag Section														
7	D	HMI_BOOL40000	F	D	*	F									
8	A	HMI_DINT1250	F	D	*	F	D	L		-2.1E+09	2.15E+09	0	1	0	
9	A	HMI_INT0	F	D	*	F	D	L		-32768	32767	0	1	0	
10	A	HMI_INT2500	F	D	*	F	D	L		-32768	32767	0	1	0	
11	A	HMI_INT5000	F	D	*	F	D	L		-32768	32767	0	1	0	
12	A	HMI_REAL1250	F	D	*	F	D	L		0	10000	0	1	0	
13	A	HMI_SINT5000	F	D	*	F	D	L		-128	127	0	1	0	
14															

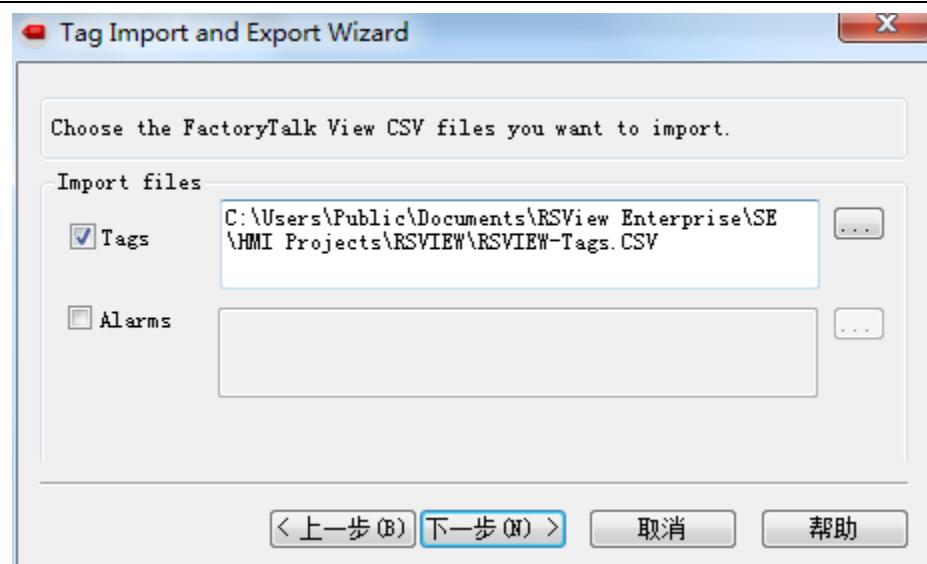
修改完，导入回来。



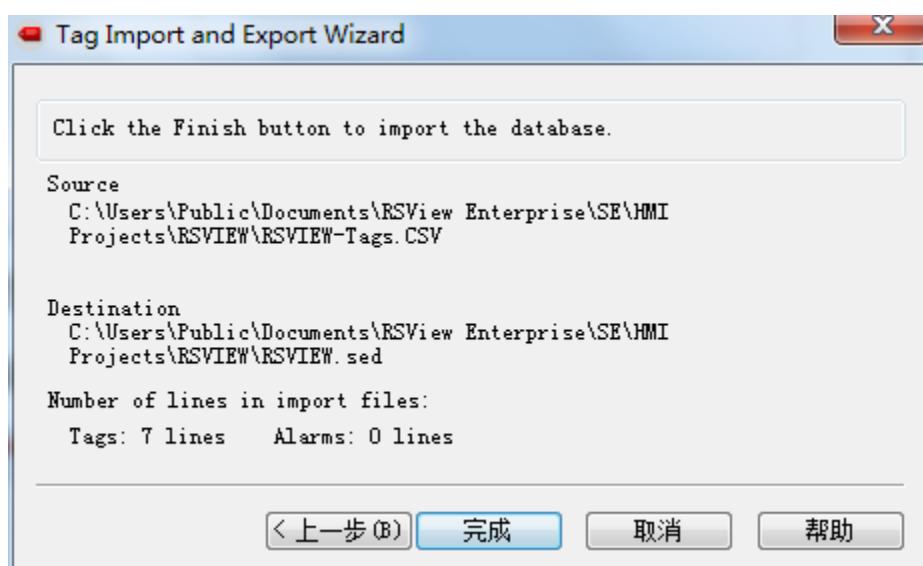
选择目标导入项目。

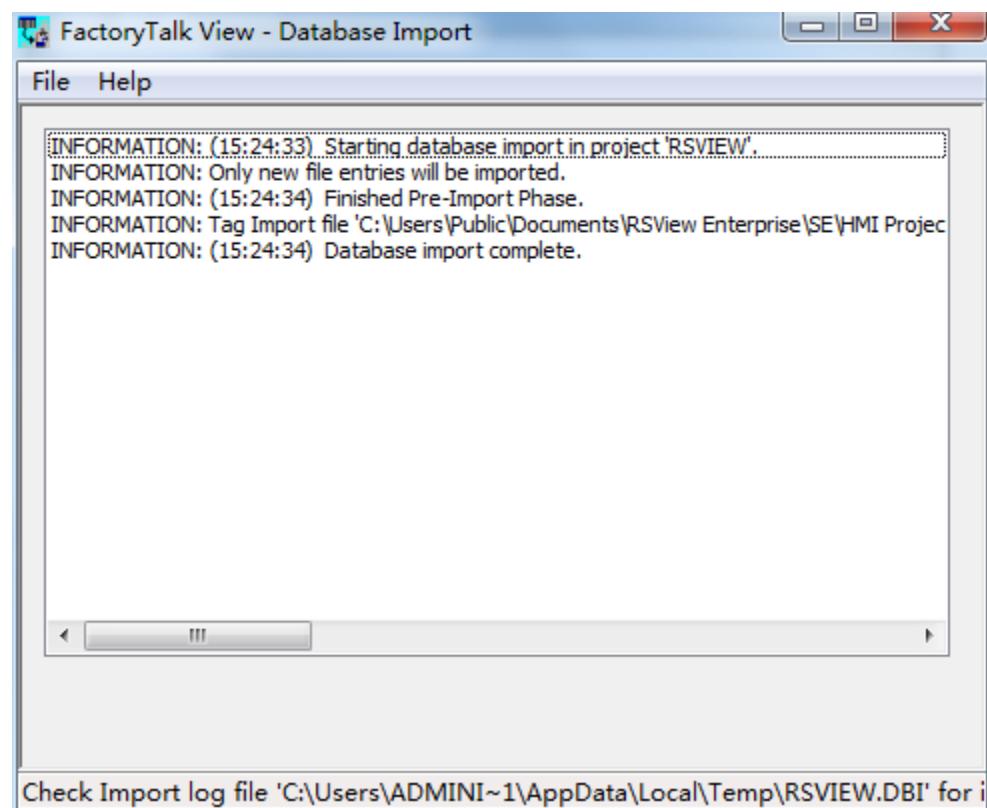


选择目标导入变量表。



选择跳过现有的标签，可以看到成功导入一个在 EXCEL 里面编辑的标签。





OPC 连接网关就此结束。

鉴于这只是一个测试工具，可不必理会 RSI-OPC Test Client。

## 其他版本

- 本案例介绍了BEACON品牌 BT-EN-XXX系列的网关从上位机直接读取网关内部数据。并适包含EtherNet/IP协议的产品。

## 联系我们

如果在使用过程中有更多的问题，可以通过以下方式联系我们获得支持。

客户服务热线 (中国大陆)	4008-710-598
技术支持	<a href="mailto:support@beacongt.com">support@beacongt.com</a>
亚太区销售	<a href="mailto:asia@beacongt.com">asia@beacongt.com</a>
北美区销售	<a href="mailto:usa@beacongt.com">usa@beacongt.com</a>