PSO2020 如何通过 CTICMP 协议来判断网关的在线状态

问题描述：

PSO2020 如何通过 CTICMP 协议来判断网关的在线状态

解决方案：

步骤如下：

1. **走设置向导，创建 CTICMP 协议的设备**

这样就会自动生成具有 CTICMP 的通讯板和端口，IO 设备：

通讯板 Board

通讯端口 Port

IO Device

2．创建变量，CTICMP 协议变量的说明如下：

Where

I1	The first octet (most significant) of the IP address of the device to ping
I2	The second octet of the IP address of the device to ping
I3	The third octet of the IP address of the device to ping
I3	The fourth octet of the IP address of the device to ping

EXAMPLES:

Data Type	DIGITAL
Address	192.168.1.1:STATE
Comment	FileServer01 state

Data Type	LONG
Address	192.168.1.1:RESPTIME
Comment	FileServer01 response time

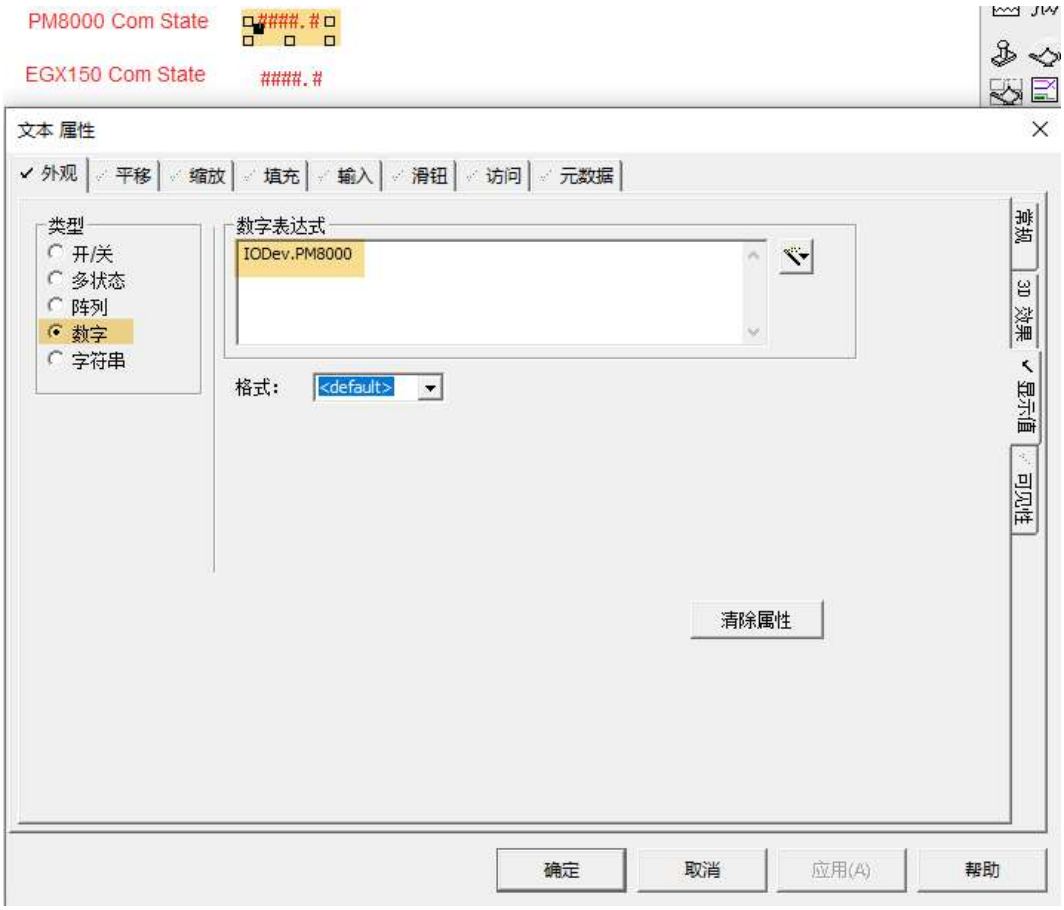
IO Device Type	Citect data format	Citect data types	Description/Special Usage/Limitations/ Valid Ranges
State	*i1.i2.i3.i4*:STATE	DIGITAL	Device status. 1 if it is responding, 0 if it is not responding. Read only.
Status	*i1.i2.i3.i4*:STATUS	INTEGER	Device status. 1 if it is responding, 0 if it is not responding. Read only.
Error Number	*i1.i2.i3.i4*:ERRNUM	INTEGER	A number representing the error condition of the last ping. Read only. 0: No faults 1: Not responding 2: Socket write timed out 3: Socket read timed out
Error Description	*i1.i2.i3.i4*:ERRDESC	STRING	A description of the status of the last ping. Read only. Blank when no error, or, not responding socket write timed out socket write failed

Poll Time	*i1.i2.i3.i4*:POLLTIME	LONG	The duration, in seconds, between each ping to the host. See Driver Parameter HostPollTime for default.
Time Out	*i1.i2.i3.i4*:TIMEOUT	LONG	The time, in seconds, to wait for a response from the host after it is pinged.
Response Time	*i1.i2.i3.i4*:RESPTIME	LONG	The time, in milliseconds, it took the host to respond to the last ping. Read only.

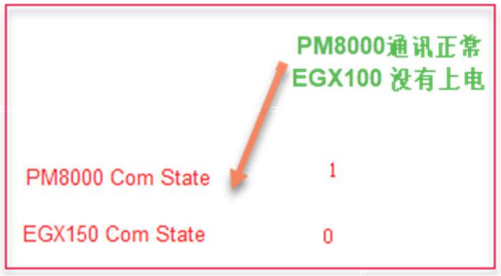
3. 测试

本示例创建两个变量，分别显示 PM8000 的通讯状态和 EGX100 网关的通讯状态

页面中显示变量：



运行工程，查看显示：



EGX100 上电通讯后，EGX100 的状态变为 1：