

## PSO2020 如何通过 CTICMP 协议来判断网关的在线状态

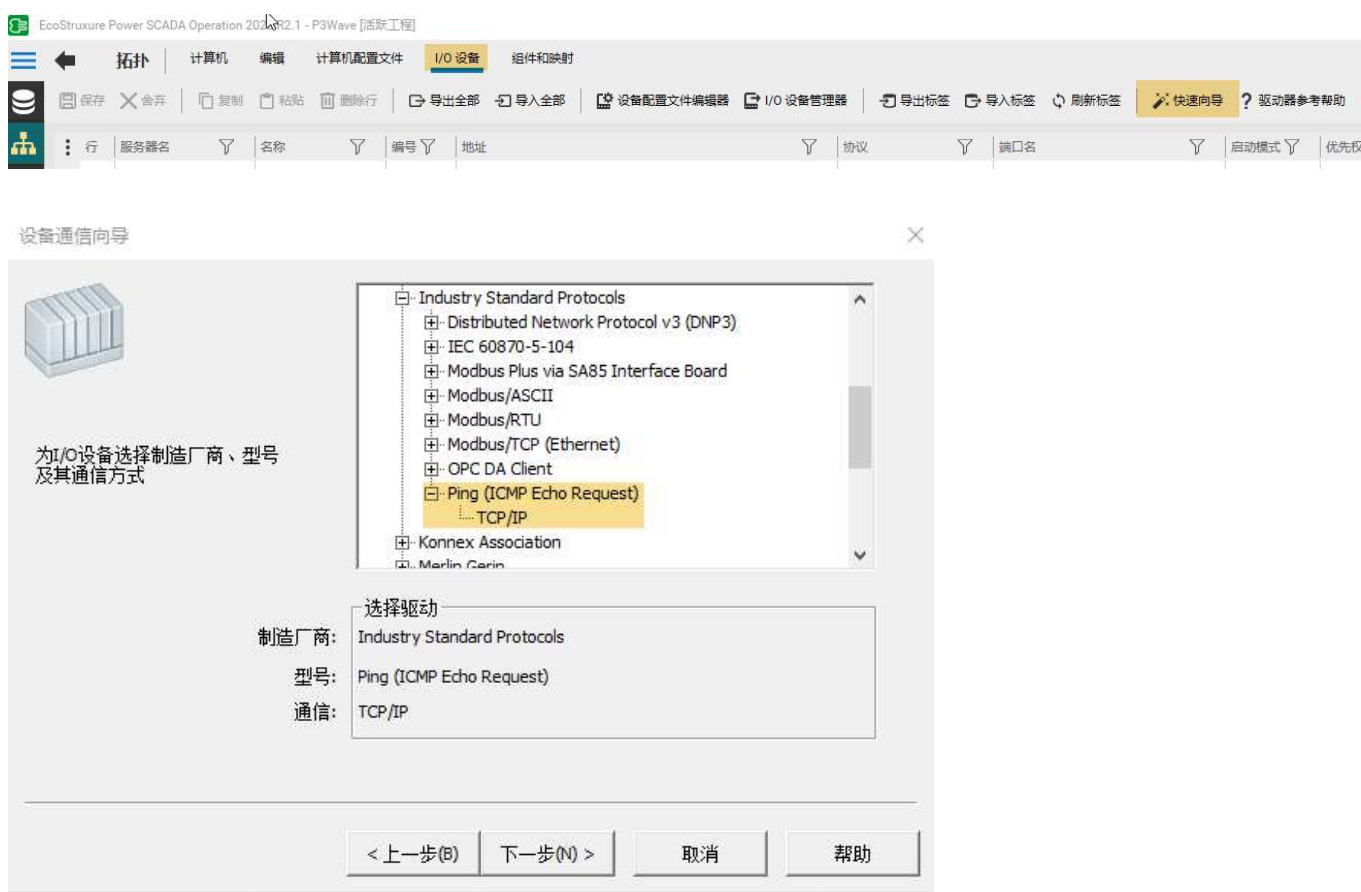
### 问题描述:

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

EcoStruxure Power SCADA Operation 2020 R2.1 - P3Wave [活跃工程]

拓扑 | 计算机 | 编辑 | 计算机配置文件 | I/O 设备 | **组件和映射**

保存 | 舍弃 | 复制 | 粘贴 | 删除行 | 导出全部 | 导入全部

通讯板

行	服务器名	通讯板名	板类型	地址	I/O 端口	中断	特殊选项	注释	工程
1	IOServer1	BOARD1	TCP/IP	0					P3Wave
2	IOServer1	BOARD2	COMX	0					P3Wave
3	IOServer1	BOARD3	CTICMP	0					P3Wave

## 通讯端口 Port

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端口

行	服务器名	端口名	端口号	通讯板名	波特率	数据位	停止位	奇偶校验	特殊选项	注释	工程
1	IOServer1	P10_177_121_195_BOARD1_PRJ3	3	BOARD1					-110.177.121.195-P502-T	TCP/IP	P3Wave
8	IOServer1	PORT1_BOARD3	1	BOARD3							P3Wave

## IO Device

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保存 | 舍弃 | 复制 | 粘贴 | 删除行 | 导出全部 | 导入全部 | 设备配置文件编辑器 | I/O 设备管理器 | 导出标签 | 导入标签 | 刷新标签 | 快速向导 | 驱动器参考帮助

行	名称	编号	地址	协议	端口名	启动模式	优先级	内存
1	zOL	1		IEC61850N		Primary	1	TRUE
2	NetworkTagsDev	2		IEC61850N		Primary	1	TRUE
3	MTZV3_W	132	255	MICROLOGICX	P10_177_121_195_BOARD1_PRJ3	Primary	1	
12	CTICMP device	148		CTICMP	PORT1_BOARD3			

## 2. 创建变量，CTICMP 协议变量的说明如下：

Where

<i>I1</i>	The first octet (most significant) of the IP address of the device to ping
<i>I2</i>	The second octet of the IP address of the device to ping
<i>I3</i>	The third octet of the IP address of the device to ping
<i>I4</i>	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	<i>i1.i2.i3.i4:STATE</i>	DIGITAL	Device status. 1 if it is responding, 0 if it is not responding. Read only.
Status	<i>i1.i2.i3.i4:STATUS</i>	INTEGER	Device status. 1 if it is responding, 0 if it is not responding. Read only.
Error Number	<i>i1.i2.i3.i4:ERRNUM</i>	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	<i>i1.i2.i3.i4:ERRDESC</i>	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

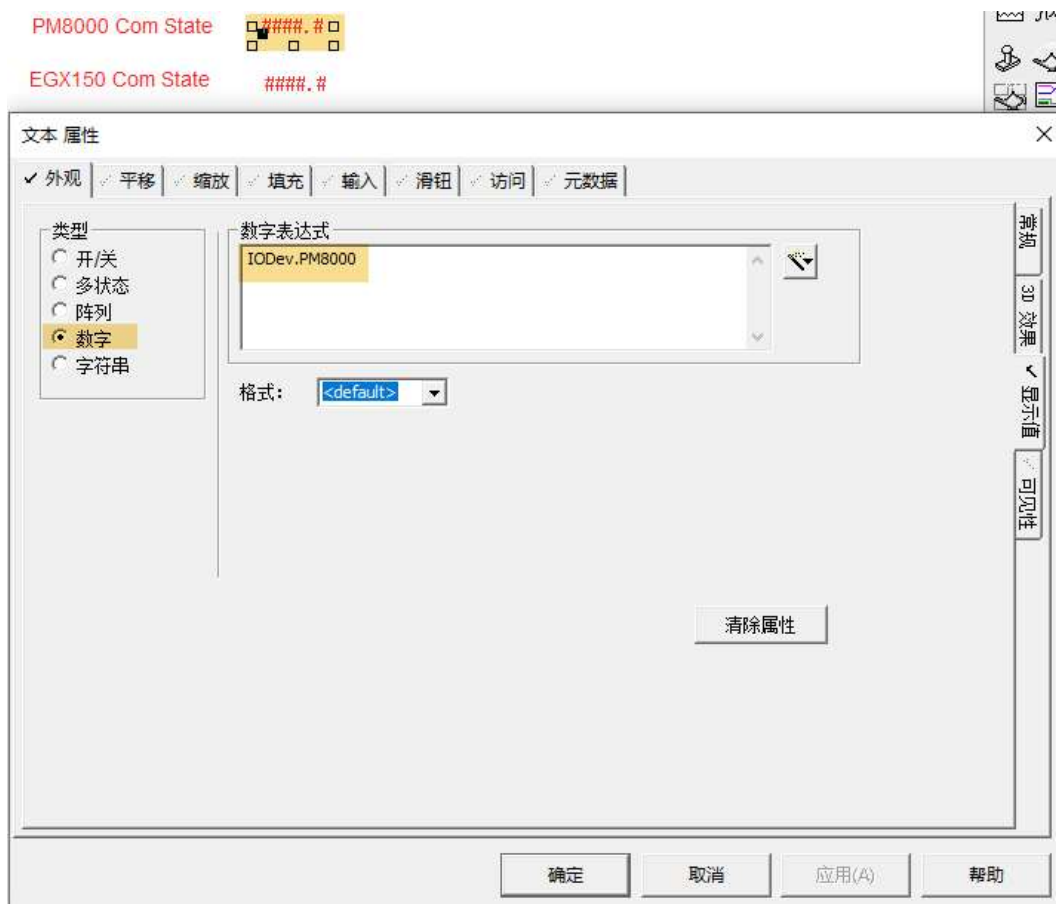
Poll Time	<b>i1.i2.i3.i4:POLLTIME</b>	LONG	The duration, in seconds, between each ping to the host. See Driver Parameter HostPollTime for default.
Time Out	<b>i1.i2.i3.i4:TIMEOUT</b>	LONG	The time, in seconds, to wait for a response from the host after it is pinged.
Response Time	<b>i1.i2.i3.i4:RESPTIME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

### 3. 测试

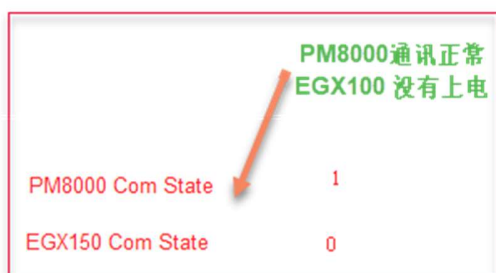
本示例创建两个变量，分别显示 PM8000 的通讯状态和 EGX100 网关的通讯状态



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：

