

常问问题 • 02 月/2011 年

# SIMOTION 通过 PN 与 CU320 IRT 通讯，当实际拓扑与配置拓 扑不同时会出现什么报警

SINAMICS、PN、IRT、拓扑、F8501

## 问题:

SIMOTION 通过 PN 与 CU320 IRT 通讯，当实际拓扑与配置拓扑不同时会出现什么报警？

## 回答:

SIMOTION 与 CU320 通过 PN 实现 IRT 通讯，当配置拓扑与实际拓扑不同时，驱动会报 F8501，如图 1 所示：

Level	Time	Source	Message
Information	(PG) 2/15/2011 3:54:20 PM	Drive_unit_1	Device offline
Information	(PG) 2/15/2011 3:56:24 PM	SINAMICS_Integrated	OK
Information	(PG) 2/15/2011 3:57:30 PM	D435	OK
Fault	25.02.70 08:07:12:034	S120xCU320xCBE20 : SERVO_02	8501 : COMMM BOARD: Monitoring time process data expired
Fault	25.02.70 08:06:57:210	S120xCU320xCBE20 : SERVO_02	8501 : COMMM BOARD: Monitoring time process data expired
Fault	25.02.70 08:06:57:010	S120xCU320xCBE20 : SERVO_02	8501 : COMMM BOARD: Monitoring time process data expired
Fault	25.02.70 08:06:56:810	S120xCU320xCBE20 : SERVO_02	8501 : COMMM BOARD: Monitoring time process data expired
Fault	25.02.70 08:06:56:610	S120xCU320xCBE20 : SERVO_02	8501 : COMMM BOARD: Monitoring time process data expired
Fault	25.02.70 08:06:56:410	S120xCU320xCBE20 : SERVO_02	8501 : COMMM BOARD: Monitoring time process data expired
Fault	25.02.70 08:06:56:210	S120xCU320xCBE20 : SERVO_02	8501 : COMMM BOARD: Monitoring time process data expired
Fault	25.02.70 08:06:56:010	S120xCU320xCBE20 : SERVO_02	8501 : COMMM BOARD: Monitoring time process data expired

图 1.

当 SIMOTION D 的运行状态从 STOP 转到 RUN 时，故障被自动复位。此时如果运行轴，会出现 F20005 和 F40005 的故障，如图 2 所示：

Level	Time	Source	Message
Information	(PG) 2/16/2011 12:39:29 PM	Drive_unit_1	Device offline
Information	(PG) 2/16/2011 12:41:14 PM	SINAMICS_Integrated	OK
Information	(PG) 2/16/2011 12:41:36 PM	S120xCU320xCBE20	OK
Error	04/20/92 11:01:30:188 pm	D435 : Real_Axis_Syn02	20005 : Device type 2, log address 262 faulted. (Bit 0, encoder number 0, reason: 0x4000h)
Information	04/20/92 11:01:30:188 pm	D435 : Real_Axis_Syn02	30002 : Command aborted (reason: 5, command type: 1038)
Error	04/20/92 11:01:30:188 pm	D435 : Real_Axis_Syn02	20005 : Device type 1, log address 262 faulted. (Bit 0, encoder number 0, reason: 0x4000h)
Error	04/20/92 11:01:30:204 pm	D435 : Real_Axis_Syn02	40005 : Missing enable(s) (parameter1: 7) and/or incorrect mode (parameter2: 1)

图 2.

将 PN 的配置拓扑与实际拓扑进行比较，可发现实际拓扑与配置拓扑的不同之处，如图 3 所示：

图 3.

