

贝加莱X20CP3687X冗余测试

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测试清单

序号	测试项	测试思路	测试结果	注意事项
1	环网切换需要多长时间？	1.trace一个累加数值，查看其在冗余切换时会丢多少数据值 2.trace“RedundancyOk”值，通过此值为false的时刻来定位冗余切换时刻	丢1个POWERLINK周期数值（200us）	1.CPU循环周期与POWERLINK循环周期一致，方便wireshark抓包数据的查看； 2.可通过X20IF2181-2下PLK的IP Mapping中的“RedundancyOk”通道值作为标志位，来定位丢数据的位置。
2	控制器和环网同时切换需要多长时间？	1.通过NetWork Analyzer来抓包，使用Wireshark分析抓包数据； 2.通过MAC地址的切换来找到冗余切换时刻	丢1个POWERLINK周期数值（200us）	在进行冗余切换时，MAC地址会发生改变，可通过抓包数据中，MAC地址的切换点，进行定位

测试环境 双控制器环网冗余系统下的拓扑 冗余测试_环网切换所需时间测试
冗余测试_控制器切换所需时间测试 X20ET8819

测试环境

AS:4.12.2.93
AR:B4.93
CPU:X20CP3687X

测试环境 双控制器环网冗余系统下的拓扑 冗余测试_环网切换所需时间测试
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双控制器环网冗余系统下的拓扑

- 环网拓扑，根据此拓扑搭建双控制器冗余系统（实际会接入X20ET8819，用来抓包，分析数据丢失情况）：

如下图所示，是双控制器环网冗余系统下的拓扑结构：

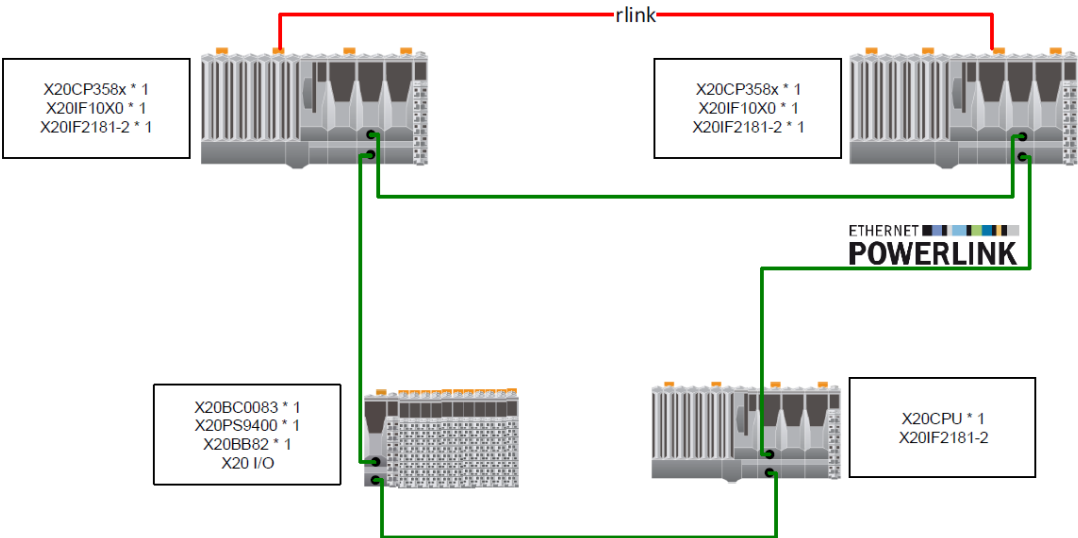
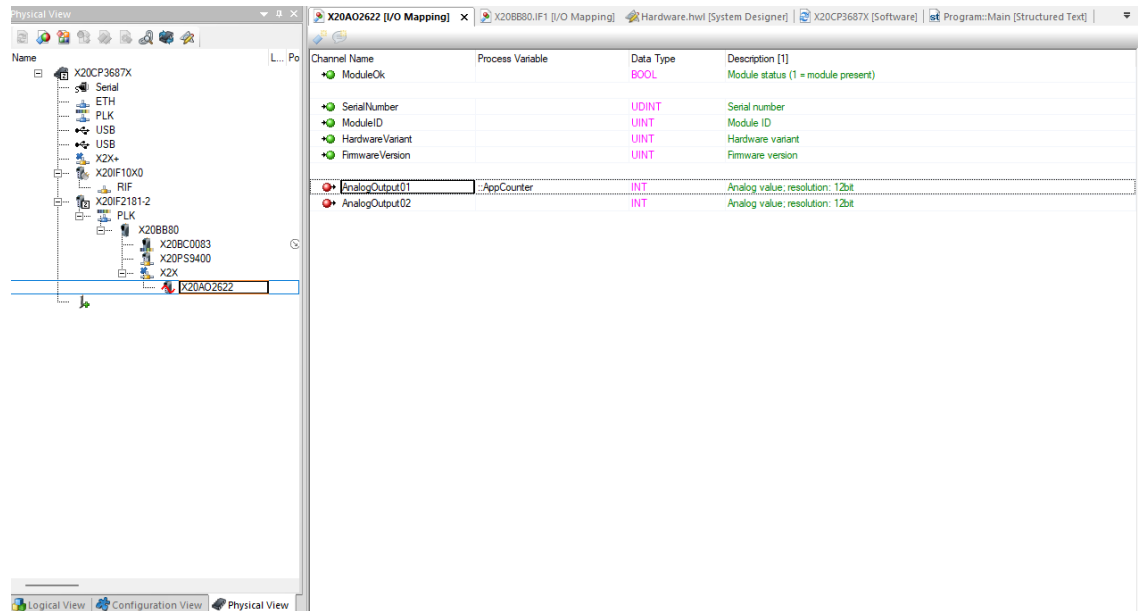


图 4-14 冗余控制器下的环网拓扑结构

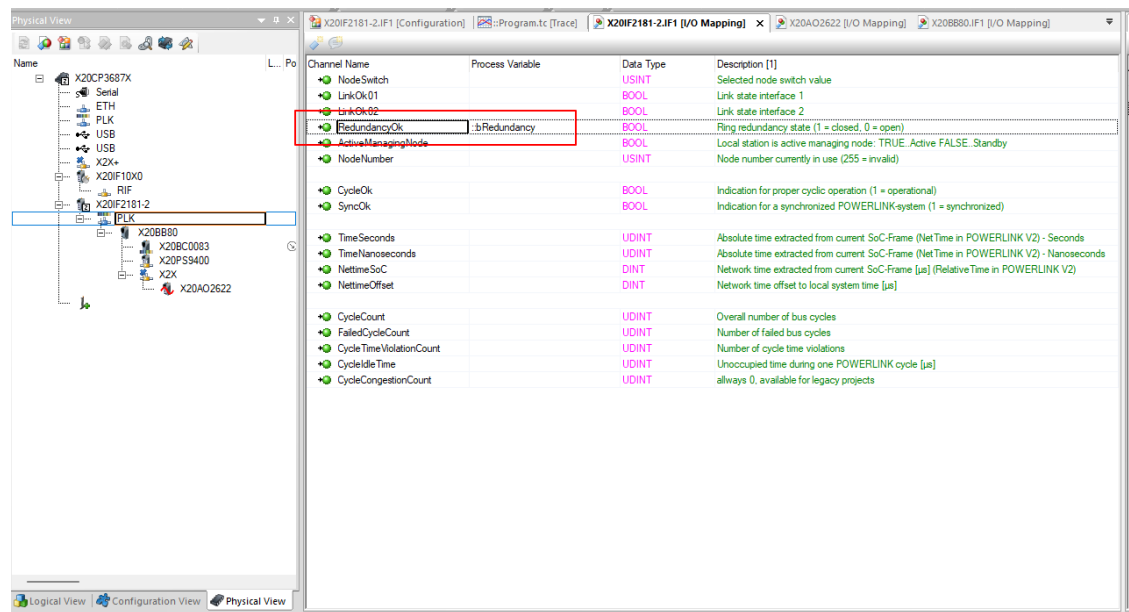
环网切换所需时间测试

POWERLINK2000us测试

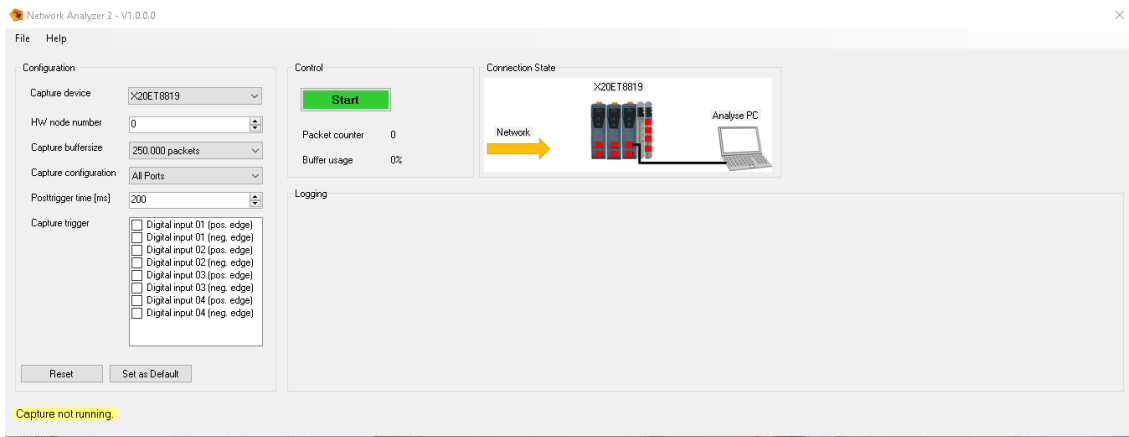
- 将累加数值绑定到AO模块通道：



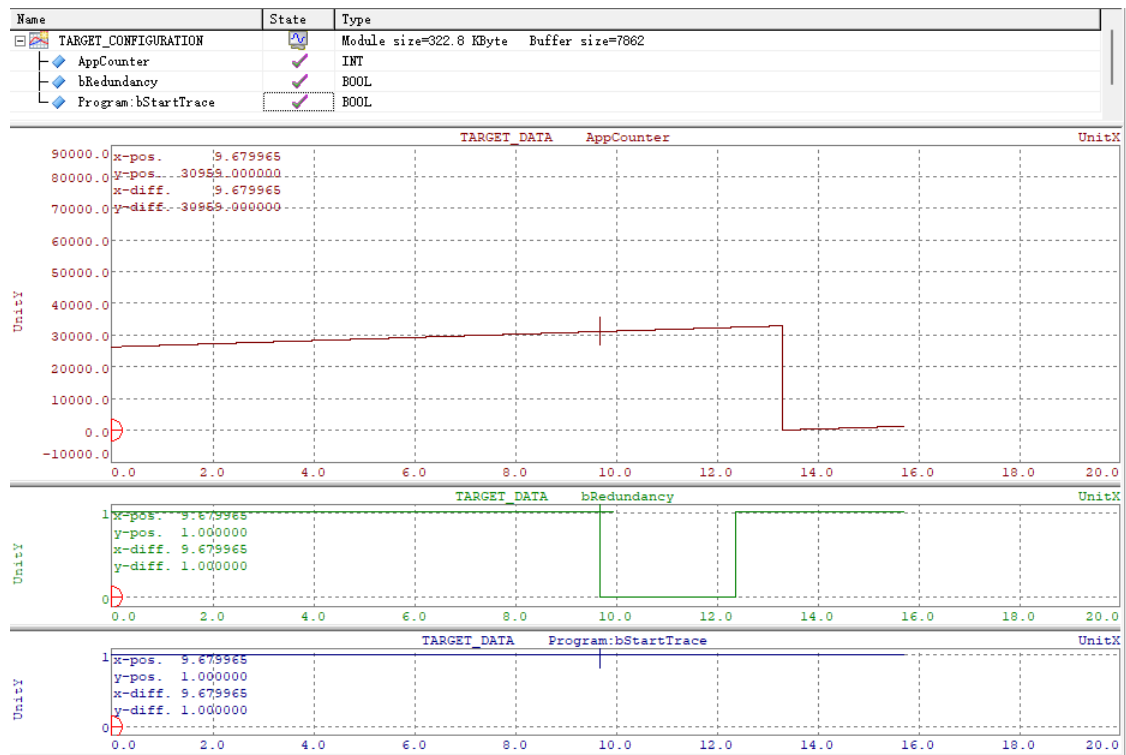
- 冗余状态监测，将通道状态值给到“bRedundancy”：



- 通过“Network Analyzer”，来抓取数据的收发（操作方式：start-断POWERLINK网线-stop）：



- 实际测试结果如下，在“bRedundancy”值为false时刻，“AppCounter”数据值为30959时：
trace结果：



- 用Wireshark打开抓包数据，找到“AppCounter”数据值为30959时刻，查看其后面是否丢包，可看到实际结果为丢一个POWERLINK周期数据值——30959直接跳到30961：

No.	Time	Source	Destination	Protocol	Length	Info	
6026	3.144002000	BAlInuS_781ec108	BAlInuS_781ec108	FWL_V2_ScS	64	240->255 Ssc	
6026	3.144012800	BAlInuS_781ec108	BAlInuS_781ec108	POWERLINK	64	240->1 PReq [4] FReqID,Ea=0 VId=0	
6027	3.144013600	BAlInuS_781ec108	BAlInuS_781ec108	POWERLINK	64	240->255 Ssc [3] FReqID,Ea=0,Rd=0,Ph=0 VId=0 NNT_CS_OPERATIONAL	
6028	3.144018400	BAlInuS_781ec108	BAlInuS_781ec108	FWL_V2_ScS	64	240->255 Ssc (NO_SERVICE)->255 FId=0,Ea=0 NNT_NO_OPERATIONAL	
6029	3.144019200	BAlInuS_781ec108	BAlInuS_781ec108	FWL_V2_ScS	64	240->255 Ssc	
6030	3.144012800	BAlInuS_781ec108	BAlInuS_781ec108	POWERLINK	64	240->1 PReq [4] FReqID,Ea=0 VId=0	
6031	3.144019200	BAlInuS_781ec108	BAlInuS_781ec108	FWL_V2_PRes	64	1->255 PRes [3] FReqID,Ea=0,Rd=0,Ph=0 VId=0 NNT_CS_OPERATIONAL	
6032	3.144023040	BAlInuS_781ec108	BAlInuS_781ec108	FWL_V2_ScS	64	240->255 Ssc (STATUS_REQUEST)->249 FId=0,Ea=0 NNT_NO_OPERATIONAL	
6033	3.144023040	BAlInuS_781ec108	BAlInuS_781ec108	FWL_V2_AcSnd	160	249->255 AcSnd (STATUS_RESPONSE) FId=0,Ea=0,Rd=0,Ph=0 NNT_CS_OPERATIONAL	
6034	3.144023040	BAlInuS_781ec108	BAlInuS_781ec108	FWL_V2_PRes	64	1->255 PRes	
6035	3.152011000	BAlInuS_781ec108	BAlInuS_781ec108	POWERLINK	64	240->1 PReq [4] FReqID,Ea=0 VId=0	
6036	3.152011900	BAlInuS_781ec108	BAlInuS_781ec108	FWL_V2_PRes	64	1->255 PRes [3] FReqID,Ea=0,Rd=0,Ph=0 VId=0 NNT_CS_OPERATIONAL	
6037	3.152012000	BAlInuS_781ec108	BAlInuS_781ec108	FWL_V2_ScS	64	240->255 Ssc (NO_SERVICE)->255 FId=0,Ea=0 NNT_NO_OPERATIONAL	
6038	3.152010000	BAlInuS_781ec108	BAlInuS_781ec108	FWL_V2_ScS	64	240->255 Ssc	
6039	3.154011000	BAlInuS_781ec108	BAlInuS_781ec108	POWERLINK	64	240->1 PReq [4] FReqID,Ea=0 VId=0	
6040	3.154011900	BAlInuS_781ec108	BAlInuS_781ec108	FWL_V2_PRes	64	1->255 PRes [3] FReqID,Ea=0,Rd=0,Ph=0 VId=0 NNT_CS_OPERATIONAL	
6041	3.154012000	BAlInuS_781ec108	BAlInuS_781ec108	FWL_V2_AcSnd	160	249->255 AcSnd (STATUS_RESPONSE) FId=0,Ea=0,Rd=0,Ph=0 NNT_CS_OPERATIONAL	
6042	3.154012000	BAlInuS_781ec108	BAlInuS_781ec108	FWL_V2_ScS	64	240->255 Ssc	
6043	3.154010000	BAlInuS_781ec108	BAlInuS_781ec108	POWERLINK	64	240->1 PReq [4] FReqID,Ea=0 VId=0	
6044	3.154011000	BAlInuS_781ec108	BAlInuS_781ec108	FWL_V2_PRes	64	1->255 PRes [3] FReqID,Ea=0,Rd=0,Ph=0 VId=0 NNT_CS_OPERATIONAL	
6045	3.154012000	BAlInuS_781ec108	BAlInuS_781ec108	FWL_V2_AcSnd	160	249->255 AcSnd (STATUS_RESPONSE) FId=0,Ea=0,Rd=0,Ph=0 NNT_CS_OPERATIONAL	
6046	3.154012000	BAlInuS_781ec108	BAlInuS_781ec108	FWL_V2_ScS	64	240->255 Ssc (NO_SERVICE)->255 FId=0,Ea=0 NNT_NO_OPERATIONAL	
6047	3.154012000	BAlInuS_781ec108	BAlInuS_781ec108	FWL_V2_ScS	64	240->255 Ssc	
6048	3.154011000	BAlInuS_781ec108	BAlInuS_781ec108	POWERLINK	64	240->1 PReq [4] FReqID,Ea=0 VId=0	
6049	3.154012000	BAlInuS_781ec108	BAlInuS_781ec108	FWL_V2_PRes	64	1->255 PRes [3] FReqID,Ea=0,Rd=0,Ph=0 VId=0 NNT_CS_OPERATIONAL	
6050	3.154012000	BAlInuS_781ec108	BAlInuS_781ec108	FWL_V2_ScS	64	240->255 Ssc (NO_SERVICE)->255 FId=0,Ea=0 NNT_NO_OPERATIONAL	
6051	3.160000000	BAlInuS_781ec108	BAlInuS_781ec108	FWL_V2_ScS	64	240->255 Ssc	
6052	3.160011000	BAlInuS_781ec108	BAlInuS_781ec108	POWERLINK	64	240->1 PReq [4] FReqID,Ea=0 VId=0	
6053	3.160011900	BAlInuS_781ec108	BAlInuS_781ec108	FWL_V2_PRes	64	1->255 PRes [3] FReqID,Ea=0,Rd=0,Ph=0 VId=0 NNT_CS_OPERATIONAL	
6054	3.160012000	BAlInuS_781ec108	BAlInuS_781ec108	FWL_V2_ScS	64	240->255 Ssc (STATUS_REQUEST)->249 FId=0,Ea=0 NNT_NO_OPERATIONAL	
6055	3.160017000	BAlInuS_781ec108	BAlInuS_781ec108	FWL_V2_AcSnd	160	249->255 AcSnd (STATUS_RESPONSE) FId=0,Ea=0,Rd=0,Ph=0 NNT_CS_OPERATIONAL	
6056	3.160017000	BAlInuS_781ec108	BAlInuS_781ec108	FWL_V2_ScS	64	240->255 Ssc	
6057	3.162011000	BAlInuS_781ec108	BAlInuS_781ec108	POWERLINK	64	240->1 PReq [4] FReqID,Ea=0 VId=0	
6058	3.162012000	BAlInuS_781ec108	BAlInuS_781ec108	FWL_V2_PRes	64	1->255 PRes [3] FReqID,Ea=0,Rd=0,Ph=0 VId=0 NNT_CS_OPERATIONAL	
6059	3.162012000	BAlInuS_781ec108	BAlInuS_781ec108	FWL_V2_ScS	64	240->255 Ssc (NO_SERVICE)->255 FId=0,Ea=0 NNT_NO_OPERATIONAL	
6060	3.164010000	BAlInuS_781ec108	BAlInuS_781ec108	FWL_V2_ScS	64	240->255 Ssc	
6061	3.164011000	BAlInuS_781ec108	BAlInuS_781ec108	POWERLINK	64	240->1 PReq [4] FReqID,Ea=0 VId=0	
6062	3.164012000	BAlInuS_781ec108	BAlInuS_781ec108	FWL_V2_PRes	64	1->255 PRes [3] FReqID,Ea=0,Rd=0,Ph=0 VId=0 NNT_CS_OPERATIONAL	
6063	3.164012000	BAlInuS_781ec108	BAlInuS_781ec108	FWL_V2_ScS	64	240->255 Ssc (NO_SERVICE)->255 FId=0,Ea=0 NNT_NO_OPERATIONAL	
6064	3.164012000	BAlInuS_781ec108	BAlInuS_781ec108	FWL_V2_ScS	64	240->255 Ssc	
6065	3.164011000	BAlInuS_781ec108	BAlInuS_781ec108	POWERLINK	64	240->1 PReq [4] FReqID,Ea=0 VId=0	
.000 001s = MessageTypes: PollRequest (PReq) (3)							A
Destination: 1 (Node) (Controlled Node)							0000 00 00 05 29 ee bd 00 00 65 70 ce d8 ee 03 01 7b 01 ep
Source: 240 (Node) (Managing Node)							0010 f0 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
Flags: 0x0, RD (Ready)							0020 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
R..... = FLS (First Link Status): False							0030 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
R..... = SLS (Second Link Status): False							0040 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
POverrun: 0.0							
Size: 4							
Data: 39955 (0xb0007f6f)							W

实际抓包数据：

实际抓包数据.txt

测试步骤与上述测试步骤一致，实际结果：当进行冗余切换时，会丢一个POWERLINK周期数据。

200us.pcapng

测试环境 双控制器环网冗余系统下的拓扑 冗余测试 环网切换所需时间测试

控制器切换所需时间测试

- 启动NetworkAnalyzer抓包：

抓包数据：控制器切换200us情况监测.pcapng

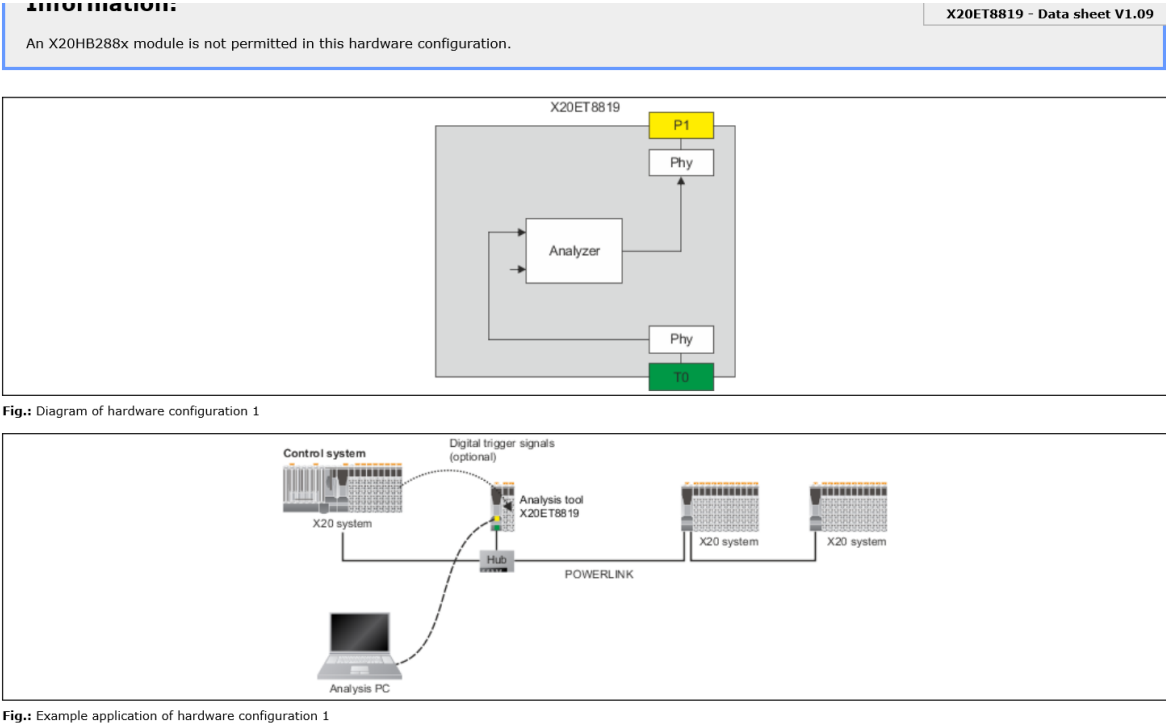
- 可以看到，红框处MAC地址发生了改变，表示此刻发生冗余切换

[illegible]

- 查看其数值与上一个数值是否连续——可看到其数值发生了跳变，少了一个周期数值：

IC	Time	Source	Destination	Protocol	Length	Info	Filter(s)
244A...	11.26260800	BKInDns_701c108	BKInDns_701c108	POWELINK	64	240->255 SGA (NO_SERVICE)>255 F1E4B,E9=0 NNT_NO_OPERATIONAL	
244A...	11.26262700	BKInDns_701c108	BKInDns_701c108	POWELINK	64	240->255 SGA	
244A...	11.26264520	BKInDns_701c108	BKInDns_291e10d	POWELINK	64	240->1 PReq [4] F1E4B,E4=0 ViB.0	
244A...	11.26266000	BKInDns_701c108	BKInDns_701c108	POWELINK	64	240->255 SGA (F1E4B,E4=0,R=0) ViB.0 NNT_CS_OPERATIONAL	
244A...	11.26267000	BKInDns_701c108	BKInDns_701c108	POWELINK	64	240->255 SGA (STATUS_REQUEST)>249 F1E4B,E9=0 NNT_NO_OPERATIONAL	
244A...	11.26267600	BKInDns_701c108	BKInDns_701c108	POWELINK	180	240->255 Ackd (STATUS_RESPONSE) F1E4B,E9=0,R=0,Pr=0 NNT_CS_OPERATIONAL	
244A...	11.26268720	BKInDns_701c108	BKInDns_701c108	POWELINK	64	240->255 SGA	
244A...	11.26269420	BKInDns_701c108	BKInDns_291e10d	POWELINK	64	240->1 PReq [4] F1E4B,E4=0 ViB.0	
244A...	11.26269900	BKInDns_701c108	BKInDns_701c108	POWELINK	64	1->255 PReq [3] F1E4B,E9=0,R=0,Pr=0 ViB.0 NNT_CS_OPERATIONAL	
244A...	11.26269900	BKInDns_701c108	BKInDns_701c108	POWELINK	64	240->255 SGA (NO_SERVICE)>255 F1E4B,E9=0 NNT_NO_OPERATIONAL	
244A...	11.26269900	BKInDns_701c108	BKInDns_701c108	POWELINK	64	240->255 SGA	
244A...	11.26265420	BKInDns_701c108	BKInDns_291e10d	POWELINK	64	240->1 PReq [4] F1E4B,E4=0 ViB.0	
244A...	11.26266000	BKInDns_701c108	BKInDns_701c108	POWELINK	64	1->255 PReq [3] F1E4B,E9=0,R=0,Pr=0 ViB.0 NNT_CS_OPERATIONAL	
244A...	11.26266000	BKInDns_701c108	BKInDns_701c108	POWELINK	64	240->255 SGA (STATUS_REQUEST)>249 F1E4B,E9=0 NNT_NO_OPERATIONAL	
244A...	11.26267000	BKInDns_701c108	BKInDns_701c108	POWELINK	180	240->255 Ackd (STATUS_RESPONSE) F1E4B,E9=0,R=0,Pr=0 NNT_CS_OPERATIONAL	
244A...	11.26268100	BKInDns_701c108	BKInDns_701c108	POWELINK	64	240->255 SGA	
244A...	11.26269200	BKInDns_701c108	BKInDns_291e10d	POWELINK	64	240->1 PReq [4] F1E4B,E4=0 ViB.0	
244A...	11.26269700	BKInDns_291e10d	BKInDns_291e10d	POWELINK	64	1->255 PReq [3] F1E4B,E9=0,R=0,Pr=0 ViB.0 NNT_CS_OPERATIONAL	
244A...	11.26269700	BKInDns_291e10d	BKInDns_701c108	POWELINK	64	240->255 SGA (NO_SERVICE)>255 F1E4B,E9=0 NNT_NO_OPERATIONAL	
244A...	11.26269700	BKInDns_701c108	BKInDns_701c108	POWELINK	64	240->255 SGA	
244A...	11.26269700	BKInDns_701c108	BKInDns_291e10d	POWELINK	64	240->1 PReq [4] F1E4B,E4=0 ViB.0	
244A...	11.26269700	BKInDns_701c108	BKInDns_701c108	POWELINK	64	1->255 PReq [3] F1E4B,E9=0,R=0,Pr=0 ViB.0 NNT_CS_OPERATIONAL	
244A...	11.26269700	BKInDns_701c108	BKInDns_701c108	POWELINK	64	240->255 SGA (NO_SERVICE)>255 F1E4B,E9=0 NNT_NO_OPERATIONAL	
244A...	11.26269700	BKInDns_701c108	BKInDns_701c108	POWELINK	64	240->255 SGA	
244A...	11.26265450	BKInDns_701c108	BKInDns_291e10d	POWELINK	64	240->1 PReq [4] F1E4B,E4=0 ViB.0	
244A...	11.26266000	BKInDns_701c108	BKInDns_701c108	POWELINK	64	1->255 PReq [3] F1E4B,E9=0,R=0,Pr=0 ViB.0 NNT_CS_OPERATIONAL	
244A...	11.26266000	BKInDns_701c108	BKInDns_701c108	POWELINK	64	240->255 SGA (STATUS_REQUEST)>249 F1E4B,E9=0 NNT_NO_OPERATIONAL	
244A...	11.26267000	BKInDns_701c108	BKInDns_701c108	POWELINK	180	240->255 Ackd (STATUS_RESPONSE) F1E4B,E9=0,R=0,Pr=0 NNT_CS_OPERATIONAL	
244A...	11.26268100	BKInDns_701c108	BKInDns_701c108	POWELINK	64	240->255 SGA	
244A...	11.26269200	BKInDns_701c108	BKInDns_291e10d	POWELINK	64	240->1 PReq [4] F1E4B,E4=0 ViB.0	
244A...	11.26269700	BKInDns_701c108	BKInDns_701c108	POWELINK	64	1->255 PReq [3] F1E4B,E9=0,R=0,Pr=0 ViB.0 NNT_CS_OPERATIONAL	
244A...	11.26269700	BKInDns_701c108	BKInDns_701c108	POWELINK	64	240->255 SGA (NO_SERVICE)>255 F1E4B,E9=0 NNT_NO_OPERATIONAL	
244A...	11.26269700	BKInDns_701c108	BKInDns_701c108	POWELINK	64	240->255 SGA	
244A...	11.26265450	BKInDns_701c108	BKInDns_291e10d	POWELINK	64	240->1 PReq [4] F1E4B,E4=0 ViB.0	
244A...	11.26266000	BKInDns_701c108	BKInDns_701c108	POWELINK	64	1->255 PReq [3] F1E4B,E9=0,R=0,Pr=0 ViB.0 NNT_CS_OPERATIONAL	
244A...	11.26266000	BKInDns_701c108	BKInDns_701c108	POWELINK	64	240->255 SGA (STATUS_REQUEST)>249 F1E4B,E9=0 NNT_NO_OPERATIONAL	
244A...	11.26267000	BKInDns_701c108	BKInDns_701c108	POWELINK	180	240->255 Ackd (STATUS_RESPONSE) F1E4B,E9=0,R=0,Pr=0 NNT_CS_OPERATIONAL	
244A...	11.26268100	BKInDns_701c108	BKInDns_701c108	POWELINK	64	240->255 SGA	
244A...	11.26269200	BKInDns_701c108	BKInDns_291e10d	POWELINK	64	240->1 PReq [4] F1E4B,E4=0 ViB.0	
244A...	11.26269700	BKInDns_291e10d	BKInDns_291e10d	POWELINK	64	1->255 PReq [3] F1E4B,E9=0,R=0,Pr=0 ViB.0 NNT_CS_OPERATIONAL	
244A...	11.26269700	BKInDns_291e10d	BKInDns_701c108	POWELINK	64	240->255 SGA (NO_SERVICE)>255 F1E4B,E9=0 NNT_NO_OPERATIONAL	
244A...	11.26269700	BKInDns_701c108	BKInDns_701c108	POWELINK	64	240->255 SGA	
244A...	11.26269700	BKInDns_701c108	BKInDns_291e10d	POWELINK	64	240->1 PReq [4] F1E4B,E4=0 ViB.0	
244A...	11.26269700	BKInDns_701c108	BKInDns_701c108	POWELINK	64	1->255 PReq [3] F1E4B,E9=0,R=0,Pr=0 ViB.0 NNT_CS_OPERATIONAL	
244A...	11.26269700	BKInDns_701c108	BKInDns_701c108	POWELINK	64	240->255 SGA (NO_SERVICE)>255 F1E4B,E9=0 NNT_NO_OPERATIONAL	
244A...	11.26269700	BKInDns_701c108	BKInDns_701c108	POWELINK	64	240->255 SGA	
244A...	11.26265450	BKInDns_701c108	BKInDns_291e10d	POWELINK	64	240->1 PReq [4] F1E4B,E4=0 ViB.0	
244A...	11.26266000	BKInDns_701c108	BKInDns_701c108	POWELINK	64	1->255 PReq [3] F1E4B,E9=0,R=0,Pr=0 ViB.0 NNT_CS_OPERATIONAL	
244A...	11.26266000	BKInDns_701c108	BKInDns_701c108	POWELINK	64	240->255 SGA (STATUS_REQUEST)>249 F1E4B,E9=0 NNT_NO_OPERATIONAL	
244A...	11.26267000	BKInDns_701c108	BKInDns_701c108	POWELINK	180	240->255 Ackd (STATUS_RESPONSE) F1E4B,E9=0,R=0,Pr=0 NNT_CS_OPERATIONAL	
244A...	11.26268100	BKInDns_701c108	BKInDns_701c108	POWELINK	64	240->255 SGA	
244A...	11.26269200	BKInDns_701c108	BKInDns_291e10d	POWELINK	64	240->1 PReq [4] F1E4B,E4=0 ViB.0	
244A...	11.26269700	BKInDns_291e10d	BKInDns_291e10d	POWELINK	64	1->255 PReq [3] F1E4B,E9=0,R=0,Pr=0 ViB.0 NNT_CS_OPERATIONAL	
244A...	11.26269700	BKInDns_291e10d	BKInDns_701c108	POWELINK	64	240->255 SGA (NO_SERVICE)>255 F1E4B,E9=0 NNT_NO_OPERATIONAL	
244A...	11.26269700	BKInDns_701c108	BKInDns_701c108	POWELINK	64	240->255 SGA	
244A...	11.26269700	BKInDns_701c108	BKInDns_291e10d	POWELINK	64	240->1 PReq [4] F1E4B,E4=0 ViB.0	
244A...	11.26269700	BKInDns_701c108	BKInDns_701c108	POWELINK	64	1->255 PReq [3] F1E4B,E9=0,R=0,Pr=0 ViB.0 NNT_CS_OPERATIONAL	
244A...	11.26269700	BKInDns_701c108	BKInDns_701c108	POWELINK	64	240->255 SGA (NO_SERVICE)>255 F1E4B,E9=0 NNT_NO_OPERATIONAL	
244A...	11.26269700	BKInDns_701c108	BKInDns_701c108	POWELINK	64	240->255 SGA	
244A...	11.26265450	BKInDns_701c108	BKInDns_291e10d	POWELINK	64	240->1 PReq [4] F1E4B,E4=0 ViB.0	
244A...	11.26266000	BKInDns_701c108	BKInDns_701c108	POWELINK	64	1->255 PReq [3] F1E4B,E9=0,R=0,Pr=0 ViB.0 NNT_CS_OPERATIONAL	
244A...	11.26266000	BKInDns_701c108	BKInDns_701c108	POWELINK	64	240->255 SGA (STATUS_REQUEST)>249 F1E4B,E9=0 NNT_NO_OPERATIONAL	
244A...	11.26267000	BKInDns_701c108	BKInDns_701c108	POWELINK	180	240->255 Ackd (STATUS_RESPONSE) F1E4B,E9=0,R=0,Pr=0 NNT_CS_OPERATIONAL	
244A...	11.26268100	BKInDns_701c108	BKInDns_701c108	POWELINK	64	240->255 SGA	
244A...	11.26269200	BKInDns_701c108	BKInDns_291e10d	POWELINK	64	240->1 PReq [4] F1E4B,E4=0 ViB.0	
244A...	11.26269700	BKInDns_291e10d	BKInDns_291e10d	POWELINK	64	1->255 PReq [3] F1E4B,E9=0,R=0,Pr=0 ViB.0 NNT_CS_OPERATIONAL	
244A...	11.26269700	BKInDns_291e10d	BKInDns_701c108	POWELINK	64	240->255 SGA (NO_SERVICE)>255 F1E4B,E9=0 NNT_NO_OPERATIONAL	
244A...	11.26269700	BKInDns_701c108	BKInDns_701c108	POWELINK	64	240->255 SGA	
244A...	11.26269700	BKInDns_701c108	BKInDns_291e10d	POWELINK	64	240->1 PReq [4] F1E4B,E4=0 ViB.0	
244A...	11.26269700	BKInDns_701c108	BKInDns_701c108	POWELINK	64	1->255 PReq [3] F1E4B,E9=0,R=0,Pr=0 ViB.0 NNT_CS_OPERATIONAL	
244A...	11.26269700	BKInDns_701c108	BKInDns_701c108	POWELINK	64	240->255 SGA (NO_SERVICE)>255 F1E4B,E9=0 NNT_NO_OPERATIONAL	
244A...	11.26269700	BKInDns_701c108	BKInDns_701c108	POWELINK	64	240->255 SGA	
244A...	11.26265450	BKInDns_701c108	BKInDns_291e10d	POWELINK	64	240->1 PReq [4] F1E4B,E4=0 ViB.0	
244A...	11.26266000	BKInDns_701c108	BKInDns_701c108	POWELINK	64	1->255 PReq [3] F1E4B,E9=0,R=0,Pr=0 ViB.0 NNT_CS_OPERATIONAL	
244A...	11.26266000	BKInDns_701c108	BKInDns_701c108	POWELINK	64	240->255 SGA (STATUS_REQUEST)>249 F1E4B,E9=0 NNT_NO_OPERATIONAL	
244A...	11.26267000	BKInDns_701c108	BKInDns_701c108	POWELINK	180	240->255 Ackd (STATUS_RESPONSE) F1E4B,E9=0,R=0,Pr=0 NNT_CS_OPERATIONAL	
244A...	11.26268100	BKInDns_701c108	BKInDns_701c108	POWELINK	64	240->255 SGA	
244A...	11.26269200	BKInDns_701c108	BKInDns_291e10d	POWELINK	64	240->1 PReq [4] F1E4B,E4=0 ViB.0	
244A...	11.26269700	BKInDns_291e10d	BKInDns_291e10d	POWELINK	64	1->255 PReq [3] F1E4B,E9=0,R=0,Pr=0 ViB.0 NNT_CS_OPERATIONAL	
244A...	11.26269700	BKInDns_291e10d	BKInDns_701c108	POWELINK	64	240->255 SGA (NO_SERVICE)>255 F1E4B,E9=0 NNT_NO_OPERATIONAL	
244A...	11.26269700	BKInDns_701c108	BKInDns_701c108	POWELINK	64	240->255 SGA	
244A...	11.26269700	BKInDns_701c108	BKInDns_291e10d	POWELINK	64	240->1 PReq [4] F1E4B,E4=0 ViB.0	
244A...	11.26269700	BKInDns_701c108	BKInDns_701c108	POWELINK	64	1->255 PReq [3] F1E4B,E9=0,R=0,Pr=0 ViB.0 NNT_CS_OPERATIONAL	
244A...	11.26269700	BKInDns_701c108	BKInDns_701c108	POWELINK	64	240->255 SGA (NO_SERVICE)>255 F1E4B,E9=0 NNT_NO_OPERATIONAL	
244A...	11.26269700	BKInDns_701c108	BKInDns_701c108	POWELINK	64	240->255 SGA	
244A...	11.26265450	BKInDns_701c108	BKInDns_291e10d	POWELINK	64	240->1 PReq [4] F1E4B,E4=0 ViB.0	
244A...	11.26266000	BKInDns_701c108	BKInDns_701c108	POWELINK	64	1->255 PReq [3] F1E4B,E9=0,R=0,Pr=0 ViB.0 NNT_CS_OPERATIONAL	
244A...	11.26266000	BKInDns_701c108	BKInDns_701c108	POWELINK	64	240->255 SGA (STATUS_REQUEST)>249 F1E4B,E9=0 NNT_NO_OPERATIONAL	
244A...	11.26267000	BKInDns_701c108	BKInDns_701c108	POWELINK	180	240->255 Ackd (STATUS_RESPONSE) F1E4B,E9=0,R=0,Pr=0 NNT_CS_OPERATIONAL	
244A...	11.26268100	BKInDns_701c108	BKInDns_701c108	POWELINK	64	240->255 SGA	
244A...	11.26269200	BKInDns_701c108	BKInDns_291e10d	POWELINK	64	240->1 PReq [4] F1E4B,E4=0 ViB.0	
244A...	11.26269700	BKInDns_291e10d	BKInDns_291e10d	POWELINK	64	1->255 PReq [3] F1E4B,E9=0,R=0,Pr=0 ViB.0 NNT_CS_OPERATIONAL	
244A...	11.26269700	BKInDns_291e10d	BKInDns_701c108	POWELINK	64	240->255 SGA (NO_SERVICE)>255 F1E4B,E9=0 NNT_NO_OPERATIONAL	
244A...	11.26269700	BKInDns_701c108	BKInDns_701c108	POWELINK	64	240->255 SGA	
244A...	11.26269700	BKInDns_701c108	BKInDns_291e10d	POWELINK	64	240->1 PReq [4] F1E4B,E4=0 ViB.0	
244A...	11.26269700	BKInDns_701c108	BKInDns_701c108	POWELINK	64	1->255 PReq [3] F1E4B,E9=0,R=0,Pr=0 ViB.0 NNT_CS_OPERATIONAL	
244A...	11.26269700	BKInDns_701c108	BKInDns_701c108	POWELINK	64	240->255 SGA (NO_SERVICE)>255 F1E4B,E9=0 NNT_NO_OPERATIONAL	
244A...	11.26269700	BKInDns_701c108	BKInDns_701c108	POWELINK	64	240->255 SGA	
244A...	11.26265450	BKInDns_701c108	BKInDns_291e10d	POWELINK	64	240->1 PReq [4] F1E4B,E4=0 ViB.0	
244A...	11.26266000	BKInDns_701c108	BKInDns_701c108	POWELINK	64	1->255 PReq [3] F1E4B,E9=0,R=0,Pr=0 ViB.0 NNT_CS_OPERATIONAL	
244A...	11.26266000	BKInDns_701c108	BKInDns_701c108	POWELINK	64	240->255 SGA (STATUS_REQUEST)>249 F1E4B,E9=0 NNT_NO_OPERATIONAL	
244A...	11.26267000	BKInDns_701c108	BKInDns_701c108	POWELINK	180	240->255 Ackd (STATUS_RESPONSE) F1E4B,E9=0,R=0,Pr=0 NNT_CS_OPERATIONAL	
244A...	11.26268100	BKInDns_701c108	BKInDns_701c108	POWELINK	64	240->255 SGA	
244A...	11.26269200	BKInDns_701c108	BKInDns_291e10d	POWELINK	64	240->1 PReq [4] F1E4B,E4=0 ViB.0	
244A...	11.26269700	BKInDns_291e10d	BKInDns_291e10d	POWELINK	64	1->255 PReq [3] F1E4B,E9=0,R=0,Pr=0 ViB.0 NNT_CS_OPERATIONAL	
244A...	11.26269700	BKInDns_291e10d	BKInDns_701c108	POWELINK	64	240->255 SGA (NO_SERVICE)>255 F1E4B,E9=0 NNT_NO_OPERATIONAL	
244A...	11.26269700	BKInDns_701c108					

• Hardware Configuration



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