



# 200-601<sup>Q&As</sup>

Managing Industrial Networks for Manufacturing with Cisco Technologies

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**QUESTION 1**

Refer to the exhibit. Which lines represent an I/O connection running at a 20ms RPI?

Time	Source IP	Destination IP	Protocol	Details
2908	192.168.1.9	192.168.1.2	ENIP	72 Connection: ID=0x005240C0, SEQ=0002628114
2909	192.168.1.2	192.168.1.9	ENIP	76 connection: ID=0x000B49EE, SEQ=0002627468
2910	192.168.1.2	192.168.1.4	ENIP	/4 connection: ID=0x11EF00A1, SEQ=0003940704
2911	192.168.1.2	192.168.1.3	TCP	66 62601-44818 [SYN] Seq=0 win=8192 Len=0 MSS=1426 SACK_PERM=1 WS=1
2912	192.168.1.3	192.168.1.2	TCP	66 44818-62601 [SYN, ACK] Seq=0 Ack=1 win=10000 Len=0 MSS=1426 SACK_PERM=1 WS=1
2913	192.168.1.2	192.168.1.3	TCP	60 62601-44818 [ACK] Seq=1 Ack=1 win=8192 Len=0
2914	Rockwell_3a:4a::	Rockwell_3a:4a::	ARP	60 who has 192.168.1.2? Tell 192.168.1.3
2915	Rockwell_c8:17:4	Rockwell_3a:4a::	ARP	60 192.168.1.2 is at 00:00:bc:c8:17:42
2916	192.168.1.2	192.168.1.3	ENIP	82 Register Session (Req), Session: 0x00000000
2917	192.168.1.3	192.168.1.2	ENIP	82 Register Session (Rsp), Session: 0x04000100
2918	192.168.1.2	192.168.1.3	CIP CM	154 Forward Open
2919	192.168.1.4	192.168.1.2	ENIP	359 Connection: ID=0x015240C2, SEQ=0003938324
2920	192.168.1.3	192.168.1.2	ENIP	98 Connection: ID=0x00D240D4, SEQ=0000000000
2921	192.168.1.3	192.168.1.2	CIP CM	146 Success
2922	192.168.1.9	192.168.1.2	ENIP	72 Connection: ID=0x005240C0, SEQ=0002628115
2923	192.168.1.4	192.168.1.2	ENIP	74 Connection: ID=0x11EF00A1, SEQ=0003940703
2924	192.168.1.2	192.168.1.3	ENIP	86 Connection: ID=0x005E4004, SEQ=0000000000
2925	192.168.1.2	192.168.1.9	ENIP	76 connection: ID=0x000B49EE, SEQ=0002627469
2926	192.168.1.4	192.168.1.2	ENIP	359 Connection: ID=0x015240C2, SEQ=0003938325
2927	192.168.1.4	192.168.1.2	ENIP	74 Connection: ID=0x11EF00A1, SEQ=0003940704
2928	192.168.1.4	192.168.1.2	ENIP	359 Connection: ID=0x015240C2, SEQ=0003938326
2929	192.168.1.9	192.168.1.2	ENIP	72 connection: ID=0x005240C0, SEQ=0002628116
2930	192.168.1.2	192.168.1.9	ENIP	76 connection: ID=0x000B49EE, SEQ=0002627470
2931	192.168.1.3	192.168.1.2	ENIP	98 connection: ID=0x00D240D4, SEQ=0000000001
2932	192.168.1.2	192.168.1.4	ENIP	74 connection: ID=0x11EF00A1, SEQ=0003940705
2933	192.168.1.4	192.168.1.2	ENIP	359 Connection: ID=0x015240C2, SEQ=0003938327
2934	192.168.1.2	192.168.1.3	ENIP	86 Connection: ID=0x005E4004, SEQ=0000000001
2935	192.168.1.9	192.168.1.2	ENIP	72 Connection: ID=0x005240C0, SEQ=0002628117
2936	192.168.1.2	192.168.1.4	ENIP	74 connection: ID=0x11EF00A1, SEQ=0003940706
2937	192.168.1.3	192.168.1.2	CIP CM	230 Forward Open
2938	192.168.1.2	192.168.1.9	ENIP	76 Connection: ID=0x000B49EE, SEQ=0002627471
2939	192.168.1.4	192.168.1.2	ENIP	359 Connection: ID=0x015240C2, SEQ=0003938328
2940	192.168.1.3	192.168.1.2	CIP CM	144 Success
2941	192.168.1.4	192.168.1.2	ENIP	74 Connection: ID=0x11EF00A1, SEQ=0003940707
2942	192.168.1.3	192.168.1.2	ENIP	134 Connection: ID=0x00DE4005, SEQ=0000000000
2943	192.168.1.2	192.168.1.3	ENIP	98 Connection: ID=0x00D240D4, SEQ=0000000002
2944	192.168.1.4	192.168.1.2	ENIP	359 Connection: ID=0x015240C2, SEQ=0003938329
2945	192.168.1.9	192.168.1.2	ENIP	72 Connection: ID=0x005240C0, SEQ=0002628118
2946	192.168.1.2	192.168.1.9	ENIP	76 Connection: ID=0x000B49EE, SEQ=0002627472
2947	192.168.1.2	192.168.1.4	ENIP	74 Connection: ID=0x11EF00A1, SEQ=0003940708
2948	192.168.1.2	192.168.1.3	ENIP	86 Connection: ID=0x005E4004, SEQ=0000000002
2949	192.168.1.2	192.168.1.245	TCP	60 [TCP Keep-Alive] 44818-1890 [ACK] Seq=1 Ack=1 Win=8192 Len=1
2950	192.168.1.245	192.168.1.2	TCP	66 [TCP Keep-Alive ACK] 1890-44818 [ACK] Seq=1 Ack=2 Win=252 Len=0 SLE=1 SRE=2
2951	192.168.1.4	192.168.1.2	ENIP	359 connection: ID=0x015240C2, SEQ=0003938330
2952	192.168.1.3	192.168.1.2	ENIP	410 connection: ID=0x01D240D5, SEQ=0000000000
2953	192.168.1.9	192.168.1.2	ENIP	72 connection: ID=0x005240C0, SEQ=0002628119
2954	192.168.1.2	192.168.1.4	ENIP	74 connection: ID=0x11EF00A1, SEQ=0003940709
2955	192.168.1.2	192.168.1.9	ENIP	76 connection: ID=0x000B49EE, SEQ=0002627473
2956	192.168.1.202	192.168.1.202	ENIP	66 List Identity (Req)
2957	192.168.1.202	192.168.1.255	ENIP	66 List Identity (Req)
2958	192.168.1.4	192.168.1.2	ENIP	359 connection: ID=0x015240C2, SEQ=0003938331

- A. 2919, 2923, 2926
- B. 2920, 2926, 2929
- C. 2922, 2929, 2935
- D. 2914, 2915, 2916

Correct Answer: A

**QUESTION 2**

It is common to use Resilient Ethernet Protocol (REP) on the manufacturing floor as a resiliency protocol, as opposed to the Enterprise where it is not generally deployed. What are two reasons why REP is more suitable for the plant floor? (Choose two)

- A. REP is only supported on Industrial Ethernet switches, it is not supported on Catalyst switches.



- B. REP converges faster than Spanning Tree, allowing for greater network availability.
- C. REP supports Industrial Ethernet protocols better because it moves the packets faster.
- D. Running dual cables from access switches to an aggregation switch can have a much higher cost on the plant floor than in the Enterprise and running a ring protocol like REP provides resiliency at a lower cost.
- E. Industrial protocols can be negatively impacted by the number of nodes the Ethernet frame traverses, REP provides a topology with no more than 3 nodes for any data path.

Correct Answer: BD

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### QUESTION 3

Which configuration enables an Industrial Ethernet switch to participate in PTP clock selection and sets the priority value that would break the tie between switches with matching default criteria to 50?

- A. `ptp mode boundary ptp priority1 10 ptp priority2 50`
- B. `ptp mode boundary ptp priority1 50 ptp priority2 10`
- C. `ptp mode e2transparent ptp priority1 50 ptp priority2 10`
- D. `ptp mode e2transparent ptp priority1 10 ptp priority2 50`

Correct Answer: A

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### QUESTION 4

A ProfiNET management system operator is unable to add a ProfiNET Conformance Class B device to a SIMATIC management station. The device is connected to interface FastEthernet1/3. Based on the provided CLI output, which statement is correct?

```
switch#show profinet lldp Fa1/1 port-003-00000 On Fa1/2 port-004-00000 On Fa1/3 port-005-00000 Off Fa1/4  
port-006-00000 Off Fa1/5 port-007-00000 On Fa1/6 port-008-00000 Off Fa1/7 port-009-00000 On Fa1/8 port-010-00000  
Off
```

- A. LLDP has been disabled on this switch
- B. The connected device is not sending LLDP packets with ProfiNET extensions
- C. The port label needs to be changed on interface FastEthernet 1/3 to "port-003-00000"
- D. ProfiNET is disabled on this switch

Correct Answer: B

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### QUESTION 5



You have been tasked to design an Ethernet network capable of Motion control with cycle times not to exceed 1ms. In order to create a more deterministic network, what characteristic/s should you primarily focus on?

- A. Latency and Jitter
- B. Redundancy and high availability
- C. Explicit and Implicit messaging
- D. This cycle time is not possible on an Ethernet network
- E. Gigabit port speed

Correct Answer: A

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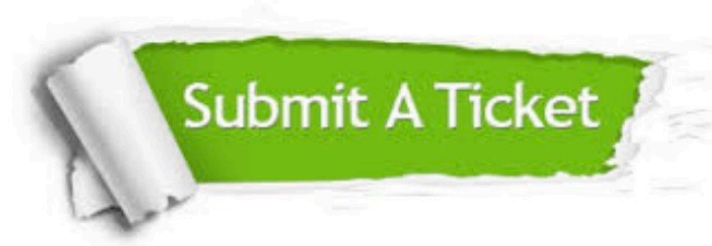
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