

CSNA Problem Determination Questions

Document ID: 17533

Introduction

Prerequisites

Requirements

Components Used

Conventions

Switched Major Node Questions

XCA Major Node Questions

End Station Node Questions

Router Questions

Related Information

Introduction

This document provides problem determination questions when you are configuring a Cisco System Network Architecture (CSNA).

Prerequisites

Requirements

There are no specific requirements for this document.

Components Used

This document is not restricted to specific software and hardware versions.

Conventions

Refer to Cisco Technical Tips Conventions for more information on document conventions.

Switched Major Node Questions

- Is the switched major node active?
- Is the node/physical unit (PU) active in the switched major node?
- In the switched major node, do the ID Block and exchange identification (XID) number match those in the controller?
- Are the PATH macros correct?

Note: PATH macro is only used when Virtual Telecommunications Access Method (VTAM) initiates the Logical Link Control, type 2 (LLC2) connection. If VTAM dial out is configured, and if the end device is configured to initiate the connection, then the PATH macro is not required.

XCA Major Node Questions

- Is the External Communication Adapter (XCA) major node active?
- Is the corresponding adapter number defined on the Channel Interface Processor (CIP) correct?

- Is the medium correct?
- Is the cuaddr correct?
- Is the service access point (SAP) correct?
- Are there enough static or auto-gen lines configured?

End Station Node Questions

- Is the remote MAC address configured on the end station node correct?
- Does the remote SAP value of the end station match the SAP value of the XCA major node?
- Is the Traffic Generator (TGN) correct?

Note: This is only for PU4 to PU4. If you are connecting a PU2.0 or PU2.1 to the CIP, this question does not apply.

- Is the end station node sub area correct (PU4 to PU4)?

Note: This question does not apply when connecting PU2.0 or PU2.1 to the CIP.

- Were enough lines and PUs configured?
- Has the 4000 MAX-LLC2-SESSIONS value on the CIP been exceeded, maximum value 6000, default 256?

Router Questions

- Is the **ring group** command correct?

`source-bridge ring-group` statement

- Is the **source-bridge** command correct?

T/R, Fiber Distributed Data Interface (FDDI), and internal LAN?

Remote source-route bridging (RSRB), Synchronous Data Logical Link Control (SDLLC), Qualified Logical Link Control (QLLC), Advanced Peer-to-Peer Networking (APPN), downstream physical unit (DSPU)?

- Are either the CIP physical interfaces or the CIP internal interface shutdown administratively?
- Are internal adapters configured?
- Does the internal adapter number match the value of adapno macro in the XCA?
- Are the MAC addresses on internal adapters correct?
- Are bridge groups correct on Ethernet, FDDI, and internal LANs?
- Are routers LAN and WAN interfaces shutdown?
- Are the subchannels correct on CSNA commands?

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