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# CSNA Problem Determination Questions

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**Introduction**

**Prerequisites**

Requirements

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**Switched Major Node Questions**

**XCA Major Node Questions**

**End Station Node Questions**

**Router Questions**

**NetPro Discussion Forums – Featured Conversations**

**Related Information**

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## 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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Networking Professionals Connection is a forum for networking professionals to share questions, suggestions, and information about networking solutions, products, and technologies. The featured links are some of the most recent conversations available in this technology.

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## Related Information

- **IBM Technologies**
  - **Technical Support & Documentation – Cisco Systems**
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