

CSNA Network Management

Document ID: 17532

Introduction

Prerequisites

- Requirements

- Components Used

- Conventions

CSNA Network Management Console Support

- show Commands

- CSNA show Commands

CSNA Event Notifications

- debug channel events sna

- CSNA Event Descriptions

- LLC2 Event Descriptions

CSNA NetView Support

- show Commands

- Alerts

CSNA SNMP Support

- CSNA SNMP Management Information Base (MIB)

- CSNA SNMP Notifications (Traps)

- LLC2 Notifications

NetPro Discussion Forums – Featured Conversations

Related Information

Introduction

This document provides the useful commands to display the status of Cisco Systems Network Architecture (CSNA), including the SNMP MIBs for management purposes.

Prerequisites

Requirements

Readers of this document should have knowledge of how to configure Cisco CIP and xCPA for a number of software applications, as well as for SNA connectivity and IBM protocol support. Refer to Configuring CSNA and CMPC.

Components Used

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

The information in this document was created from the devices in a specific lab environment. All of the devices used in this document started with a cleared (default) configuration. If your network is live, make sure that you understand the potential impact of any command.

Conventions

For more information on document conventions, refer to the Cisco Technical Tips Conventions.

CSNA Network Management Console Support

show Commands

- `show source-bridge`
- `show source-bridge interface`

CSNA show Commands

- `show extended channel slot/[0 | 1] csna [path [device]] [admin | oper | stat]`
- `show extended channel slot/2 lan [ethernet | tokenring | fddi [lan-id [adapter-num]]]`
- `show extended channel slot/2 max-llc2-sessions`
- `show extended channel slot/2 llc2 [admin | oper | stat] [localmac [localsap [remmac [remsap]]]]`
- `show extended channel slot/2 connection-map llc2`

CSNA Event Notifications

debug channel events sna

Displays all CSNA/LLC2 events on the Router Processor (RP) console.

CSNA Event Descriptions

- Open SAP failed/Duplicate detected
- Connection attempt failed/No connection resources

LLC2 Event Descriptions

- Connection failed/Link lost
- Connection failed/Received Disconnect Mode (DM) in asynchronous balanced mode (ABM)
- Connection failed/Received set asynchronous balanced mode extended (SABME) while in ABM
- Connection failed/FRMR rxd – invalid cmd/rsp
- Connection failed/FRMR rxd – unexpected I-frame
- Connection failed/FRMR rxd – invalid Nr
- Connection failed/FRMR rxd – I-field too long
- Connection failed/FRMR txd – invalid cmd/rsp
- Connection failed/FRMR txd – unexpected I-frame
- Connection failed/FRMR txd – invalid Nr
- Connection failed/FRMR txd – I-field too long

CSNA NetView Support

show Commands

All CSNA **show** commands can be issued from a NetView console, with RUNCMDs as the underlying transport to send the **show** command to the router s Service Point.

Alerts

CSNA events are converted to NetView Generic Alerts and sent to the host through the NetView Entry Point.

Index	Alert ID	Failure Code	Description
1	5B8F5BA7	F017	Poll retry exhausted.
2	B1D9A4C5	F01A	DM received.
3	E65B0B7F	F016	SABME received while in ABME.
4	8A5B2D2C	F010	FRMR received – invalid CMD/RSP.
5	8E9A309B	F011	FRMR received – I–field not allowed.
6	83D91642	F012	FRMR received – invalid Nr.
7	87180BF5	F013	FRMR received – max I–field exceeded.
8	28EF2B5D	F020	Protocol error by remote (FRMR sent) – invalid CMD/RSP.
9	2C2E36EA	F021	Protocol error by remote (FRMR sent) – I–field not allowed.
10	216D1033	F022	Protocol error by remote (FRMR sent) – invalid Nr.
11	25AC0D84	F023	Protocol error by remote (FRMR sent) – max I–field exceeded.
12	13797053		Open SAP failed/Duplicate detected.
13	EDFE42AA	2060	Request for session connect rejected. No connection resources.

CSNA SNMP Support

- SNMP Get, Set, and Create support
- SNMP notification (trap) support

CSNA SNMP Management Information Base (MIB)

- CISCO–CIPCSNA–MIB
- CISCO–CIPLAN–MIB
- CISCO–SNA–LLC–MIB

CISCO–CIPCSNA–MIB

This MIB provides SNMP management of configuration, status, and statistics for CSNA support on the CIP card.

For release 11.0, all objects in this MIB are implemented as read–only.

This MIB consists of these tables:

- cipCardCsnaAdminTable
- cipCardCsnaOperTable
- cipCardCsnaStatsTable
- cipCardSessionsAdminTable
- cipCardSessionsOperTable
- cipCardSessionsStatsTable
- cipCardCsnaConnTable

This MIB relates to these router console commands:

- **config csna**
- **config max-llc2-sessions**
- **show extended channel 0/0 csna**
- **show extended channel 0/2 max-llc2-sessions**
- **show extended channel 0/2 connection-map sna**

CISCO-CIPLAN-MIB

This MIB provides SNMP management of configuration for CSNA internal LAN support on the CIP card.

For release 11.0, all objects in this MIB are implemented as read-only.

This MIB consists of these tables:

- cipCardLanAdminTable
- cipCardLanAdaptAdminTable

This MIB relates to these router console commands:

- **config lan**
- **config source-bridge**
- **config bridge-group**
- **config adapter**
- **show extended channel 0/2 lan**

CISCO-SNA-LLC-MIB

This MIB provides SNMP management capabilities for the LLC stack implemented on the CIP card for CSNA support.

For release 11.0, all objects in this MIB are implemented as read-only.

This MIB consists of these tables:

- llcPortAdminTable
- llcPortOperTable
- llcPortStatsTable
- llcSapAdminTable
- llcSapOperTable
- llcSapStatsTable
- llcCcAdminTable (not supported)
- llcCcOperTable
- llcCcStatsTable

This MIB relates to these router console commands:

- **config llc**
- **show extended channel 0/2 llc2**

CSNA SNMP Notifications (Traps)

- `cipCsnaOpenDuplicateSapFailure`
- `cipCsnaLlc2ConnectionLimitExceeded`

LLC2 Notifications

- `llcCcStatusChange`

NetPro Discussion Forums – Featured Conversations

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.

NetPro Discussion Forums – Featured Conversations for IBM

Network Infrastructure: Enterprise Data Centers

Related Information

- **Technology Support**
- **Product Support**
- **Technical Support – Cisco Systems**

[Contacts & Feedback](#) | [Help](#) | [Site Map](#)

© 2008 – 2009 Cisco Systems, Inc. All rights reserved. [Terms & Conditions](#) | [Privacy Statement](#) | [Cookie Policy](#) | [Trademarks of Cisco Systems, Inc.](#)

Updated: Sep 09, 2005

Document ID: 17532
