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CIP CSNA Feature Support

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Introduction

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Introduction

This document provides information on Channel Interface Processor (CIP) Cisco System Network Architecture (CSNA) feature support.

Note: The CSNA feature coexists on a CIP with both TCP/IP off-load and IP Gateway features.

Prerequisites

Requirements

There are no specific requirements for this document.

Components Used

The information in this document is based on the Cisco 7000, 7200 and 7500 routers.

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

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

Node Support

This section provides a list of communication through a Cisco 7000/7500 or 7200 router that CSNA supports.

CSNA supports:

- Communication between a channel-attached mainframe that runs virtual telecommunications access method (VTAM) and a LAN/WAN-attached Physical Unit (PU) 2.0 SNA node.

- Communication between a channel-attached mainframe that runs VTAM and a LAN/WAN-attached PU 2.1 SNA node.
- Communication between a channel-attached mainframe that runs VTAM and a LAN/WAN-attached PU 5/4 SNA node. WAN attachment is restricted to RSRB and DLSw+.
- Communication between two channel-attached mainframes that run VTAM to the same CIP card, or different CIP cards, in a 7000 router. The two VTAMs can be configured as PU5s or PU 2.1 nodes. External communications adapter (XCA) major nodes do not provide network boundary function. Therefore, the remote connection must be to an NCP, a PU4, if the CIP is configured as an SNI link. These tables show SNA node type and switching support:

	PU5	PU4	PU2.1 Low Entry Network (LEN)	Advanced Peer-to-Peer Networking (APPN) Network Node (NN)	Advanced Peer-to-Peer Networking (APPN) End Station Node (EN)	PU2.0
Source-route bridging (SRB)	Yes	Yes	Yes	Yes	Yes	Yes
Source-route translational bridging (SR/TLB)	Yes	Yes	Yes	Yes	Yes	Yes
Transparent bridging (TB)	Yes	Yes	Yes	Yes	Yes	Yes
Remote source-route bridging (RSRB)	Yes	Yes	Yes	Yes	Yes	Yes
Synchronous Data Link Control Logical Link Control (SDLLC)	No	No	No	No	No	Yes
Qualified Logical Link Control (QLLC)	No	No	Yes	Yes	Yes	Yes
Data-link switching plus (DLSw+)	Yes	Yes	Yes	Yes	Yes	Yes
XCA-to-XCA	Yes	No	Yes	Yes	Yes	No

Feature	Fast Switched	Process Switched
SRB	X	

SR/TLB	X	
TB	X	
DLSw+ TCP Encapsulation		X
DLSW+ FST and Direct Encapsulation	X	
RSRB Direct	X	
RSRB Fast Sequenced Transport (FST)	X	
RSRB FTCP	X	
RSRB TCP		X
SDLLC		X
Downstream Physical Unit (DSPU)		X
QLLC		X
XCA-to-XCA	X	

Connection Support

The CSNA feature provides SNA connectivity through the use of MAC addresses configured for internal adapters on the 7000/7500 or 7200 router. These internal adapters correspond to XCA major node definitions in VTAM, and provide access points (LAN gateway) to VTAM for SNA network nodes. The internal adapters are configured to exist on internal LANs located on a CIP/CPA card. You can configure each CIP/CPA card with multiple internal LANs where an internal LAN can be a Token Ring LAN only. You must configure each internal Token Ring LAN to participate in source-route bridging. You can configure up to 32 internal LANs and up to 32 internal adapters on a CIP/CPA. However, only 18 internal adapters can be active on a CIP/CPA card. The internal adapter is an emulation of LAN adapters in an IBM 3172 interconnect controller.

Current Feature Support

Current feature support is available for:

- SRB-T/R
- SR/TLB – Ethernet
- RSRB
- SDLLC
- QLLC
- DLSW+

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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 Support Page](#)
 - [Technical Support & Documentation – Cisco Systems](#)
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