

Use WIC-1DSU-T1 and WIC-1DSU-T1-V2 Interface Cards on Cisco 1600, 1700, 2600, 3600 and 3700 Series Routers

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Introduction

Prerequisites

Requirements

Components Used

Conventions

Features

Supported Platforms

Sample Configuration

NetPro Discussion Forums – Featured Conversations

Related Information

Introduction

This document provides an overview of the WIC-1DSU-T1 and WIC-1DSU-T1-V2 interface cards and provides a sample configuration to use these interface cards on Cisco 1600, 1700, 2600, 3600 and 3700 router platforms. The WIC-1DSU-T1-V2 is an updated version of the WIC-1DSU-T1 interface card (which has reached End-of-Life [EoL]/End-of-Sale [EoS]), that offers additional supported features with the same performance.

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.

Features

The T1 Data Service Unit/Channel Service Unit (CSU/DSU) WAN interface card provides full or fractional T1 service. The T1 CSU/DSU WIC does not provide channelized T1 or ISDN PRI. Refer to the Product data sheet for more information. Facilities Data Link (FDL) is off by default, and you must configure FDL to either American National Standards Institute (ANSI) or AT&T 54016, but not both at the same time.

The Cisco T1 DSU/CSU -V2 WIC is supported on the Cisco 1700 Series, 2600XM Series, 3631, and 3700 Series routers, and Cisco ICS 7750 software.

- T1 or fractional T1 network interface
- Wet T1 support (not available on WIC–1DSU–T1)
- N x 64 kbps or N x 56 kbps nonchannelized data rates (N = 1 to 24)
- Standards–based, including ANSI T1.403 and AT&T Publication 62411
- Full management features:
 - ◆ Configuration Capability for remote configuration using Telnet from the Cisco IOS command line interface (CLI).
 - ◆ Monitoring Router and DSU/CSU are manageable as a single Simple Network Management Protocol (SNMP) entity. Extensive DSU/CSU statistics are provided by the Cisco IOS CLI.
 - ◆ Troubleshooting Extensive loopbacks (including manual button for network line loopback), bit error rate tester (BERT) test patterns, alarm counters, and performance reports, all of which are accessible from Cisco IOS CLI. LEDs for carrier detect, loopback, and alarm functions.

Supported Platforms

The WIC–1DSU–T1 is supported in these Cisco IOS® software releases:

Platform	Cisco IOS Software Release
1600	11.2(12)P, 11.3(3)T, All 12.x
1700	All Cisco IOS versions
2600*	11.3(4)T1, 12.0(1), 12.0(1)T, 12.1(1), 12.1(1)T, 12.2(1), 12.2(2)T
2600XM	12.1(14), 12.2(12), 12.2(8)T1, 12.2(11)YT
3620, 3640	11.2(12)P, 11.3(3)T, All 12.x
3631	Not Supported
3660	All Cisco IOS versions
2691, 3725, 3745	12.2(13)T, 12.2(11)YT

Note: The **service–module fdl** command is available on Cisco 2600 routers in Cisco IOS software releases 12.0(3), 12.0(3)S, 11.3(8)T and 12.0(3)T.

The WIC–1DSU–T1–V2 is supported in these Cisco IOS software releases:

Cisco IOS Software Release
12.2(15)ZL PCBU special [Cisco 1700 Series only]
12.2(17) Mainline
12.3(1) Mainline
12.3(1)T

The Cisco T1 DSU/CSU WIC offers all of the features of the WIC–1DSU–T1 and can be smoothly deployed without any additional training.

	WIC–1DSU–T1–V2	WIC–1DSU–T1
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Description	Updated one-port T1/fractional T1 DSU/CSU WIC	One-port T1/fractional T1 DSU/CSU WIC
Router families supported	1700(1) (1720, 1721, 1751, 1760), 2600XMs, 2691, 3631, 3725, 3745, and ICS 7750	1600(2) , 1600R(2), 1700(3) , 2600, 2600XM, 3600, and 3700
Wet T1 Capable	Yes	No
Short Cable Length Command	Yes; used to configure attenuation for short cable lengths (<660 feet)	No
Network Equipment Building Standards (NEBS)	Yes: Type I/III	No

Note: Cisco 1701, 1710, 1711, and 1712 are fixed-configuration routers and do not support the WIC-1DSU-T1 or WIC-1DSU-T1-V2. Also, the Cisco 1750 does not support this WIC.

Note: Cisco 1600 and 1600R routers are no longer sold by Cisco Systems.

Sample Configuration

Here is a sample configuration for a WIC-1DSU-T1 interface card. There are no **controller** or controller-related commands, such as **channel-group**, to configure. With this WIC card, service-module commands are used. The syntax with regard to the framing, line-code, and so on remains the same. In this scenario a full T1 card with 24 timeslots is used.

Configuration
<pre> Interface serial 0/0 service-module t1 clock source internal service-module t1 timeslots 1-24 speed 64 service-module t1 framing esf service-module t1 linecode b8zs ip address 10.1.1.1 255.255.255.0 encapsulation pppfair-que no shut </pre>

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Network Infrastructure: Remote Access

Related Information

- **1-Port DSU/CSU T1 WIC for the Cisco 1700, Cisco 2600, Cisco 3600, and Cisco 3700 Series Routers**
 - **Cisco 1600 Series Routers**
 - **Cisco 1700 Series Routers**
 - **Cisco 2600 Series Routers**
 - **Cisco 3600 Series Routers**
 - **Connecting WAN and Voice Interface Cards to a Network**
 - **Technical Support & Documentation – Cisco Systems**
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