

Configuring Cisco VCO/4K ICC–T1 for FXO and FXS LS and GS Circuits

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Introduction

This document explains how to configure the Interface Controller Card (ICC) –T1 for Foreign Exchange Office (FXO) and Foreign Exchange Station (FXS) Loop Start (LS) and Ground Start (GS) circuits. The ICC is a high–capacity network interface engine that employs a midplane architecture which enables the network to connect with a series of I/O modules specific to different network interface requirements.

Prerequisites

Requirements

Readers of this document should have knowledge of these topics:

- How to program a VCO/4K switch
- Telephony analog signaling, such as FXS and FXO LS and GS circuits

Components Used

This document is applicable on Cisco VCO/4K with ICC–T1 spans running release 5.1.4 or later.

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.

Configuration Steps

In order to configure an ICC–T1 span for FXO and FXS LS and GS circuits, perform these steps.

1. With the Card Maintenance Screen, shown in this example, take the entire ICC (all 16 spans) Out of Service (OOS). In order to do this, enter 1,1,xx, where xx is an integer between seven and 21 inclusively and set the status to **O** to issue the **C** command.

R	L	S	CARD TYPE	V.RV	S
1	1	1-1	Network Bus	1.02	A
1	1	1-2	Tone Generator	1.25	A
1	1	2-1	Network Bus		O
1	1	2-2	Tone Generator		O
1	1	7- 8	Port Prompt/Record		O
1	1	9-1-1	SPC-CPA		O
1	1	21-1-1	ICC-T1	5.>2	M
1	1	21-1-2	ICC-T1 PRI/NI2	5.>2	M
1	1	21-1-3	ICC-T1	5.>2	M

ADD, DELETE, CHANGE STATUS (A,D,C,P): _ _ _ _
AND PORT DEFINITION: 208 Out Of 4088 Time-Slots Allocated
1-64 _____
65-128 _____

2. Go into the Card Summary Screen, shown in this example, and use **Next Screen** and **Next Field** in order to move the cursor to the span you want to configure.

C A R D S U M M A R Y							
LOCATION	UNUSED	DISP			STATUS	PORTS	CARD
R	L	S	CARD	TYPE			
1	1	1-1	Network Bus		A	0	_
1	1	1-2	Tone Generator		A	1	_
1	1	2-1	Network Bus		O	0	_
1	1	2-2	Tone Generator		O	1	_
1	1	7-8	Port Prompt/Record		O	0	_
1	1	9-1-1	SPC-CPA		O	0	_
1	1	21-1-1	ICC-T1		M	0	_
1	1	21-1-2	ICC-T1 PRI/NI2		M	1	_
1	1	21-1-3	ICC-T1		M	1	_
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-

#00 Thu Aug 16, 2007 8:04 Not An Allowed Character Key

- Press any letter on the keyboard followed by the **Enter** key in order to enter the Trunk Configuration Screen.
- Use the **Tab** key to move the cursor down to Port 1, and use **Next Field** to go to the Signaling Type (SIG. TYPE).

ICC PROGRAMMABLE TRUNK CONFIGURATION									
SPAN	LOCATION:	R,L,S	1	1	21-1-1	STATUS:	Maintenance		
CARD	TYPE:	ICC-T1	SPAN	TYPE:	SF	CODE:	AMI		
TXGAIN:	0db	TXCLCK:	SCLK	SLIP:	255	ALM:	SYS	LENG:	0-133
RXGAIN:	0db	RFCLCK:	LOOP	OOF:	17				
PORT	TRUNK NAME	GROUP	GROUP NAME	SIG. TYPE	IMPULSE RULE	COS	LAW		
1	T1	2	ICC-FXO	FXOLS	0	2	Mu		
2	T1	2	ICC-FXO	FXOLS	0	2	Mu		
3	T1	2	ICC-FXO	FXOLS	0	2	Mu		
4	T1	2	ICC-FXO	FXOLS	0	2	Mu		
5	T1	2	ICC-FXO	FXOLS	0	2	Mu		
6	T1	2	ICC-FXO	FXOLS	0	2	Mu		
7	T1	2	ICC-FXO	FXOLS	0	2	Mu		

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5. Use **Select** in order to configure the port, as shown in this table.

VC04K Setting	FAR END EQ. Setting
FXOLS	FXSLS
FXSLS	FXOLS
FXOGS	FXSGS
FXSGS	FXOGS

6. You have two options in order to reactivate the ICC. The first is to go back to the Card Maintenance Screen and follow the guidelines in Step 1, but replace Status **O** with **A**. You can also physically reseat the ICC. Once the ICC comes back up, the span that was changed runs the new protocol.

Related Information

- [Voice Technology Support](#)
- [Voice and Unified Communications Product Support](#)
- [Recommended Reading: Troubleshooting Cisco IP Telephony](#)
- [Technical Support & Documentation – Cisco Systems](#)

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