

Topic / Issue: Configuring E1 settings for Quadro E1 devices

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This document describes the configuration of E1 settings for any Quadro device that supports an E1 interface, and will be used to connect to the Telco. The first step is to complete the System Configuration Wizard to set Australia as the local region. This will pre-configure many of the required E1 settings and reduce the amount of manual configuration.

Trunk - 1 Edit Entry

Interface Type

Signaling Type

<input checked="" type="radio"/> E1	<p>Line Code <input type="text" value="HDB3"/></p> <p>Frame Mode <input type="text" value="CRC4"/></p> <p>Line Build Out <input type="text" value="120-ohm"/></p> <p>Coding Type <input type="text" value="a-law"/></p> <p>LoopBackMode <input type="text" value="No_loopback"/></p> <p>Clock Mode</p> <p><input type="radio"/> Master</p> <p><input checked="" type="radio"/> Slave</p>
<input type="radio"/> T1	<p>Line Code <input type="text" value="B8ZS"/></p> <p>Frame Mode <input type="text" value="ESF"/></p> <p>Line Build Out <input type="text" value="short_110-ft"/></p> <p>Coding Type <input type="text" value="u-law"/></p> <p>LoopBackMode <input type="text" value="No_loopback"/></p> <p>Clock Mode</p> <p><input checked="" type="radio"/> Master</p> <p><input type="radio"/> Slave</p>

Save

Back

Go to Telephony > E1/T1 settings.

Tick the box for Trunk1 and click Edit.

Configure E1 settings as shown at left.

If your Quadro device has multiple E1 interfaces, once you have configured trunk 1 you can copy the settings to the other trunks.

Click on Trunk1 to configure the signaling settings as shown in the picture below. Many of these settings are already correctly configured from the System Configuration Wizard.

Trunk 1 - E1 - Signaling Type CCS

Non Automat

TEI Address(0..63)

SAPI Value

Alternative Disconnection Mode

ISDN L2 Timers

Excessive Ack. Delay T200

Idle Timer T203

ISDN L3 Timers

T302 Timer

T309 Timer

T310 Timer

Channels (Timeslots)

D Channel Timeslot For Transmit/Receive

B Channels

Bearer Establishment Procedure

Called Party Type of Number

Calling Party Type of Number

Called Party Numbering Plan

Calling Party Numbering Plan

Route Incoming Call to

Switch Type

Generate Progress Tone to PSTN/PBX

Incoming Called Digits Size (0...255)

Generate Progress Tone to IP

Send ALERT Message on Call Ringing

Enable CLIR Service

Enable Connect Acknowledge Option

Override CLID with P-Asserted-Identity

Once the settings are complete, click the E1/T1 Stats link to view the status information.

E1/T1 Trunk Settings

[Edit](#) [Start](#) [Stop](#)

	Trunks	E1/T1	Interface Type	Signaling Type	Stats
<input type="checkbox"/>	Trunk 1	E1	User	CCS	E1/T1 Stats

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In the upper table, Link should be up and there should be Frame Synch. E1 calls should be possible. Incoming calls will route to the system Auto Attendant (00). Outbound calls can be made according the PSTN access code set in the System Configuration Wizard. If Link & Frame synch stats are not as described, no E1 calls will be possible and settings & physical connections should be checked.

E1/T1 Status - Trunk 1

E1/T1	Interface Type	Signaling Type	Clock Mode	Framing Mode	Line Code	Link	Frame Synch.	Red Alarm
E1	User	CCS	Slave	CRC4	HDB3	Up	Yes	No

Out of Frame:	23	Frame Synchronization:	2
Line Code Violations:	282	Link Synchronization:	0

ISDN PRI

Received Packets:	613335	Transmitted Packets:	613335
Received Errors:	23	Transmitted Errors:	0

ISDN PRI Layer 2

TEI Value:	0
L2 State:	MultiFrameEstablish

Received:		Transmitted:	
Information Frame:	31476	Information Frame:	35920
Receive Ready:	581856	Receive Ready:	577412
Receive Not Ready:	0	Receive Not Ready:	0
SABME:	2	SABME:	1
Disconnected Mode:	0	Disconnected Mode:	0
Disconnect:	0	Disconnect:	0
Unnumbered Acknowledgment:	1	Unnumbered Acknowledgment:	2
Framer:	0	Framer:	0
TEI Request:	0	TEI Request:	0
Unnumbered Information Frame:	0		
Exchange Identification:	0		

ISDN PRI Layer 2 Errors

Incorrect Length:	0	Bad Frame Type:	0
Bad Supervisory Frame:	0	Bad Unnumbered Frame:	0
Bad Unnumbered Information Frame:	0	Bad TEI Value:	0

ISDN PRI Layer 3

Active Calls:	0
Outgoing Calls:	616
Incoming Calls:	3381

System Uptime : Tue Nov 18 18:09:36 2008
 Current System Time : Wed Jan 21 11:40:53 2009
 Last Time Cleared : Tue Nov 18 18:24:40 2008