

360-80 Intelligent Channel Bank Craft Terminal **User's Guide**

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Figure 1. Startup Screen

1. GENERAL

1.1 Document Purpose

This document describes how to use the 360-80 Intelligent Channel Bank (ICB) Craft Terminal to monitor and provision a local system.

Note: This document's issue number follows the equipment issue number of the E1 controller unit with SNMP (E1-S)(3603-86).

1.2 Software Function

Use this software to manage a single ICB shelf. This interface will not allow the user to communicate with any ICB system other than the one it is connected to. This interface uses standard VT-100 emulation software on a PC to provision, control and monitor the 360-80 ICB.

1.3 Features

- Provision all the cards in the local ICB through on-screen menus
- Performance monitoring data and testing capabilities

1.4 Reference Documents

- Network Management System And ICB Management System Software User's Guide (LT360–386–S01)
- 360-80 SNMP Network Node Manager (NNM) Setup Guide (LT360-386-N01)
- 3603–86 E1 Controller with SNMP (LT360–386–201)
- 3603-85 Secondary E1 Controller (LT360-885-201)

2. GETTING STARTED

2.1 Requirements

- VT-100 terminal or personal computer running communications software
- 9600 baud rate
- 8-bit, no parity, 1 stop bit
- 9-pin to RJ-11 adaptor

2.2 Connecting to the ICB

Using a 9-pin to RJ-11 adaptor (PN 03-200542-0), connect the ASCII terminal or PC serial port (COM1 or COM2) to the jack labeled **MGMT** on the front of the E1 controller. See the documentation for the E1-S card for instructions.

2.3 Terminal Emulation Communication Software

When using terminal emulation communication software, such as Hyperterminal, the following settings should be established from the pull-down menu:

- File > Properties > Settings > Terminal Keys
- File ► Properties ► Settings ► Emulation ► ANSI

2.4 Starting the Craft Terminal Interface

Use the following steps to start the software and log in to the system:

Step	Action	System Response
1.	Open your terminal emulator software (if using a PC); if using an ASCII terminal, press <enter>.</enter>	Opens the startup screen (see Figure 1).
2.	Press <enter>.</enter>	Opens the login screen (see Figure 2).
3.	Type the default user name piad and press <en- ter>.</en- 	Password prompt is displayed.
4.	Type the default password 1234 and press <enter>.</enter>	Opens the main menu screen.

Note: The default user name and password should be changed as soon as possible. See the User Administration section in this document for instructions.

2.5 Navigating Through the Menus

To select a menu item, use the navigation keys (arrow up/down) to highlight the menu item you want; then press <Enter> to open the menu for that item.

Кеу	Use to
Arrow up ↑	Move the highlight bar up.
Arrow down ↓	Move the highlight bar down.
Arrow right \rightarrow	Move the highlight bar to the right.
Arrow left \leftarrow	Move the highlight bar to the left.
<enter></enter>	Select the currently-highlighted menu item
<r></r>	Reload the screen. This usually clears any currently-selected parameters
<q></q>	Quit out of the current screen without saving

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Connected 2:55:28	ANSI	9600 8-N-1	JSCROLL	CAPS	NUM	Capture	Print echo	

Figure 2. Login Screen

3. MAIN MENU

3.1 Equipment Status

Once you have logged in to the craft interface, it communicates with the E1-S and obtains the status of the cards in the shelf. The information is displayed on the Main Menu screen as shown in Figure 3. From this screen, if the user name is defined as a "super user", you can edit the parameters of the ICB cards and manage the system as described.



Figure 3. Main Screen

Menu Choice	Use to
Primary E1 Module	Set parameters for the primary E1 module
Half-size Module	Set parameters for the half-size module (channels 25-30).
Channel Card 1	Set parameters for channel card 1 (channels 1–12).
Channel Card 2	Set parameters for channel card 2 (channels 13-24).
User Administration	Add, delete, and list users.
Card Inventory Data	Obtain general information about any of the cards in the system.
SNMP Community Table	Set parameter for SNMP Management
Trap IP Table	Set parameters for SNMP traps
IP Address/Subnet Mask/ MAC Address Message	Set IP address and subnet mask
Logout	Log out of the system.

4. E1 MODULES

4.1 Primary E1 Module

Most settings can be found under the Primary E1 Module heading.



Figure 4. Primary E1 Menu

ltem	Use To
Retrieve & Set E1 Parameters	Retrieve and set the E1 parameters
Alarm Cut Off	Turn off current audible alarm
Loopback Test for E1	Run a E1 loopback test
Performance Monitor	Retrieve performance information
System Reset	Reset the system parameters either to default or to a previous setting
1 KHz 0dbm0 Test Tone	Apply an internally-generated test tone to 1 or more channels (FXO/FXS/EM)
Set Test Tone	Apply an internally-generated momentary DTMF tone to a channel
Loopback Test (FXO/FXS/EM)	Loopback test menu for voice cards
Loopback Test (Nx64)	Loopback test menu for Nx64 data cards
Loopback Test (ISDN)	Loopback test menu for ISDN data cards
System Alarm Status	Retrieve system alarms (display only)

ICB Card RTC Time	Set the system real-time clock
Time Slot Allocation Mapping	Allocate an available circuit to the E1 time slot

4.1.1. Retrieve and Set E1 Parameters

Use this menu item to display the current parameters and/or change the parameters of the primary E1 card.

🇞 360-80 - HyperTerminal			
File Edit View Call Iransfer Help			
<u>_ De 95 en en </u>			
Charles Industries Ltd.		Model	360-80
	El Parameter Menu		
	Frame Format Line Code Timing Source Remote Control Method CGA Process Mode Loopback State Apply New Settings	CRC4,CAS HDB3 Internal Facility Data Link Normal Normal	
[Up arrow] Move up [r] Reload Screen	[Down arrow] Move do	wn [Enter] Select [q] Quit

Figure 5. E1 Parameter Settings

Parameter	Possible Choices	Description	
Frame Format	CAS	Channel Associated Signaling.	
	CRC4	CAS with CRC4.	
Line Code	HDB3	High Density Bipolar order 3.	
Timing Source	Loop Timing	Internal clock synchronized to incoming E1 signal.	
	External Timing	Internal clock synchronized to external clock terminals on rear panel.	
	Internal Timing	Internal clock selected as master clock.	
Remote Control	None	No communication to remote unit (non-Charles Industries unit)	
Method (to the re-	Occupy One Channel	One channel is used for communication.	
,	Facility Data Links	Communication to remote over FDL	
CGA Process Mode	Normal	Carrier group alarm response characteristics per 43801.	
	CM2	Carrier group alarm mode 2 (see E1 controller documentation)	
	СМЗ	Carrier group alarm mode 3 (see E1 controller documentation)	
Loopback State	Display only. If the unit is in loopback, shows LPBK. Otherwise, shows NORMAL.		

4.2 Secondary E1 Module

The menu shown in Figure 6 is used to establish the options to use the secondary E1 module.

Ch	arles Industrie	s Ltd.	Model	360-80
			El Card Menu (Secondary)	
			Retrieve and Set El Parameter Alarm Cut Off	
			Loopback Test for E1	
			Performance Monitor	
			Timeslot Allocation Mapping	
			j	
	[Up arrow]	Move up	[Down arrow] Move down [Enter] Select	
[r]	Reload Screen		[q]	Quit

Figure 6. Secondary E1 Menu

Menu Selection	Use To
Retrieve & Set E1 Parameters	Retrieve and set the E1 parameters
Alarm Cut Off	Turn off current audible alarm
Loopback Test for E1	Run a E1 loopback test
Performance Monitor	Retrieve secondary E1 performance information
System Alarm Status	Retrieve secondary E1 alarm status (display only)
Time slot Allocation Mapping	Allocate available circuits to primary and secondary E1 time slots.

4.2.1. Retrieve and Set Secondary E1 Parameters

The Secondary E1 Parameter Menu, as shown in Figure 7, allows you to specify each option.



Figure 7. Secondary E1 Parameter Menu

Parameter	Option	Description	
Frame Format	CAS	Channel Associated Signaling	
	CRC4	CAS with CRC4	
Line Code	HDB3	High Density Bipolar order 3	
Loopback State	Displays LPBK if the unit	t is in loopback. If not in loopback, displays NORMAL .	
Remote Control	None	No management communication to remote unit	
(to remote ICB)	Occupy One Channel	One channel is used for remote communication	
(Facility Data Links	Communication is over FDL	
Bypass Mode	Auto Bypass	E1 bypass on alarm or loss of ICB power	
	Forced No Bypass	No E1 bypass	
Bypass	No	Force no E1 bypass	
	Yes	Force E1 bypass	
Apply New Settings	Select to apply changes made in this menu.		

4.3 Audible Alarm Cut-Off

This cancels any current audible alarm. Use the arrow keys to move the cursor to this menu item and press <Enter> to stop the alarm.

4.4 Loopback Test for E1

Use the Loopback test to troubleshoot E1 line problems.

Note: Loopback tests may affect the service provided by the unit. E1 loopbacks will not function if the ICB is in alarm.

Step	Action
1.	Select the loopback state, location and type
2.	To run the loopback, select Apply New Settings.

🇞 360-80 - HyperTerminal		
<u>File Edit View Call Transfer Help</u>		
<u>DB 93 DB 8</u>		
Charles Industries Ltd.		Model 360-80
	E1 Loopback Menu	
11		
	Loopback State Test	Loopback
	Loopback Location Near	
	Loopback Type Line	
	whith we seccings	
[Up arrow] Move up	[Down arrow] Move down	[Enter] Select
[r] Reload Screen		[q] Quit
Connected 2:23:04 VT100 960	0 8-N-1 SCROLL CAPS NUM	Capture Print echo

Figure 8. E1 Loopback Test menu

Menu Item	Choices	Use to
Loopback State	Test Loopback	Start loopback.
	Release Loopback	Stop loopback.
Loopback Location	Near	Loop local channels and send AIS to remote ICB.
Loopback Type	Line	Loop E1 at receiver (30 channels and overhead).
Apply New Settings	Save the new parameter setting	js
Quit Quit without saving		

4.5 Performance Monitor

The performance monitor displays a history of the line performance. Historical data is available by quarters (15-minute intervals, up to 96 quarters or 24 hours) and days (up to 30 days).

HyperTerminal File Edit View Call Iransfer Help Help Help				_ <u>8</u> ×
				<u> </u>
Charles Industries Ltd.			Model 360-80	
	Performance Moi	nitor Menu		
	15-min 1-Day Reset PM Data	3		
	Year: Month	2001		
	Date:	12		
	Hour: Minute:	8 1		
	Second:	- 52		
	ES SES Failed Seconds	: 0000000000 : 0000000000 : 0000000880		
			[q] Quit	:
Connected 0:46:10 VT100 9600 8	3-N-1 SCROLL CAPS	NUM Capture Print ec	cho	<u> </u>

Figure 9. Performance Monitor screen with 15-Minute Performance Data

4.5.1. 15-Minute PM Data

Use the following steps to look at 15 minutes of PM data:

Step	Action	System Response
1.	Select 15-min. and press <enter>. (Figure 9 shows the third 15-min- ute segment)</enter>	Asks you what 15 minute period you want to look at. Choices are 0 to 96, with 0 specifying the current 15 minutes, and 96 specify- ing 96 quarters (24 hours) prior. The actual date on which the data was gathered is also displayed.
2.	Select a 15 minutes interval and press <enter></enter>	Retrieved data (errored seconds, severe errored seconds and un- available second count) is displayed at the bottom of the screen.
3.	Press <enter> to look at more data (another 15-minute period or up- date current status), or <q> to quit.</q></enter>	

4.5.2. One Day PM Data

Use the following steps to look at one day of PM data:

Step	Action	System Response
1.	Select 1-day and press <enter>.</enter>	Asks you what day you want to look at. Choices are 0 to 30, with 0 specifying the current day, and 30 specifying 30 days prior.
2.	Select a day interval and press <enter></enter>	Retrieved data (errored seconds, severe errored seconds and un- available second count) is displayed at the bottom of the screen. The actual date on which the data was gathered is also displayed.
3.	Press <enter> to look at more data (review current or previous day), or <q> to quit.</q></enter>	

4.5.3. Reset PM Data

Use to clear stored data. Select **Now** to reset data at the current time, or select **Today** to reset data from the start of the current day.

4.6 System Reset – Primary E1 only

4.6.1. Reset to Stored Values

Performs a system reset using the E1 and card parameter values set up for the current application.

4.6.2. Reset to Factory Default Values

Perform a system reset using the factory default E1 and card parameters. Refer to the documentation on individual units for default values.

4.7 1 KHz 0dbm0 Test Tone – Primary E1 only

Applies a 1 KHz 0dbm0 test tone for channel setup procedures.

Note: This test is valid for voice cards only.

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Charles Industries Ltd. Model 360-80	
1 KHz OdbmO Test Tone Menu	
Select Card	
Select Channel	
Operation Setting	
Direction Setting	
which we pecerida	
[Up arrow] Move up [Down arrow] Move down [Enter] Select	
[r] Reload Screen [q] Q	uit _
ornected 0:46:10 VT100 9600 8.N.1 SCB0U CAPS NUM Capture Print echo	•

Figure 10. 1 KHz 0db Test Tone Menu

Use the following steps to enable/disable the tone test.

Step	Action	System Response		
1.	Select which card you want to test (Card 1, Card 2 or half-size module).	Displays your choice.		
2.	Select the channel number you want to test. Use the <tab> key to highlight the channel number and <enter> to select the channel.</enter></tab>	Flags the channel.		
3.	Select the operation setting. Enable starts the test, and Disable stops it.	Displays your choice. Note: Disable will stop any enabled test tones on the selected channel.		
4.	Select the direction of the test (XMT or RCV)	Displays your choice (XMT is toward E1).		
5.	Select Apply New Settings to save your choices and enable/disable the test tone.	If you have chosen to enable the tone test, this wis start the test. You will have to go back into this		
	Press <q> to exit the menu without saving your changes</q>	menu and select Disable to end the test.		

4.8 Set Test Tone – Primary E1 Only

Use this screen to select a channel to be tested with a momentary tone.

Note: This test is valid for voice cards only.

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DF 93 08 5						
	<u>ــ</u>					
Charles Industries Ltd.	Model 360-80					
	Tone Parameters Menu					
	Card Type = FXO					
	Card Type = FXS					
	Card Type = Unplugged					
	Select Channel Apply New Setting					
[Up arrow] Move up	[Down arrow] Move down [Enter] Select					
[r] Reload Screen	[q] Quit					
Connected 0:46:10 VT100 9600 8-N-1	SCROLL CAPS NUM Capture Print echo					

Figure 11. Tone Parameters Menu

Use the following steps to enable/disable the test.

Step	Action	System Response			
1.	Select the channel number(s) on any card you want to test. Use the <tab> key to highlight the channel and <enter> to select the channel.</enter></tab>	Flags the channel you have selected. Only chan- nels capable of using this test will be shown.			
2.	Select Apply New Settings to enable the test.	The test tone is applied momentarily to the se-			
	Press <q> to exit the menu without saving your changes</q>	lected channel to validate the channel operation.			

4.9 Loopback Test (FXO/FXS/EM) – Primary E1 Only

Use the Loopback tests to check where on the line problems are occurring when an alarm is reported on the card. This loopback test loops the drop input back toward the network (network loopback) for FXO and FXS cards. E&M card loopbacks are bidirectional, both local and network.

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Figure 12. Loopback Test menu

Use the following steps to enable/disable the card loopback.

Step	Action	System Response
1.	Select which card you want to test (Card 1, Card 2 or half size module).	Displays your choice.
2.	Select the channel number you want to test. Use the <tab> key to highlight the channel number and <enter> to select the channel.</enter></tab>	Flags the channel.
3.	Select to enable or disable the test. Enable starts the test, and Disable stops it.	Displays your choice.
4.	Select Apply New Settings to save your choices. and enable/disable the loopback.	If you have chosen to enable the loopback, this will start the test. You will have to go back into this menu and select Disable to end the test.

4.10 Loopback Test (Nx64) – Primary E1 Only

Use the Loopback test to check where on the line problems are occurring when an alarm is reported on the card.

Note: The Nx64 unit documentation contains additional information regarding loobacks.



Figure 13. Loopback Test Nx64 Menu

Use the following steps to enable/disable the card loopback.

Step	Action	System Response
1.	Select which card you want to test (Card 1, Card 2 or half size).	Displays your choice.
2.	Select the channel number you want to test. Use the <tab> key to highlight the channel number and <enter> to select the channel.</enter></tab>	Flags the channel.
3.	Select to enable or disable the test. Enable starts the test, and Disable stops it.	Displays your choice.
4.	Select the loopback mode (local, network or remote).	Displays your choice. V.54 must be enabled on Nx64 settings to use remote loopback.
5.	Select Apply New Settings to save your choices. and enable/disable the loopback.	If you have chosen to enable the loopback, this will start the test. You will have to go back into this menu and select Disable to end the test.

4.11 Loopback Test (ISDN) – Primary E1 Only

Use the Loopback test to check where on the line problems are occurring when an alarm is reported on the card. This test applies only when the channel mode is set to LUNT.





Figure 14. Loopback Test ISDN Menu

Use the following steps to enable/disable the card loopback.

Step	Action	System Response
1.	Select which card you want to test (Card 1, Card 2 or half size).	Displays your choice.
2.	Select the channel number you want to test. Use the <tab> key to highlight the channel number and <enter> to select the channel.</enter></tab>	Flags the channel.
3.	Select the test pattern (NO or YES)	Displays your choice. (For future use.)
4.	Select the loopback type (local, LULT or NE1) or select to release loopback.	Displays your choice.
5.	Select Apply New Settings to enable/disable the loopback.	If you have chosen to enable the loopback, this will start the test. You will have to go back into this menu and select Disable to end the test. Verify that loopback is enabled by looking at the front panel of the card you are testing. The LB LED should be ON.

4.12 System Alarm Status

Use this selection to retrieve current alarms in the system. Highlight System Alarm Status and press <Enter> to retrieve the alarms. To update the status, quit and re-enter.

4.13 ICB Card RTC Time – Primary E1 only

Use this selection to set the real-time clock on the ICB.

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<u></u>				
Charles Industries Ltd.		Mod	del 360-80	
	IAD Card RTC Time	Menu		
	Year:	2001		
	Month:	4		
	Date: Hour:	12		
	Minute:	9		
	Second:	7		
	Apply New Settings			
[Up arrow] Move up	[Down arrow] Move	down [Ente:	r] Select	
[r] Reload Screen			[q] Quit	· _
Compared 0.40.10 [VT100 [0000.01]		Capture Print only	1	
JConnected 0:46:10 JV1100 J9600 8-N	- JOCHOLL JUARS INUM	Jeapaire Jenniecho		

Figure 15. Real-Time Clock menu

To set the real-time clock, use the up/down arrows to move between the selections and press <Enter> to make changes. When you are done, select **Apply New Settings** and press <Enter> to save your changes. Press <q> to quit without saving.

4.14 Time Slot Allocation

Use the time slot allocation menu to change the time slot location of a channel within the primary or secondary E1 signal time slots. This menu is also used for drop and reinsert applications.

🗞 360-80 - HyperTerminal - 🗆 × <u>File Edit View Call Transfer Help</u> DB @ 3 0B 8 ٠ Model 360-80 Charles Industries Ltd. Timeslot Allocation Select Channel :_ P : Primary E1 Timeslot S : Secondary E1 Timeslot Ch 1 Ch 2 Ch 3 Ch 4 Ch 5 Ch 6 Ch 7 Ch 8 Ch 9 Ch10 Ch11 Ch12 2 P 3 P 4 P 5 P 6 P 7 P 8 P 9 P Ch14 Ch15 Ch16 Ch17 Ch18 Ch19 Ch20 Ch21 1 P 10 P 11 P 12 P Ch13 Ch22 Ch23 Ch24 13 P 14 P 15 P 17 P 18 P 19 P 20 P 21 P 22 P 23 P 24 P 25 P Ch25 Ch26 Ch27 Ch28 Ch29 Ch30 26 P 27 P 28 P 29 P 30 P 31 P [Tab] Select Channel [Enter] Select [q] Quit [r] Reload Screen [t] Retrieve Timeslot Status Ŧ Connected 2:34:11 VT100 9600 8-N-1

Figure 16. Setting the Time Slot Allocation

4.14.1. Time Slot Mapping

Use the following steps to change the time slot mapping. Steps 1 through 3 unallocate channels from time slots. Steps 4 through 7 allocate channels to time slots. Time slots/channels must be unallocated before they can be allocated.

Step	Action	System Response
1.	Display the channel to edit by pressing the <tab> key</tab>	Channel is displayed.
2.	Press <enter></enter>	Channel is selected.
3.	When asked, "Clear time slot?" Use the arrow keys to select yes, and then press <enter> to un- allocate the channel from its allocated time slot.</enter>	Channel is unallocated.
4.	Repeat steps 1 and 2 for all channels to be unallocated	
5.	Press <tab> to highlight an unallocated channel and then press <enter></enter></tab>	Prompted to map the selected channel to a prima- ry or secondary (if the equipment exists) E1 time slot.
6.	Select primary or secondary and then press <enter></enter>	Map direction is selected.
7.	Press <tab> to select the time slot to map to the selected channel and then press <enter></enter></tab>	The time slot is allocated appropriately for the card type and card provisioning.

Step	Action	System Response
8.	Press <t> to select the retrieve time slot status screen</t>	This screen displays a green square under all time slots that have been allocated to a channel.
9.	Repeat steps 4 and 5 to map any other channels that are not allocated	Channels are mapped.
10.	Press to enter the time slot mode menu. This selection is only available if the secondary E1 card is installed.	

Note: Retrieve Time Slot Status is only visible if the property emulation mode is set to ANSI. This status indicates the time slots that have been allocated.

4.14.2. Time Slot Allocation Mode (only with a Secondary E1 Unit Installed)

Use this menu to choose whether unallocated slots on either E1 unit will be sent broadcast data or idle code. Selecting **Idle** fills the slot with idle code; **Broadcast** fills the slot with the data sent by the other E1.

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	ionnected 0:04:05 VT100 9600 8-N-1 SCROLL CAPS NUM Capture Print echo													

Figure 17. Setting the Time Slot Mode

Note: This menu is only available if a secondary E1 unit is installed. Slots that are not dropped must be set to broadcast on both the primary and secondary E1s to pass data from one E1 to the other E1.

Step	Action	System Response
1.	Select Time Slot Mode and press <enter></enter>	Refreshes the screen to show the time slot modes
2.	Press <tab> to display the time slot you want to edit</tab>	Displays the time slot.
3.	Press <enter> to select the time slot</enter>	Asks you the direction you want to modify.

Use the following steps to change the time slot mode:

4.	Use the arrow keys to highlight the desired direc- tion and press <enter></enter>	Asks you which mode you want to set— Bdct=broadcast or Idle=idle
5.	Use the arrow keys to highlight the desired mode and press <enter></enter>	Applies the mode to the selected time slot.

5. CHANNEL CARDS 1 & 2 AND HALF SIZE MODULE

Parameters available on these dialog boxes will depend upon what cards you are using in the Card 1, Card 2 and half size slots.

Note: For complete descriptions of the card parameters, refer to the documentation for the individual cards you are using.

5.1 FXO Parameters (for 3658-85 12 Channel FXO/DPT Unit)

Use this screen to retrieve and/or change the parameters of the FXO/DPT unit.

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H		_									
H		Impe-	Operating			Forced	CGA	CGA			
H		dance	Mode	TTLP	RTLP	Busy	Immediate	Delayed			
H	Ch 1	600 Ohm	FXO/LS	+00.0	-03.0	NO	idle	busy			
H	Ch 2	600 Ohm	FXO/LS	+00.0	-03.0	NO	idle	busy			
H	Ch 3	600 Ohm	FXO/LS	+00.0	-03.0	NO	idle	busy			
H	Ch 4	600 Ohm	FXO/LS	+00.0	-03.0	NO	idle	busy			
H	Ch 5	600 Ohm	FXO/LS	+00.0	-03.0	NO	idle	busy			
Ш	Ch 6	600 Ohm	FXO/LS	+00.0	-03.0	NO	idle	busy			
	Ch 7	600 Ohm	FXO/LS	+00.0	-03.0	NO	idle	busy			
	Ch 8	600 Ohm	FXO/LS	+00.0	-03.0	NO	idle	busy			
	Ch 9	600 Ohm	FXO/LS	+00.0	-03.0	NO	idle	busy			
	Ch10	600 Ohm	FXO/LS	+00.0	-03.0	NO	idle	busy			
Ш	Ch11	600 Ohm	FXO/LS	+00.0	-03.0	NO	idle	busy			
	Ch12	600 Ohm	FXO/LS	+00.0	-03.0	NO	idle	busy			
			Press [er	terj to	set cha	nneí, o	r [q] to qui	t			
	<u> </u>										
-			10000						I <u>•</u>		
C	onnected 3:0	J5:17 JA	NSI 9600	8-N-1 JSU	JRULL JG	APS (NUM	Lapture Print ed	cho			

Figure 18. FXO Parameter Settings

Parameter	Possible Choices	Description				
Channel Selection	1-12 (if in Card 1 slot)	Select the channel the parameters will be applied				
	13-24 (if in Card 2 slot)	to. Each channel can be configured individually.				
	25–30 (if in half size slot)	1				
Channel Impedance	600 ohms	Loop matching impedance				
	900 ohms	1				
Operating Mode	FXO/GS	FXO—ground start				
	FXO/LS	FXO—loop start				
	DPT/NORMAL	DPT-Normal				
	DPT/WINK	DPT—Automatic wink				

TTLP Level (dBm)	–10.0 to +6.0 dBm	Transmit TLP level
RTLP Level (dBm)	–10.0 to +6.0 dBm	Receive TLP level
Forced Busy	YES or NO	Select YES to force busy
CGA Immediate	Idle or Busy	CGA—immediate conditioning
CGA Delayed	Idle or Busy	CGA—conditioning after alarm delay

5.2 FXS Parameters (for 3657-85 12 Channel FXS/DPO Unit)

Use this screen to retrieve and/or change the parameters of the FXS/DPO unit.

Mi,	IAD - I	lyperTer	minal								_ [⊐ ×
Ei	le <u>E</u> dit	⊻iew <u>C</u>	all <u>T</u> ransfer	<u>H</u> elp								
	ן≝ו	03		r								
Γ	Char	les In	dustries	Ltd.					Mo	del 360-80)	
					Channe	1 Ca	rd Para	ameter M	enu			
		Card Type	Impe- dance	Operating Mode	и т	TLP	RTLP	Forced Busy	CGA Immediate	CGA Delayed	Ring Mode	
	Ch13 Ch14	FXS FXS	600 Ohm 600 Ohm	FXS/LS FXS/LS	+	00.0 00.0	-03.0 -03.0	No No	idle idle	bus y bus y	_	
Ш	Ch15 Ch16	FXS	600 Ohm 600 Ohm	FXS/LS FXS/LS	+	00.0 00.0	-03.0	No No	idle idle	busy husu	_	
Ш	Ch17	FXS	600 Ohm	FXS/LS	+	00.0	-03.0	No	idle	busy	-	
Ш	Ch18	FXS	600 Ohm	FXS/LS	+	00.0	-03.0	No	idle	busy	-	
Ш	Ch19 Ch20	FXS	600 Олм 600 Олм	FXSZLS	+	00.0 00.0	-03.0 -03.0	No	idle	busy husu	_	
ш	Ch21	FXS	600 Ohm	FXS/LS	+	00.0	-03.0	No	idle	busy	-	
Ш	Ch22	FXS	600 Ohm	FXS/LS	+	00.00	-03.0	No	idle	busy	_	
Ш	Ch23 Ch24	FXS	600 Ohm 600 Ohm	FXSZLS FXSZLS	+	00.0 00 0	-03.0	No	idle	busy	_	
Ш	0112 1	1110	000 0114	110/ 00		00.0	05.0	110	1010	busy		
			Pre	ess [entei	l to s	et c	hannel,	. or [q]	to quit_			
		0.00.47	ANCL			lect			I Cashura	Drivet a alea		<u> </u>
μu	nnected	0:09:47	JANSI	19600	1944-1	jsur	ioce ji	JARO JNUN	n juanture j	FIIntecho		111

Figure 19. FXS Parameter Settings

Parameter	Possible Choices	Description		
Channel Selection	1-12 (if in Card 1 slot)	Select the channel the parameters will be applied		
	13–24 (if in Card 2 slot)	to. Each channel can be configured individually.		
	25–30 (if in half size slot)			
Channel Impedance	600 ohms	Loop matching impedance		
	900 ohms	-		
Operating Mode	FXS/GS	Ground start		
	FXS/LS	Loop start		
	MEGACOM/GS/immediate	AT&T Megacom—ground start		
	MEGACOM/GS/wink	AT&T Megacom—ground start		
	MEGACOM/LS	AT&T Megacom—loop start		
	DPO	Dial pulse originate		
TTLP Level (dBm)	-10.0 to +6.0 dBm	Transmit TLP level		
RTLP Level (dBm)	-15.0 to +1.0 dBm	Receive TLP level		

Forced Busy	YES or NO	Select YES to force busy.
CGA Immediate	Idle or Busy	CGA—immediate conditioning
CGA Delayed	Idle or Busy	CGA—conditioning after alarm delay

5.3 E&M Parameters (for 3652-80 12 Channel E&M Unit)

Use this screen to retrieve and/or change the parameters of the E&M unit.

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Eile	e <u>E</u> dit <u>V</u> i∈	w <u>C</u> all <u>T</u> ransf	fer <u>H</u> elp					
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Ē								1
IF	Charle	es Industi	ries Ltd.				Model 36	D-80
				Channel Card	Parameter	Menu		
		Card tyr	e Forced	Type			CGA	CGA
		oura oyr	Busy	Setting	TTLP	RTLP	immediate	delaved
Ш.			,	······································				
	Ch13	EM 4W 60	00 NO	TYPE 5	-16.0	+07.0	idle	busy
	Ch14	EM 4W 60	00 NO	TYPE 5	-16.0	+07.0	idle	busy
	Ch15	EM 4W 60)0 NO	TYPE 5	-16.0	+07.0	idle	busy
	Ch16	EM 4W 60)0 NO	TYPE 5	-16.0	+07.0	idle	busy
	Ch17	EM 4W 60)0 NO	TYPE 5	-16.0	+07.0	idle	busy
	Ch18	EM 4W 60	00 NO	TYPE 5	-16.0	+07.0	idle	busy
	Ch19	EM 4W 60	00 NO	TYPE 5	-16.0	+07.0	idle	busy
	Ch20	EM 2W 90	00 NO	TYPE 5	+00.0	-03.0	idle	busy
	Ch21	EM 4W 60	00 NO	TYPE 5	-16.0	+07.0	idle	busy
	Ch22	EM 4W 60	00 NO	TYPE 5	-16.0	+07.0	idle	busy
	Ch23	EM 4W 60	00 NO	TYPE 5	-16.0	+07.0	idle	busy
	Ch24	ЕМ 4W 90	00 NO	TYPE 5	-16.0	+07.0	idle	busy
								-
			Press [ent	er] to set cha	nnel, or [q] to q	uit	
Ľ								
Cor	nnected 3:21	:45 AN	SI 9600 8-1	1-1 SCROLL CA	PS NUM Cap	oture Prin	nt echo	

Figure 20. E&M Parameter Settings

Parameter	Possible Choices	Description		
Channel Selection	1–12 (if in Card 1 slot)	Select the channel the parameters will be applied		
	13-24 (if in Card 2 slot)	to. Each channel can be configured individually.		
	25–30 (if in half size slot)			
Card Type	2W/4W and 600/900	Indicates 2W/4W jumper settings and 600/900 jumper settings		
Forced Busy	YES or NO	Select YES to force busy		
Channel Type	Type 1–5	Select E&M signaling lead type		
	Transmission Only	No signaling leads used		
TTLP Level (dBm)	-19.0 to +13.0 dBm	Transmit TLP level		
RTLP Level (dBm)	-19.0 to +13.0 dBm	Receive TLP level		
CGA Immediate	Idle or Busy	CGA immediate conditioning		
CGA Delayed	Idle or Busy	CGA conditioning after alarm delay		

5.4 OCU-DP Parameters (for 3632-80 12-Channel Office Channel Unit – Data Port)

Hi.	IAD - Hype	rTerminal					_ 🗆	х
Ei	ile <u>E</u> dit <u>V</u> iev	w <u>C</u> all <u>T</u> ransfer <u>H</u> e	lp					
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_								
	Chamles	Inductation It	4			Madal 260	<u>.</u>	
	Gharles	Industries ht	u.			Houer 300	00	
			Channe	1 Card Paramet	ter Menu			
Ш			5.477 5				aan (
		Alternating	BCH Err.	Zero Code	Speed Sub.	Latching	CSU/	
		CMI Code	Correction	suppression	Channel	LPBK	DSU	
	Ch13	Disable	Disable	Disable	64K	Disable	DSU	
11	Ch14	Disable	Disable	Disable	64K	Disable	DSU	
	Ch15	Disable	Disable	Disable	64K	Disable	DSU	
	Ch16	Disable	Disable	Disable	64K	Disable	DSU	
	Ch17	Disable	Disable	Disable	64K	Disable	DSU	
	Ch18	Disable	Disable	Disable	64K	Disable	DSU	
	Ch19	Disable	Disable	Disable	64K	Disable	DSU	
	Ch20	Disable	Disable	Disable	64K	Disable	DSU	
	Ch21	Disable	Disable	Disable	64K	Disable	DSU	
	Ch22	Disable	Disable	Disable	64K	Disable	DSU	
	Ch23	Disable	Disable	Disable	64K	Disable	DSU	
	Ch24	Disable	Disable	Disable	64K	Disable	DSU	
		n	F		F 1 4 1			
		Press	Lenter] to s	et channel, or	r lql to qui	.t_		
							I	
-								-
Co	nnected 1:41:	53 ANSI	9600 8-N-1	SCROLL CAPS	NUM Captur	e Print echo		11.

Figure 21. OCU-DP Parameter Settings

Parameter	Possible Choices	Description			
Channel Selection	1–12 (if in Card 1 slot)	Select the channel the parameters will be applied to.			
	13-24 (if in Card 2 slot)	Each channel can be configured individually.			
	25–30 (if in half size slot)				
Alternating CMI Code	Enable/Disable	Available for SW 56K data rate.			
BCH Error Correction	Enable/Disable	Enables error correction. Available for 19.2K, 56K and 64K data rates.			
Zero Code Suppression	Enable/Disable	Select to transmit a code if an all-zero byte is detected.			
Speed Sub. Channel	2.4K, 4.8K, 9.6K, 19.2K, 56K, 64K, SW56	Select transmission data rate for any or all channel slots.			
Latching LPBK	Enable/Disable	Available for all data rates.			
CSU/DSU	CSU	Converts DSU loopback codes from network to CSU loopback codes.			
	DSU	Normal operation. Allows DSU loopback codes to be sent			

5.5 DSU-DP Parameters (for 3633-80 12 Channel Data Service Unit—Data Port)

🦓 IAD - HyperTerminal			-	□ >
<u>F</u> ile <u>E</u> dit <u>V</u> iew <u>C</u> all <u>I</u> ransfer <u>H</u> elp				
				- 1 -
Charles Industries Ltd.			Model 360-80	
	Channel Ca	rd Parameter Menu		
0.0.00	atan Istah Da	4- C D D 7/0	Ctan Enn Zana DTC	
/Syn CTS DSR DCD -	face LPBK Ra	te Shor. Bit Bits	Bits Corr. Code on	
Ch13 SYN No No No	U_35 dis 64	k 12.5 No 7	1 dis dis No	
Ch14 SYN No No No	V.35 dis 64	k 12.5 No 7	1 dis dis No	
Ch15 SYN No No No Ch16 SYN No No No	V.35 dis 64 U.35 dis 64	k 12.5 No 7 k 12.5 No 7	1 dis dis No 1 dis dis No	
Ch17 SYN No No No	U.35 dis 64	k 12.5 No 7	1 dis dis No	
Ch18 SYN No No No Ch19 SYN No No No	V.35 dis 64 U.35 dis 64	k 12.5 No 7 k 12.5 No 7	1 dis dis No 1 dis dis No	
Ch20 SYN No No No	U.35 dis 64	k 12.5 No 7	1 dis dis No	
Ch21 SYN No No No Ch22 SYN No No No	V.35 dis 64 V.35 dis 64	k 12.5 No 7 k 12.5 No 7	1 dis dis No 1 dis dis No	
Ch23 SYN No No No	U.35 dis 64	k 12.5 No 7	1 dis dis No	
Ch24 SYN No No No	V.35 dis 64	K 12.5 NO 7	1 dis dis No	
Press [e	enter] to set c	hannel, or [q] to q	uit	
37380 . 73422/83449/0.36				17
Connected 1:37:25 ANSI	9600 8-N-1 SCF	ROLL CAPS NUM Cap	ture Print echo	

Figure 22. DSU-DP Parameter Settings

Note: Availability of some options depends on the data rate chosen. The maximum rate for an RS-232 interface is 19.2K

Parameter	Option	Description		
Channel Selection	1–12 (if in Card 1 slot)	Select the channel the parameters will be applied to.		
	13-24 (if in Card 2 slot)	Each channel can be configured individually		
	25-30 (if in half size slot)			
ASYNC/SYNC Mode	ASYNC or SYNC	Synchronous or asynchronous data transmission		
		Note: This mode must be selected to set the data rate.		
CTS Control	Yes	Force clear-to-send		
	No	Normal		
DSR Control	Yes	Force data set ready		
	No	Normal		
DCD Control	Yes	Force data carrier detect		
	No	Normal		
Interface Mode	3RS+V/V.35/RS232	Select the interface mode. 3RS+V selects the follow- ing: RS449, RS530, V.36		
Latching Loopback	Enable/Disable	Enable/disable detection of latching loopback codes		
Data Rate	2.4K, 4.8K, 9.6K, 19.2K, 56K, 64K	Transmission data rate. 56K and 64K available in synchronous (SYN) mode only		
Stop Bit Shortened	12.5% or 25%	Asynchronous (ASYN) mode shortened stop bits		
Parity Bit	Yes/No	Asynchronous (ASYN) mode only		
7/8 Bits Mode	7 or 8	Asynchronous (ASYN) mode only		

Parameter	Option	Description
Stop Bit	1 or 2	Asynchronous (ASYN) mode only
Error Correction	Enable/Disable	BCH error correction
Zero Code Suppression	Enable/Disable	Converts zero byte to control code (18 Hex) toward the network
RTS Force On	Yes/No	Force request to send ON.

5.6 ISDN Parameters (for 3638-80 Quad Circuit ISDN)

E	IAD - Hype ile Edit Vie DB B @	erTermina w <u>C</u> all () <u>&</u> (C Indus	Iransfer <u>H</u> elp De E tries Ltd.				Model 360-8	
l				Channe	l Card Paramet	ter Menu		
		Mode	Sealing Current		nB+nD	Composite CLk Source		
	Ch13 Ch14 Ch15 Ch16	LULT LULT LULT LULT	On On On On		2B+D 2B+D 2B+D 2B+D	None None None None		
			Press [er	nter] to se	et channel, or	· [q] to quit	:	
	onnected 1:46	:15	ANSI	9600 8-N-1	SCROLL CAPS	NUM Capture	Print echo	<u>_</u>

Figure 23. ISDN Parameter Settings

Parameter	Possible Choices	Description		
Channel Selection	1-4 (if in Card 1 slot)	Select the channel the parameters will be applied to. Each channel can be configured individually.		
	13–16 (if in Card 2 slot)			
	25–26 (if in half size slot)			
Mode	LULT	RT mode.		
	LUNT	COT mode.		
Sealing Current	ON/OFF	Status (LULT only).		
nB + nD	D	Overhead channel only.		
	1B + D	One data/voice channel plus overhead.		
	2B + D	Two data/voice channels plus overhead.		
Composite Clock Source	None	Select composite clock output source. Applies		
	1-4 (If in card 1 slot)	only to LUNT mode.		
	13-16 (if in card 2 slot)			
	25, 26 (if in half size slot)			

5.7 56/64xN Parameters (for 3634-80 6-Circuit 56/64xN Data Service Unit—Data Port)

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E	jile <u>E</u> dit	⊻iew <u>C</u> all	<u>T</u> ransfer <u>H</u> e	lp						
	רשׂ	03	0 🔊 🖻							
Γ	Char	les Indu	stries Lt	d.				Mode	1 360-80	╗≏
l				Ch	annel C	ard Para	meter Me	nu		
		N × 56∕64K	Base Setting	Channe 1 Type	CTS Value	DSR Value	DCD Value	V.54 LPBK Enable	DTE's LLtwork Enable	
l	Ch13 Ch14 Ch15	2 2 2	64k 64k 64k	V.35 V.35 V.35	No No No	No No No	No No No	Dis able Disable Disable	Disable Disable Disable	
l	Ch16 Ch17 Ch18	2 2 2	64k 64k 64k	U.35 U.35 U.35	No No No	No No No	No No No	Disable Disable Disable	Disable Disable Disable	
l	Ch13 Ch14 Ch15	1111111 1111111 1111111	de Zer 10 10	o Code Su Disable Disable Disable	ppr. E E	PRIS nable nable	External Disab Disab	Clock le le		
	Ch15 Ch16 Ch17 Ch18		10 10 10	Disable Disable Disable	E E E E	nable nable	Disab Disab Disab Disab	le le		
			Press	[enter]	to set	channel,	or [q]	to quit		ļ
	onnected	0:11:39	ANSI	9600 8-N	<mark>↓1</mark> S	CROLL C	APS NUM	Capture Pri	int echo	

Figure 24. 56/64xN DSU-DP Parameter Settings

Parameter	Option	Description
Channel Selection	1-6 (if in Card 1 slot)	Select the channel the parameters will be applied to. Each
	13-18 (if in Card 2 slot)	channel can be configured individually
	25-27 (if in half size slot)	
Nx56/64K	1 thru 30	Depends on bandwidth desired and time slots allocated
Base Setting	56K or 64K	Base data rate
Channel Type	RS530	Select the serial interface connection type
	V.35	
	V.36 (RS-449/422)	
	RS232	
	HIZ (factory test mode)	
CTS Value	Yes	Force clear-to-send on
	No	Normal
DSR Value	Yes	Force data set ready on
	No	Normal
DCD Value	Yes	Force data carrier detect on
	No	Normal
V.54 LPBK Enable	Enable/Disable	Enable or disable V.54 loopback
DTE LL Loopback	Enable/Disable	Enable or disable DTE local loopback
Idle Mode	11111110 or 11111111	Select idle mode pattern

Parameter	Option	Description
Zero Code Suppression	Enable/Disable	Force control code (18 Hex) if zero byte detected toward the network
PRTS	Enable/Disable	Force request to send ON and continually send data
External Clock	Enable/Disable	Select an external input as a clock source.

5.8 Ethernet Router Parameters (for 3641-80 or 3648-80)

CRAFT - HyperTerm	ninal Eransfer <u>H</u> elp							-	
Charles Indus	tries Ltd						Model	360-80	1
N × 56/64K	Rate	Chanr	el Card	raramete	er Menu				
Ch 1 12	64k								
	Press	[enter] to	set char	nel, or	[q] to q	uit_			
Connected 0:04:32	VT100	9600 8-N-1	SCROLI	CAPS	NUM Cap	ture Print	echo		J

Figure 25. Ethernet Router Parameter Settings

Parameter	Option	Description
Nx56/64K	1 thru 30	Depends on bandwidth desired and time slots allocated
Base Setting	56K or 64K	Base data rate

6. USER ADMINISTRATION

Use the User Administration menu to add and delete users.

🏘 HyperTerminal		_ 8 ×
<u>File Edit View Call Iransfer Help</u>		
DF 93 08 8		
		1
Charles Industries Ltd.	Model 360-80	
User Administration Menu		
Create new user		
Delete existing user		
List user information		
[Up arrow] Move up [Down arrow] Move down	[Enter] Select	
[r] Reload Screen	[q] Quit	
JConnected 0:46:10 JVT100 J9600 8-N-1 JSCROLL JCAPS NUM Capture F	Print echo	

Figure 26. User Administration Menu

6.1 Create a New User

Use the following steps to create a new user on the system.

Note: User names and passwords must not contain blank spaces and should be limited to eight characters.

Step	Action	System Response
1.	Select Create New User and press <enter></enter>	Asks for the new user's name.
2.	Type the new user's name and press <enter>.</enter>	Asks for the new user's password.
3.	Type a password for the new user and press <enter>.</enter>	Asks to verify the new user's password.
4.	Type the new user's password a second time and press <enter>.</enter>	Asks you to select the new user's security lev- el.
5.	Select the new user's security level.	Adds the new user to the system.
	Guest= Allows access to status and performance data.	
	User= Full system access except for user mainte- nance.	
	Super User= Full system access.	
	and press <enter></enter>	

6.2 Delete User

Use the following steps to remove a user from the system:

Step	Action	System Response
1.	Select Delete Existing User and press <enter></enter>	Ask for the user's name
2.	Type in the user's name and press <enter></enter>	Deletes the user.

6.3 Editing User Information

There is no provision for editing user information directly. If you want to change a user's password or access level, you must delete the user and then add the user to the system again with the changes.

6.4 List Users

Use the following steps to list the current users in the system:

Step	Action	System Response
1.	Select List User Information and press <enter></enter>	Retrieves and displays a list of the current users.

7. CARD INVENTORY

Retrieve information about any of the cards in the system.

360-80 - HyperTerminal File Edit View Call Iransfer Help IRE STATE AND				
Le si la cla el				
Charles Industries Ltd.			Model 360-80	
	Card Inventory Me	enu		
	Primary E1 Halfsize Card	Plugged FXO		
	Channel Card 1 Channel Card 2	FXS FXS		
[Up arrow] Move up [r] Reload Screen	[Down arrow] Mo	ove down [Ente	r] Select [q] Quit	
Connected 2:18:36 VT100 960	00 8-N-1 SCROLL C	APS NUM Capture	Print echo	

Figure 27. Card Inventory Data After Primary E1 Selected

Use the following steps to retrieve card information.

Step	Action	System Response
1.	Select Card Inventory and press <enter>.</enter>	Opens the Card Inventory menu.
2.	Select the card you want to see data for and press <enter>.</enter>	Retrieves the card firmware and FPGA version data (see Figure 27).
3.	When you are done, press <q> to quit.</q>	

8. SNMP CONFIGURATION

8.1 SNMP Community Table

For SNMP management, the E1–S is addressed using a combination of the following:

- IP Address
- Community Name
- Address ID Switch Setting

Only locally managed shelves need the SNMP community table set. A locally managed shelf is any ICB that is connected to a manager via an Ethernet LAN regardless of where the shelf is physically located. A remotely managed shelf is an ICB that is managed over an E1 through a locally managed shelf. The SNMP Network Node Manager documentation provides additional information.

Note: The selection, "Reset to Factory Settings", will clear the table configuration.

🎨 HyperTerminal	
<u>File E</u> dit <u>V</u> iew <u>C</u> all <u>T</u> ransfer <u>H</u> elp	
DF 93 07 6	
	▲
	-
Charles Industries Ltd.	Model 360-80
	SNMP Community Table
No. community	privilege ip address submask
l readwrite	Read Write 192.168.2.169 255.255.0.0
2	Read only 0.0.0.0 255.255.255
	Read only 0.0.0.0 255.255.255.255
5	Read only 0.0.0.0 255.255.255.255
[select 1 5	to setting, [a] to Apply New Settings]
	[q] Quit
L	
Connected 0:46:10 VT100 9600 8-N-1	SCROLL CAPS NUM Capture Print echo

Figure 28. SNMP Community Table

Parameter	Description
Community	Enter the name to be used to refer to this equipment.
Privilege	Use Read for monitoring and Read/Write for monitoring and provisioning.
IP Address	Enter the IP address of the SNMP manager.
Submask	Enter the appropriate subnet mask.

Warning

Applying changes to this table will initiate a warm start and momentarily disrupt E1 service.

Note: New settings must be applied after changes are made to activate the changes to this table.

8.2 Trap IP Table

Traps must be enabled in this table and through the MIB (instance *iadTrapSetProxy* under *iadTrapMgt*) to be generated by the ICB.

Traps must be enabled using the SNMP manager.

Traps will only be generated based on local system conditions. A local system is any system that is directly connected via an ethernet LAN to the management network. See the SNMP Network Node Manager documentation for more information.

Note: The selection, "Reset to Factory Settings", will clear the table configuration.



Figure 29. Trap IP Table

Parameter	Description
Community	Enter the name to be used to refer to this equipment.
IP Address	Enter the IP address of the Trap recipient.
Status	Traps must be Enabled to be generated.

Warning

Applying changes to this table will initiate a warm start and momentarily disrupt E1 service.

Note: The following six traps are supported by this equipment;

AIS alarm trap LOF alarm trap LOS alarm trap YEL alarm trap warm start authentication trap

9. ADDRESSING/SUBNET MASK/MAC/GATEWAY ADDRESS MENU

For the NMS/GUI software (Ethernet GUI) only the IP address and the address ID switch setting of the E1-S card are required. (The IP address and the community name can only be viewed using the Craft interface.) If a remote ICB does not require an IP address, use IP address 0.0.0 with a subnet of 255.255.255.255.

Only locally managed shelves need to have an IP address set. A locally managed shelf is any ICB that is connected to a manager via an ethernet LAN regardless of where the shelf is physically located. A remotely-managed shelf is an ICB that is managed over an E1 through a locally managed shelf.

The gateway address is the IP address of the router on the LAN that is located between the shelf and the manager.

See the Network Management Software documentation for GUI addressing.

Warning

All remotely managed systems must have a unique address ID switch setting that is different from the local system's address ID switch setting and must be great than 0.



Figure 30. IP Address/Subnet Mask/MAC Address Menu

Enter the appropriate IP address and subnet mask for the network connected to the ICB. SNMP and Graphical User Interface Network Management is NOT possible over the Ethernet interface unless a unique IP address is assigned to the local shelf.

WARNING

Applying changes to this table will initiate a warm start and momentarily disrupt E1 service.

The MAC address is unique for each ICB and cannot be changed.

9.1 SNMP Management using Charles MIB

Provided on the CD included with the E1 Controller with SNMP (E1–S) is the Charles MIB for management of the 360–80 system. Only a system with a E1–S card as the controller can be managed using an SNMP manager.

Note: See the Network Node Manager documentation for more information.

10. TECHNICAL ASSISTANCE

If technical assistance is required, contact Charles Industries' Technical Services Center at:

847-806-8500 847-806-8556 (FAX) 800-607-8500 techserv@charlesindustries.com (e-mail)