## **Crestron® IP Intercom**

# quickstart guide

#### **1** Introduction

The Crestron<sup>®</sup> Intercom facilitates voice communication between TPMC touchpanels as well as between TPMC and TPS touchpanels. A Crestron control system is required to use the Intercom. When used with TPS touchpanels, a Barix Audio Interface is also required.

In the included SIMPL<sup>™</sup> Windows<sup>®</sup> demo program, TPS line level audio routing is accomplished using an Intercom Audio Distribution System (C2N-IADS). The Barix Annuncicom 100-CS Audio Interface is used to manage the distribution of line level audio via Ethernet.

Use the demo program to see how to program your system. You do not have to have the whole system shown in the demo. You can use the Intercom with two panels or with many panels.

#### **3** Programming

#### A. Enter Barix IP Address in Browser

At boot up, the Barix will "speak" its IP address via its line audio output. Enter this address into your web browser to go to the Barix web page for your unit.

ile Edit View	History Book	marks Window H	Cr	estron Multicast IP		
• • • • • • • • • • • • • • • • • • •	+ Shttp://	172.30.169.128/			• Q- Google	
D BDA SR	OptimumW	ebmail SquirrelMa	il Login Weather	Google Enterprise eTIME® Crestron Eics, Inc.	Crestron Intranet	
BAR	X Fin Bo	C 00:08:E1:00:58 mware VA0.17 (09/25/ otloader V99.12	:9E Setup Song 2008) File system Application versi	V01.01 V08.06 (Gep 25 2008) V01.18 on V0.07 25.09.2008		
Crestron IP Audio	Interface	n 📔 System Info	Update	]		
				This help gives you a quick insight into the sta	itus parameters.	
Status information	S			Status informations		
Control Port Connec Last Received Com	ted IP: 172.30.16 mand: S	88.126		Control Port Connected IP Show the remote IP address connected to the TCF	Control Port (12302).	
Streaming Buffer: Streaming Destination	on IP: none			Last Received Command Show the last control command received.		
				Streaming Buffer Show the actual byte size content of the streaming	buffer.	
				Streaming Destination IP Show the IP address of the remote device that is re	eceiving the audio stream.	

#### this diagram. **NOTE:** If you are using a Barix, Creston

recommends using DHCP the first time the Barix is configured. You can also contact Barix regarding their IPzator<sup>™</sup> feature.

**NOTE:** Each Barix Audio Interface will allow only

determine how many Barix boxes you need. Each

Barix supports only one concurrent session at a

Make connections per the diagram to the right.

simplicity, not all panels in the program are shown.

**NOTE:** Cresnet<sup>®</sup> and Ethernet connections from

TPS and IIF devices are intentionally not shown in

This diagram is for the demo program but for

one connection from a TPMC to a TPS/C2N-IIF.

Your system design and requirements will

#### **B. Configure the Barix**

(2)

time.

Hardware Hookup

Click on the *Configuration* tab and enter your information in the boxes provided. When all your information has been entered, click **Apply**. The Barix will reboot.

D BDA SR	 OptimumWebmail	iquirrelMail Login	Weather	Google	Enterprise eTIME®	Cre
BAR Crestron IP Audio Inte	MAC 00: Firmware VAI Bootloader V99	08:E1:00:58:9E S S 0.17 (09/25/2008) F 9.12 A	etup ong ile system ,pplication versior	V01.01 V06.05 (8 V01.16 V0.07 25	бөр 25 2008) .09.2008	
Status	Configuration Sy	stem Info	Update			
					This help gives you a q	uick i
Network settings					Network settings	
Use SoniclP	🔿 Yes 💿 No				Use SonicIP If set to "yes", the device Default: "yes"	will an
IP Address	172 . 30 . 169 .	128			IP Address	desire
Netmask	255 . 255 . 241 .	0			"0.0.0.0" for automatic dis "192.168.0.12" for an inte Default: "0.0.0.0"	cover rnal L
Gateway IP Address Application settings	172 . 30 . 161 .	1			Netmask Enter the 4 values of the "0.0.0.0" for a default Net "255.255.255.0" for a C c Default: "255.255.255.0"	desire mask lass n
Location Name	Bob's Room				Gateway IP Address	
Input Source	💽 Line 🔘 Mic				"0.0.0.0" for no Gateway "192.168.0.1" for a Gatew	desire
Microphone Gain 21 dB				Note: The Gateway has to be (through a router).		to be s
A/D Amplifier Gain	0 dB				Default: "0.0.0.0"	
Volume	50 💌 %				Application settings	
					Location Name Enter a location name.	
Apply Cancel	)				Input Source Choose the desired input Default setting is "Line"	sourc
					Microphone Colo	



#### C. Enter Barix IP Address



The demo program contains a default IP table. When loading the system, be sure to load the Default IP Table when prompted by Crestron Toolbox<sup>™</sup>.

From the Configuration Manager of the SIMPL Windows program, enter the IP address for the TCP/IP client in the "Device Settings" window.

IP Not Address	P ID at pro	on Sheet   Device In
Default Address 172 030 169	128	<ul> <li>Use IP Address</li> <li>Use Host Name</li> </ul>
C UDP		

#### D. Enter Touchpanel IP ID and IP Address

Also, be sure to configure the IP tables on each of the touchpanels to point to the control system. The correct IP IDs are shown in the Release Notes that accompany the demo program. Refer to the Release Notes for details about touchpanel setup in SIMPL Windows.

#### E. Recompile and Load Program

When all IP IDs and addresses have been set, recompile the demo program and load it into your control system.



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#### 4 Operation

The demo program opens at the main screen where you can see the other locations and their availability for intercom communication. Any location in Available or Privacy mode can be called.

To the left of each location is a button to enable monitoring audio from that location. Locations in *Do Not Disturb* mode can not be called or monitored.

		Crest	FON INTERCO _iving Room	<sup>o</sup> m	
OFF	Master Bedroom	OFF	Dining Room Privacy	OFF	Location 9 Available
On	Kitchen Available	OFF	Office Available	OFF	Location 10 Available
OFF	Living Room Available	OFF	Location 7 Available	OFF	Location 11 Available
OFF	Theater Do Not Disturb	OFF	Location 8 Available	OFF	Location 12 Available
•		L	ocations 1 - 12		Þ

To place a call, from the main screen, touch the name of the location you wish to call. The call screen will appear and the "Connecting to" window shown in the next column will appear.

From the call screen, you can adjust *Touchpanel Speaker Level*. Touch **PUSH TO TALK** when speaking. Touch **END CALL** to end the call.



#### **5** Configuration Options

Touch the **Options** icon in the upper right corner of the main screen to go to the options screen. Three modes of operation are available: Available, Privacy and DND (Do Not Disturb). Calls will not work to locations set to DND.

**NOTE:** Groups and PAGE ALL ROOMS are available only between TPS touchpanels. Crestron Intercom Living Room Monitoring Off Available Allow Doorbell Privacy Groups Interrupt PAGE ALL ROOMS DND EXIT

Touch **Groups** on the options screen to go to the groups screen. After selecting a group number from the column at the left, you can select the locations you wish to be a part of this group. Use the **Page Group** button to address all the locations in the selected group.

	Cre	stron Living	Interc	om	
Group 1			-12		
Group 2	Master Bedroom	Kitchen	Living Room	Theater	
Group 3	Location 6	Location 7	Location 8	Location 9	l
Group 4	Location 11	Location 12	Location 13	Location 14	
Group 5	Location 16	Location 17	Location 18	Location 19	
Group 6					
Group 7	Location 21	Location 22	Location 23	Location 24	
Group 8					
		Page	Group		

When you make a call, you will see a small "Connecting to" window superimposed on the call screen. Touch **CANCEL CALL** to cancel the call. This window will disappear when the called location responds.

Connecting to:
Office
CANCEL CALL

For incoming calls, the "Incoming Call From" window will appear on the screen. Press **ANSWER** to speak with the caller or **CANCEL** CALL to ignore the call.

Incoming	Call From:
Of	fice
ANSWER	CANCEL CALL

Touch the radio icon in the upper left corner of the main screen to go to the setup screen.

This screen provides *Touchpanel Mic Level* and *Touchpanel Speaker Level* controls. Refer to the Release Notes for touchpanel specific audio and microphone settings.



Intercom Setup Living Room Touchpane Mic Level Touchpanel Speaker Level ▲ -EXIT Status: Connection Terminated

