

Configuring the CyberData V2 Paging Amplifier for eOn's eConn IP-PBX

1.0 Configuring the V2 Paging Amplifier to eOn's eConn IP-PBX

1.1 Introduction

This document has been written to provide simple instructions for integrating eOn's eConn IP-PBX with the CyberData V2 Paging Amplifier. The integration allows users to initiate directed and multicast paging from any port within the system, be it IP station, analog station, or IP/analog/digital trunk.

1.2 Requirements

The user must insure that sufficient G.711 or G.729 licenses to support the additional port(s) required in registering the CyberData V2 Paging Amplifier with the eConn-IP-PBX are available on the system.

1.3 eConn Configuration

Configuration of the eConn can be made as simple or complex as your situation requires. In the simplest sense, a port is created as type IP_PHONE1, given a prime extension along with default Profile and COS values. All paging is then initiated by dialing the extension number of this port. If desired, access may be restricted by implementing other means available within eConn programming. Please contact eOn (support@eoncc.com) for any additional support you may require.

The eConn GUI screenshot (Figure 1) illustrates the simplicity in configuring a basic port to be used in initiating pages via the CyberData V2 Paging Amplifier.

Button Programming	Location: L582 Profile: P_PHONEDEF V Type: [P_PHONE1 COS: STATIONDEF V Name: CyberData Paging Amplifier Prime Ext. 2126	ACD Call Gueue Status ACD Group Service ACD Group Status ACD Logon Local ACD Logon Remote Agent Quick Logon Agent Status Alarm Clock All Call Announce Answer
	1 EXT2128 13 2 14 3 15	Auto Answer Auto Answer Auto Transfer Bank Button Busy Prime Indication Button Change Call Announce Call Forward - Busy Don't Answ Call Forward - Don't Answer
	4 16 5 17 6 18 7 19	Cali Forward - Foldow Me Cali Forward - Outside System Cali History Cali Park - General Cali Park - Zone Cali Park - Zone Cali Park - Station Cali Queue Query Caler ID Block Camp On
	8 20 9 21 10 22 11 23	Cancel Conference Isolate Conference Isolate Conference Ouery Dial Extension Button Direct-In-Line Direct Call Pickup Direct Ring Prime Do Not Disturb
(B1) EXT2126 B1 DE EXT2126 PRIME RING AU		Down DTMF Tone A DTMF Tone B DTMF Tone D Ground Recall Handset / Headset
	GALANIAN	Buttons: Buttons 1 - 24

Figure 1. Configuring a Basic Port

1.4 CyberData Device Home Page

	Figure 2.1	
C	yperData	a Paging Amplifier
Home	Device Settings	
Device Config	Device Name:	CyberData Paging Amp
Device Coning		
Networking	Change Username:	admin
	Change Password:	
SIP Config	Re-enter Password:	
Nightringer	Current Settings	
	Serial Number:	06100002
Sensor Config	Mac Address:	00:20:17:00:2c:81
Multicast Config	Firmware Version:	v6.0.0
marticust coning	IP Addressing:	dhcp
Audio Config	IP Address:	10.10.1.12
(Freedom (Subnet Mask:	255.0.00
Event Config	Default Gateway:	10.0.0.1
Autoprovisioning	DNS Server 1:	68.87.76.178
	DNS Server 2:	
Update Firmware	Chaeker Velumer	- evelop
	Speaker Volume: High Power mode is:	analog active
	nigh Fower mode is.	uchve.
	SIP Mode is:	enabled (Registered with SIP Server)
	Nightringer is:	disabled
	Multicast Mode is:	disabled
	Event Reporting is:	disabled
	* You need to reboot for ch	nanges to take effect
	Save Reboot	

Figure 2. Home Page

Following CyberData's setup instructions, the screen above shows the home screen for the V2 Paging Amplifier that has been interfaced with the eConn IP-PBX and connected to the network using DHCP. This screen is accessed by browsing to the IP address associated with this device and shows Network information as well as registration status. The device's configuration screens may be password protected.

1.5 CyberData Device Configuration

	Figure 3. Device Configuration	
C	CyberData Paging	Amplifier
	syserbatar aging	/ inpiner
Home	Device Configuration	
Device Config	Volume Settings	
	Speaker Volume: analog	
Networking	Speaker Volume (0-9):	
SIP Config	Line In Playback Volume (0-9):	
Nightringer	Relay Settings	
	Activate Relay with DTMF code:	
Sensor Config	DTMF Activation Code:	321
Multicast Config	DTMF Activation Duration (in seconds):	2
	Activate Relay During Ring:	
Audio Config	Activate Relay During Night Ring:	
Event Config	Activate Relay While Call Active:	
Autoprovisioning	Miscellaneous Settings	
	Two Speakers Connected:	
Update Firmware	Beep on Initialization:	
	Auto-Answer Incoming Calls:	
	Play Ringback Tone:	
	Enable Line-in Playback:	
	* You need to reboot for changes to take effect	
	Save Test Audio Test Relay Reboot	

Figure 3. Device Configuration Page

Using the Device Configuration screen, we are able to address relay settings as well as other connection information.

1.6 CyberData Network Configuration

	i igure 4. Network comigura	
	CyberData Paging	Amplifier
Home Device Config	Network Configuration	
Networking	IP Addressing: IP Address: Subnet Mask:	O Static O DHCP
SIP Config Nightringer	Default Gateway: DNS Server 1: DNS Server 2:	10.0 0.1 10.0 0.1
Sensor Config Multicast Config	Current Network Settings	
Audio Config Event Config	Subnet Mask: 255.0.0.0 Default Gateway: 10.0.0.1 DNS Server 1: 68.87.76.178 DNS Server 2:	
Autoprovisioning Update Firmware		
	* You need to reboot for changes to take effect	

Figure 4. Network Configuration Page

The Network Configuration screen can be used to enable DHCP or assign static network addressing for this device. If DHCP is enabled, the device has a mode to enunciate its IP address information to the user after invocation.

1.7 CyberData SIP Configuration

Figure 5. SIP Configuration Page			
	CyberData Paging	Amplifier	
	eyserbatar aging		
Home	SIP Configuration		
Device Config	Enable SIP operation: 🗹 (NOT Registered with SIP	Server)	
	SIP Settings		
Networking	SIP Server:	10.0.0.253	
SIP Config	Remote SIP Port:	5060	
	Local SIP Port:	5060	
Nightringer	Outbound Proxy:		
Sensor Config	Outbound Proxy Port	0	
Sensor Coning	SIP User ID:	199	
Multicast Config	Authenticate ID:	199	
	Authenticate Password:	ext199	
Audio Config	Register with a SIP Server.		
Event Config	Re-registration Interval (in seconds):	360	
	i i i i i i i i i i i i i i i i i i i		
Autoprovisioning	Unregister on Reboot:		
Update Firmware	Buffer SIP Calls:		
opuate Filliware	Beep before Page:		
	RTP Settings		
	RTP Port (even):	10500	
	itte Polt (even).	10300	
	* You need to reboot for changes to take effect		
	Save Reboot		

The SIP Configuration page is used to specify the IP address and port of the eConn IP-PBX as well as the prime extension that it will use in registering to the PBX. Registration Expiry timer is found here as well and should be set to a value less than set in the host PBX.

1.8 CyberData Multicast Configuration

		J 1			J		
	Cv	berDa	ta Pa	aging A	mpl	ifie	<u></u> .
Home	Mult	icast Configur	ation				
Device Config	Enabl	le Multicast operat	tion: 🗌				
Madaurahina	Priori	ty Address	Port	Name	Buffe	r Beep	Relay
Networking	9	239.168.3.10	11000	Emergency			
SIP Config	8	239.168.3.9	10000	MG8			
Nightringer	7	239.168.3.8	9000	MG7			
	6	239.168.3.7	8000	MG6			
Sensor Config	5	239.168.3.6	7000	MG5			
Multicast Config		SIP calls are co	and the second second	prity 4.5		-	_
Audia Cantin	4	239.168.3.5	6000	MG4			
Audio Config	3	239.168.3.4	5000	MG3			
Event Config	2	239.168.3.3	4000	MG2			
Autoprovisioning	1	239.168.3.2	3000	MG1			
	0	239.168.3.1	2000	Background Music			
Update Firmware Port range can be from 2000-65535							
Priority 9 is the highest and 0 is the lowest							
	10000			ays supercede a lower	one		
Priority 9 streams will play at maximum volume							
	* You	need to reboot fo	r changes to	take effect			
	Sar	ve Reboot					
		26					

Figure 6. Multicast Configuration Page

Multicast configuration is used to associate this device with other paging devices for use in zone paging. The particular zones are defined in the CyberData Paging Server and then each respective paging device uses its Multicast Configuration screen to create the association using the defined Multicast IP addresses and ports created in the paging server. Essentially by doing this, the device listens to all packets and reacts to those having the multicast information matching that defined above.

Zone's 9, 8, and 7 were setup for access in the example above. A user would dial the extension associated with the paging server, hear a tone, dial the zone number desired, hear a 2nd tone and speak their message, which would then be broadcast by all devices having address/port attributes associated with the zone the user entered. See CyberData's reference manual for a full explanation of the configuration.