

SIP Integration

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U.S.A

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OVERVIEW

IP devices from AND will register as a SIP endpoint on a SIP server. For additional functionality, IPClockWise now features the capability to integrate with a SIP server. This guide will describe how to register IPClockWise as a SIP extension and configure pre-defined alerts that can trigger via dial codes, as well as how to setup SIP paging.

To gain access to this functionality, you must configure the IPClockWise software with a Pro X license. To verify your current license type in use, right-click on the *Clockwise Settings* button, and click on *Configure License* to see the dialog box below.

For more information on how to obtain an Extended license, please contact Advanced Network Devices support. Email to <u>support@anetd.com</u> or call 847-463-2237.

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REGISTRATION

Once configuring the license correctly as described above, you must register IPClockWise to a SIP server. We offer support for Cisco, 3CX, Avaya, ShoreTel, Asterisk, and many others. Click the IPClockWise *Settings* button, and select the **SIP** tab.

Settings												
Appearance	Behavior	Services	Security	Permissions	Streams	Email	Twitter	Features	SIP	InformaCast		
Local SI	IP Phor	ne Lines		. (Add Nev	N			,			
Display Nar	me Us	er Name	Reg Na	me		Password		Serv	er			Port
Asterisk	23	3	233			200		10.1	0.7.168			5060
4567	45	67	(officers)			1054-05		digita	aldesignco	prporation.nort	h.3cx	5060
_												
					ок	Ca	ncel					

Click on *Add New* at the top, and configure the SIP account information as detailed below.

🚽 Configure Local Sip Ac	count	
Display Name:	Ext 233]
User Name:	233	
Registration Name:	233	
Password (Secret):	233	
Server IP or Host Name	10.10.7.168]
Server Port	5060]
	Sav	/e Cancel

• Display Name

Friendly name to identify the extension in the IPClockWise Settings list.

• <u>User Name</u>

Login ID for the SIP server, which typically matches the Extension number to dial to reach the IPClockWise software.







- <u>Registration Name</u> Used for authentication with the SIP server.
- <u>Password</u> Used for authentication with the SIP server.
- <u>Server IP or Host Name</u>
 IP address or DNS Host Name where the SIP server resides.
- <u>Server Port</u>

Communications port for all SIP traffic between IPClockWise and the SIP software. (Default = 5060)

Select the *Save* button to commit the account information to the list of *Local SIP Phone Lines*. The user can then right-click on this existing SIP identity to Add, Edit or Delete that line.

Settings										
Appearance	Behavior	Services	Security	Permissions	Streams	Email	Twitter	Features	SIP	
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Display Nan	ne Us	er Name	Reg Name		Passw		ł	Serv	er	Port
Ext 233	23	3	233			233		10.1	0.7.168	5060
_				Add Si	p Line					
				Edit Si	Line					
				Delete	Sip Line					

Click *OK* on the *Settings* dialog box to process the changes. The user should immediately see a successful registration reported to the Status bar at the bottom of the IPClockWise main window, as well as an entry in the Log file.

Event:15 Nov 2016 09:51:26: Registration Succeeded!. Line: 233@10.10.7.168:5060. State: RegistrationSucceeded.

Event	Log	
Туре	Tìme	Message
Event	15 Nov 2016 09:51:26	: Registration Succeeded!. Line: 233@10.10.7.168:5060. State: RegistrationSucceeded.

If registration does not succeed, first open up the *SIP Settings* to verify it includes correct information. Then, check your PBX software to ensure correct setup of the extension.

Note: The IPClockWise software supports only two SIP Phone Lines at any given time.







SECURITY SETTINGS

When dialing IPClockWise, the caller will receive a prompt for a security code. Define this code in IPClockWise *Settings* under the **Security** tab. Enter a numeric value in the *SIP Security Code* field, and press *OK* to save the changes. (*Default = 847*)

Se	Settings										
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	Device Pa	ssword:				•••••					
	SIP Securit	ty Code:				847	* *				

If the caller enters a correct security code, IPClockWise will authorize the user and prompt for a trigger code, which activates an alert as described in the next section. If the caller enters an incorrect security code, IPClockWise will read back the number dialed, to allow the user to enter another code.

CREATING ALERTS

The IPClockWise SIP registration allows for triggering most functions within the software and sending audio/text to AND endpoints. This section will describe how to create those pre-defined alerts.

Go to the Alerts tab in the main IPClockWise window, and click on the Add an Alert button (see below).

Chimes Events Alerts	Stop	watch Timer Scoreboard 🏺
Run Alert		Add an Alert

This brings up a dialog box which allows the user to setup all functions to trigger. Configure all desired options within the Alert, then look for the dark gray Trigger section. Use the drop-down menu to choose "SIP Code" as the *Source*, and type or select a numeric value in the *Channel or sub-type* field, which will define the code to dial to activate this alert (see below).

T .		Source	Channel or sub-type		State		Extra Actio	n
Ingger	😑 SIP (Code	1	-	Sent	-	None	~







Note: State and Extra Action will show as disabled for this Trigger Source type.

Click *OK* to save the Alert. You can make multiple alerts with the same SIP trigger code. Any and all alerts that match the dialed code will activate simultaneously.

SIP PAGING

To arrange SIP paging using IPClockWise:

- 1) Go to the Endpoints tab, and click the Add New Endpoint button near the top of the list.
- 2) Click Add SIP Device, and enter the extension number for the caller performing the live page.
- 3) Click Save, and this SIP endpoint will appear in your list.
- 4) Create an Alert to facilitate the live page through IPClockWise as shown below.

Them eventualiste								
	Name			Category				
SIP Live Pag	ing					-		5
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Audio/Te	ext 😁 Extended Pre	sentation \varTheta Flashers	s 🖨 GPIO 🖨 Timer	Brightness	s 😁 En	able Categori	es 💮 Clock	Appearance
			Audio					
	Set the Volume I	evel at which the p	page will be sent					
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Туре	Message			Fore Color	Back	Color	Font	Brightne
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	Repeat	Pause between re	epeats N	Node Lines	Speed			
Repeat	1 times 🔻	0 seconds 🛪	- Scroll Aut	o 🔻 🛛 👙	6 🖨			
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At this point, you can dial the extension assigned to IPClockWise from a SIP phone and you will be prompted to speak. (Note: depending on network latency there may be a brief delay before be prompted to speak on the handset of the SIP Phone.)







CALLING IPCLOCKWISE

Use any SIP phone registered to the same server as IPClockWise to dial the extension configured in the Registration section above. IPClockWise will immediately answer and prompt the caller for the SIP security code (as configured in the Security Settings section above), followed by the # symbol. The caller does not need to wait for the voice prompt to complete before entering the security code. If incorrect, IPClockWise will prompt the caller to try again. If correct, IPClockWise will prompt the caller to try again. If correct, IPClockWise will prompt the caller to complete before allers configured in the Creating Alerts section above.

IPClockWise will accept codes whether or not they have a corresponding alert, and then prompt the caller if they wish to enter in additional SIP trigger codes. The caller may hang up at this point to free up IPClockWise to accept another call.

WINDOWS TEXT TO SPEECH (OPTIONAL)

IPClockWise uses the default Windows Text to Speech voice selection for all SIP interactions and user prompts. If desired, the user may navigate to the Windows Control Panel to choose a different voice. Options may vary depending upon the version of the operating system running on the IPClockWise computer.

	Speech Properties	? ×
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