

Clockwise Campus SIP Integration

Version 2.1

11/8/2018

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U.S.A

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Static Electric Warning



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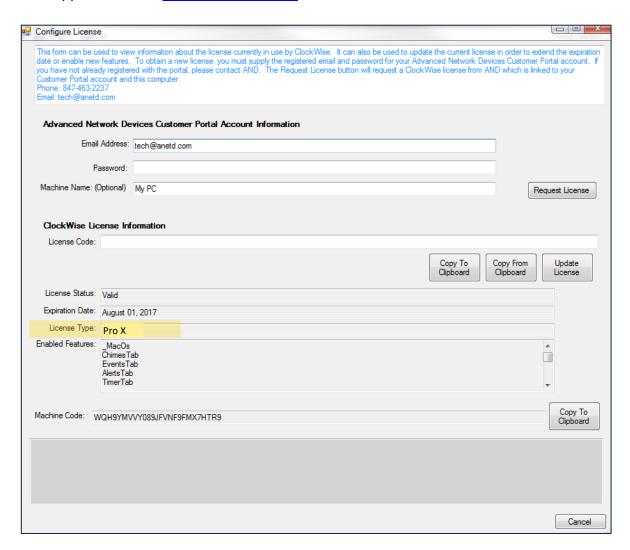


OVERVIEW

IP devices from AND will register as a SIP endpoint on a SIP server. For additional functionality, ClockWise Campus now features the capability to integrate with a SIP server. This guide will describe how to register ClockWise Campus 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 ClockWise Campus 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 support@anetd.com or call 847-463-2237.





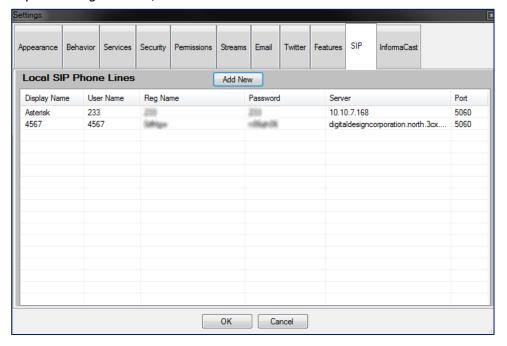


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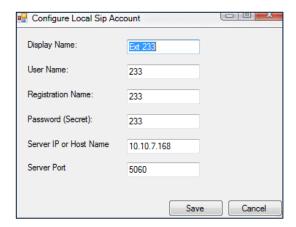


REGISTRATION

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



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



- <u>Display Name</u>
 - Friendly name to identify the extension in the ClockWise Campus Settings list.
- <u>User Name</u>
 Login ID for the SIP server, which typically matches the Extension number to dial to reach the ClockWise Campus software.





SIP Integration



• Registration Name

Used for authentication with the SIP server.

Password

Used for authentication with the SIP server.

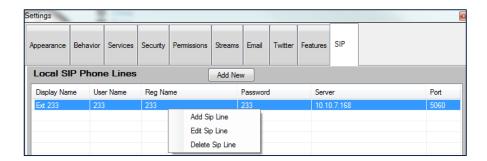
• Server IP or Host Name

IP address or DNS Host Name where the SIP server resides.

Server Port

Communications port for all SIP traffic between ClockWise Campus 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.



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 ClockWise Campus 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: Registration Succeeded.



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 ClockWise Campus software supports only two SIP Phone Lines at any given time.



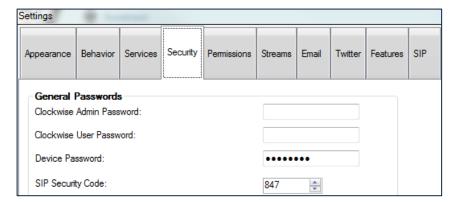


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SECURITY SETTINGS

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



If the caller enters a correct security code, ClockWise Campus 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, ClockWise Campus will read back the number dialed, to allow the user to enter another code.

CREATING ALERTS

The ClockWise Campus 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 ClockWise Campus window, and click on the Add an Alert button (see



below).

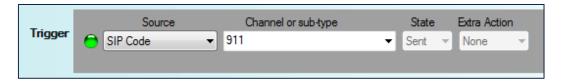




SIP Integration



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).



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 ClockWise Campus:

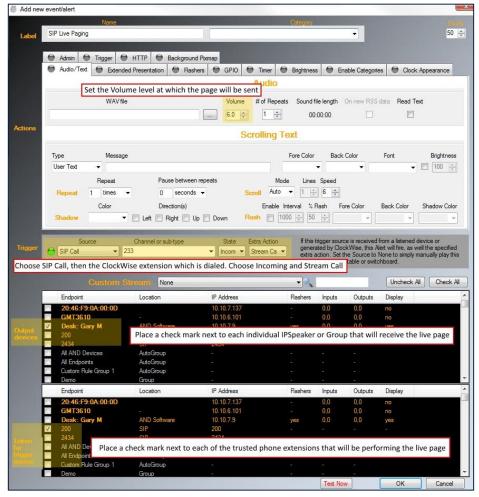
- 1) Go to the **Endpoints** tab, and click the *Add New Endpoint* button near the top of the list.
- 2) Click Add SIP Device, and enter the extension number for the caller performing the live page.
- 3) Click Save, and this SIP endpoint will appear in your list.











At this point, you can dial the extension assigned to ClockWise Campus 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 CLOCKWISE CAMPUS

Use any SIP phone registered to the same server as ClockWise Campus to dial the extension configured in the Registration section above. ClockWise Campus 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, ClockWise Campus will prompt the caller to try again. If correct, ClockWise Campus will prompt the caller to enter the SIP Trigger code followed by the # symbol, which will activate alerts configured in the Creating Alerts section above.







ClockWise Campus 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 ClockWise Campus to accept another call.

WINDOWS TEXT TO SPEECH (OPTIONAL)

ClockWise Campus 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 ClockWise Campus computer.

