[AN033]

ADVANCED NETWORK DEVICES

Interfacing AND Devices with Mobotix Cameras

Version 2.0

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Static Electric Warning

TROUBLESHOOTING AND ADDITIONAL RESOURCES

Complete Support Site with User Guides & Help:	http://www.anetdsupport.com/
Additional App Notes:	http://www.anetdsupport.com/AppNotes
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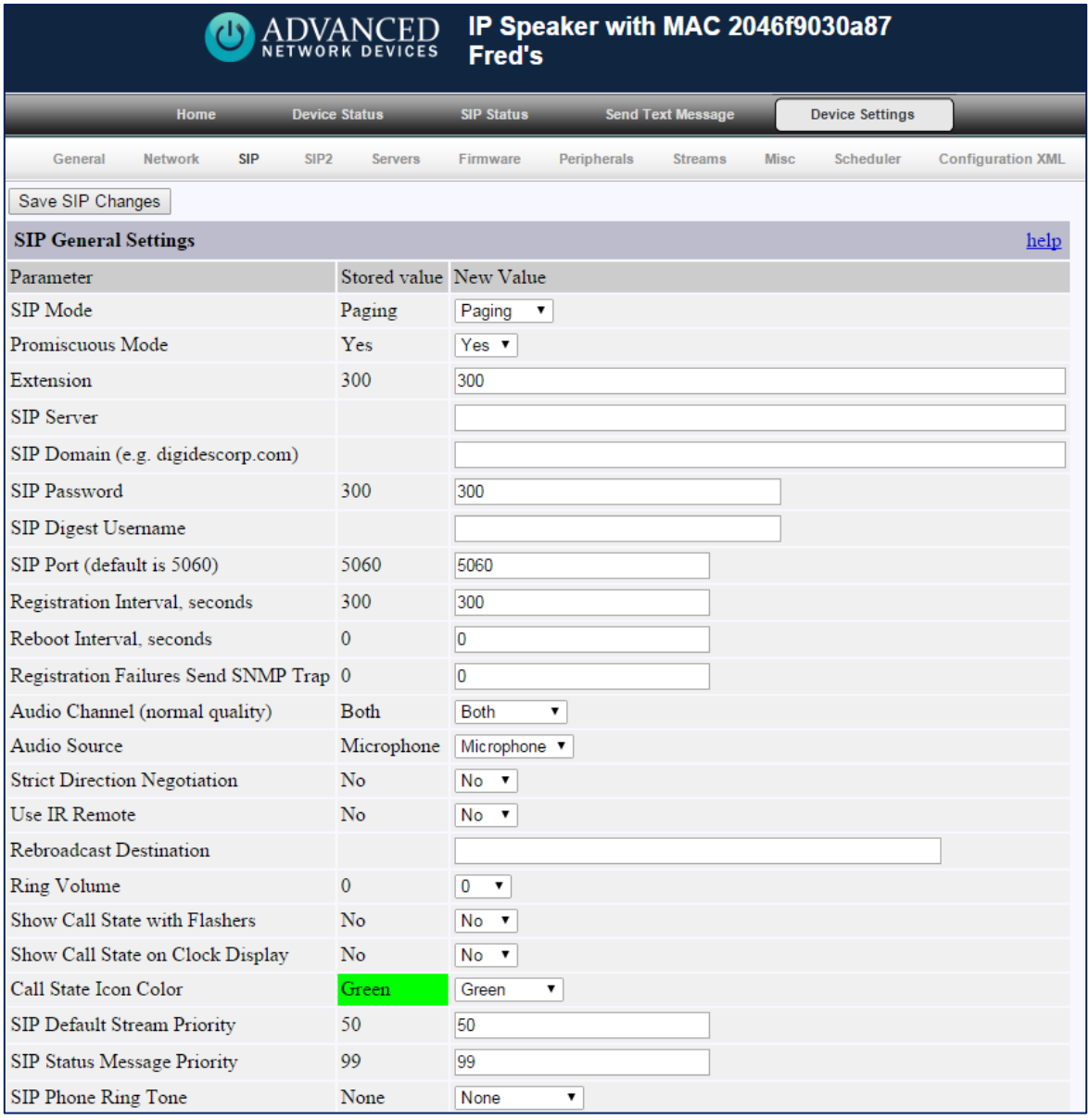
OVERVIEW

This application note describes how to interface an AND device with a Mobotix Q25M camera. Other Mobotix cameras have similar interfaces. To send audio from the Mobotix camera to the devices, the system will establish a SIP call, which will send the audio using the standard SIP protocols. This feature does not require a SIP server, as it runs in peer-to-peer mode.

CONFIGURING THE AND DEVICE

Configure the AND device via **Device Settings → SIP**. Below shows a typical configuration.



You must set *Promiscuous Mode* to "Yes" so that the Mobotix camera can command the device to listen to a call (and not just a valid SIP server).

This example includes no SIP server. This setup causes the device to not register with any SIP server, which works fine for this application. If the device registers with a SIP server on the network, this functionality still works without complication.

The Mobotix menu will use the device's extension setting (300 in this example).

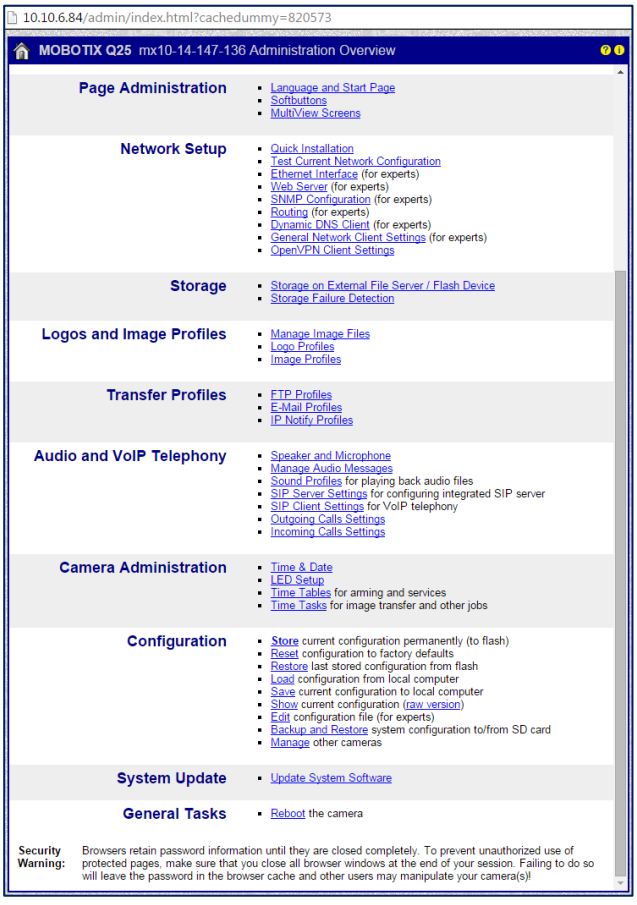
CONFIGURING THE MOBOTIX CAMERA

The Mobotix Camera has two main menu interfaces: the *Admin Menu* and the *Setup Menu*.

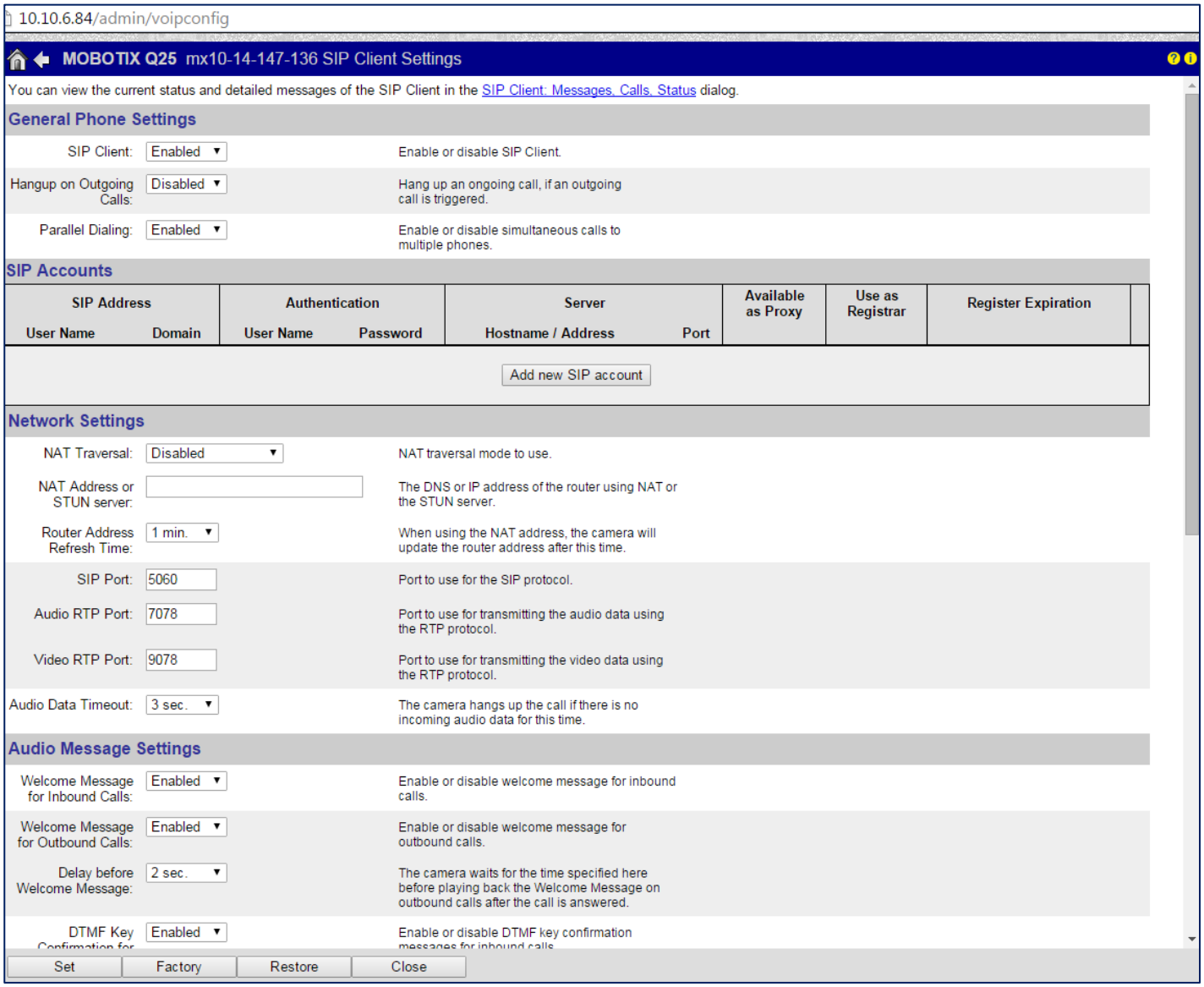
Accessing the *Admin Menu* requires entry of the Camera's valid account and password. Factory settings set *user* to "admin" and *password* to "meinsm".

Mobotix Camera SIP and Calling Subsection

1. Pull up the *Administration Overview* menu (see below).

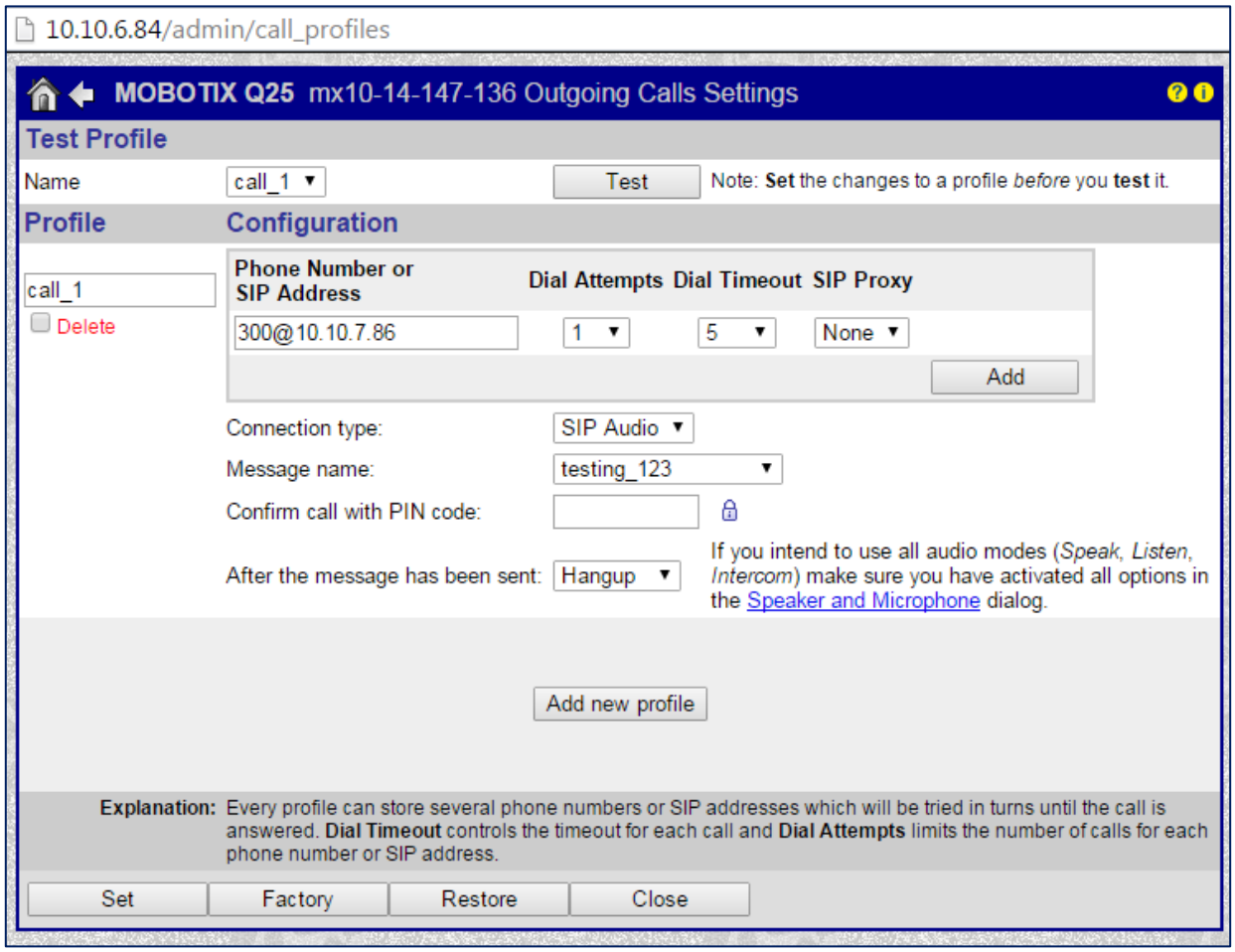


2. Click on *SIP Client Settings* (see below).



Notice that the *SIP Client* shows as "Enabled", with no set SIP account. This configuration causes the Mobotix Camera to operate in peer-to-peer mode. The default of 5060 for SIP Port matches the device's setting. Make sure to set the Audio Codec to PCMU. De-select G.722 if checked.

3. Go to the "Outgoing Calls Settings" (see below).



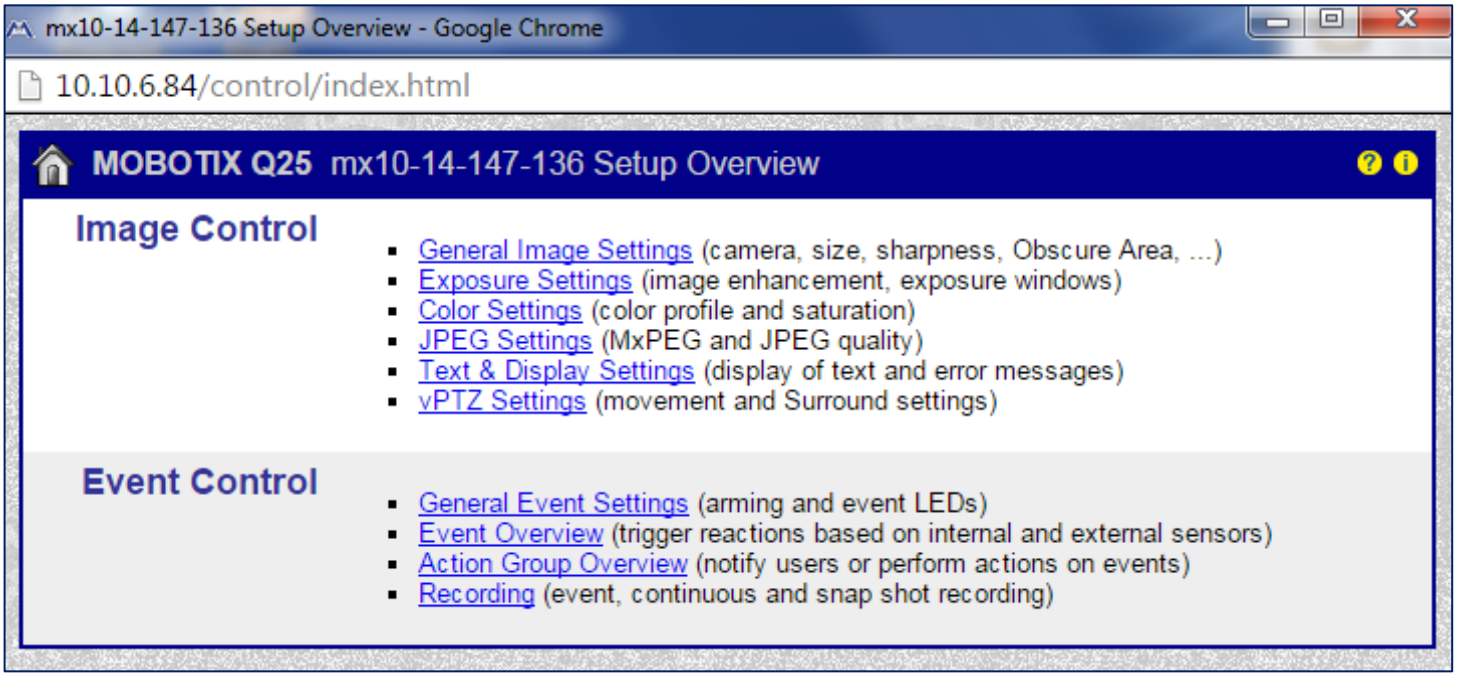
This configuration tells the Mobotix camera that whenever "call_1" becomes activated, it should place a call to the device at the designated SIP address (in this example 300@10.10.7.86). The *message name* (in this example "testing_123") indicates prerecorded audio stored on the Mobotix camera.

Note: In this example, the device uses the IP address 10.10.7.86. In a typical installation, the devices would acquire their IP addresses via DHCP, and their addresses might change. For this setup to work consistently, you must set up the DHCP server to assign speakers fixed IP addresses.

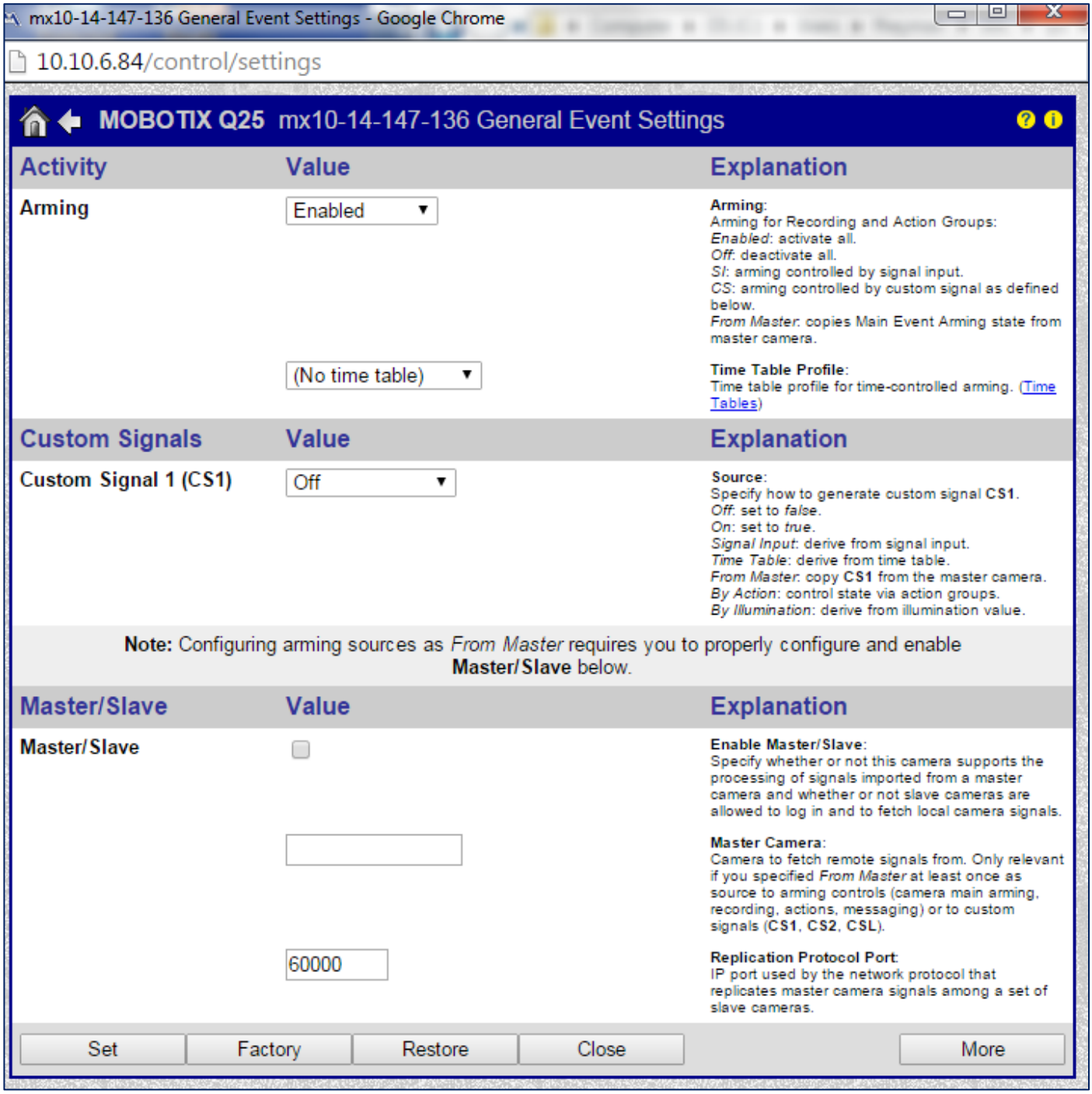
At this point, the configuration of the Mobotix camera should enable it to make a call to the AND device. Test it by clicking the *Test* button at the top, which should call the device and play the audio.

Mobotix Camera Triggering

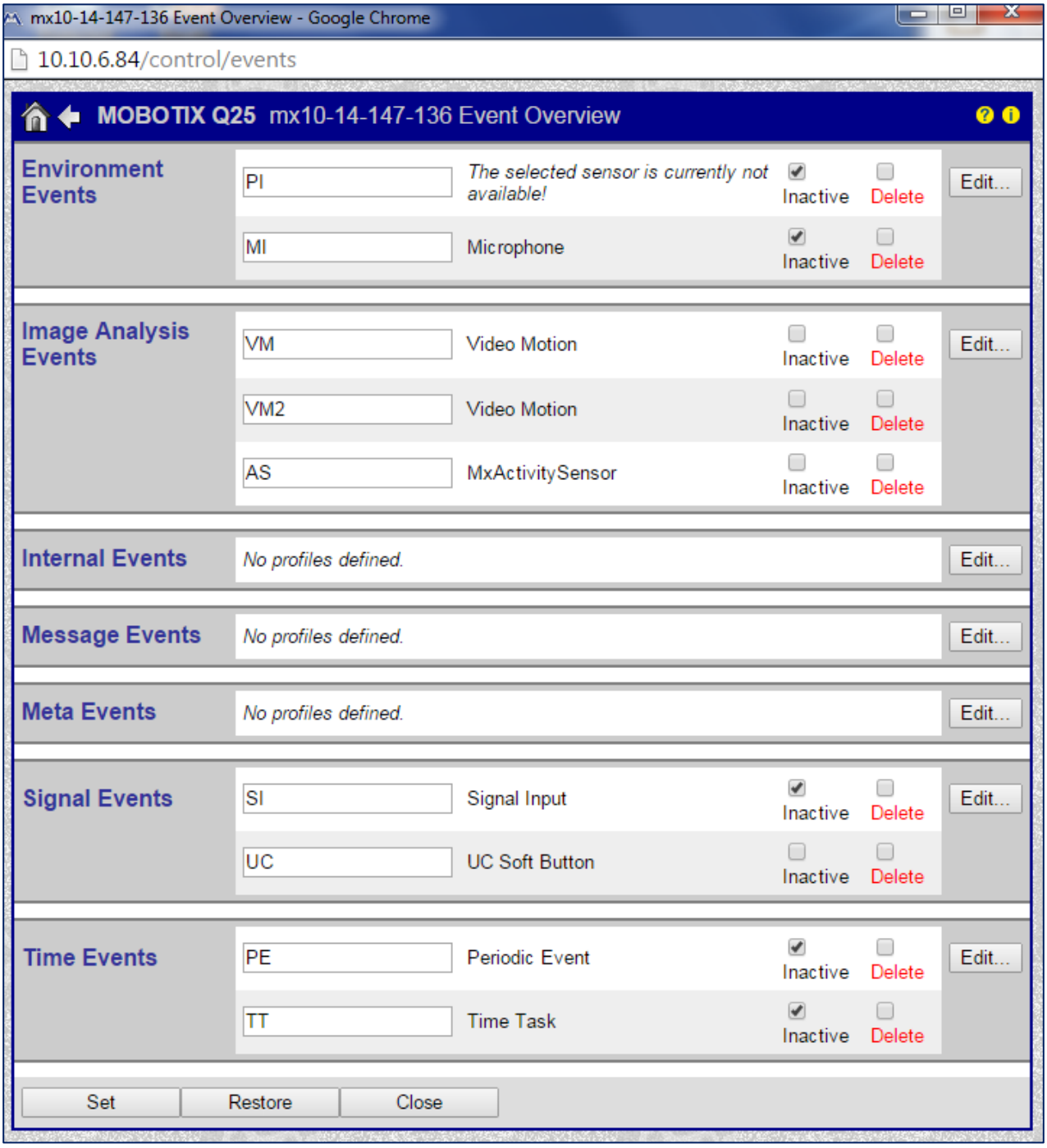
To make the Mobotix camera trigger a call and play audio to the AND device, you must configure settings in the *Setup Overview* menu (see below).



1. Click on *General Event Settings* (see below). Make sure *Arming* shows as "Enabled".

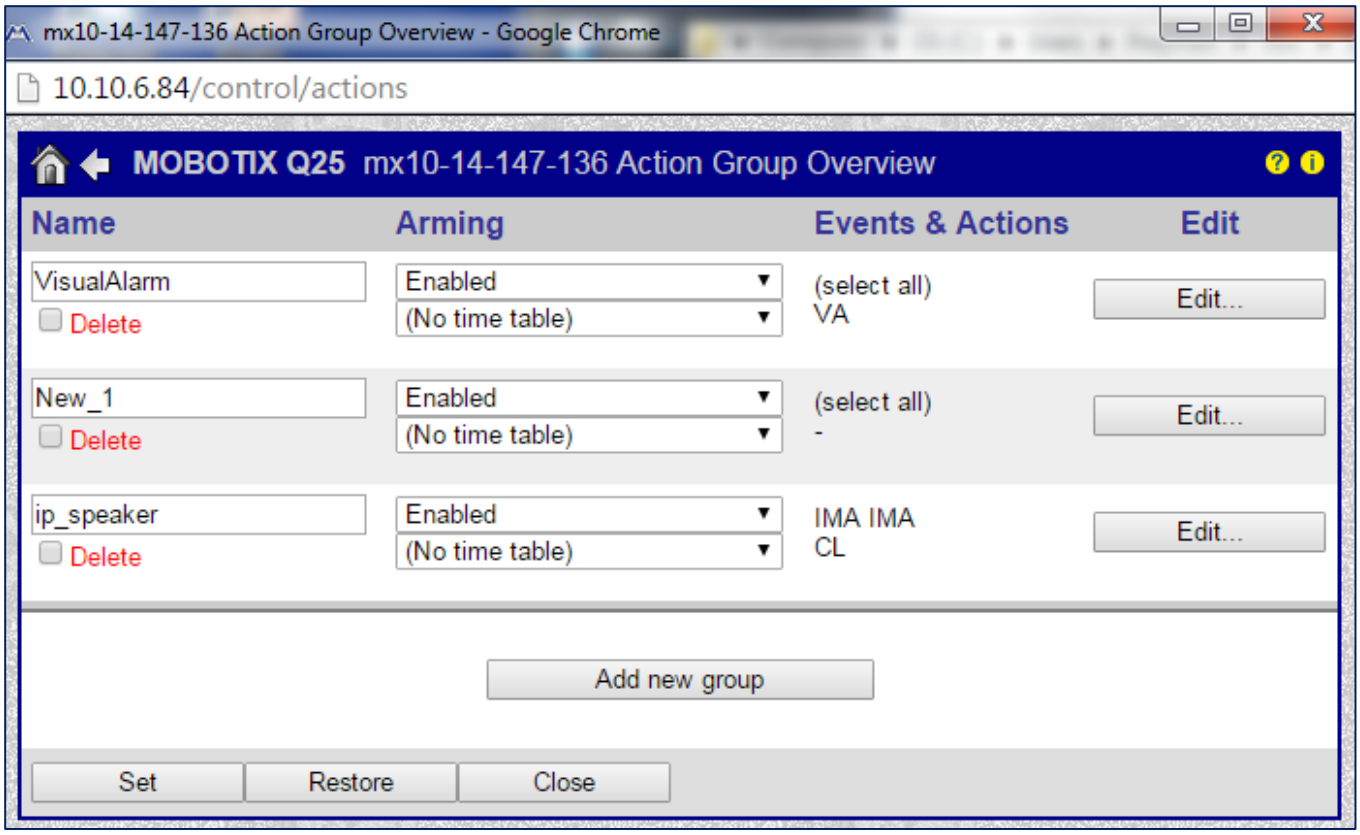


2. Click the *Event Overview* menu (see below).



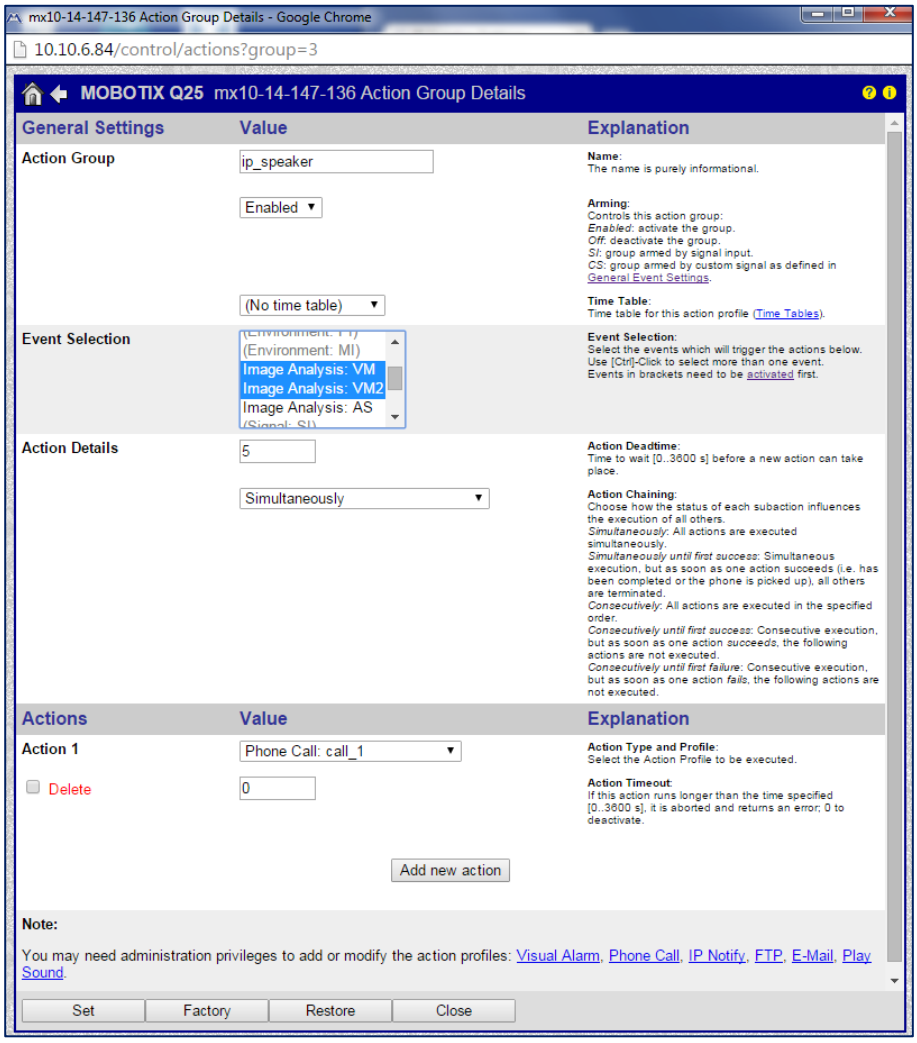
This example uses “VM” and “VM2”, the video motion triggers, to trigger the call, so make sure to set them to "enabled", and make sure the *Inactive* boxes show as unchecked.

3. Go to the *Action Group Overview* menu (see below).



This menu shows a previously-created action group called “ip_speaker”, which responds to Events labeled as IMA and IMA (the video motion triggers).

Note: We created the action group "ip_speaker" by hitting the *Add new group* button, and then we edited those details by hitting the corresponding *Edit..* button, which leads to the *Action Group Details* menu (see below).



Note the key values:

- *Arming*: Set to "Enabled"
- *Event Selection*: Set to VM and VM2 in this example (video moition will trigger the call)
- *Actions*: Press the *Add New Action* button, choose "call_1" to occur, which we set up earlier as the outgoing SIP call

OPERATION

After setting up the AND device and Mobotix camera, motion detected by the camera will trigger a SIP call to the device, sending audio.