# KEYWATCH Mobile for iPhone Quick Start Guide

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## Introduction

Congratulations on choosing KEYWATCH. Our state-of-the-art officer-safety software for mobile devices takes advantage of the flexibility and power of today's smartphones and other mobile devices to provide audio, camera, tracking, and remote mobile device management capabilities to the law enforcement, public safety, security, and special military communities.

hotMIC Audio App	Captures audio picked up by the KEYWATCH mobile device's microphone and records high-quality audio to the device's internal storage and/or streams the audio to the KEYWATCH Remote Operations Center (ROC) for remote, real-time monitoring and/or recording. All recordings have digital signatures for evidentiary authentication.
hotCAM Photo App	Takes photos using the front and/or rear-facing camera(s) at user- configurable intervals and resolutions. These time-lapse photos can be stored to the mobile device's internal storage and/or streamed to the ROC for remote, real-time monitoring and/or recording. All recordings have digital signatures for evidentiary authentication.
vidREC Video App	Records video using the front and/or rear-facing camera at user- configurable resolution. Video is stored to the mobile device's internal storage (but not streamed to the ROC). vidREC requires that the device be licensed for hotCAM. All recordings have digital signatures for evidentiary authentication.
geoTRACK Location App	Captures the mobile device's current GPS location at user-configurable time and/or distance intervals. The location can be stored on the mobile device and/or streamed to the ROC for remote, real-time monitoring using Google Maps® mapping and imagery and/or recording. All recordings have digital signatures for evidentiary authentication. Custom maps can be created using location data with third party mapping programs.
remoteTRIGGER App	Allows a ROC user to remotely activate or deactivate consensually armed hotMIC, hotCAM, vidREC, and/or geoTRACK apps. remoteTRIGGER may not be available in all countries. Please contact your dealer for up-to-date information regarding availability.

#### **KEYWATCH Mobile Device Features**

remoteSETTINGS App	Allows a ROC user to remotely manage the settings on consensually armed hotMIC, hotCAM, vidREC, and/or geoTRACK apps. remoteSETTINGS requires that the device be licensed for remoteTRIGGER, and, like remoteTRIGGER, may not be available in all countries. Please contact your dealer for up-to-date information regarding availability.
Distress and Reverse Distress Signals	Allows the KEYWATCH mobile device user to send a distress signal to the ROC, where it can be viewed by the monitoring team. Conversely, the Reverse Distress Signal allows the monitoring team to send a distress signal to the KEYWATCH mobile device user.
Key Fob Remote	Allows a KEYWATCH mobile device user to remotely activate or deactivate hotMIC and hotCAM, and send/receive distress signals to/ from the ROC without directly accessing the mobile device. To learn more about the key fob and its operation, see Appendix A: Key Fob Operation.

This Quick Start Guide assumes that the KEYWATCH Remote Operations Center (ROC) server has already been installed and configured, and KEYWATCH software has already been installed on your mobile device. This Quick Start Guide is organized into the following sections:

- 1. Setting Up an Account
- 2. Activating your KEYWATCH mobile device
- 3. Using KEYWATCH
- 4. Arming a KEYWATCH Application for remoteTRIGGER and remoteSETTINGS
- 5. Using remoteTRIGGER and remoteSETTINGS from the ROC
- 6. KEYWATCH App Details
- 7. Best practices when going on an operation

More in-depth information about using your KEYWATCH mobile device and the ROC can be found in the KEYWATCH for iPhone and KEYWATCH ROC Server User Manuals.

### Step 1. Setting Up an Account

If your KEYWATCH mobile device has already been partnered with a ROC server and you have an account on that server, you may proceed to Step 3 <u>Using KEYWATCH</u>.

If your KEYWATCH mobile device is to be paired with our Demo Server, please send an email to <a href="mailto:support@keywaveproducts.com">support@keywaveproducts.com</a> with the subject "Demo ROC Account Request" and include the following:

- Your name
- Valid email address to use as an account login
- The KEYWATCH mobile device's serial number (found at Settings > General > About)

Note: If your device is to be partnered with your own ROC server, please contact your ROC server Administrator with the same information to have them create an account. ROC Administrators can refer to the KEYWATCH ROC Server - User Manual Appendix A: Administrator Actions to add new users.

Once your account has been created, open a browser (we recommend Mozilla Firefox 60 and above, Google Chrome 67 and above, or Safari 11 and above), and navigate to your ROC website to log in. Once logged in, you might wish to change your password for increased security. You can do this via the drop-down menu in the top-right corner where you should select 'Account Settings'.

Devices mobilePBX								Narcotics Agent 1
triggered, <ul><li>armed, <ul><li>ur</li></ul></li></ul>	narmed, 🔍 unlicensed					Update	e (t: 06	Account Settings
Devices								Logout
Successfully updated device	ce settings. Command being issued	to device.						
Device Name 🔺	Phone Number	Last Contact	hotMic	hotCAM	geoTrack	Battery Level		Device Setting
Narcotics Device 1	(843) 822-9884	3 minutes ago	Θ	0	$\bigcirc$	20%		Device Setting
Narcotics Device 2	(202) 615-7944	4 days ago	0	0	0	20%		Device Settin

In addition to changing your password, you may also change your other account settings, including password and notifications, on this page.

Devices mobilePBX	Narcotics Agent 1 👻
	Updated at: 05/30/2018 at 11:28:42 (EDT)
Editing: Narcotics Agent 1	Search
User Information	
Name	Narcotics Agent 1
Email	narcoticsagent1@us.gov
Manage Passwords	
Enter Password	
Re-enter password	
Notification Options	
Send notifications via	EMAIL \$
	Receive low battery notifications
Custom Timezone Selection	
Select a custom timezone	America/New_York
Update	User

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## Step 2. Activating your KEYWATCH Mobile Device

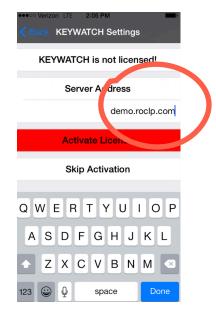
If your device has already been partnered with the ROC, you may proceed to Step 3 <u>Using</u> <u>KEYWATCH</u>.

For security reasons, a series of actions must happen in order for your KEYWATCH mobile device and ROC server to work together.

- 1. TELLING the KEYWATCH mobile device which ROC server to contact,
- 2. The ROC Administrator VALIDATING the mobile device after it initiates contact, and providing its initial settings, and
- 3. The KEYWATCH mobile device user ACCEPTING those settings.

In order to tell the KEYWATCH mobile device which ROC server to contact, first enter your SAM (special access mode) code on your device and tap the 'Settings' icon to enter KEYWATCH Settings (KW Settings). The default SAM code is: *Up*, *Up*, *Down*, *Down*, *Lock/ Power*. If your SAM code does not appear to work, please consult with your ROC Systems Administrator for assistance.

Once you have entered your SAM code successfully, you may be prompted to activate KEYWATCH on your device before continuing. Enter your ROC Server address, without the leading '<u>https://www</u>' address details (e.g., demo users might enter 'demo.roclp.com'), and tap 'Activate License'.



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If you are not automatically prompted to enter the server address, navigate to KW Settings > General and enter in your Server URL at the top under 'Server Address' without the leading '<u>https://www</u>' address details (e.g., demo users might enter 'demo.roclp.com').

Then, press the 'back' button and navigate to KW Settings > Phone Management. Scroll down and tap 'Activate License' at the bottom of the screen. Assuming your device has connectivity to the Internet, this starts the process of enabling the mobile device and the ROC to communicate.

oo Verizon LTE 2:07 PM ■→ Back General	Constant Sector Verizon  Sector  Sector Verizon  Sector Verizon  Sector Verizon
Server Address demo.roclp.com	Serial Number DNPNR6RTG
Alert Dialog	iOS Version
Badging	KEYWATCH Version 4
Panic Disables Airplane	hotMIC Unlicer
Panic Triggers Apps	hotCAM Unlicer
Enable Reverse Panic	vidREC Unlicer
	geoTRACK Unlicer
	remoteTRIGGER Unlicer
ASDFGHJKL	remet Littings
Z X C V B N M <	Activate License
23 😂 🖳 space Done	Upload Debug Log

If you are using our Demo Server, please contact your dealer or send an email to support@keywaveproducts.com with the subject 'Demo ROC Device Activate' and include the following:

- Your name
- The email address you provided when requesting an account
- The KEYWATCH mobile device's serial number (found at Settings > General > About)
- Details that will help us corroborate that you are a legitimate KEYWATCH user

The second set of actions is performed by the ROC Administrator, who must authorize your KEYWATCH mobile device, assign the KEYWATCH app licenses, assign the mobile device to you and/or your group, and set the trigger number(s) if you are using remoteTRIGGER, remoteSETTINGS, and/or the key fob for remote access to your mobile device.

The third, and final action is for the KEYWATCH mobile device user to accept the new KEYWATCH settings. To do so, go to the KEYWATCH mobile device, re-enter the SAM code

followed by tapping the Settings icon to get into KEYWATCH Settings, then go to KW Settings > Phone Management, and tap 'Activate License' to update your device.

Note: Again, if your device is to be partnered with your own ROC Server, please contact your ROC Administrator to have them associate your device with a group and assign its licenses. ROC Administrators can refer to the KEYWATCH ROC Server - User Manual Appendix A: Administrator Actions for details on how to add new users.

You will next need to ensure that the device's Location Services and Call Waiting are correctly configured. To do this, go to Settings on your mobile device and then navigate to:

Settings > Phone > Call Waiting > OFF

- 1. Settings > Location Services and toggle the switch to 'ON ' and
- 2. Settings > Phone > Call Forwarding and toggle the switch to 'OFF'.

••••ः Verizon 🗢 2:23 PM 📶 Family Mobile 🗢 16:04 @ 🖇 90 % 🔳 Phone Call Waiting Privacy Location Services
 Call Waiting Location Services Location Services uses GPS, Bluetooth, and crowdsourced Wi-Fi hotspot and cell tower locations to determine your approximate location. About Location Services & Privacy. Share My Location Always Camera While Using > Chrome While Using > Maps While Using > Passbook Never > Siri & Dictation While Using > Weather Never >

Settings > Location Services > ON

Your device should now be ready to use with the ROC server.

## Step 3. Using KEYWATCH

You may enter KEYWATCH Settings (KW Settings) by entering the SAM code (Special Access Mode) (default: *Up*, *Up*, *Down*, *Down*, *Lock*) and tapping the 'Settings' icon. You may adjust settings for any KEYWATCH application here. Please refer to Step 6 <u>KEYWATCH Application</u> <u>Details</u> for details on each application.

There are three ways to trigger a KEYWATCH application ON or detrigger it OFF:

- On your KEYWATCH mobile device, enter the SAM code and tap the relevant Apple icon (Voice Memos for hotMIC, Camera for hotCAM, or Maps for geoTRACK). Note: the SAM must be entered each time you (de)trigger a KEYWATCH application.
- On your KEYWATCH mobile device, navigate to KW Settings > [hotMIC/hotCAM/ geoTRACK]. Toggle the Triggered setting to the desired position. Your changes will be implemented without further action on your part.
- On your ROC website, use remoteTRIGGER if the device has already been consensually armed. Arming is accomplished on the KEYWATCH device through KW Settings (please see Steps 4 <u>Arming a KEYWATCH Application for remoteTRIGGER and remoteSETTINGS</u> and 5 <u>Using remoteTRIGGER and remoteSETTINGS</u> from the ROC).

To set an alert dialog to pop up and notify you when a KEYWATCH app is (de)triggered, go to KW Settings > General > Alert Dialog and toggle the switch to 'ON'. When a KEYWATCH app is (de)triggered, either on the mobile device itself, or remotely by the ROC or key fob, an alert will appear notifying you.

To configure a KEYWATCH mobile device so that you can see at a glance whether an app is triggered, go to KW Settings > General >Badging and toggle the switch to 'ON'. When a KEYWATCH app is triggered and operating normally, a small red circle badge with a number '1' will appear on the top-right corner of the icon associated with the KEYWATCH app (i.e., Voice Memos for hotMIC, Camera for hotCAM, and Maps for geoTRACK).





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To view and monitor the data being sent by the KEYWATCH device on the ROC website, log into your account on your ROC, and once logged in click your device name and then click on the 'hotMIC', 'hotCAM', or 'geoTRACK' icon in the navigation bar.

Devic	es mobilePBX				Narcotics Agent 1 🔻
hotM	IC hotCAM geoTRACK		·		Updated at: 06/06/2018 at 14:26:11 (UTC)
	Narcotics Device 1	hotMIC	hotCAM	geoTrack	Search Device Settings

To securely download the recorded evidence from the device, use our free KEYWATCH Extractor Windows software application, and/or burn it directly to an optical disk.

You must first download Extractor from the following web address and install it on your Windows computer, preferably using Administrator privileges:

- To securely download files to your computer to write to CD or DVD at a later date, you will need KEYWATCH ISO Extractor, available at: https://repo.roclp.com/extractor/latest\_iso
- To securely download files directly to a CD or DVD without a copy being saved to your computer, you will need KEYWATCH Optical Extractor, available at: <u>https://repo.roclp.com/</u><u>extractor/latest\_optical</u>

# Step 4. Arming a KEYWATCH App for remoteTRIGGER and remoteSETTINGS

If you are not using the remoteTRIGGER and remoteSETTINGS capability, you may proceed to Step 6 <u>KEYWATCH Application Details</u>.

The monitoring team will be able to (de)trigger and/or adjust settings from the ROC for any KEYWATCH App that is consensually armed on the KEYWATCH mobile device, depending on whether remoteTRIGGER and remoteSETTINGS are licensed on the device. Please note that the remoteTRIGGER and remoteSETTINGS functionality may not be available in all countries due to national-level firewalls or technical issues with observing international telecommunications protocols, and in order to use remoteSETTINGS you must also have licensed remoteTRIGGER. Please contact your dealer for up-to-date information regarding availability in your area.

To give permission to ROC users to remotely (de)trigger or change other settings for a particular app on your device, you must enter KEYWATCH Settings (KW Settings) > [hotMIC/hotCAM/geoTRACK], and toggle Armed to 'ON'. Your changes will be saved automatically without further action.

••••∘• Verizon		•••••• Verizon  ≎ 2:32 PM 	mera)	•••••• Verizon 🖘 2:32 PM Karley Back geoTRACK (Le	ocation)
Triggered	$\bigcirc$	Triggered	$\bigcirc$	Triggered	
Armed	$\bigcirc$	Armed		Armed	
Streaming		Image Streaming		Streaming	
Recording		Image Recording		Recording	
Stream ID	78272	Video Recording	$\bigcirc$	Distance Beacon	
Channel	968181	Camera Side	Rear >	Distance (meters)	100
Key Code	587911	Front Resolution	480p >	Timer Beacon	
Sample Rate	40000 Hz >	Rear Resolution	480p >	Interval	10m 0s >
File Splitting		Image Quality	O	Error Alert Delay	5m 0s >
File Split Interval	1h 0m 0s >	Interval	5m 0s >		

Note: The monitoring team will only be able to monitor the data streams from the KEYWATCH apps if Streaming is also configured on your device in KW Settings. Go to KW Settings > [hotMIC/hotCAM/geoTRACK] and make sure the Streaming toggle switch is set at 'ON' for any of the apps that you wish to stream data to the server and the monitoring team.

# Step 5. Using remoteTRIGGER and remoteSETTINGS from the ROC

If you are not using the remoteTRIGGER and remoteSETTINGS capability, you may proceed to Step 6 <u>KEYWATCH Application Details</u>.

On the ROC website, click on your device name, and go to its **Device Settings** page.



Make sure you have correctly configured remoteTRIGGER:

- Choose the correct country code and verify/enter the phone number for your KEYWATCH mobile device.
- Choose the country code and enter a number for remoteTRIGGER.
- Click 'Update' and then confirm your changes.
- On the device, go to KW Settings > Phone Management and tap 'Activate License' to apply the changes.

Note: If you change a trigger number in the future, you must go back to KW Settings > Phone Management and tap 'Activate License' to apply the changes.

#### Using remoteTRIGGER

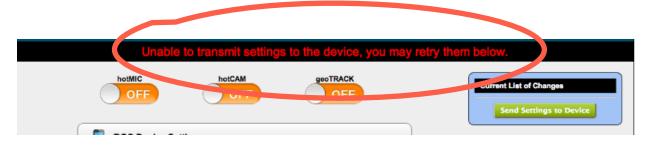
If an App is armed, the ROC **Device Settings** page will display a toggle switch to (de)trigger the App to 'ON' or 'OFF'. If it is not armed, the App will display '[Application] Not Armed' in its place and you will need to arm it directly from the device (see Step 4 <u>Arming a KEYWATCH</u> <u>Application for remoteTRIGGER and remoteSETTINGS</u>).



Toggle the button for each App to (de)trigger it, then click the green 'Send Settings to Device' button. The toggle buttons will be disabled while the settings are being sent. You will be updated on the device status in the text above the buttons.



If for some reason the remoteTRIGGER command cannot trigger the App(s), the ROC website will display 'Unable to transmit settings to the device', as shown below. This can happen if the device encounters network connectivity issues. You will need to toggle the button(s) to the desired settings and resend the command(s).



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#### Using remoteSETTINGS

If an App is armed, the ROC **Device Settings** page will display toggle switches and editable values to adjust the KEYWATCH App Settings, including to (de)trigger streaming and local recording, or both, details regarding the audio stream between the phone and the server (for hotMIC), image quality, capture interval, and geotagging availability (for hotCAM and vidREC), and distance and timer (i.e., time lapse) beacon intervals (for geoTRACK).

If the App is not armed, the Settings can still be viewed for trouble shooting purposes, but the ROC will not send any changes in the settings fields to the KEYWATCH mobile device, and you will need to arm the App directly from the device to adjust them from the ROC (see Step 4 Arming a KEYWATCH Application for remoteTRIGGER and remoteSETTINGS).

hotMIC (Audio) Se	ttings
Local Recording	OFF
Remote Streaming	ON
Stream IP Address	rocdev.rocip.com
Stream User	41998
Stream Password	23122
Stream Channel	48777
Error Alert Delay	(00 €)(10 €)(00 €) Current: 0 hours, 10 minutes, 0 seconds
Sample Rate	24 kHz 🔹
File Splitting	OFF
File Splitting Interval	(00 €) (10 €) (00 €) Current: 0 hours, 10 minutes, 0 seconds
hotCAM (Camera)	Settings
Remote Streaming	ON
Local Image Recording	OFF
Local Video Recording	OFF
Front Camera Resolution	(480p €) Current: 480p
Rear Camera Resolution	(720p ‡) Current: 720p
Image Quality	<u>56 %</u> Current: 56
Capture Interval	00 € ± 05 € ± 00 €) Current: 0 hours, 5 minutes, 0 seconds
Geotag with GPS Data	OFF
Error Alert Display	(00 €) (10 €) (00 €) Current: 0 hours, 10 minutes, 0 seconds
geoTRACK (Locati	on) Settings
Local Recording	OFF
Remote Streaming	ON
Distance Beacons	ON
Distance	100 meters(s) Current: 100 meters
Timer Beacons	OFF
Timer Interval	00 € 10 € 00 € Current: 0 hours, 10 minutes, 0 seconds
Error Alert Display	(00 \$)(10 \$)(00 \$) Current: 0 hours, 10 minutes, 0 seconds

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# Step 6. Sending and Receiving a Distress Signal to/from the ROC

#### Sending a Distress Signal from the KEYWATCH device to the ROC

By entering the special distress sequence (default is *Volume Down, Volume Up, Lock/Power Button, Volume Up, Volume Down*), a KEYWATCH mobile device user can cause an alert on the ROC. Users monitoring this device will receive an email, SMS message, or both, based on their notification preferences.

The ROC tab will display a flashing 'ALERT! ALERT! ALERT!' message to notify a ROC User that is currently active in another TAB of the web browser, the main **Devices** page will turn red to notify the ROC User of the alert, and all other pages related to the device will display an alert. The ROC User must click the link on the alert to dismiss it. Read-Only Users may not dismiss distress alerts.



#### Sending a Distress Signal from the ROC to the KEYWATCH device

If the KEYWATCH mobile device has been connected to a KEYWATCH key fob and has the reverse distress feature enabled, the ROC operator can also send a distress signal to the KEYWATCH device. In order to send the signal, navigate to the **Device Settings** page and press the red 'Send Distress to Device' button on the right immediately below the Google Map. Then, confirm that you want to send the distress signal.

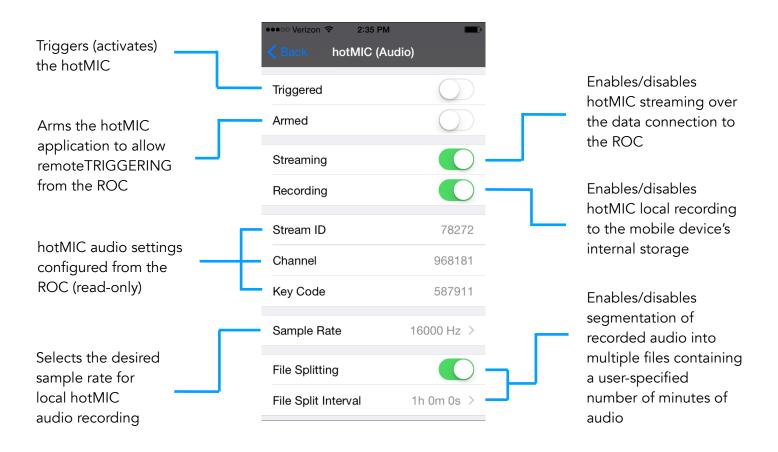


The KEYWATCH mobile device will vibrate subtly five times, or if the KEYWATCH device is connected via Bluetooth to a Key Fob, the Fob will vibrate five times.

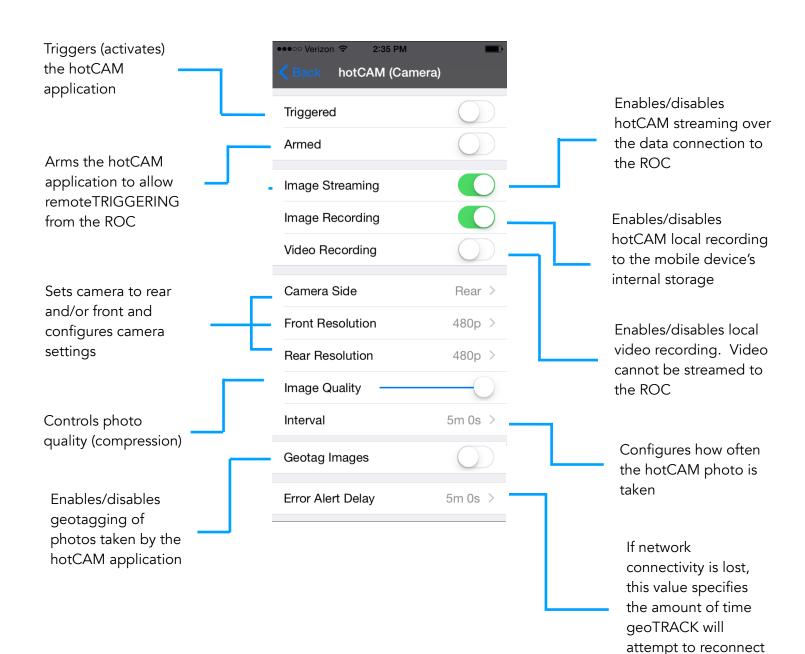
## **KEYWATCH App Details**

In the KEYWATCH Settings (KW Settings) on your KEYWATCH mobile device, you may configure the settings for each App and view detailed information about the KEYWATCH software and the device.

#### hotMIC Application



#### hotCAM Application



before notifying the

#### geoTRACK Application

Triggers (activates) the geoTRACK application application		•••••• Verizon 🖘 2:36 PM Back geoTRACK (L Triggered			Enables/disables geoTRACK
Arms the geoTRACK application to allow		Armed Streaming			streaming over the data connection to the ROC
remoteTRIGGERING from the ROC		Recording	<b>—</b>		Enables/disables geoTRACK local recording to the mobile device's internal storage
Enables/disables the Distance Beacon that generates a geoTRACK beacon when the device has moved more than the		Distance Beacon Distance (meters)	100		
		Timer Beacon Interval	1h 0m 0s >		Enables/disables the Timer Beacon that generates a
If network connectivity is lost, this value specifies the amount of time geoTRACK will attempt to reconnect before notifying the		Error Alert Delay	5m 0s >		geoTRACK beacon based on the Timer Interval

user

## **Best Practices**

When going on an operation, there are certain best practice procedures that should be followed:

- Field test the device in a situation resembling the intended operational use in advance of deploying it to become comfortable and proficient with its use. In particular, we recommend that you field test each KEYWATCH app using various settings, e.g.,
  - Test hotMIC using 8 kHz, 16 kHz, and 44.1 kHz sampling rates and review the recordings to get a feel for the difference. You will likely find that 8 kHz captures enough speech, particularly when the talkers are close to the device, to give good speech quality and minimum noise. You will also likely find that 16 kHz works well for talkers away from the device and that 44.1 kHz provides excellent audio but doesn't improve speech intelligibility enough to justify its storage and transmission demands.
  - Test geoTRACK and geoFENCE features in an area with poor coverage or carrier service and with beacons set to variable timing and distance triggers. For indoor use, we recommend that you set the distance to 100 meters because GPS accuracy indoors is only around that figure and setting it any lower results in sending unnecessary beacons and geoFENCE reports.
  - Test hotCAM at various time-lapse trigger rates of streaming images to the ROC (e.g., every 5 seconds versus every 1 minute) and at various qualities (i.e., compression rates). Find a balance between operational needs of photo frequency, storage demands, and communication bottlenecks out to any team members remotely monitoring the operation.
  - Members of the monitoring team should also practice using remoteTRIGGER and remoteSETTINGS from the ROC and be comfortable with handling delays and momentary loss of data connection to the KEYWATCH mobile device due to gaps in cellular coverage and handoffs between cellular towers.
- Consider whether the operation requires either monitoring or monitoring with recording to the ROC. Go to the **Device Settings** page, 'Admin SIP Settings', and toggle the switch for 'ROC Server Recording' to the desired position.
- Before the operation, make sure that evidence files from previous operations have been downloaded using KEYWATCH Extractor in order to follow proper evidence handling procedures and maximize available recording space for your upcoming operation.
- After the operation, download the hotMIC, hotCAM, and geoTRACK evidence recordings from the mobile device with KEYWATCH Extractor (see Step 3: <u>Using KEYWATCH</u>), and from the ROC server using the download button(s). This will help control the space usage on the server as well as on the device itself, as well as help properly maintain the evidential chain of custody.

---- <u>Support</u> ---- <u>Legal</u>

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