
EntryTracs Setup & Usage Guide

Version 4.0.1



Contents

EntryTracs Installation & Settings	2
Overview	2
Installation	2
Registration	6
Settings.....	7
Print Settings	9
Relay Settings.....	11
Audio Settings	13
Email Settings.....	15
Agreement Settings	19
Agreement Screen.....	23
ID Scan Settings.....	24
ID Scan Take Photo	25
Connecting the Zebra DS457 Barcode Scanner	26
Pairing a Bluetooth Printer	27
Sending a Text Via Email	29
Agreement Questionnaire Usage Guide	30
Hand Detection.....	30
Sensitivity Setting.....	31
Arrow and Block Meters.....	32
Operation.....	34
Audio/Video Instructions	35
Settings Update Reference Guide	36
Settings Export	36
Settings Import	36
Settings from USB	36
File Replacement.....	37
EntryTracs JSON Reference	38

EntryTracs Installation & Settings

Overview

EntryTracs is an Android application that tracks or monitors the SmartPass (or EZ-Pass) system to provide additional features, such as label printing, relay operation, audio prompts and email. It runs as a background service that periodically queries SmartPass for settings changes and performs actions when a person is admitted or allowed entry by the system. EntryTracs starts up automatically when the device is rebooted (unless that option is disabled).

Any errors that occur during the run of the service are displayed near the bottom of the screen (in so-called “toast” messages). These messages include:

- SmartPass is not running.
- Passwords do not match between SmartPass and EntryTracs.
- Printer is not found or ready.
- Etc.

EntryTracs uses the existing run-time communication protocol provided by SmartPass. EntryTracs makes no file changes to the SmartPass system and installing or uninstalling EntryTracs has no effect on the SmartPass system.

Installation

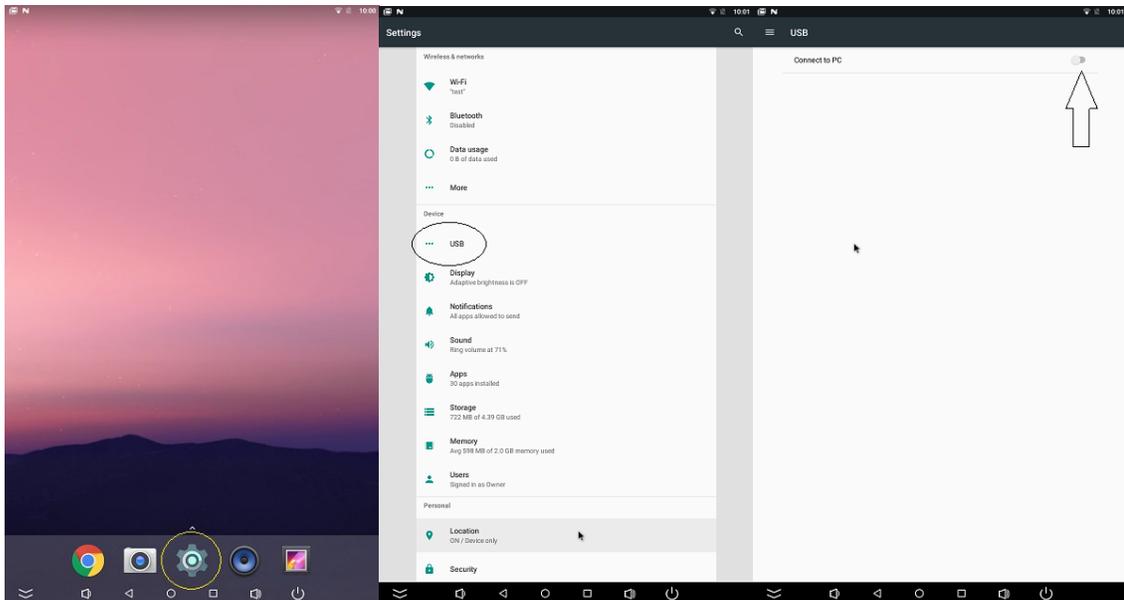
If EntryTracs did not come pre-installed on your device, please follow the instructions below.

- From Windows, copy EntryTracs-4.x.x.apk (i.e., Entrytracs-4.0.0.apk) to a USB flash drive – either at the root or to a known directory on the drive. If you do not have the EntryTracs file, please contact your vendor to download the most recent version.
- Eject the USB flash drive, unplug it from the PC and plug it into one of the USB ports of the SmartPass (GoodView) device. Mouse control on the device is required for installation so use whichever USB port is not occupied by the mouse.

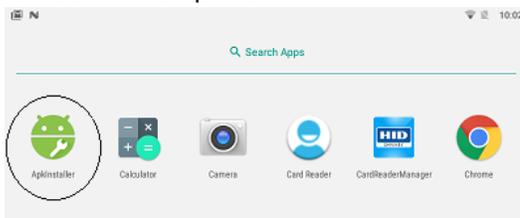
- If SmartPass is running, use the mouse to drag up from the bottom of the screen to display the action bar:



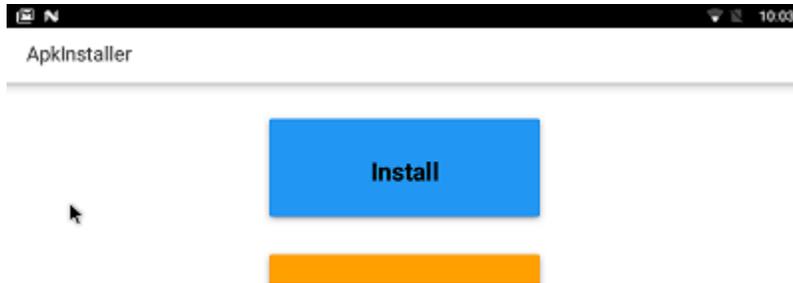
- Select the circle icon to access the home screen. Go to Settings | USB and confirm that “Connect to PC” is turned off:



- Right click to get back to the home screen, select the up arrow (above Settings) to show all apps and select the ApkInstaller:



- In ApkInstaller, select Install:



- Select USB Memory and browse to the directory containing the .apk (or root). The EntryTracs application will appear at the bottom of the screen:



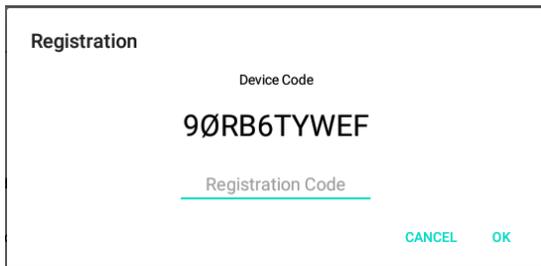
- Click on the EntryTracs-4.x.x.apk and it will install and launch.

Registration

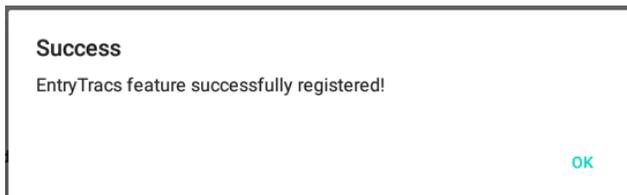
EntryTracs requires a registration code to enable features.

EntryTracs allows the evaluation and testing of various features without a registration code features cannot be permanently enabled without one.

When the user attempts to enable an EntryTracs feature, such as Print, they will be prompted with a 10-character alphanumeric 'Device Code'. Provide this code to your vendor and a 10-character Registration Code will be returned:

A dialog box titled 'Registration'. It contains a label 'Device Code' above the text '9ØRB6TYWEF'. Below that is a label 'Registration Code' above a text input field. At the bottom right are two buttons: 'CANCEL' and 'OK'.A dialog box titled 'Registration'. It contains a label 'Device Code' above the text '9ØRB6TYWEF'. Below that is a label 'Registration Code' above the text 'YC86Z5G77G'. At the bottom right are two buttons: 'CANCEL' and 'OK'.

Enter the code and select OK. You should see a success message:

A dialog box titled 'Success'. It contains the text 'EntryTracs feature successfully registered!'. At the bottom right is a button labeled 'OK'.

This is only required the first time the EntryTracs feature is enabled.

*Please write down and save the device-specific registration code in case the EntryTracs software is removed and reinstalled.

Settings

EntryTracs
⋮



EntryTracs
4.0.0

Enable Tracking:

Auto start:

Password:

Port:

Temperature scale: Fahrenheit Centigrade

PRINT	RELAY	AUDIO	EMAIL	AGREEMENT	ID SCAN
Enabled:					<input type="checkbox"/>
Print Mode:				All	▼
Visitor/Stranger description:				Visitor	_____
Print pause (in seconds):					<input type="text" value="10"/>
Label tag width (in inches):					<input type="text" value="2.00"/>
Print margins (in inches):					
Top: <input type="text" value="0.20"/>	Bottom: <input type="text" value="0.20"/>	Left: <input type="text" value="0.20"/>	Right: <input type="text" value="0.80"/>		
Space allocated for each printed entry (total no greater than 100%, Smiley/Photo not included): 100%					
Name: <input type="text" value="25"/> %	Date: <input type="text" value="40"/> %	Temperature: <input type="text" value="25"/> %	Full date/time: <input type="text" value="10"/> %		
Smiley: <input type="text" value="0"/> %	Photo: <input type="text" value="60"/> %	Photo Brightness: <input type="range" value="50"/>			
Rotation:				Bottom Up (270 degrees)	▼
<input type="button" value="TEST"/>					

**Use of this software indicates acceptance of the terms in the license agreement.

Application Settings

“**Enable Tracking**”: Starts or stops the service that tracks/monitors the SmartPass application. This essentially turns the app on or off.

“**Auto start**”: When enabled, the EntryTracs service will start when the device is rebooted. Presumably if SmartPass is configured to Auto start then EntryTracs should be as well.

“Password”: All communication with SmartPass requires that the passwords match between the two systems. If the SmartPass password is changed (either through the device or the server) then the EntryTracs password must be changed to match. Defaults to the SmartPass default, “123456”.

“Port”: Change if there is a known conflict with another application utilizing this port number.

“Temperature scale”: Currently SmartPass does not expose which temperature scale it is using internally. Use this setting to display temperatures in Fahrenheit or Celsius.

Feature Tabs: A tabbed selection of currently supported features. The feature name appears with a checked box if it is enabled/turned on.

“Done” button: Saves the current settings for all features and hides the main screen*. The tracking/monitoring service continues to run with the saved settings.

* If the Agreement feature is enabled the Agreement Screen will be displayed.

Print Settings

PRINT	RELAY	AUDIO	EMAIL	AGREEMENT	ID SCAN
Enabled:					<input type="checkbox"/>
Print Mode:				All	▼
Visitor/Stranger description:				Visitor	_____
Print pause (in seconds):					<u>10</u>
Label tag width (in inches):					<u>2.00</u>
Print margins (in inches):					
Top: <u>0.20</u>	Bottom: <u>0.20</u>	Left: <u>0.20</u>	Right: <u>0.80</u>		
Space allocated for each printed entry (total no greater than 100%, Smiley/Photo not included): 100%					
Name: <u>25</u> %	Date: <u>40</u> %	Temperature: <u>25</u> %	Full date/time: <u>10</u> %		
Smiley: <u>0</u> %	Photo: <u>60</u> %	Photo Brightness: ⊖ ————— ⊕			
Rotation:				Bottom Up (270 degrees)	▼
<input type="button" value="TEST"/>					

EntryTracs can print a label on an entry allowed/denied event. EntryTracs is configured to work with Zebra USB or Bluetooth printers:

<https://www.zebra.com/us/en/products/printers.html>

The administrator can scale the person’s name, short date (MM/DD), temperature and full date/time. They can also set the print rotation – 0, 90, 180, 270 degrees as required.

Printing only occurs when a person is admitted by SmartPass. Printing will not occur if a person has a high temperature, is not wearing a required mask or is a stranger when stranger mode is turned off. Printing can also be filtered to only print tags for visitors (strangers), non-visitors or all.

To reduce the risk of multiple prints for a single person there is a “Print pause” option which waits a given number of seconds between prints. This number can be adjusted to find a balance between excessive wait times and duplicate prints.

“**Enabled**”: Turn the printing feature on/off.

“**Print Mode**”: Print only for Visitors, Non-visitors, or All.

“**Visitor/stranger description**”: Text that appears on a printed label/tag when a person not in the SmartPass system (a “stranger”) is admitted.

“**Print pause**”: Number of seconds to pause between printing labels/tags. Prevents the printing of multiple tags for one person if they remain in front to the SmartPass. Defaults to 10 seconds.

“**Print Margin**”: Size of margin/white space on each edge of the printed data, in inches. Margins are relative to the print data. So, for example “Top” is the margin above the text, regardless of rotation.

“**Label/tag width**”: Width of the label/tag currently in the printer, in inches. Particularly important when printing at a rotation of 90 or 270 degrees. The label/tag length is determined automatically.

“**Space allocated for each printed entry**”: The percent of vertical height used by each of the four printed text items – name, short date (MM/DD), temperature and full date/time. Total should equal 100% (running total is displayed). To remove an item set percent to 0.

“**Smiley**”: Percent of vertical height used to print the smiley face image. Image is printed below the name space and justified to the right margin. To remove, set percent to 0.

“**Photo**”: Percent of vertical height used to print the person’s image. Image is printed below the name space and justified to the right margin. To remove, set percent to 0.

*Note that either a smiley or photo may be used but not both.

“**Rotation**”: Rotation angle at which the text is printed – 0, 90, 180, 270 degrees.

“**Test**” button: Sends sample data to the printer. **If a new printer is attached to the device or the label dimensions change a test print must be performed to update the EntryTracs internal printer settings.** Otherwise it will attempt to print with the old settings.

Relay Settings

PRINT	RELAY	AUDIO	EMAIL	AGREEMENT	ID SCAN
Enabled:					<input type="checkbox"/>
Relay close time (in seconds):					<input type="text" value="5"/>
Entry/admitted:					<input type="checkbox"/>
High temperature:					<input checked="" type="checkbox"/>
Not wearing required mask:					<input checked="" type="checkbox"/>
Stranger no entry:					<input checked="" type="checkbox"/>
Restricted list:					<input checked="" type="checkbox"/>
<input type="button" value="TEST"/>					

EntryTracs can close a relay on an entry allowed/denied event. EntryTracs is configured to work with the SMAKN LCUS-1 USB relay (contact your vendor for additional information):



This relay could be used to turn on an external alarm such as a buzzer or flashing light.

“Enabled”: Turn the relay feature on/off.

“Relay close time”: Time, in seconds, to close the relay on an event. The default is 5 seconds.

“Entry/admitted”: Close the relay when a person is admitted.

“High temperature”: Close the relay when a person attempts to enter with a high temperature.

“Not wearing required mask”: Close the relay when a person not wearing a mask attempts to enter when a mask is required.

“Stranger no entry”: Close the relay when a visitor/stranger attempts to enter when SmartPass Stranger mode/Stranger detection is disabled.

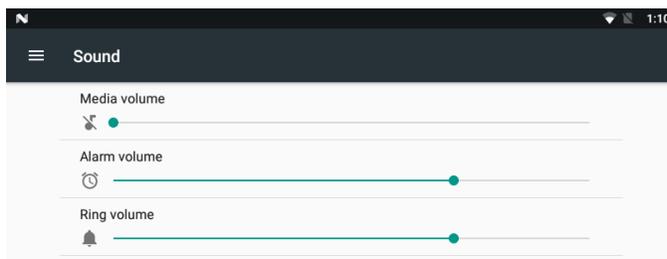
“Restricted list”: Close the relay when a person attempts to enter who has been restricted from entering.

“Test” button: Send the close command to the relay for the entered close time.

Audio Settings

PRINT	RELAY	AUDIO	EMAIL	AGREEMENT	ID SCAN
Enabled:					<input type="checkbox"/>
Entry/admitted:					<input checked="" type="checkbox"/> <input type="button" value="TEST"/>
High temperature:					<input checked="" type="checkbox"/> <input type="button" value="TEST"/>
Not wearing required mask:					<input checked="" type="checkbox"/> <input type="button" value="TEST"/>
Stranger no entry:					<input checked="" type="checkbox"/> <input type="button" value="TEST"/>
Restricted list:					<input checked="" type="checkbox"/> <input type="button" value="TEST"/>

EntryTracs allows for the replacement of most of the audio prompts supplied with SmartPass. Whereas SmartPass uses the device's Media volume to set the prompt volume, EntryTracs uses the device's Ring volume. To turn off SmartPass audio go to Settings | Sound and set the Media volume to 0, then set the Ring volume to the desired setting:



“Enabled”: Turn the audio feature on/off.

“Entry/admitted”: Play sound file when a person is admitted.

“High temperature”: Play sound file when a person attempts to enter with a high temperature.

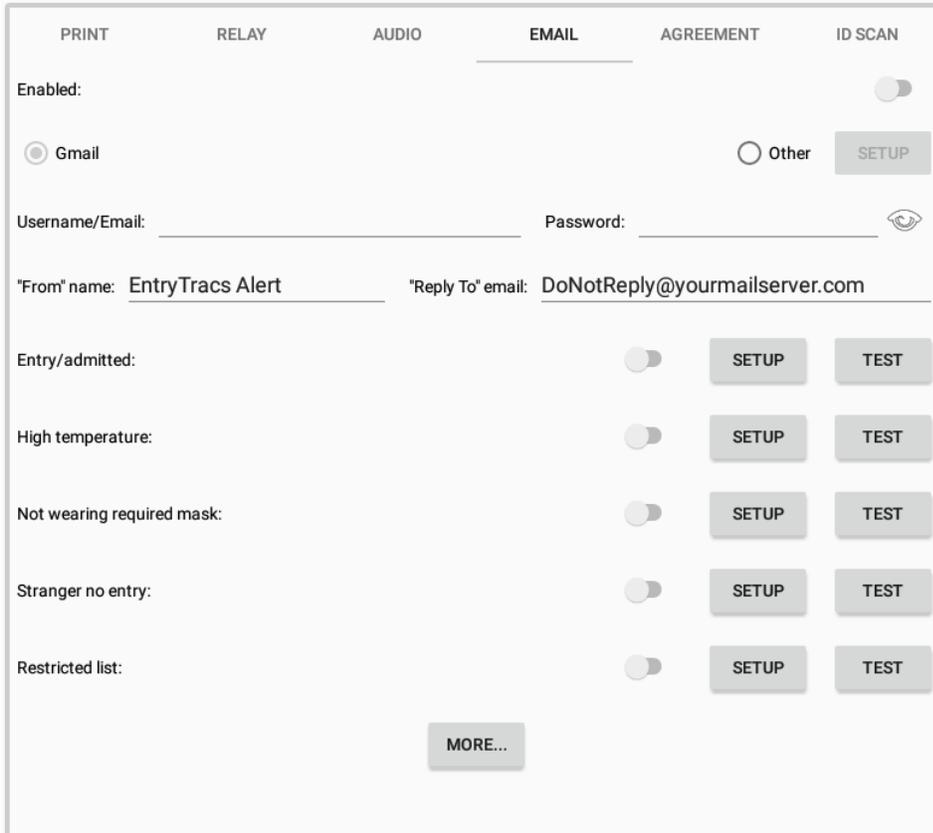
“Not wearing required mask”: Play sound file when a person not wearing a mask attempts to enter when a mask is required.

“Stranger no entry”: Play sound file when a visitor/stranger attempts to enter when SmartPass Stranger mode/Stranger detection is disabled.

“Restricted list”: Play sound file when a person attempts to enter who has been restricted from entering.

“Test” buttons: Play sound file for the corresponding event.

Email Settings



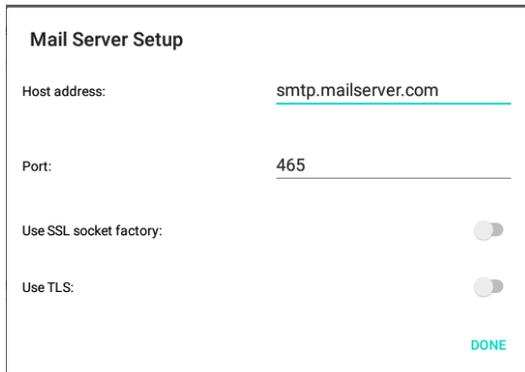
The screenshot shows the 'EMAIL' settings page. At the top, there are tabs for PRINT, RELAY, AUDIO, EMAIL (selected), AGREEMENT, and ID SCAN. Below the tabs, there is an 'Enabled' toggle switch. Underneath, there are radio buttons for 'Gmail' (selected) and 'Other', with a 'SETUP' button next to 'Other'. There are input fields for 'Username/Email:' and 'Password:', with an eye icon for password visibility. Below these are fields for '"From" name:' (set to 'EntryTracs Alert') and '"Reply To" email:' (set to 'DoNotReply@yourmailserver.com'). A list of events follows, each with a toggle switch and 'SETUP' and 'TEST' buttons: 'Entry/admitted:', 'High temperature:', 'Not wearing required mask:', 'Stranger no entry:', and 'Restricted list:'. At the bottom center, there is a 'MORE...' button.

EntryTracs can send an email on an entry allowed/denied event.

“**Enabled**”: Turn the email feature on/off.

“**Gmail**”: EntryTracs is pre-configured with the Gmail server settings. Use a new or existing Gmail account as the email sender. (To create a new Gmail account, please follow the instructions provided by google: <https://support.google.com/mail/answer/56256?hl=en>). The account must be configured to allow access by third-party/less secure apps : <https://myaccount.google.com/lesssecureapps>.

“**Other**”: An alternative mail server may be selected as the email sender. Select “Other” and then click “Setup” to enter the mail server information:



The image shows a 'Mail Server Setup' form with the following fields and values:

Field	Value
Host address:	smtp.mailserver.com
Port:	465
Use SSL socket factory:	<input type="checkbox"/>
Use TLS:	<input type="checkbox"/>

A 'DONE' button is located at the bottom right of the form.

“**Host address**”: The SMTP mail server address.

“**Port**”: The SMTP port to use (typically 465 or 587).

“**Use SSL socket factory**”: Some servers require use of SSL and socket factory.

“**Use TLS**”: Some servers require use of TLS.

“**Username/Email/Password**”: Existing email account username and password. Some servers require this to be the full email address, while others allow only the username.

“**From’ name**”: The “friendly” name that will show as the sender on the email (i.e. “John Smith”).

“**Reply To’ email**”: If a recipient attempts to reply to the email message, this is the email address their reply will go to. Some servers require this to be a valid email address.

“**Entry/admitted**”: Send email(s) when a person is admitted.

“**High temperature**”: Send email(s) when a person attempts to enter with a high temperature.

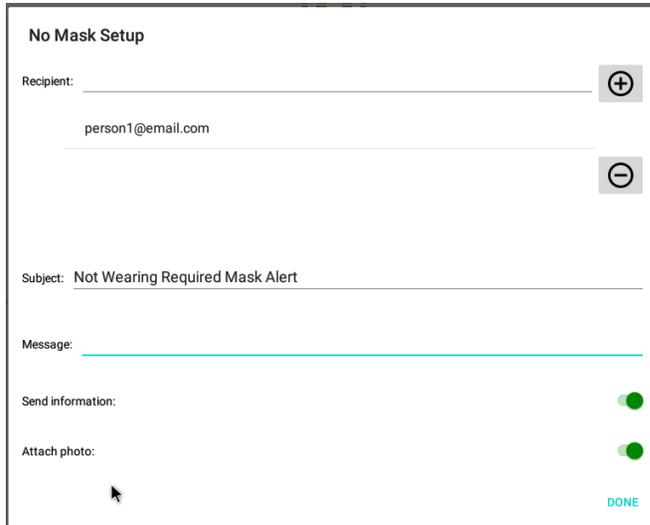
“**Not wearing required mask**”: Send email(s) when a person not wearing a mask attempts to enter when a mask is required.

“**Stranger no entry**”: Send email(s) when a visitor/stranger attempts to enter when SmartPass Stranger mode/Stranger detection is disabled.

“**Restricted list**”: Send email(s) when a person attempts to enter who has been restricted from entering.

“**Test**” buttons: Send test email(s) for the corresponding event.

“Setup” buttons: Setup email recipients and message information for the corresponding event:



The screenshot shows a form titled "No Mask Setup". It contains the following fields and controls:

- Recipient:** A text input field with a plus sign (+) button to the right. Below it, the email address "person1@email.com" is entered.
- Subject:** A text input field with the text "Not Wearing Required Mask Alert" entered.
- Message:** A large text area for entering the email content.
- Send information:** A toggle switch that is currently turned on (green).
- Attach photo:** A toggle switch that is currently turned on (green).
- DONE:** A blue button at the bottom right of the form.

“Recipient”: Create list of people to receive an email when an event occurs.

“Subject”: Email subject.

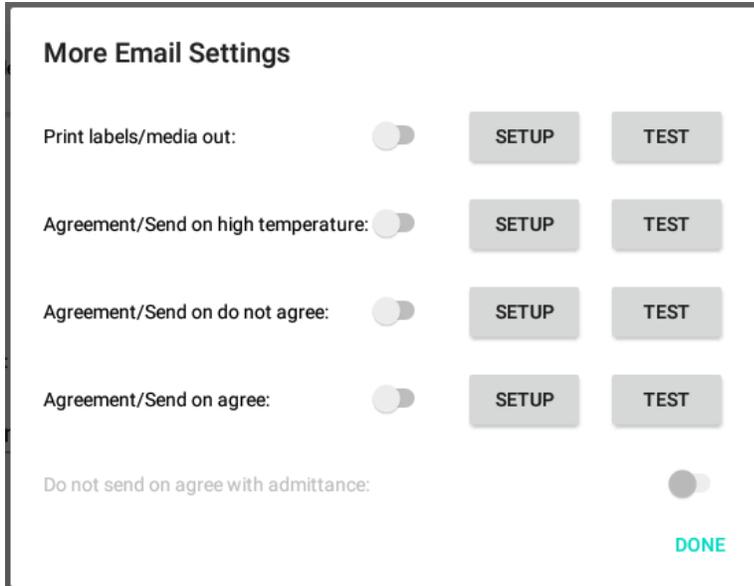
“Message”: Email text/content.

“Send information”: Turn on to send a summary of the person’s information – name (if known), temperature, mask status, etc.

“Attach photo”: Turn on to attach and send the person’s photo.

(*Note – information and photo are not sent with “Print labels/media out” emails. These items are disabled.)

“More...” button: Launches a screen to set up additional email options:



“Print labels/media out”: Send email(s) when the printer reports that it is out of labels/media.

“Agreement/Send on high temperature”: Send email(s) when someone has a temperature above the SmartPass alarm threshold and selects ‘Agree’ or ‘Do not agree’ when shown the Agreement Screen.

“Agreement/Send on do not agree”: Send email(s) when someone selects ‘Do not agree’ when shown the Agreement Screen.

“Agreement/Send on agree”: Send email(s) when someone selects ‘Agree’ when shown the Agreement Screen.

“Do not send on agree with admittance”: If “Agreement/Send on agree” is enabled, don’t send email(s) if the person then triggers a SmartPass entry allowed/denied event.

Agreement Settings

PRINT	RELAY	AUDIO	EMAIL	AGREEMENT	ID SCAN
Enabled:					<input type="checkbox"/>
Play audio instructions:					<input type="checkbox"/>
Play video instructions:					<input type="checkbox"/>
Main screen:	<input type="button" value="SETUP"/>			Re-display time (in seconds):	<input type="text" value="8"/>
Do not agree message:	<input type="button" value="SETUP"/>			Display time (in seconds):	<input type="text" value="8"/>
Agree message:	<input type="button" value="SETUP"/>			Display time (in seconds):	<input type="text" value="3"/>
Do not agree text: <input type="text" value="I DO NOT agree"/>			Agree text: <input type="text" value="I agree"/>		
Hand sensor sensitivity:			<input type="button" value="⊖"/> <input type="range"/> <input type="button" value="⊕"/>		
Send data to server:					<input checked="" type="checkbox"/> <input type="button" value="SETUP"/>
<input type="button" value="TEST"/>					

EntryTracs can display an agreement/consent screen that prevents use of SmartPass until a user agree action allows access.

“**Enabled**”: Turn the Agreement feature on/off.

“**Play audio instructions**”: Turn audio instructions for how to use the Agreement screen on/off.

“**Play video instructions**”: Turn video instructions for how to use the Agreement screen on/off.

“**Main screen**” - **Setup**: Select an optional web URL source for the agreement/consent form:

Main Screen Setup

Enable use of URL below:

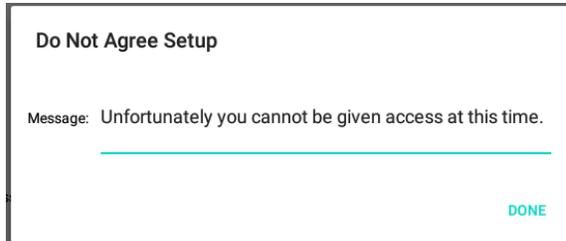
URL:

“**Enable use of URL below**”: Enable access to agreement/consent form source. If disabled, EntryTracs will use a local screen image of the last loaded instance.

“**URL**”: Web location of agreement/consent form. Can be .html or .pdf. After loading, a local image is saved.

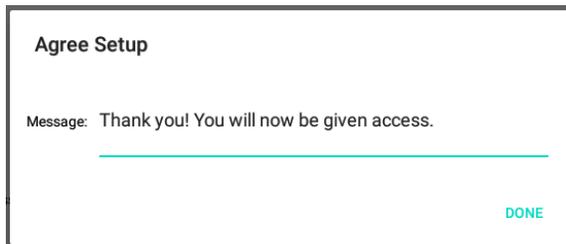
“Main screen” - “Re-display time”: When the user triggers an agree event and the Agreement Screen disappears, EntryTracs will wait this long to show again. Note that a SmartPass entry allowed/denied event causes an immediate re-display.

“Do not agree message” - Setup: Define the text that appears in the timed message box on a disagree event:



“Do not agree message” - “Display time”: How many seconds to display the timed message box.

“Agree message” - Setup: Define the text that appears in the timed message box on an agree event:



“Agree message” - “Display time”: How many seconds to display the timed message box. Note that a time of '0' will not show the message box and the Agreement Screen will disappear immediately.

“Do not agree text”: Define the text that appears next to the disagree hand image on the Agreement Screen.

“Agree text”: Define the text that appears next to the agree hand image on the Agreement Screen.

“Hand sensor sensitivity”: Slider to control the amount of brightness change required to trigger an agree/disagree event.

“Send data to server”: Turn the sending of agree/disagree photos to the SmartPass server on/off.

“Send data to server” - Setup: Select the options for sending of agree/disagree photos to the SmartPass server:

Server Setup

Server address:

Port:

High temperature display name:

Send on high temperature:

Do not agree display name:

Send on do not agree:

Agree display name:

Send on agree:

Do not send on agree with admittance:

[DONE](#)

“Server Address”: IP Address of SmartPass server.

“Port”: Port of SmartPass server (default 9000).

“High temperature display name”: Person name that appears with the photo on the SmartPass server when the user has a temperature above the alarm threshold and triggers an agree/disagree event.

“Send on high temperature”: If “Send data to server” is enabled, send photos to the SmartPass server of anyone who has a temperature above the alarm threshold and triggers an agree/disagree event.

“Do not agree display name”: Person name that appears with the photo on the SmartPass server when the user triggers a disagree event.

“Send on do not agree”: If “Send data to server” is enabled, send photos to the SmartPass server of anyone who triggers a disagree event.

“Agree display name”: Person name that appears with the photo on the SmartPass server when the user triggers an agree event.

“Send on agree”: If “Send data to server” is enabled, send photos to the SmartPass server of anyone who triggers an agree event.

“Do not send on agree with admittance”: If “Send data to server” and “Send on agree” are both enabled, don’t send a send photo if the person then triggers a SmartPass entry allowed/denied event (to prevent duplicates).

“Test” button: Launches the Agreement Screen. Right click on the Agreement Screen or select the “I agree” action to end the test.

You can add your own questionnaire file one of two ways:

1. If the new screen is a web page or a .pdf on the web you can go into Main screen setup, put in the URL/path and enable it.

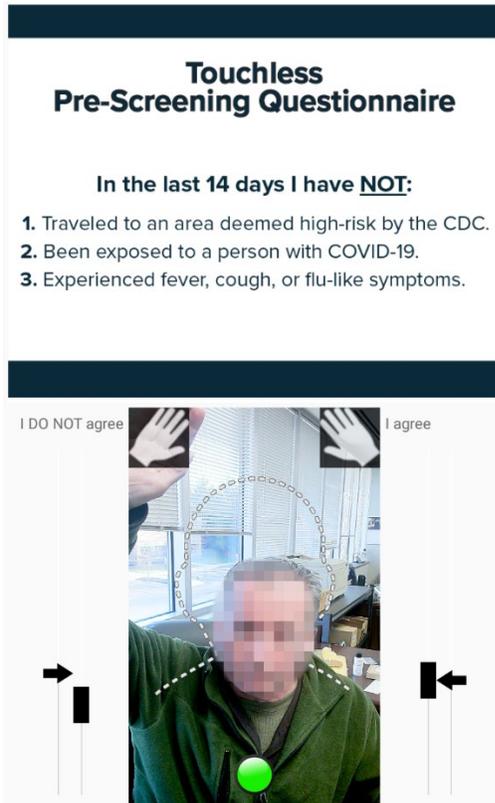
We take a screen shot of it so even if you turn it off or lose the connection it will use the last image available.

2. If you want to load a new screen manually you can do it through a USB flash drive:

- Create a directory at the root named \EntryTracs
- Copy a file named “agreement.pdf” or “agreement.png” into \EntryTracs.
- Eject the USB from the PC and plug it into the tablet.

You should see a toast message say that it updated successfully (within 10 seconds or so).

Agreement Screen



(Do not agree event shown above)

When the EntryTracs Agreement feature is enabled a screen like the one above will be displayed.

This screen prevents access to the SmartPass application until the user visually places their hand next to the "I agree" text.

Upper Screen: Displays the agreement/consent document. This screen can be changed using a web address or USB-loaded agreement.pdf or agreement.png file.

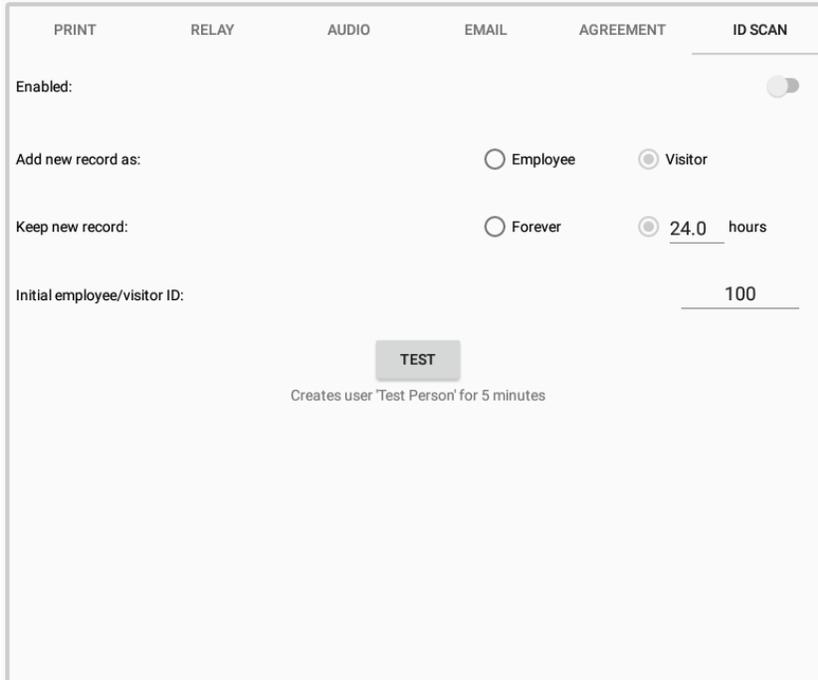
'I DO NOT agree' hand: Visually placing a hand "under" this image triggers a disagree event: A timed message box appears, and the Agreement Screen remains in place.

'I agree' hand: Visually placing a hand "under" this image triggers an agree event: A timed message box appears, and the Agreement Screen disappears to allow access to SmartPass.

Hand sensor meters: For each hand location. Arrow meter shows current level, block meter shows the base or average level +/- sensor sensitivity.

System ready light: Round light that turns green when a person is present, and the system is ready for an agree/disagree event.

ID Scan Settings



The screenshot shows the 'ID SCAN' settings page. At the top, there are tabs for PRINT, RELAY, AUDIO, EMAIL, AGREEMENT, and ID SCAN. The 'ID SCAN' tab is active. Below the tabs, there are several settings: 'Enabled' with a toggle switch; 'Add new record as:' with radio buttons for 'Employee' and 'Visitor' (selected); 'Keep new record:' with radio buttons for 'Forever' and '24.0 hours' (selected); and 'Initial employee/visitor ID:' with a text input field containing '100'. At the bottom, there is a 'TEST' button and a note: 'Creates user 'Test Person' for 5 minutes'.

EntryTracs can add a visitor or employee to the local device after a driver's license or QR code business card is scanned by a Zebra barcode scanner.

“Enabled”: Turn the ID Scan feature on/off.

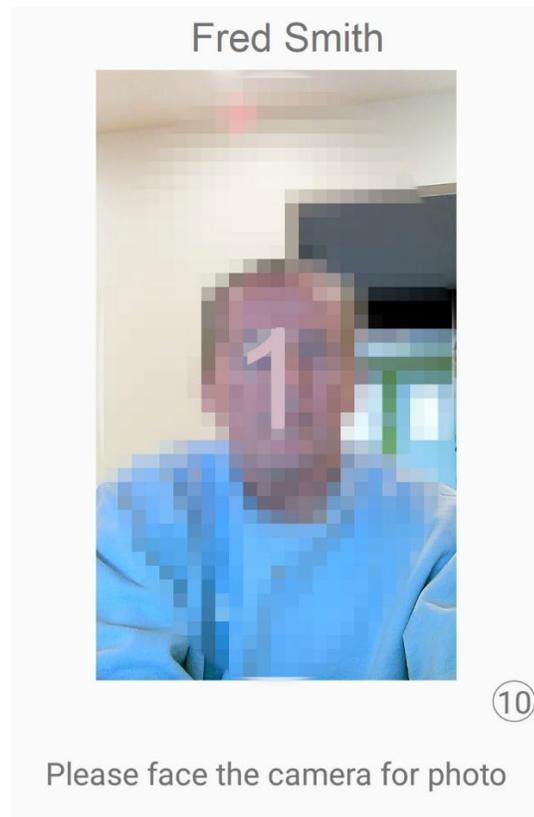
“Add new record as”: The added person can be an employee or visitor.

“Keep new record”: Keep the person's record on the device forever or some number of hours.

“Initial employee/visitor ID”: Initial value for ID number of added persons. If set to 100, for example, the first added person would be #100, the next #101, then #102, etc.

“Test” button: Launches the Take Photo screen (see below) to capture the person's picture and add them to the device. The person will be assigned the name "Test Person" and the record will be removed from the device after 5 minutes.

ID Scan Take Photo



If ID Scan is enabled and a person uses the Zebra barcode scanner on a driver's license or QR code, that person's name will be retrieved and used to create a new visitor/employee record on the local device.

EntryTracs will display a screen with the retrieved name at the top. When the person's face is properly positioned, a 3 second countdown will appear, and their picture will be taken. This picture, along with their name, will be added to the device as either an employee or visitor. A success message will appear.

If there is a problem with the picture – the face is tilted too far forward for example – a message will appear, and the person can try again.

If no face is seen for 10 seconds the circled number at lower right will count down to 0 and the screen will time out. The person would not be added, and they would need to re-scan their ID again to be added.

Connecting the Zebra DS457 Barcode Scanner

EntryTracs is configured to work with the Zebra DS457 barcode scanner:

<https://www.zebra.com/us/en/products/scanners/fixed-mount-scanners/ds457.html>

(*Note: the cable that connects the scanner to USB is required.)

To connect the scanner to the SmartPass device, use the following steps:

1. Connect the USB cable to the back of the scanner.
2. Plug the USB cable into an available USB port of the SmartPass device.

The scanner should power up and beep. However, the scanner factory default settings do not send the scanned data through the USB cable. To configure the scanner, the programming bar code for SNAPI must be used. This barcode is available in the Quick Reference Guide (page 8):

https://www.zebra.com/content/dam/zebra_new_ia/en-us/manuals/barcode-scanners/ds457-qrg-en.pdf

(*Note: scanner can only read from a printed/paper bar code – not from a screen)

3. Scan the Programming Bar Code for "Symbol Native API (SNAPI) with Imaging Interface" or "Symbol Native API (SNAPI) without Imaging Interface".

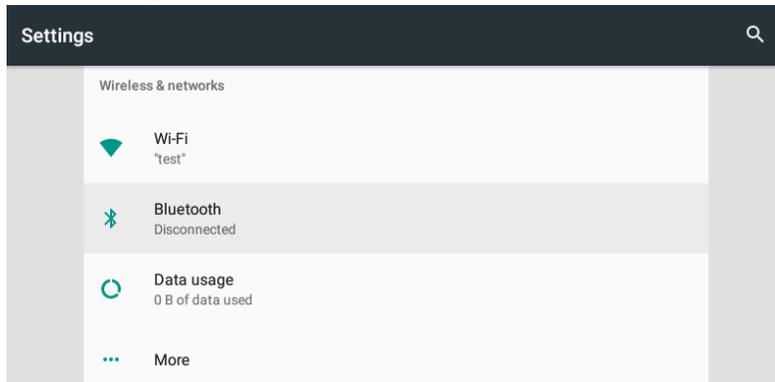
The scanner should now be ready for use with EntryTracs.

Pairing a Bluetooth Printer

(*Note - The default USB printer does not support this feature)

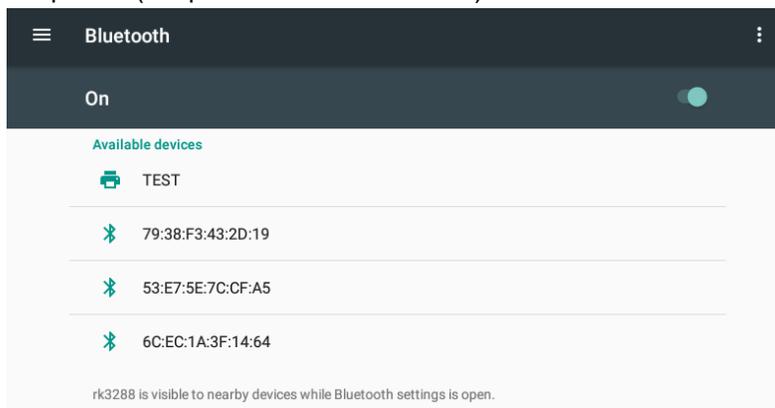
To pair a Zebra Bluetooth printer with the SmartPass device, use the following steps:

1. Go to Settings | Bluetooth:



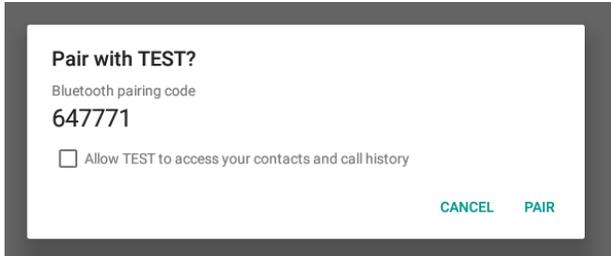
2. Ensure that the Zebra Bluetooth printer is on and ready.

3. Slide the Bluetooth switch to the "On" position. A list of available devices should appear, including the printer (the printer is named "TEST"):

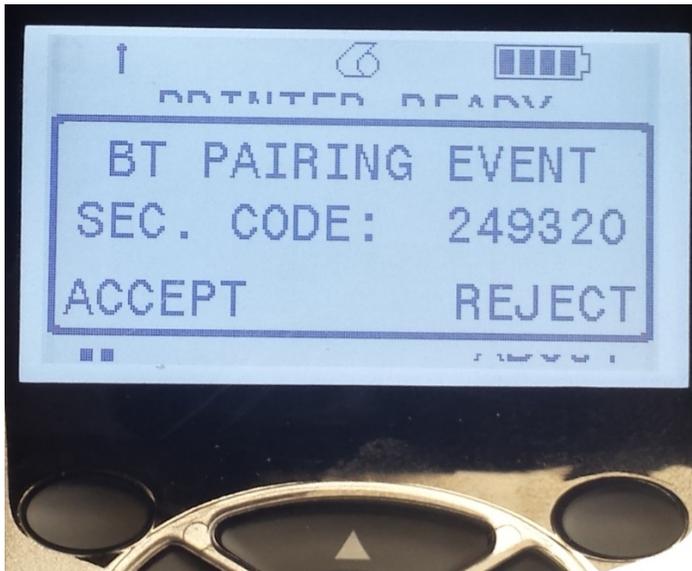


*If the printer isn't in the list, click the 3 dots at upper right and select "Refresh."

4. Select the printer. It will start pairing and display a message box:



5. While the message box is showing a confirmation message will appear on the printer screen:



6. Press the upper left button on the printer to accept the pairing and then click the "Pair" button on the SmartPass device.

The printer and device should now be paired. Any search for a Bluetooth printer in the EntryTracs app should find the printer.

Sending a Text Via Email

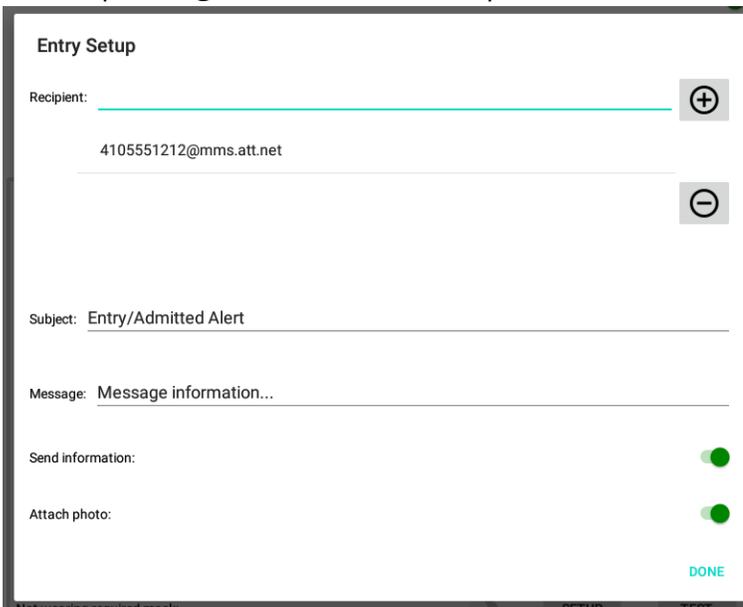
Text messages can be sent via the Email feature of EntryTracs. Almost all carriers support sending of SMS and MMS from an email address – check your carrier for details or check this list:

<https://support.gomotionapp.com/en/articles/407-email-to-sms-gateway-list>

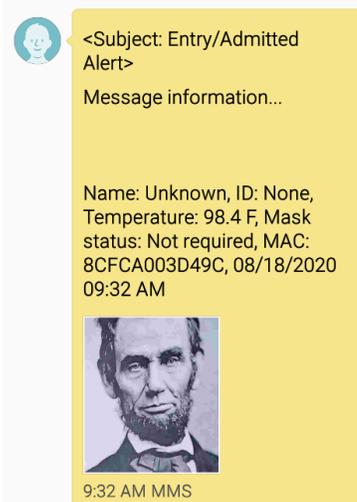
Generally, if you are sending pictures use MMS, otherwise SMS/TXT.

AT&T is used in the following example. To implement:

1. Add the phone#@carrier to the list of recipients:



2. Select the email “Test” button to receive the text:



Agreement Questionnaire Usage Guide

EntryTracs can display an agreement/consent screen that prevents use of SmartPass until a user agree action allows access.

Hand Detection

The hand detection for agree/disagree is triggered by a **sudden change in brightness** in the screen areas where the hand overlays are located. If the brightness level drops or rises suddenly it is assumed someone has placed a hand in that part of the screen.

The screen is looking for a sudden change and ignores gradual brightness changes during the day such as if the unit is near windows and it gets cloudy or when night falls.

The screen is also looking for a sudden change in only **one** hand area of the screen. So, if a room light is turned on/off the entire screen brightness changes and that event would be ignored.

Best results are achieved with a dark background and adequate lighting in front of the user, near the device. When the user raises their hand the brightness level **rises**, and the event is triggered.

Alternately, a white/light background can be used with lighting above and slightly behind the user. When the user raises their hand, the shadow causes a brightness **drop**, and the event is triggered.

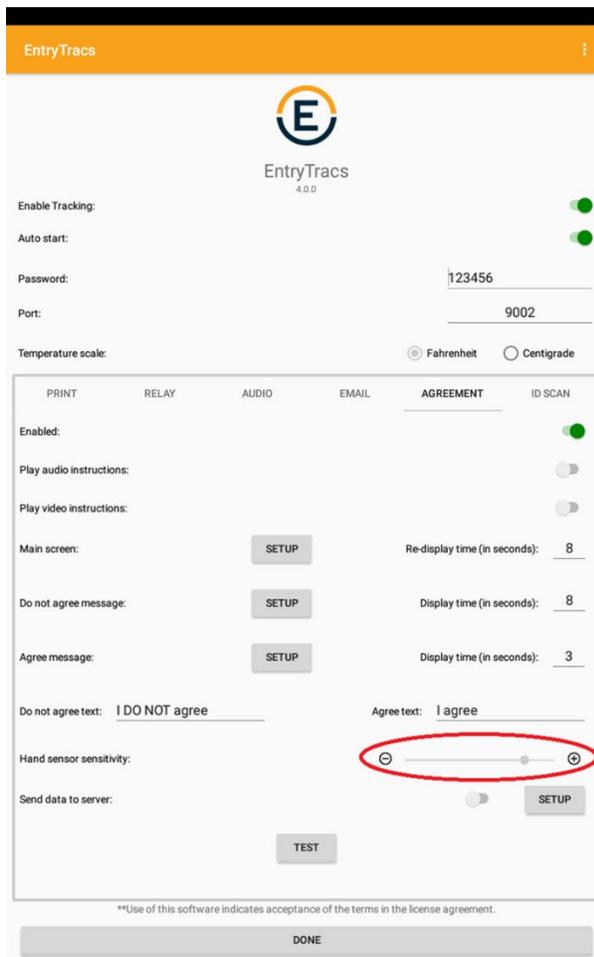
Poorest performance is observed when a medium brightness or busy background is used in low or very even lighting situations. The screen simply does not see enough brightness change to trigger an agree/disagree event.

The screen is NOT looking for motion. Hand waving does not trigger an agree/disagree event. Best results are achieved by just moving the hand to the overlay location and holding it there until the system detects it.

The screen is NOT looking for a change in color. It is essentially treating brightness in shades of gray. So, placing a medium brightness hand in front of a medium brightness blue background may not trigger an agree/disagree event.

Sensitivity Setting

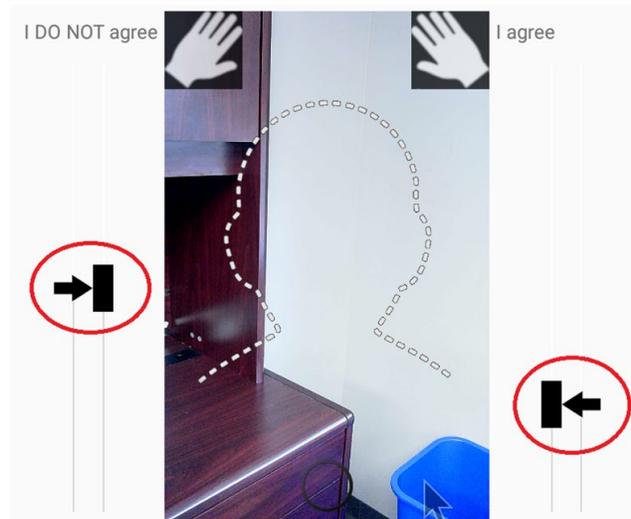
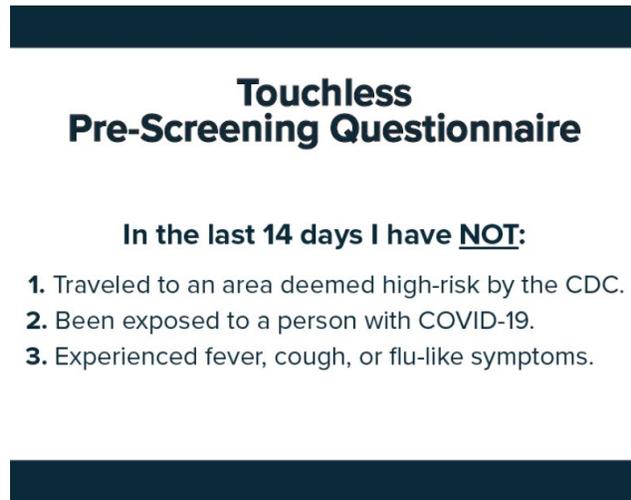
The amount of brightness change required can be adjusted in the EntryTracs Agreement settings. If the system is not responsive in the available background/lighting setup then the “Hand sensor sensitivity” slider can be moved to the right (+):



If the system is overly responsive and is triggering on hand actions when there is no hand present, then the slider can be moved to the left (-). This sometimes happens in very bright/sunny locations.

Arrow and Block Meters

Below is the agreement/questionnaire screen as the user sees it when they approach the tablet:



Note that the “I DO NOT agree” hand overlay is on a dark background and the “I agree” hand overlay is on a light/neutral background.

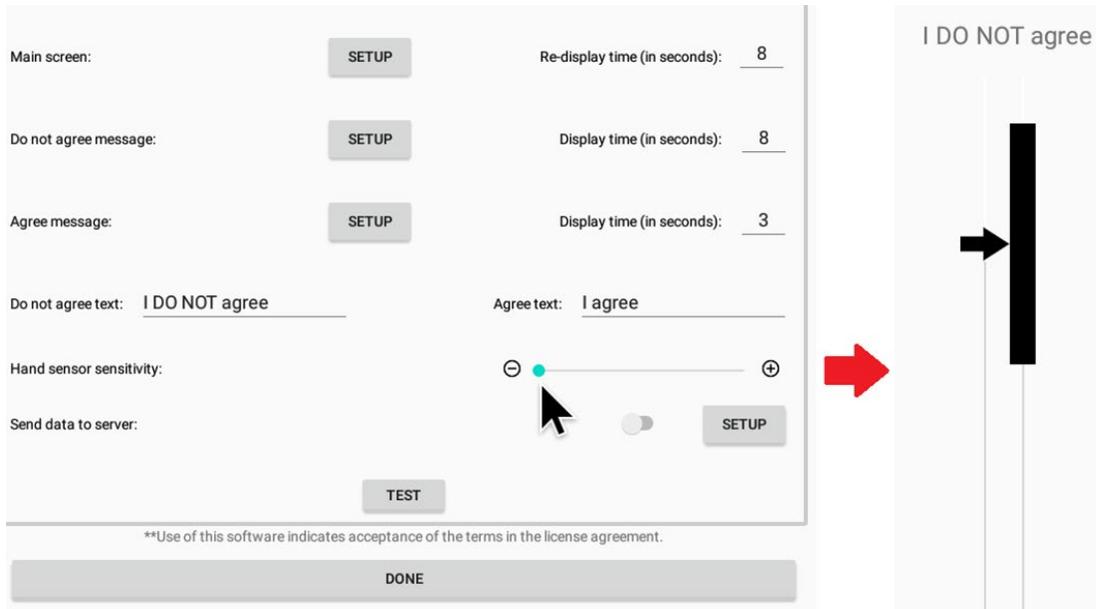
The corresponding arrow and block meters (circled) are at different heights to reflect this – the meters move up as the area gets darker and down as they get lighter.

To trigger an agree/disagree event the arrow meter needs to move above or below the block meter.

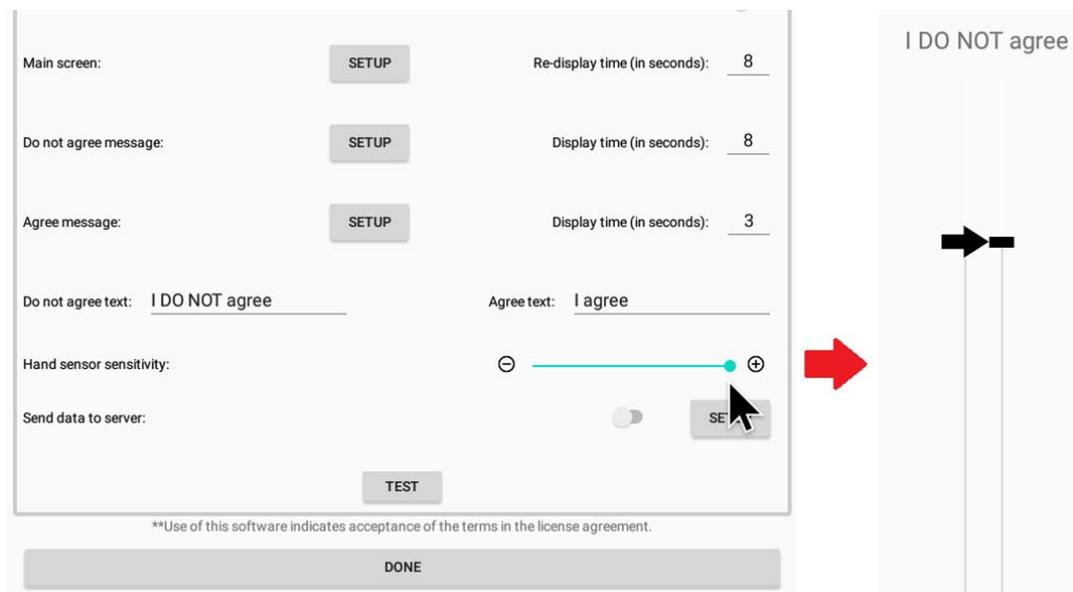
The arrow meter shows the current brightness level, and the block meter shows the baseline/average brightness level.

The height of the block meter is based on the Hand sensitivity setting described in the previous section. When sensitivity is reduced (-) the block is larger, and it becomes more difficult to “push” the arrow meter outside the block. When sensitivity is increased (+) the block is smaller, and the action is easier:

Hand sensor sensitivity set to **lowest** setting:



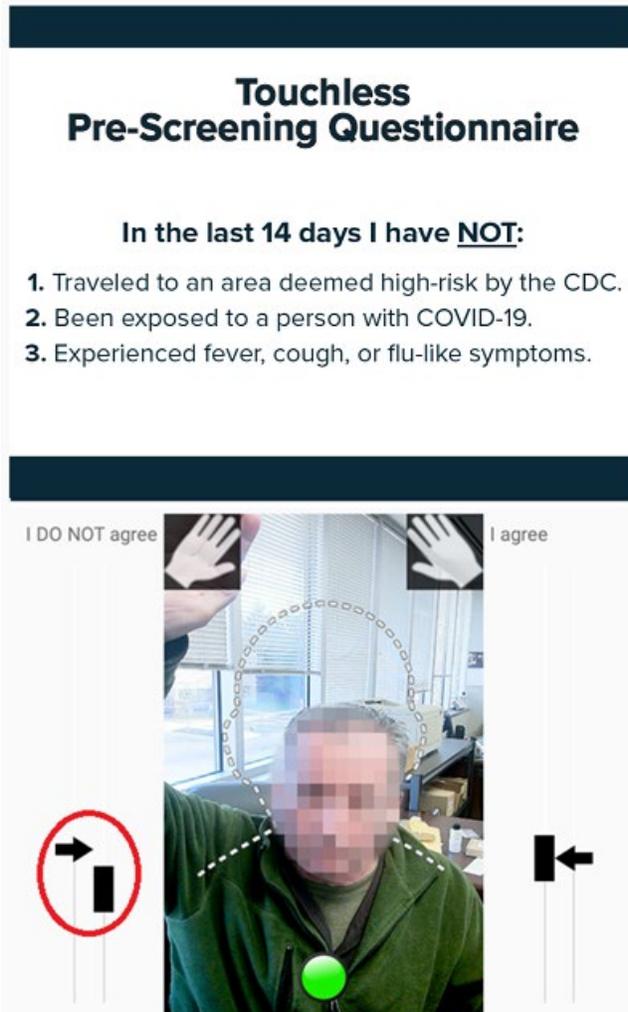
Hand sensor sensitivity set to **highest** setting:



Operation

The Agreement screen displays a green light near the bottom when the tablet detects a person in front of the camera and the meters have stabilized (it can take a second or so for the brightness average to be calculated).

When the user raises their hand to the position of the hand overlay it causes a rapid rise or drop of the brightness in that area, triggering the agree/disagree event (in this case a disagree event):

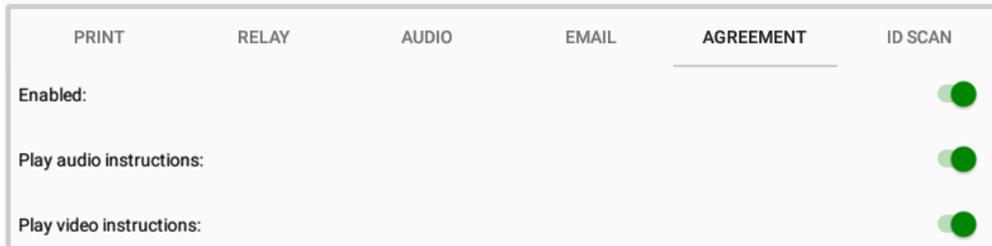


On a disagree (I DO NOT agree) event, a timed message box appears, and the Agreement Screen remains in place.

On an agree (I agree) event, a timed message box appears, and the Agreement Screen disappears to allow access to SmartPass.

Audio/Video Instructions

The Agreement feature provides both audio and video instructions to assist users in navigating the questionnaire agree/disagree process. These options are off by default but either or both can be enabled through the EntryTracs Agreement settings:



Audio instructions are a recorded message that plays when a user steps in front of the device. It explains the proper hand raise to signal when they agree or do not agree. The message stops on completion or if the user signals an agree/disagree event. The message will play again when the device senses a user has stepped away from the device and a new user has stepped up.

Video instructions are a pair of short video clips that display in the lower corners of the Agreement screen. They visually demonstrate for the user the proper hand raises to signal that they agree or do not agree. The videos alternate continuously (with fade-in/fade-out) while the Agreement screen is displayed:



Settings Update Reference Guide

Many of the settings in EntryTracs can be updated by making changes to named files and either Importing the changes or placing the files on a USB flash drive and plugging the drive into one of the USB ports of the GoodView/EZ-Pass device. The current device settings can also be Exported for backup purposes or viewing by support team personnel.

Settings Export

EntryTracs can Export the current settings to a chosen directory of the GoodView/EZ-Pass device.

- Select the "More options" icon from the EntryTracs header (:) and then select "Export Settings".
- Browse to the directory to receive the files and select OK.
- After the export is completed a success message will appear.

Settings Import

EntryTracs can Import from a chosen directory of the GoodView/EZ-Pass device and update itself if found. (For backup/restore the Import directory could be the output directory of a previous Export).

- Copy the files outlined below into a directory on the GoodView/EZ-Pass device, using the device's Explorer app or via a remote connection.
- Select the "More options" icon from the EntryTracs header (:) and then select "Import Settings".
- Browse to the directory containing the files and select OK.
- After the update is completed a log containing success or any errors is written to the imported directory. This file has the format "Log_[MAC address].txt".

Settings from USB

EntryTracs periodically queries the USB ports of the GoodView/EZ-Pass device looking for changes and automatically updates itself if found.

- From a PC, insert a USB drive and create a directory at the root named "EntryTracs" (not case sensitive). For example: E:\EntryTracs
- Create or copy the files outlined below into the E:\EntryTracs directory.
- Eject the USB flash drive, unplug it from the PC and plug it into one of the USB ports of the GoodView/EZ-Pass device (Note that if using the yellow USB port, Settings | USB | "Connect to PC" must be turned off).
- The EntryTracs app will automatically query the USB drive and replace files and/or update settings. This can take up to 10 seconds. On completion a success or failure message will appear.
- After the update is completed a log containing success or any errors is written to the \EntryTracs directory. This file has the format "Log_[MAC address].txt". If multiple devices are updated the logs can be associated with the correct device.
- Unplug the USB flash drive from the device and reinsert in the PC to view the log(s).

File Replacement

To replace files used by the Audio feature add the desired audio/mp3 files to the Import directory or USB drive \EntryTracs directory:

"entry.mp3" - Sound file played for Entry/admitted.

"high_temp.mp3" - Sound file played for High temperature.

"no_mask.mp3" - Sound file played for Not wearing required mask.

"stranger.mp3" - Sound file played for Stranger no entry.

"blacklist.mp3" - Sound file played for Blacklist (Restricted list).

The sound files can be voice or any audio sound – bell, buzzer, etc. To revert to the original audio, create a zero-length file with the above name. This causes a deletion of the replacement .mp3 file.

To create a zero-length file in Windows, right click in File Explorer and select New | Text Document. Then rename that zero-length "New Text Document.txt" to the desired file name (i.e. high_temp.mp3).

To replace the smiley face image/icon used by the Print feature add the desired image/.png file (approximately 128x128) to the Import directory or USB drive \EntryTracs directory:

"smiley.png" – Image file used to print smiley.

Again, to revert to the original smiley image create a zero-length file with the above name.

To replace the main agreement screen used by the Agreement feature add the desired .pdf or image/.png file (approximately 800x640) to the Import directory or USB drive \EntryTracs directory:

"agreement.pdf" – pdf file used for agreement.

-or-

"agreement.png" – Image file used for agreement.

Again, to revert to the default agreement create a zero-length agreement.png file.

To replace the audio instructions used by the Agreement feature add the desired audio/.mp3 file to the Import directory or USB drive \EntryTracs directory:

"agreement.mp3" - Sound file played for Agreement audio instructions.

Again, to revert to the original audio create a zero-length file with the above name. This causes a deletion of the replacement .mp3 file.

EntryTracs JSON Reference

To add/update settings in EntryTracs a text file in JSON format is used. This file must be named "EntryTracs.json" and added to the Import directory or USB drive \EntryTracs directory.

This provides a method to pair a settings tag with a value. For example, to change the password and port that EntryTracs uses to access EZ-Pass, the EntryTracs.json file would contain the following data:

```
{  
    "appPassword": "654321",  
    "appPort": 9004  
}
```

Note that the password is a String, and the port is an Integer. String values are within quotes ("") and all other values (Integer, Boolean, Float) are not within quotes.

Below is the list of all tags and the expected data type:

- Application

"appAutostart":Boolean (example - "appAutostart":false)

"appTemperatureScale":String (example - "appTemperatureScale": "Centigrade")

"appPassword":String

"appPort":Integer

"forwardDataUrl":String (full URL:port to receive forwarded EZ-Pass callback record)

- Print

"printEnabled":Boolean

"printMode":String ("Visitors Only", "Non-Visitors Only", "All")

"printStrangerDescription":String

"printPause":Integer

"printLabelWidth":Float (example - "printLabelWidth":2.25)

"printMarginTop":Float

"printMarginBottom":Float
"printMarginLeft":Float
"printMarginRight":Float
"printNamePercent":Integer
"printDatePercent":Integer
"printTemperaturePercent":Integer
"printDatetimePercent":Integer
"printSmileyPercent":Integer
"printPhotoPercent":Integer
"printPhotoBrightness":Integer (from -100 to 100)
"printRotation":Integer (0, 90, 180, 270)

- Relay

"relayEnabled":Boolean
"relayCloseSeconds":Integer
"relayEntryEnabled":Boolean
"relayHighTempEnabled":Boolean
"relayNoMaskEnabled":Boolean
"relayStrangerEnabled":Boolean
"relayBlacklistEnabled":Boolean

- Audio

"audioEnabled":Boolean
"audioEntryEnabled":Boolean
"audioHighTempEnabled":Boolean
"audioNoMaskEnabled":Boolean
"audioStrangerEnabled":Boolean

"audioBlacklistEnabled":Boolean

- Email

"emailEnabled":Boolean

"emailID":String

"emailPassword":String

"emailFromName":String

"emailReplyTo":String

"emailUsingGmail":Boolean

"emailServerUrl":String

"emailServerPort":String

"emailUsingFactory":Boolean (Use SSL socket factory)

"emailUsingTLS":Boolean (Use TLS)

- Email, Entry/admitted

"emailEntryEnabled":Boolean

"emailEntryRecipients":[String list] (Example: ["person1@xyz.com", "person2@xyz.com"])

"emailEntrySubject":String

"emailEntryMessage":String

"emailEntryInfo":Boolean

"emailEntryPhoto":Boolean

- Email, High temperature

"emailHighTempEnabled":Boolean

"emailHighTempRecipients":[String list]

"emailHighTempSubject":String

"emailHighTempMessage":String

"emailHighTempInfo":Boolean

"emailHighTempPhoto":Boolean

- Email, Not wearing required mask

"emailNoMaskEnabled":Boolean

"emailNoMaskRecipients":[String list]

"emailNoMaskSubject":String

"emailNoMaskMessage":String

"emailNoMaskInfo":Boolean

"emailNoMaskPhoto":Boolean

- Email, Stranger no Entry

"emailStrangerEnabled":Boolean

"emailStrangerRecipients":[String list]

"emailStrangerSubject":String

"emailStrangerMessage":String

"emailStrangerInfo":Boolean

"emailStrangerPhoto":Boolean

- Email, Black list (Restricted list)

"emailBlacklistEnabled":Boolean

"emailBlacklistRecipients":[String list]

"emailBlacklistSubject":String

"emailBlacklistMessage":String

"emailBlacklistInfo":Boolean

"emailBlacklistPhoto":Boolean

- Email, Print media out

"emailPrintMediaOutEnabled":Boolean

"emailPrintMediaOutRecipients":[String list]

"emailPrintMediaOutSubject":String

"emailPrintMediaOutMessage":String

(Note – no info or photo sent with print media out email)

- Email, Agreement/High Temperature

"emailAgreementHighTempEnabled":Boolean

"emailAgreementHighTempRecipients":[String list]

"emailAgreementHighTempSubject":String

"emailAgreementHighTempMessage":String

"emailAgreementHighTempInfo":Boolean

"emailAgreementHighTempPhoto":Boolean

- Email, Agreement/Agree

"emailAgreeEnabled":Boolean

"emailAgreeAlways":Boolean (true = always email on agree, false = don't if EZ-Pass sends entry record)

"emailAgreeRecipients":[String list]

"emailAgreeSubject":String

"emailAgreeMessage":String

"emailAgreeInfo":Boolean

"emailAgreePhoto":Boolean

- Email, Agreement/Disagree

"emailDisagreeEnabled":Boolean

"emailDisagreeRecipients":[String list]

"emailDisagreeSubject":String

"emailDisagreeMessage":String

"emailDisagreeInfo":Boolean

"emailDisagreePhoto":Boolean

- Agreement

"agreementEnabled":Boolean

"agreementInstructionsEnabled":Boolean (audio instructions)

"agreementVideosEnabled":Boolean (video instructions)

"agreementSpikePercent":Integer (from 1 to 21 – 1=high sensitivity, 21 = low sensitivity)

"agreementMainUrl":String

"agreementMainUrlEnabled":Boolean

"agreementHideSeconds":Integer

"agreementAgreeText":String (text that appears next to agree hand image on main screen)

"agreementAgreeMessage":String (text that appears in pop-up dialog on agree)

"agreementAgreeSeconds":Integer (seconds to display the pop-up dialog on agree)

"agreementDisagreeText":String (text that appears next to disagree hand image on main screen)

"agreementDisagreeMessage":String (text that appears in pop-up dialog on disagree)

"agreementDisagreeSeconds":Integer (seconds to display the pop-up dialog on disagree)

"agreementServerUrl":String

"agreementServerPort":Integer

"agreementServerEnabled":Boolean

"agreementServerHighTempEnabled":Boolean (send record to server on high temp + agree/disagree)

"agreementServerAgreeEnabled":Boolean (send record to server on agree)

"agreementServerAgreeAlways":Boolean (true = always send record to server on agree, false = don't send if EZ-Pass sends entry record)

"agreementServerDisagreeEnabled":Boolean (send record to server on disagree)

"agreementHighTempName":String (person name sent to server on high temp + agree/disagree)

"agreementAgreeName":String (person name sent to server on agree)

"agreementDisagreeName":String (person name sent to server on disagree)

- ID Scan

"idScanEnabled":Boolean

"idScanEmployee":Boolean (added person is an employee – otherwise a visitor)

"idScanForever":Boolean (keep employee/visitor record forever – no delete time)

"idScanDeleteHours":Float (delete employee/visitor record after this many hours)

"idScanBaseNumber":Integer (base employee/visitor ID number)

For additional information and assistance with EntryTracs, please contact your vendor and reference your support contract.