HC Standard® Patient Tracking for iOS

Version 4.2

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HC Standard® Patient Tracking for iOS

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Chapter 1 - PTS Overview



Global Emergency Resources' Patient Tracking SystemTM (PTS) is a module of HC Mobile. It is an integrated mobile solution to electronic Patient Triage and Patient Tracking. It allows near real-time data transmission from emergency locations and seamlessly integrates with HC Standard[®] allowing timely and informed health care decisions. Further, the sharing of critical emergency data greatly improves response times and quality of care.

Key benefits of PTS include:

- Near real-time transmission of emergency site data to a command center or hospital ER.
- Barcode identification and scanning of patient at the emergency site.
- Tracking of patient vital health and injury information.
- Emergency site and patient injury photographic capability.
- GPS and Date/Time stamping of data entry events.
- Audio and video recording capability.
- . HIPAA and HITECH compliant.
- Data is encrypted on the device while at rest and in transit.

Chapter 2 - Using PTS

2 - 1: Launch HC Mobile™

• Tap the HC Mobile icon to launch Patient Tracking.

2 - 2: Login to HC Mobile™

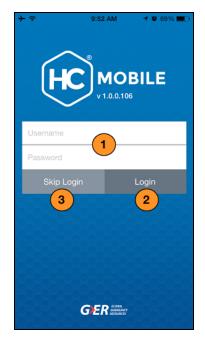


FIGURE 2-1: Login Screen

Log in to begin adding patient records, as shown in FIGURE 2-1.

- Enter Username and Password as provided by an HC Standard[®]
 Administrator.
- 2. *Tap* the **Login** button. **OR**
- 3. If username and password are inaccessible, the user can *tap* the **Skip Login** button to enter the HC Mobile[™] application. Patients can be entered into HC Mobile[™] under the Patient Tracking System application (PTS) at this point; however, no data will synchronize to the server until proper user credentials are entered.



FIGURE 2-2: HC Mobile™ Application Launcher

The modules available to the user will display on the user's device, as shown in FIGURE 2-2.

1. From the application launcher, select Patient Tracking System.

If it is the first time launching the Patient Tracking System (PTS) application and there is a data connection after logging in, the Synchronization screen will appear, as shown in FIGURE 2-3. Once the synchronization process is complete it will display the main screen. If a user wishes to return to the main screen sooner:

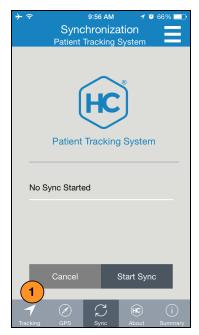


FIGURE 2-3: Sync Screen

1. *Tap* the **Tracking** icon in the navigation tray to continue.

If there is no data connection or the PTS application is still open from a previous log in, the user will be directed to the Patient Tracking Main Screen.

2 - 3: Patient Tracking Main Screen



FIGURE 2-4: Main Screen

The Patient Tracking Main Screen, as shown in FIGURE 2-4

- 1. Connection Status Shows current connection status to the server.
- Sync Status Shows last date and time the device synchronized.
 Patients on device shows how many records are currently on the user's device. A green icon means there are no records and a yellow icon indicates there are still records to be synchronized.
- 3. Current ICS Information Shows current ICS settings.
- Triage Buttons Starts patient entry mode.
- 5. GPS Shows current GPS data .
- 6. Sync Controls data synchronization.
- 7. **About** Displays HC Patient Tracking ™ version information.
- 8. **Summary** Presents memory, battery and GPS status.

If an INCIDENT has not been set, then upon the triage of the first patient, the user will be prompted to enter the appropriate ICS information. Entering ICS information will only be necessary the first time using the device for a specific Incident. Once this information has been entered, the user will be able to triage multiple patients and will not need to go through this step. For more information, see "Incident Command System (ICS)" on page 7.



Note: The device may occasionally lose its connection with the server. If this occurs, patient records will remain on the device's internal memory but will not be uploaded to the database. The device should Auto Synchronize with the database once the connection is re-established.

2 - 4: Patient Tracking Menu



FIGURE 2-5: Menu

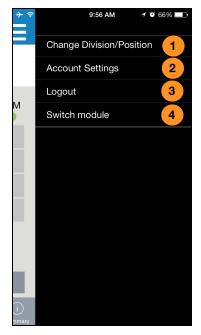


FIGURE 2-6: Menu Items

To access the menu, as shown in FIGURE 2-5:

1. Tap the Menu button to access the menu.

Menu Items include, as shown in FIGURE 2-6:

- Change Division/Position Update position, incident, division, and floor/number/unit information. Tap this to go to the Incident Command System (ICS) Panel.
- 2. Account Settings Access settings for the user account.
- 3. Logout Log out of the HC Standard® account.
- 4. **Switch Module** Switch to another HC Mobile [™] application.

2 - 5: Account Settings

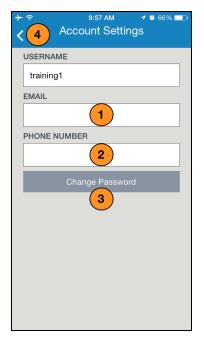


FIGURE 2-7: Account Settings

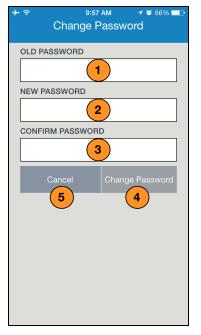


FIGURE 2-8: Account Settings

Users are able to access account settings from the **Menu**,as shown in FIGURE 2-7.

- 1. Enter or change the EMAIL address for the account.
- 2. Enter or change the PHONE NUMBER associated with the account.
- 3. Click or tap Change Password to change the password for the account.
- 4. Click or tap the **<Back** button to go back to the previous page.

To change the password, as shown in FIGURE 2-8:

- 1. Enter the OLD PASSWORD.
- 2. Enter the NEW PASSWORD.
- 3. Enter the new password again under CONFIRM PASSWORD.
- 4. Click or tap Change Password to save changes.
- 5. Click or tap Cancel to abandon changes.

2 - 6: Incident Command System (ICS)

The ICS Page, as shown in FIGURE 2-9, is where the user selects key elements describing the event and position. This only needs to be done once during an incident since the information applies to all patients. Setting the correct ICS information is a critical step of the HC Patient Tracking™ log in process. Each selection made here impacts every patient record scanned and saved. Selecting the wrong incident or not selecting an incident may cause records to be missing from the incident commander's incident specific HC Standard® screens.

Items are all selected from drop-down lists which the HC Standard® System Administratoristrator has created in HC Standard®. This is done so that at a later date all of the responses to an incident will have the same name/title and can be sorted and cataloged. The number of incidents synchronized and displayed in this list can be altered from the application settings.

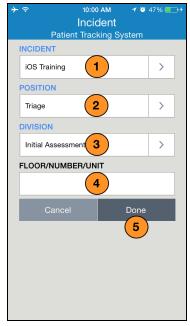


FIGURE 2-9: ICS Screen

- 1. **INCIDENT** Every patient scanned will have this incident associated with the record.
- POSITION Each position affects the panel order in HC Patient Tracking™. For example, selecting Transport will move the transport panel closer to the beginning of every patient record on the device.
- DIVISION Division is used to help identify where the patient was scanned. Typically this field is used for different locations during a planned event.
- 4. **FLOOR/NUMBER/UNIT** This field is used in conjunction with the Division field.
- 5. *Tap* **Done** once the user has made the appropriate selection(s).

Chapter 3 - Working with Patients

3 - 1: Entering Patient Information

Once the profile has been set, submitting patient records is simple.



FIGURE 3-1: Triage Patients

Scanning a barcode or triage tag will start an individual patient record or retrieve existing patient information that has already been entered into the system for that patient with that specific tag or barcode. A barcode on a triage tag is a unique ID.

1. *Tap* the **Individual** button on the Main Screen, as shown in FIGURE 3-1.



FIGURE 3-2: Patient ID

The next step requires the user to enter a Patient ID, as shown in FIGURE 3-2:

- Enter a Patient ID. The Patient ID is a unique string assigned to a patient. All information on the patient is stored under this ID and is available for recall and updating at later dates.
- 2. Toggling Skip loading from Server to on (red) is useful when data connectivity is unavailable. This will cause PTS to automatically assume the patient ID is new and display a clean record every time the ID is scanned. This saves time because PTS will not search the server for an existing record. Continue to update the record as needed and once data connectivity is restored, the HC Standard[®] server will merge all the entries into one record with all information and timestamps.

There are three ways to enter the Patient ID Number:



FIGURE 3-3: Camera Scan Window

- 1. Scan a triage tag for the patient Attach a Triage Tag to the patient. From the Patient ID screen, tap the Scan button. Proper technique is to align the red line in the window with the vertical center of the barcode, and hold the camera steady, as shown in FIGURE 3-3. If the barcode is not read right away, slightly vary the distance between the camera and barcode. If the device has a camera flash, turn it on in low-light conditions by tapping Light. The Front control switches between the rear- and front-facing cameras. The device will automatically focus on the barcode and will start the patient record when it registers the ID.
- Driver's License Scan a driver's license 3D barcode to generate
 a unique patient ID and automatically fill-in the patient's
 demographic information as it appears on the license. For some
 states, an older issued license may not properly scan.
- Manual input If a triage tag is not available, it is possible to input an ID Number manually using the onscreen keyboard. Make sure the Patient ID is unique so that the data from one patient is not mixed with another.



Note: The Patient ID is the only required field when starting a patient record. Make sure that each new patient is given a unique Patient ID.

3 - 2: Patient Tracking Panels

Once a Patient ID is entered, begin entering patient information by *tapping* on the screen and *manually entering* data with the onscreen keyboard. None of the panels have any required fields.

Swipe between panels from right-to-left to advance to the next panel.

To move directly to a specific panel tap an item's icon along the navigation tray, and select the desired panel.

Tap the **Menu** button in the top right corner of any panel to **Save**, **Print** and **Other** actions.

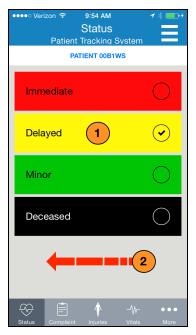


FIGURE 3-4: Triage Panel

Select Patient Status, as shown in FIGURE 3-4:

- 1. *Tap* **Immediate**, **Delayed**, **Minor** or **Deceased** to indicate patient status.
- 2. Swipe to continue.

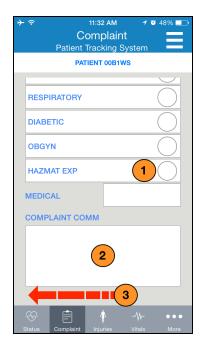


FIGURE 3-5: Complaints Panel

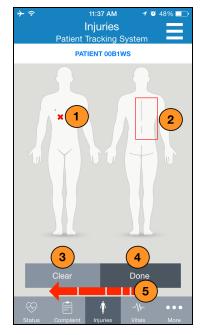


FIGURE 3-6: Select Injuries Panel

Select Complaint, as shown in FIGURE 3-5:

- 1. *Tap* the **Complaints** that apply. A checked circle indicates which complaints have been selected.
- 2. *Type* information into the **Medical** and **Complaint Comment** boxes.
- 3. Swipe to continue.

Select Injury Location, as shown in FIGURE 3-6:

Tap the **Edit** button and then:

- 1. Tap on a spot to place an X.
- 2. Tap and Drag diagonally to draw a box around larger area injuries.
- 3. To correct a mistake, *tap* **Clear** to clear the screen and start over.
- 4. Tap Done when finished.
- 5. Swipe to continue.

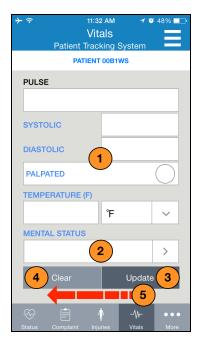


FIGURE 3-7: Vitals Panel

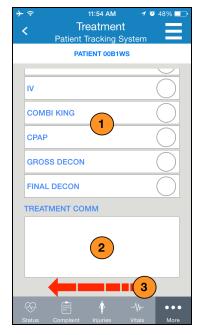


FIGURE 3-8: Treatment Panel

Record Vital Signs, as shown in FIGURE 3-7:

- 1. *Enter* the patient's **respiration**, **pulse**, **blood pressure** and **temperature** using the numbers on the keypad.
- 2. Select the patient's mental status.
- 3. *Tap* **Update** to quickly save current patient information.
- 4. Tap Clear to quickly enter new Vitals for the patient.
- 5. Swipe to continue.

Select Patient Treatment, as shown in FIGURE 3-8:

- 1. *Tap* the applicable treatment options. A checked circle indicates which complaints have been selected.
- 2. Type information into the **Treatment Comment** box.
- 3. Swipe to continue.



FIGURE 3-9: Patient Information Panel



FIGURE 3-10: Medical History

Enter Patient Information, as shown in FIGURE 3-9:

- 1. Manually *enter* patient information.
 - OR
- Tap the Scan button to populate patient's demographic data from the patient's driver's license. Scan the 3D barcode on the driver's license. The demographic information will be pulled from the patient's driver's license and automatically entered into the Patient Information panel.
- 3. Swipe to continue.

Enter Medical History, as shown in FIGURE 3-10:

- 1. Enter the patient's medical history.
- Tap None above a text box to quickly indicate that the patient was asked and has no medical concerns of that type. Leaving a field blank indicates that the information is unknown.
- 3. Swipe to continue.

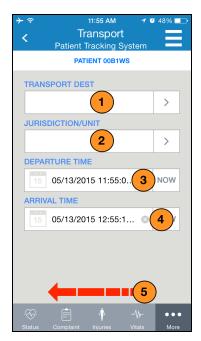


FIGURE 3-11: Transport Panel

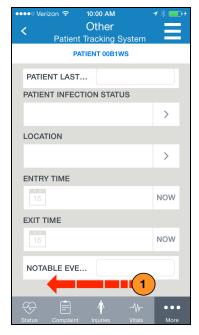


FIGURE 3-12: Other Panel

Select Transport Options, as shown in FIGURE 3-11:

Transportation destinations, jurisdictions, and unit numbers are predesignated fields set up by the HC Standard[®] Administrator.

- 1. Select a **Transport Destination** by *tapping* the arrow to select from the list.
- 2. Select a Jurisdiction / Unit by tapping the arrow to select from the list

To perform a quick search, *enter* text in the search bar at the top of any **Transport Destination**, **Jurisdiction**/ **Unit** selection screen.

- Current Departure and Arrival Times can be entered by tapping the Now button. A specific date and time can be selected by tapping the box.
- 4. *Tap* the **x** to the right of the Departure/Arrival Time boxes to clear and enter a different time.
- 5. Swipe to continue.

Using the Other Panel, as shown in FIGURE 3-12:

The HC Standard[®] Administrator has the ability to customize the **Other** panel. Here the user can update all pertinent information. This is the final screen in the patient record.

1. Swipe to automatically save the patient record.



Note: The input fields on this panel may vary as the HC Standard[®] Administrator adds or removes information.



FIGURE 3-13: Next Steps Panel

Using the Save Patient? Prompt, as shown in FIGURE 3-13:

The user will be asked to save the patient record after *swiping* from the **Transport** or **Other** screen.

The patient record will *automatically* be saved and the user decides what action to take next:

- 1. **Continue with this patient** Saves and keeps current record open.
- 2. **Enter a new patient** Saves the current patient and navigates to the Patient ID panel.
- 3. **Return to the main screen** Saves the current patient and returns to the Main Screen.
- 4. **Cancel** Does not save the record at this time and keeps the record open.



Note: It is not necessary to complete *every* panel for a patient record in order to save a patient's information.

3 - 3: Additional Actions (While in a patient record)

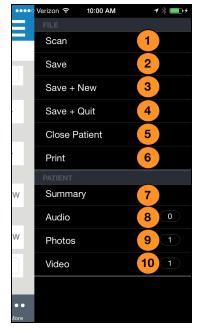


FIGURE 3-14: Patient Record Menu

The **Menu** button allows users to perform the following additional functions within a patient record, as shown in FIGURE 3-14:

- 1. **Scan** Save the current patient record and immediately use the camera to scan another barcode.
- 2. **Save** Captures a snapshot of the patient and continue working with the patient record.
- 3. Save + New Save the current record and start a new one.
- 4. **Save + Quit** Save and exit the current record, and return to the Patient Tracking main screen
- 5. **Close Patient** Discard the current record and return to the Patient Tracking main screen.
- 6. **Print** Print the current patient record to a connected Bluetooth Printer
- 7. **Summary** View the current patient's main details.
- 8. Audio Displays any audio files associated with the record.
- 9. **Photos** Displays any photos associated with the record.
- 10. Videos Displays any videos associated with the record.

3 - 4: Capture Photo and Video

This feature is only available in the *Individual* triage mode and not in *Group* Triage. To capture photos or videos, as shown in FIGURE 3-15:

- 1. *Tap* the **Photo** tab to enter photo mode or *tap* the **Video** tab to enter video mode.
- 2. Tap the white button to take a picture or start and stop a recording.
- 3. Tap < Back icon to go back to the previous screen.

Videos can be up to 60 seconds in length and can be saved for review. Video does take a large amount of space on the device and requires more time to sync. Multiple video clips per patient are allowed.

To delete a photo or video, as shown in FIGURE 3-16:

1. *Tap and hold* on a video or picture and then *tap* **Yes** on the prompt that appears.



FIGURE 3-16: Delete Confirmation

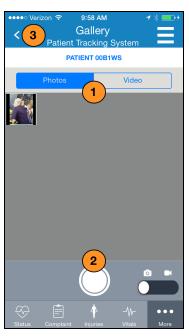


FIGURE 3-15: Camera Panel

3 - 5: Capturing Audio Notes

On any panel in the PTS Application, audio can be added to supplement the text information. If the user is on a specific section of the application and does not have time to type into the device, the user may capture audio notes that will be associated with that specific page or panel in PTS.

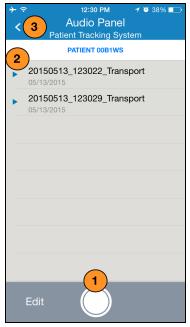


FIGURE 3-17: Audio Notes Panel

To create a recording, as shown in FIGURE 3-17:

1. *Tap* on the **RECORD** button and begin speaking into the unit. *Tap* on the **RECORD** button a second time to stop recording.

If the user wishes to play back the notes recorded:

2. Tap the play button for the recording.

When complete with audio recordings:

3. Tap < Back icon to go back to the previous screen.

Delete a recording by *swiping* to the left over a recording title *tapping* the red circle.

3 - 6: Recalling a Previously Entered Patient Record

Go to the Main Patient Tracking screen:

Tap Individual and manually type the patient or barcode number; or simply scan the barcode of a previously
entered patient record.

If the Patient ID was found on the HC Standard® server, the patient record will appear and updated information can be entered.

Chapter 4 - Working with Groups

Triaging a group of patients is simple with HC Standard® Patient Tracking.

Group triage is used when all patients being entered into the device have common information. Below are a few examples of scenarios where group triage would be most effective:

- All patients are being transported to the same hospital.
- · All patients sustained the same injury.
- All patients have the same symptoms.



FIGURE 4-1: Triage Patients

1. *Tap* on the **Group** button on the Main Screen, as shown in FIGURE 4-1.

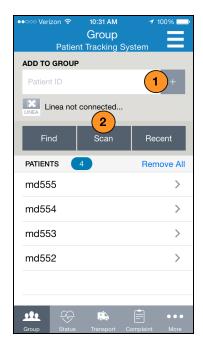


FIGURE 4-2: Group Triage ID List

Build the Patient list, as shown in FIGURE 4-2:

- 1. *Manually type* the Patient ID and *tap* the + button to add the ID to the Patients List.
 - OR
- 2. Scan each Patient ID in succession to add each patient to the Patients List.

Once all the patients are entered into the list, *swipe* or *tap* the tab to enter information for the group. This is performed in the same manner as an **Individual** patient.

When the user is done entering information for the group of patients, tap the Menu icon and Save.

4 - 1: Group Triage Options

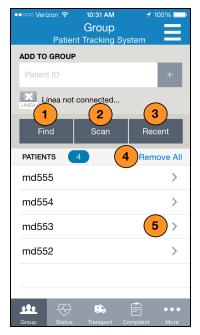


FIGURE 4-3: Group Triage Options

Group Triage options include, as shown in FIGURE 4-3:

- 1. **Find** Allows the user to search for an ID that was entered into the list
- 2. **Scan** Allows the user to scan a Patient ID.
- 3. **Recent** Allows the user to retrieve a recent group list entered on the device.
- 4. **Remove All** Removes all Patient IDs only from the list/group.
- 5. **Remove** *Tap* a Patient ID and then *select* **Remove** to remove the ID from the list/group.

Chapter 5 - Settings

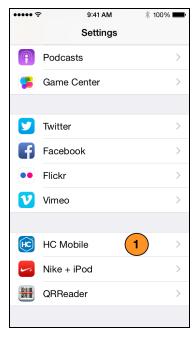


FIGURE 5-1: Settings

Adjust application settings to make the application work according to the user's preferences.

Access HC Mobile settings from the iOS Settings application, as shown in FIGURE 5-1:

1. Scroll down to find HC Mobile.

Each setting is explained in the following sections:

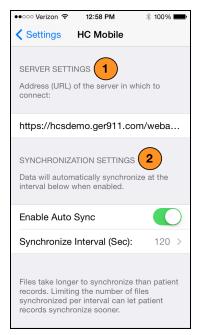


FIGURE 5-2: Synchronization Settings

As shown in FIGURE 5-2:

- 1. **Server Settings** shows the HC Standard[®] URL, which is for information only.
- 2. Synchronization Settings allow a user control the way their device communicates with the server. A higher synchronization interval will increase the delay that HC Patient Tracking™ automatically synchronizes in the background. A shorter interval will shorten the automatic synchronization but will have a higher impact on device battery.

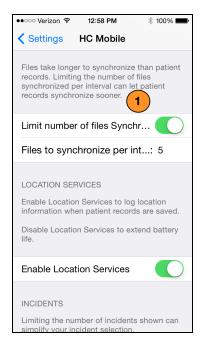


FIGURE 5-3: File Sync Settings

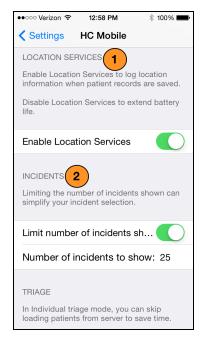


FIGURE 5-4: Location Services and Incidents Settings

As shown in FIGURE 5-3:

1. **File Sync Settings** allow user to limit the number of files that synchronize during each synchronization.

As shown in FIGURE 5-4:

- Location Services control allows a user to turn GPS on and off. It is recommended to leave this option enabled. Leaving this setting enabled allows HC Standard[®] users to view patients scanned on a map.
- 2. **Incidents** allows a user to limit the number of incidents that appear on the ICS panel.



Note: If a user is in HC Patient Tracking[™] and does not see an incident, increase the number of incidents shown.

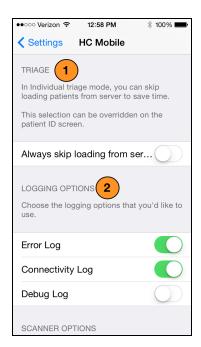


FIGURE 5-5: Triage and Log Settings

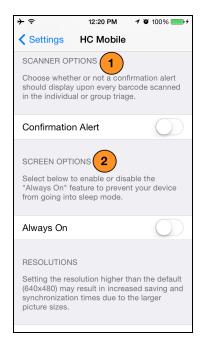


FIGURE 5-6: Scanner and Image Settings

As shown in FIGURE 5-5:

- Triage setting can prevent the application from loading data associated with existing patients. This saves time and reduces data usage on a device. However, if a patient has already been entered into HC Standard[®], the user will not see previously entered data.
- 2. **Logging Options** are used for application troubleshooting. Users should not change any of the log settings, unless directed to do so.

As shown in FIGURE 5-6:

- Scanner Options allow a user to toggle a requirement to confirm barcode readings.
- 2. **Screen Options** include **Always On** which prevents the iDevice from going to sleep while running patient tracking.

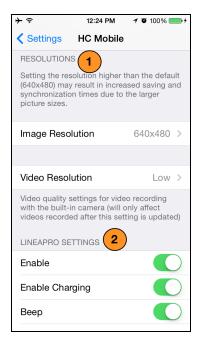


FIGURE 5-7: Resolution Settings

As shown in FIGURE 5-7:

- 1. **Resolutions** allows a user to make the tradeoff between higher quality photographs or videos and quicker data synchronization.
- LINEAPRO Settings are used with a supported LINEAPRO barcode scanner. Users who are only using the camera to scan barcodes should leave this setting disabled.