

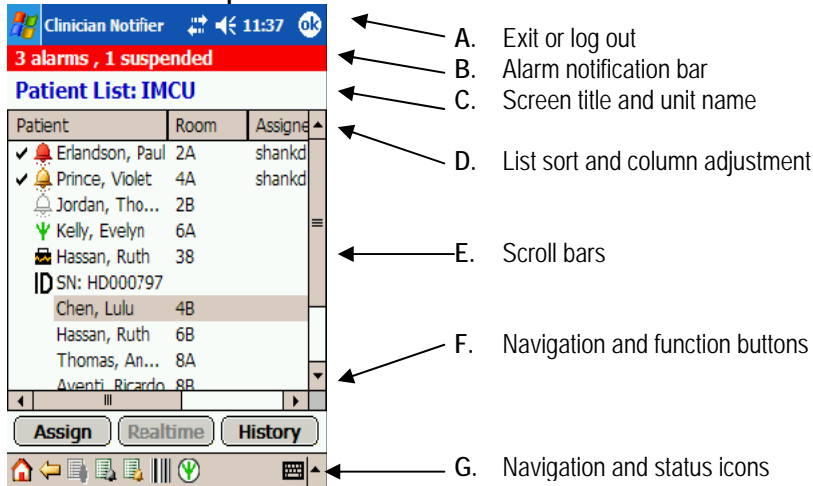
## Clinician Notifier Outline

### Train the Trainer









#### A. Intended Use

1. The Welch Allyn Acuity Link™ Clinician Notifier is a mobile alarm management solution, designed to expand the flexibility of patient monitoring on the Acuity Central system. The Clinician Notifier software on a mobile device provides the user with the ability to:
  - a. view the status of all patients in your unit
  - b. receive and respond to patient alarms
  - c. view real time waveforms
  - d. view alarm details and waveforms
  - e. view alarm histories
  - f. electronically scan or manually enter ID numbers to confirm patients in Acuity (optional feature)

#### B. Common Screen Components



Function	Description
A. Exit or log out	Tap <b>ok</b> to <i>log out</i> , and tap it again to <i>exit</i> Clinician Notifier.
B. Alarm notification bar	<p>Red: Your mobile device has received notification of one or more Acuity System patient alarms, and one or more are not suspended.</p> <p>Orange: All active patient alarms on your device are suspended.</p> <p>Green: currently your device has no notification of Acuity System patient alarms.</p>
C. Screen title and unit name	<p>Each screen has a blue title</p> <p>Tap some column headings to sort the list by the column title.</p>

D. List sort and column adjustment	Your assigned patients always sort to the top. Click and drag a column border to adjust the width of the column. Some screens have a fourth column out of view.
E. Scroll bars	Click the vertical scroll arrow to view the entire list. Click the horizontal scroll arrow to view a fourth column.
F. Navigation and function buttons	Buttons in this part of each screen serve different purposes. Some take you to another screen, or perform other functions within a screen.
G. Navigation and status icons	<p><b>Navigation icons:</b> tap these to move screen to screen.</p> <p> Home</p> <p> Back</p> <p> Patient List Screen</p> <p> Recent Alarms Screen</p> <p> Active Alarms screen</p> <p> Set Up Patient ID screen</p> <p><b>Status Icons:</b> The far right icon indicates connection status</p> <p> Mobile device is in communication with WACS network</p> <p> Mobile device is not in communication with WACS</p>

**C. Starting Clinician Notifier**

1. In the upper left corner of the device screen, tap the waving colored flag
2. Tap on Clinician Notifier
3. If Clinician Notifier does not appear in the list, tap Programs and then tap Clinician Notifier.

**D. Log in to Clinician Notifier**

1. Tap **Log In**. The Login screen appears.






2. Tap in the User Name given to you by your system administrator. Tap in Password (if applicable), then tap **Submit**. You are now logged in and ready to receive alarms.

**Note:** If you see a screen different from above, the prior clinician has not logged out. Tap **ok** in upper right corner, then tap **Yes** to log out. Continue with Step 1.

#### E. Home Screen

1. To view the Home screen, tap the House icon  at the bottom of any screen. The Home screen appears.




2. To view the list of Acuity System patients in your unit, tap 
3. To view all recent alarms sent to your mobile device or unit, tap 
4. To view all active alarms sent to your mobile device, tap 

#### F. Assigning Patients to Yourself




1. The Patient List screen displays patients with confirmed ID numbers currently monitored at Acuity. From this screen, options are:
  - a. assign patients to yourself to receive primary notification of alarms

- b. receive alarms for other patients that other clinicians have not suspended
- c. have patients remain assigned to you unless you log out of Clinician Notifier for longer than two hours.




2. From the bottom of any screen, tap . The Patient List screen appears.
3. Tap **Assign** to open the Assign Patients screen. **Note:** if **Assign** is grayed out, your device is in broadcast mode and cannot assign patients. You will receive *all* alarms delivered on your unit.
4. Verify that the unit listed at the top of screen is the unit you are currently working.
5. To receive primary alarm notification for one or more patients, check the box next to the patient(s).
6. To receive alarms for all other patients if their alarms are not suspended, check the box next to Receive Secondary Notification. (If you do not check this box you will receive final broadcast alarms. Final broadcast alarms are escalated if secondary notification alarms are not suspended).
7. Tap **Save** to register your selections. Your patients sort to the top of the list.
8. Tap **ok**.

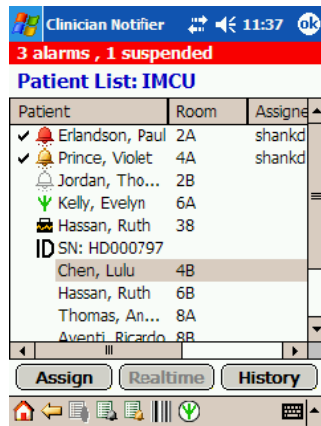
#### G. Set Up a Patient's ID in the ACUITY System using Barcode Scanner (If applicable)

1. If your Welch Allyn Connectivity server includes the barcode scanner option, you can use the setup Patient Id screen to enter patient information into the Acuity central Monitoring System. You can enter information manually or with barcode scanner on your mobile device. If you enter a room number in addition to the required ID numbers, there is no need to confirm patient information at the Acuity Central Station.
2. From the bottom of any screen, tap  to open the Set Up Patient ID screen. If  is grayed out, your system does not include the barcode scanner option.
3. Scan or tap in the monitor ID. If necessary, tap **Tab** to advance to the next input area.
4. Scan or tap in the Patient ID. If no patient ID number is available, tap **Auto ID**. This will assign a unique ID number that can be amended later.
5. (Optional) Scan or tap in the patient's room number.
6. Tap **Confirm**. Information is then sent to Acuity.
7. To verify patient information is correct, tap **Yes**. The patient is now listed in the Patient List and Assign Patients screens. If information is incorrect, tap  to return to this screen. Tap **Clear** and begin at Step 3.
8. Tap any icon along the bottom of the screen to navigate to another screen. **Note:** if you navigate away from this screen before you tap **Confirm**, i.e. if you respond to an alarm popup, your entries are not entered in the Acuity System.

#### H. View Patient Information

1. To view the status of Acuity System patients in your unit, from the bottom of any screen

tap . The Patient List appears.



9. View the status icon next to each patient.

Status Icon Key:


- ✓ - Patient was assigned to you in the Assign Patients screen (escalation mode, only)
- 🔔 - Patient is having a lethal arrhythmia or apnea event.
- 🔔 - Patient has an active alarm, other than a lethal arrhythmia or apnea.
- 🔔 - Patient's alarm notification is suspended for 90 seconds.
- 🌿 - Patient is monitored by a wireless monitor.
- 🚗 - Patient is monitored by a hardwired monitor.
- ID - Monitored patient is not identified by name or patient ID number.

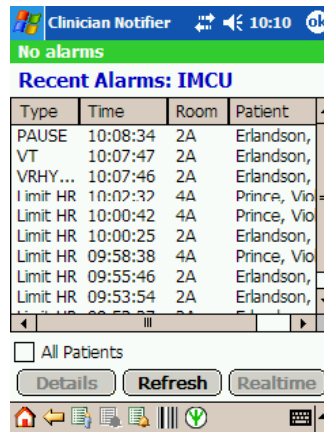
**Blank Space** - Patient is not actively monitored by the Acuity System. Patient could be pre-admitted through the Acuity System, or the patient's monitor has been disconnected from the Acuity System. The patient data is still retained by the system.

10. To open another screen, perform one of the following steps:

- a. To view the patient's alarm history, tap the patient name, then tap **History**.
- b. To view the patient's realtime waveform, tap the patient name, then tap **Realtime**.
- c. To set primary or secondary alarm notification choices for patients in the list, tap **Assign** to open the Assign Patients screen. **Note:** if **Assign** is grayed out, your unit is configured in broadcast mode and you cannot assign patients. You receive *all* alarms delivered to mobile devices in your unit.

## I. View a List of Recent Alarms

1. From the Home page or from the bottom of any page, tap,  The Recent Alarms page appears.



- To list recent alarms sent to mobile devices in your entire unit, check the box next to **All Patients**.
- Tap **Refresh** often to refresh the page with the latest information.
- To open another page for more information, take one of the following steps:
  - To view more details of an alarm, tap the alarm listing, and then tap **Details**.
  - To view a patient's realtime waveform, tap the alarm listing, and then tap **Realtime**. If Realtime is grayed out, the patient is not currently connected to the Acuity System.
 In both of these pages, if the patient has an active alarm, you can choose to suspend the alarm.

#### J. View a Patient's History of Alarms

- The Alarm History screen displays all of one patient's most recent Acuity System alarms. Navigate to the **Alarm History** screen. From the bottom of any screen, tap




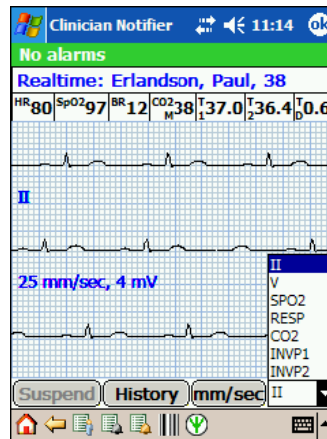
The Patient List appears.

- Tap the patient's name to highlight it, and then tap **History**. The Alarm History screen appears.
- Tap **Refresh** often to refresh the screen with the latest information.
- To open another screen to view more information, take one of the following steps:
  - to view more details of an alarm, tap the alarm listing, then tap **Details**.
  - to view the patient's realtime waveform, tap **Realtime**. **Note:** if **Realtime** is grayed out, the patient is not currently connected to the Acuity System.



### K. View a Realtime Waveform


1. Navigate to the Realtime screen. From the bottom of any screen, tap . The Patient List screen appears.
2. Tap the patient's name to highlight it, and then tap **Realtime** to open the patient's Realtime screen.




3. To adjust the display, take any of the following steps:
  - a. to change the lead or vital sign source for the waveform, tap the pull-down menu in the lower right corner of the screen, and then tap your selection. To scroll to additional vital signs, click the numerics area above the top waveform.
  - b. to change the waveform amplitude, tap anywhere in the grid.
  - c. to change the waveform sweep speed, tap **mm/sec**.
  - d. to suspend an active patient alarm, tap **Suspend**.
  - e. to open the patient's Alarm History screen, tap **History**.


**Note:** For this patient, popup, tone and vibratory notification of *all* alarms are suspended for 90 seconds on *all mobile devices that have received the alarm*. Tones are also suspended at the Acuity Central Station and the patient monitor. However, new lethal arrhythmia and apnea alarms interrupt the suspend state.

### L. View a List of your Active Alarms

1. From the bottom of any screen, tap  to navigate to the Active Alarms screen.
2. View the status icon and assigned room number next to each alarm.

Status Icon Key:

 - A lethal arrhythmia event


 - An active patient alarm, other than a lethal arrhythmia

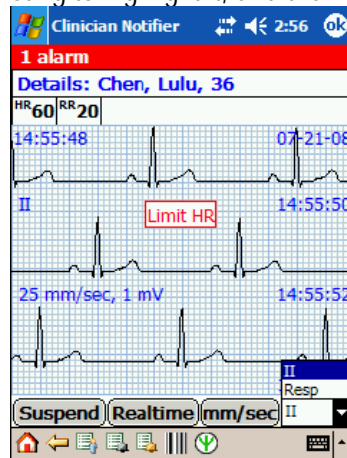
  - You have responded to this alarm by indicating you are busy

 - Alarm is suspended for 90 seconds

3. To respond to an alarm, take one of the following steps:
  - a. to suspend the alarm, tap the alarm listing to highlight it, and then tap **Suspend**.
  - b. to indicate that you are busy, tap the alarm listing to highlight it, and then tap **Busy**. Notification for *this* alarm stops *only on your device*. Notification returns to your device if someone suspends the alarm and it remains active after the 90 second suspend period.
4. To open another screen for more information, take of the following steps:
  - a. to view more details of an alarm, tap the alarm listing then tap **Details**.
  - b. to view an alarming patient's realtime waveform, tap the alarm listing and then tap **Realtime**. In either of these screens, you can choose to suspend the alarm.

### M. View Details of an Alarm

1. The alarm Details screen displays details of an active or historical alarm. Alarm details are available for a certain number of hours following a patient's disconnection from Acuity. The screen displays up to nine (9) seconds of waveform, depending upon your display choices.
2. Navigate the alarm Details screen. From any screen, tap . Patient List screen appears.
3. Tap patient name to highlight it, then tap **History**. The patient's Alarm History appears.
4. Tap alarm listing to highlight it, and then tap **Details**. The alarm Details screen appears.



5. To adjust the display, take any of the following steps:
  - a. to change the lead source or vital sign source of the waveform, tap the pull-down menu in the bottom right hand corner of the screen, and then tap your selection.
  - b. to change the waveform amplitude, tap anywhere in the waveform area.
  - c. to change the waveform sweep speed, tap **mm/sec**.
  - d. to suspend an active patient alarm, tap **Suspend**.
  - e. to open the patient's Realtime waveform screen, tap **Realtime**. **Note:** If Realtime is grayed out, this patient is not connected to Acuity.

### N. Patient Alarms Delivered to Mobile Devices

1. Mobile devices running Clinician Notifier software are capable of delivering notification of all Acuity System patient alarms. The following alarms are **always** delivered to mobile devices:
  - a. lethal arrhythmia events (v-fib, aystole, v-tach)
2. Other alarm types that may be delivered to your mobile device, if configured are:
  - a. arrhythmia events marked as High level at the Acuity Central station
  - b. apnea
  - c. ST deviation
  - d. HR/PR
  - e. CO2 (MCO2, SCO2)
  - f. Respiration
  - g. SpO2
  - h. ST events marked as High level at the Acuity Central station
  - i. IBP P1, P2
  - j. NIBP
  - k. Temperature

#### O. Two Alarm Delivery Modes

1. All mobile devices respond to patient alarms in either broadcast mode or escalation mode. Devices must be logged in to Clinician Notifier to receive alarms.
2. **Broadcast Mode:** all mobile devices in your unit simultaneously receive alarm notification for all patients in the unit.
3. **Escalation Mode:** A patient alarm is delivered to clinicians in this order:
  - a. **Primary Notification:** A patient alarm is first sent to clinicians who have assigned themselves primary responsibility for the patient in the Assign Patients screen.
  - b. **Secondary Notification:** After a specified amount of time, if a primary responder has not suspended an alarm, the alarm is delivered to all other clinicians in the unit who have indicated that they will receive secondary notification.
  - c. **Broadcast Notification:** After a specified amount of time, if no one has suspended the alarm, the alarm broadcasts to all active mobile devices in your unit.

#### P. Alarm and Alert Notifications

1. Visual: Alarm pop-up windows, or Alarm notification bar at top of the screen
2. Auditory
3. Vibratory (if your device has vibratory capability)
4. **Visual notification pop-up windows:**
  - a. Clinician Notifier patient alarm and equipment alert windows pop up in the foreground of your device screen, even if you are viewing another program.



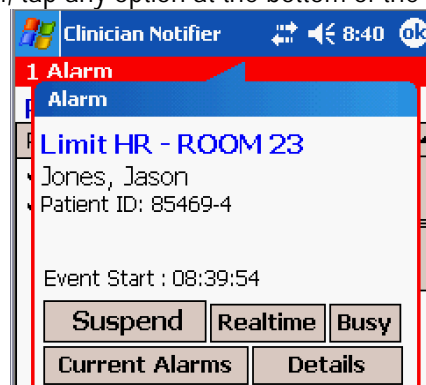
## 5. Alarm notification bar

- a. The green alarm notification bar at the top of the device screen turns red when alarms are sent to your device. The listing shows the number of alarms, how many are not suspended, as well as Equipment Alerts.



## Q. Respond to Patient Alarms

1. There are two types of patient alarm notification:
  - a. single alarm pop-up window with a tone, vibration or both.
  - b. multiple alarm pop-up windows with a tone, vibration or both.
2. Single alarm
  - a. If **only** one alarm is active on your mobile device, the following Alarm pop-up window appears.
  - b. To respond to an alarm, tap any option at the bottom of the screen.



To respond to an Alarm popup window, take one of the following steps:

- to suspend the active alarm, tap **Suspend**.

The Suspend button changes to **Resume**. If you want to resume the alarm, you can tap **Resume**. Notification of all alarms for this patient is suspended for 90 seconds on all mobile devices that have received the alarm. However, new lethal arrhythmia and apnea alarms for the same patient interrupt the suspend state. Tones are also suspended for this

patient at the Acuity Central Station and the patient monitor.

- to indicate that you are busy, tap **Busy**. Notification for this alarm stops *only on your device*. Notification returns to your device if someone else suspends the alarm and it remains active after the 90 second period.

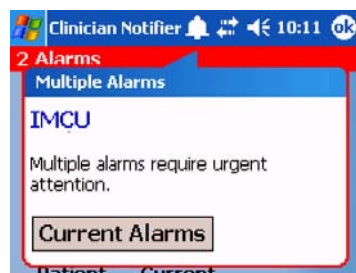
To view related information, take one of the following steps:

- to view the patient's realtime waveform, tap **Realtime**. (This suspends alarm only at your device for 10 seconds giving you time to assess the alarm.)
- to view all active alarms on your mobile device, tap the alarms status bar or tap **Active Alarms**. (This suspends the alarm only at your device for 10 seconds, giving time for you to assess the alarm.)
- To view details of the alarm, tap **Details**.

In any of these pages, you can choose to suspend the alarm.

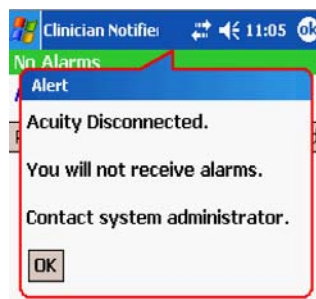
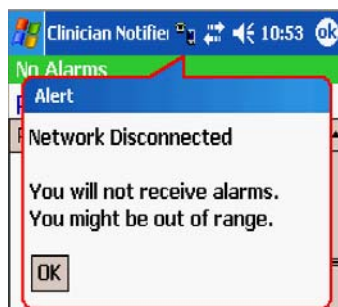
### 3. Multiple Alarms

- If more than one alarm is active on your mobile device, the following Multiple Alarms pop-up window appears in the foreground of your screen.
- Tap **Active Alarms** to stop the alarm on your device.



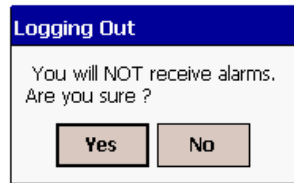
### 4. Disconnection Alerts

- A Network Disconnected or Acuity Disconnected alert occurs when you have either gone out of range or your server is not communicating properly. This screen will also have a chirp tone, vibration or both. The chirp will repeat every 20 seconds until communication is resolved.

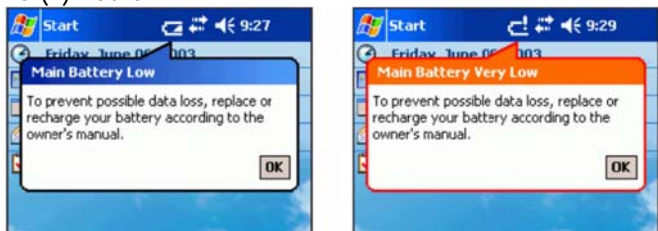


## R. Log Out of Clinician Notifier

1. Tap **ok** in the upper right hand corner of any screen. The Log Out window appears.



2. Tap **Yes**.
3. Recharge the device.
4. Log out of Clinician Notifier for the following occasions:
  - a. when you do not want to be notified of patient alarms.
  - b. to exchange the device battery.
  - c. to move to another unit during your shift. Mobile devices are assigned to only one unit.
  - d. before the device is given to another clinician.
5. **Main Battery Low alerts**
  - a. To respond to a Main Battery Low or Very Low alert, tap **ok**.
  - b. Tap **ok** in the upper corner of the screen.
  - c. Tap **Yes** to log out.
  - d. Turn off the device and recharge it or replace with a fully charged battery.
  - e. Log in to a new mobile device. Your patients remain assigned to you if you log in again, within two (2) hours.



## S. Maintenance

1. Recharge or replace a battery:
  - a. log out of Clinician Notifier.
  - b. turn off the mobile device.
  - c. recharge or replace the battery according to the manufacturer's directions.
2. Clean the mobile device according to the manufacturer's directions for use and standard hospital practice.