MANUAL FOR MOBILE MAPPER

© 2013

Rev May/2013

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OVERVIEW

Mobile Mapper is the ideal tool for mapping and managing your essential fire department information.

Registration

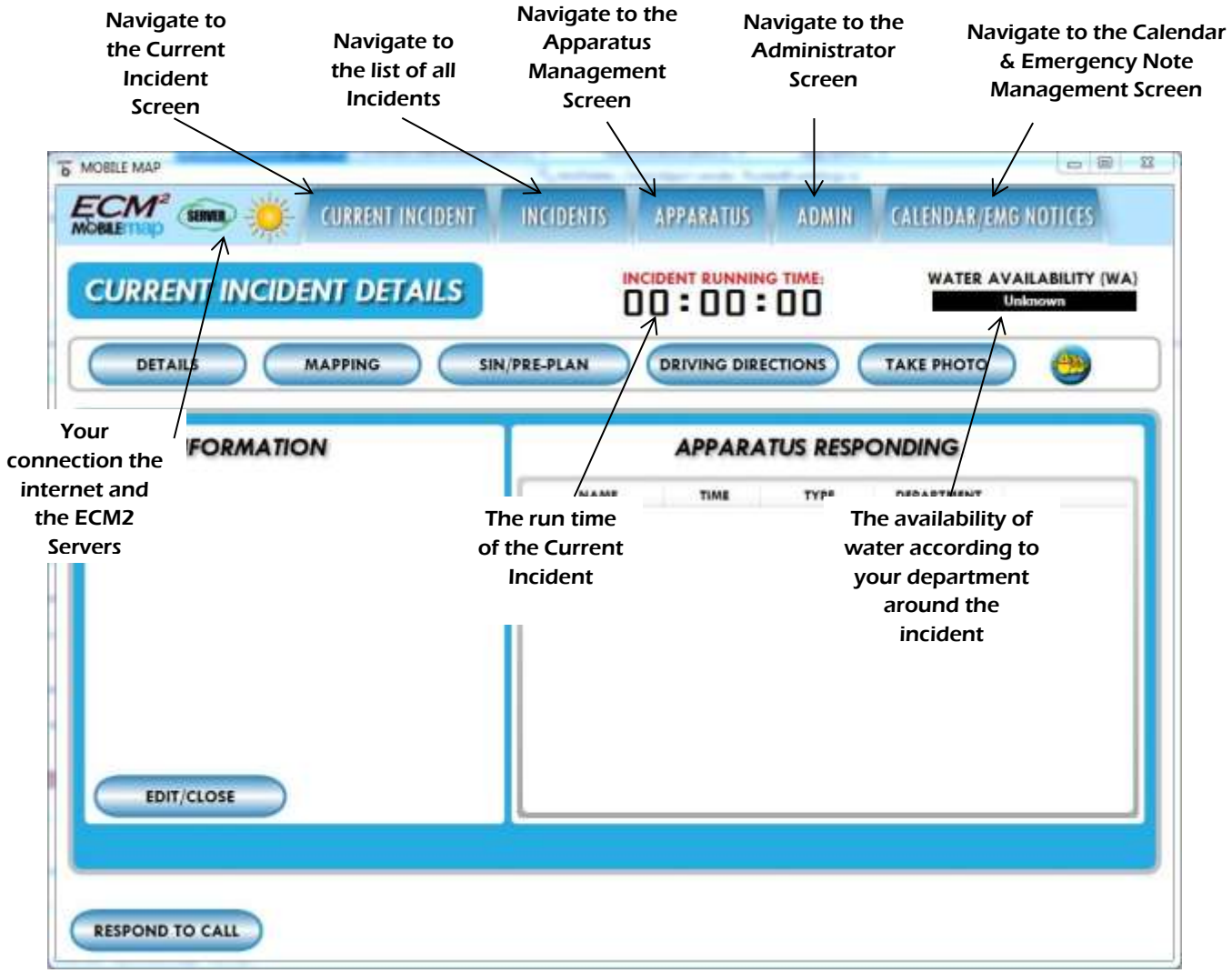
Upon initial launch of Mobile Mapper you will be prompted with a Registration screen. You will be prompted and should have the following information on hand about your station:

1. State
2. County
3. Station Name or Handle
4. The provided password

Upon pressing the "Register with ECM2" button and connecting to the server you will be presented with the Main Current Incident Screen.

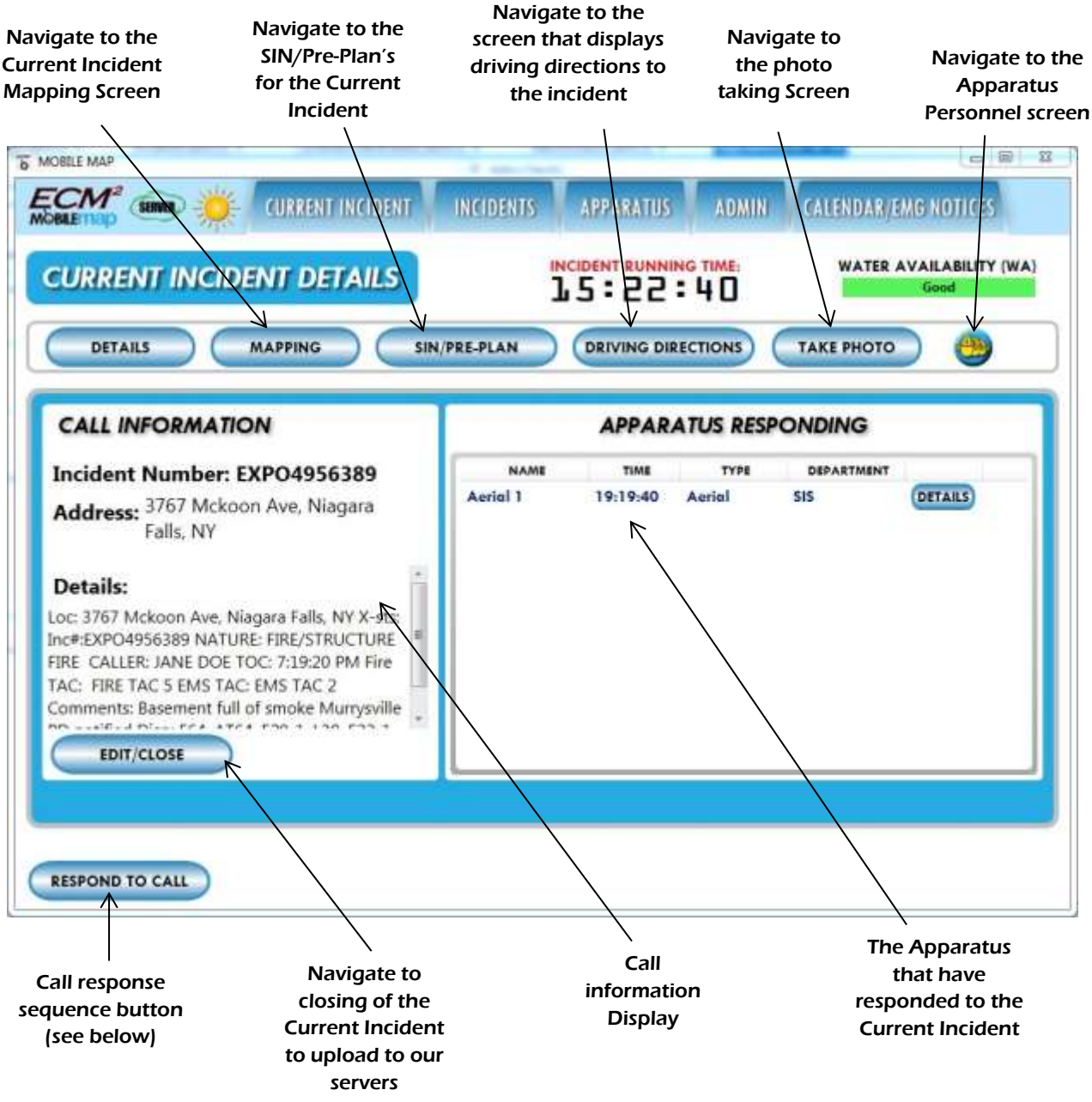
You may close registration early but keep in mind you won't be able to access the Main Window until completion of registration

Current Incident Details (Main Window)



**Note if you don't have a valid internet connection your connection to our servers will be lost and the image will look like this:

Current Incident Details(Cont.)



Current Incident Details (Cont.) explained

As the first screen you come across and an interface to the rest of the application, the current incident screen also displays and records vital information about the Current Incident.

The Call information section displays all the call information gathered and sent by the 911 center. The Apparatus Responding box displays all the current Apparatuses that have responded to the current incident.

The call sequence buttons track your Apparatuses time for each portion of the incident as shown below:

The first button pressed which indicates your apparatus is responding to the call and placing you on the apparatus responder list.

Next you will choose if you're assisting another department's incident.

Next, the time the apparatus arrived on the scene of the incident.

Next, the time the scene of the incident was deemed controlled

Next, the time at which the apparatus has cleared the scene.

Finally, the time the apparatus has returned to the station.

Essentially this screen is designed to show all the information about the call, who is responding to the call, and to collect the information of the apparatus' lifecycle for the call.

In addition the Water Availability indicator has four states.

1. Red for No Water Available.

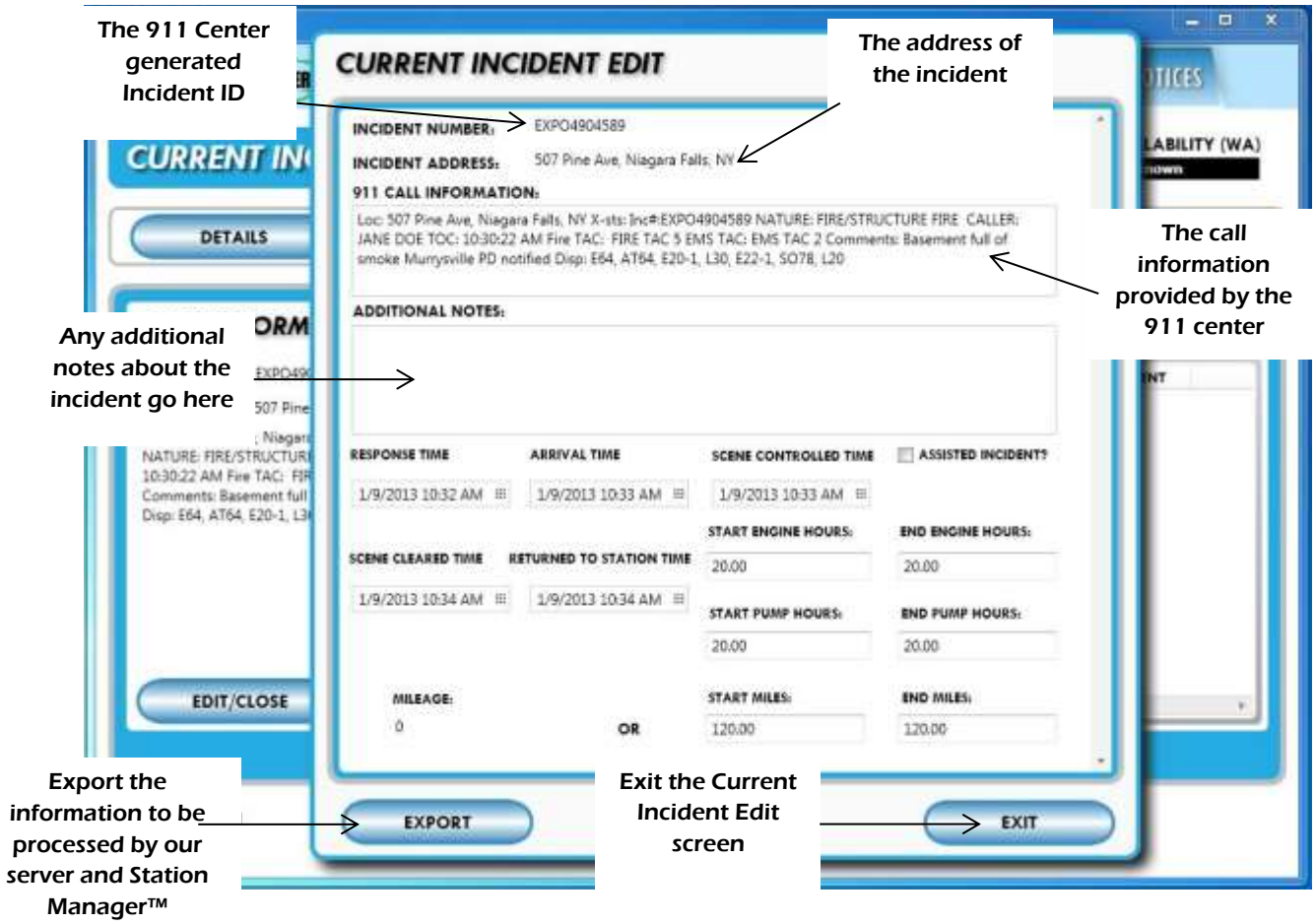
2. Yellow for Limited Water Available.

3. Green for Good Water Availability.

4. Black for Unknown, meaning your station hasn't designated the are yet

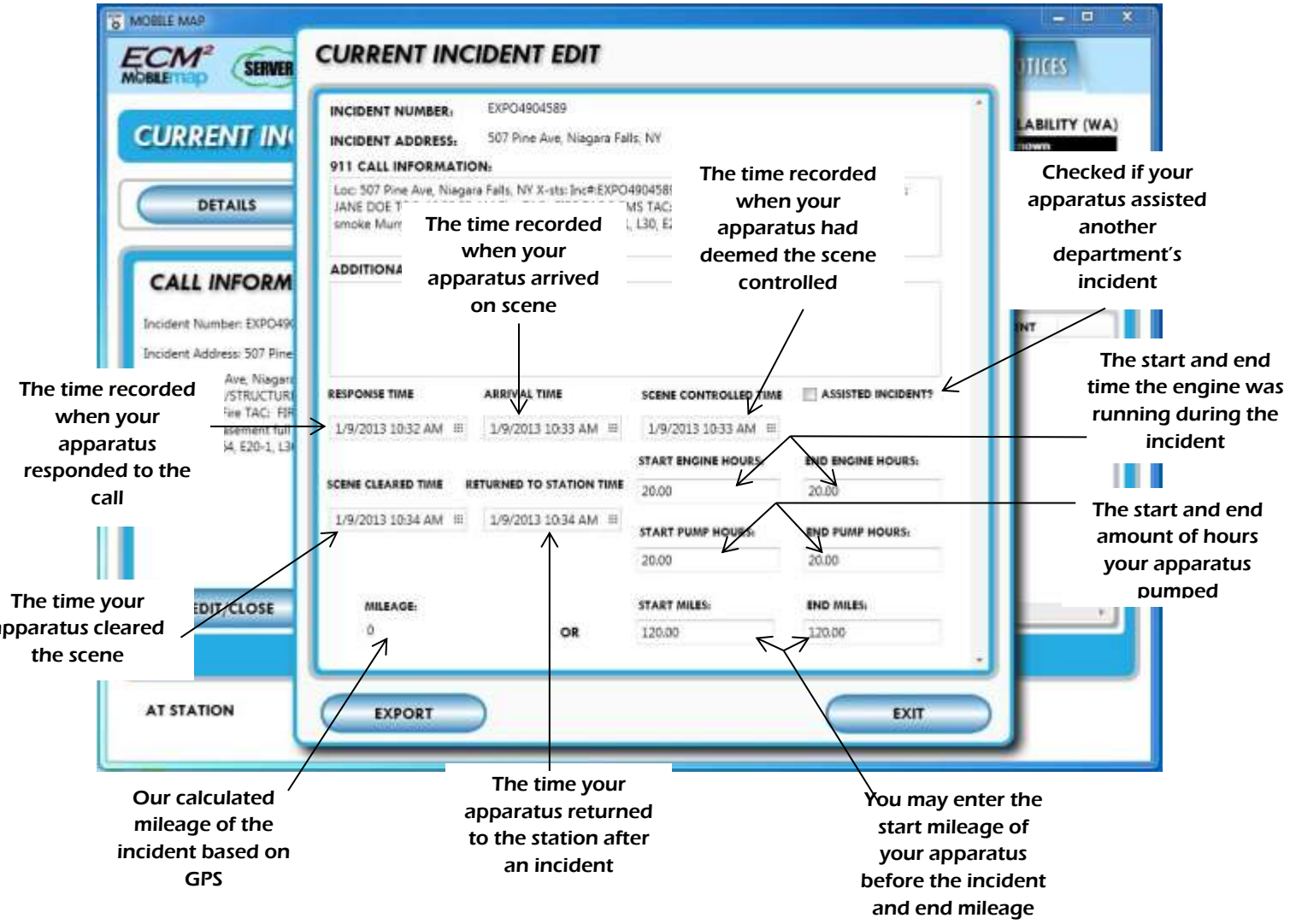
(See Edit Layers)

Edit/Close Incident



**Note try to ensure proper hours, e.g. if your start hours are 20, try and make your end hours 20 or more. Also your arrival time should come after your response time and so on.

Edit/Close Incident(Cont.)



The Edit incident screen allows you export your incident along with all its information to our servers. From there if your station has purchased Station Manager™, you may use our top-of-the-line Incident management software to manipulate and finalize this information for reporting and archiving!

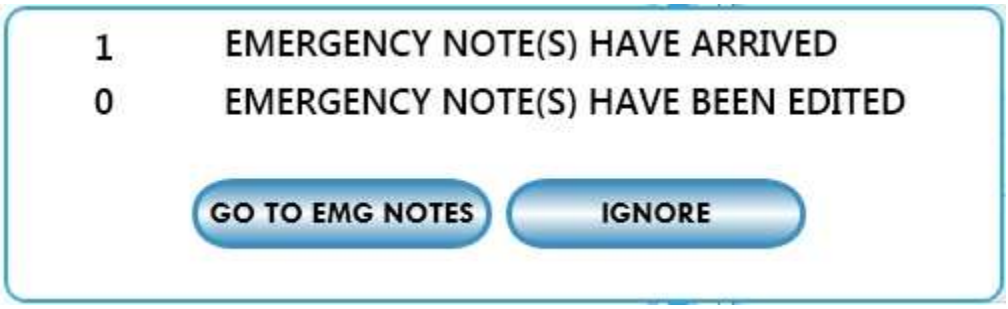
Popup Notifications

Whenever Mobile Mapper is running and your 911 center pushes a call to every station you will receive a push notification within seconds. Push notifications through Mobile Mapper™ ensure you know about a call and receive all information for that call within seconds. They also inform you about important emergency notifications in your area.

Incident Notifications

This is the popup you will see upon receiving a call. You may choose to go to the Current Incident Details screen and proceed with the call, or ignore the call if you're busy doing something else. If no choice is selected within a certain number of seconds you the popup will disperse and you will be moved automatically to the Current Incident Details screen. You may adjust how long until you're automatically moved on the Admin page (see Admin and Settings).

Emergency Notifications



This notification will pop up when somebody in your station makes a modification or adds a new Emergency Note within your district. As before, you may click, "Go to Emergency Notes," to go directly to the screen containing the notes, or press "Ignore" to continue what you are doing. Upon timeout you will not be directed to the Emergency Note page.

Current Incident Map

As you can see the Main navigation buttons (Current Incident, Incident, Apparatus, Admin, and Calendar/EMG Notices) and Incident buttons and information (Details, Mapping, SIN/Pre-Plan, Driving Directions, Take Photo, Incident Time, and Water Availability) are replicated on this page for ease of access. Even the call sequence buttons are replicated here for ease of access.

Toggle the GPS On/OFF

The Incident Location

Toggle the Layer Menu

The layers and objects associated show up on the map at the location they are placed

Your station's location

(-) Zoom out
(+) Zoom in

Road View/Aerial View

The location of your cursor

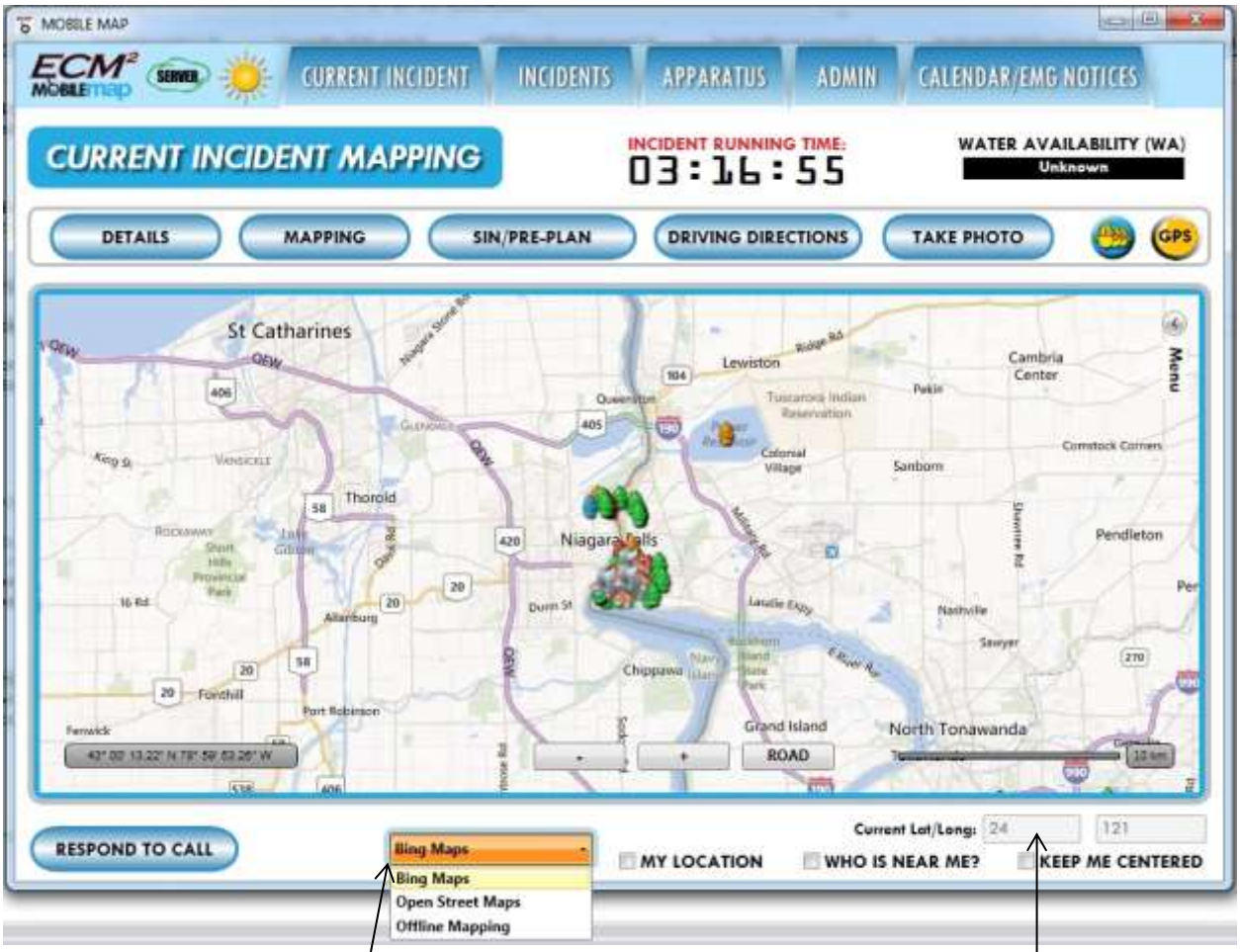
Show your location on the map.

Show nearby apparatuses, even from other stations

The map will follow you as you move.

Choose which layers of objects you'd like to show.

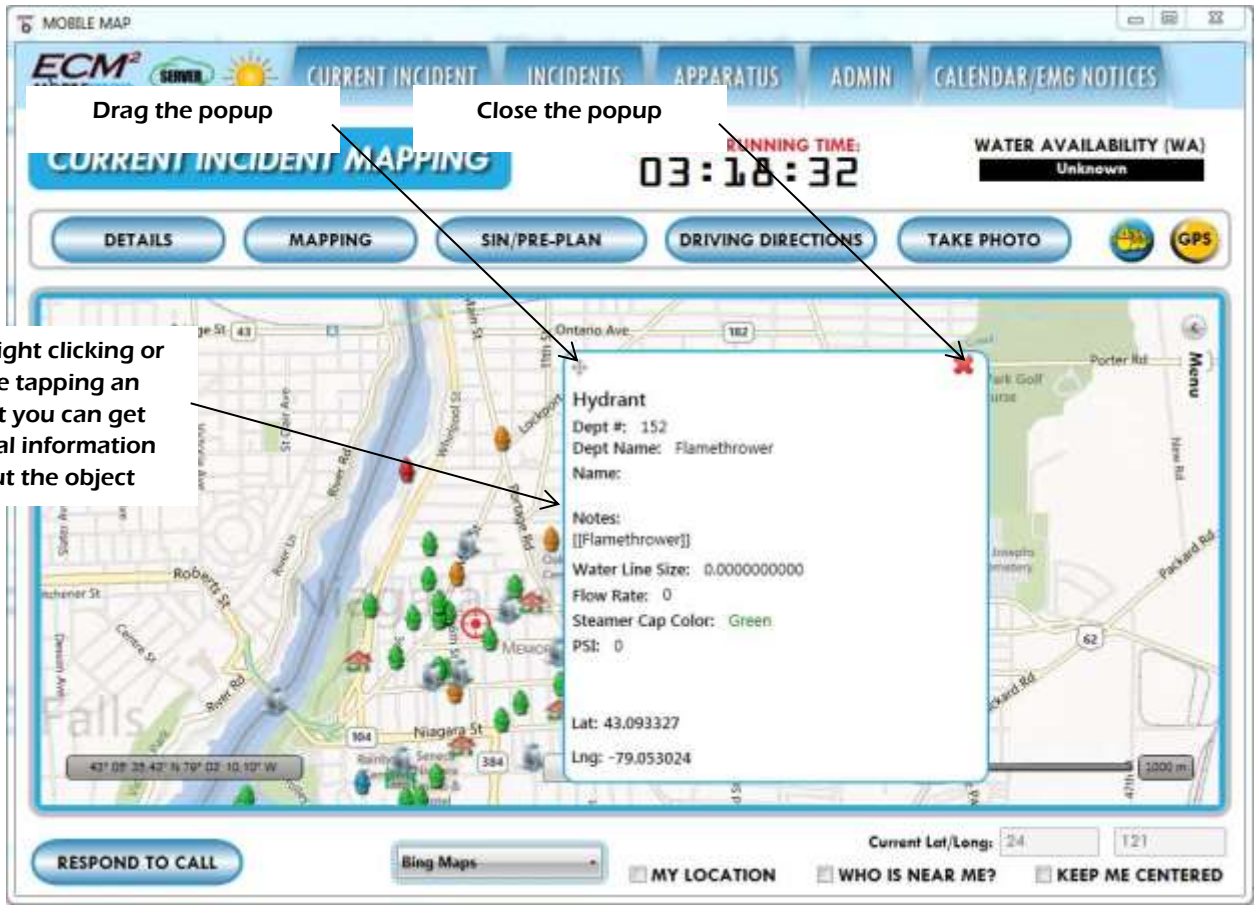
Current Incident Map(Cont.)



Choose the map provider. In Offline Mapping most mapping functions will work even without a valid connection

Your apparatus' current location in Latitude – Longitude will be shown here.

Current Incident Map(Cont.)



The Current Incident Map is your immediate interface to all the incident related objects and it's mapped data.

First let's start with the GPS Button. The GPS Button begins as Red indicating that it is not running. Upon clicking the GPS Button it will changed to Yellow. This indicates that the GPS is searching for a signal. After a successful connection the image will finally flash Green indicating you have a valid GPS signal and are being tracked. After you have a valid GPS signal you may check any of the three check boxes located at the bottom of the screen. My location will show your location and move as you move. If you don't have a valid GPS signal then it'll just show at your station's location.

If Who Is Near Me? Is checked, then you will see all apparatuses around you from your station and possible other stations within a radius (which may be changed in the Admin section). Each apparatus nearby will be identified by their Display Code.

Keep Me Centered will do just that. It will follow you as you travel around with a valid GPS Signal, making panning impossible.

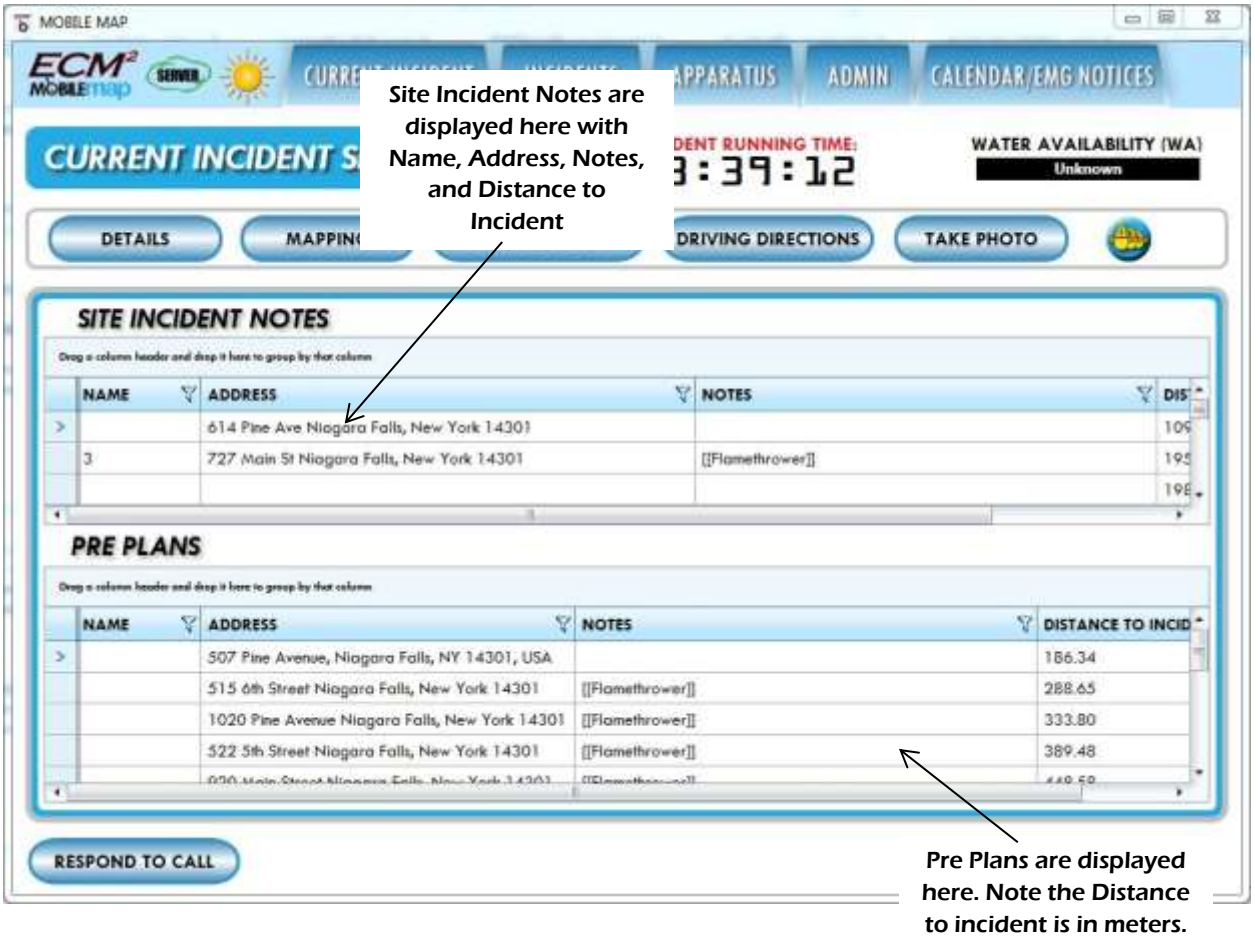
The map provider drop down box is provided for speedy switching between map providers. Some map providers may drop in certain areas so switching between them is useful. For offline mapping all functionality of the map still exists we simply lose the ability to tell others where you are on the map. Offline mapping also only pertains to your district and is a pre-determined area upon set-up. Please note that Aerial and Road views are only available for Bing Maps.

As far as map functionality, the three buttons at the bottom center are for zooming, and changing the view of the Bing Maps Provider only between Aerial(Satellite) and Road view.

Any map object may be right clicked on, and any **point** (not Shape or Polygon) may be tapped to gain more information about that object. SIN and Pre-Plans give the option to view the PDF associated with them.

Finally and most importantly, at the top right there is a menu arrow. This allows you to view our 16 layers for incident and district related map objects. Each menu item may be toggled on and off as a check box would. If checked, the items for your district show on the map, if unchecked they don't show. The 16 Layers will be explained each in detail in our **Edit Layers** section.

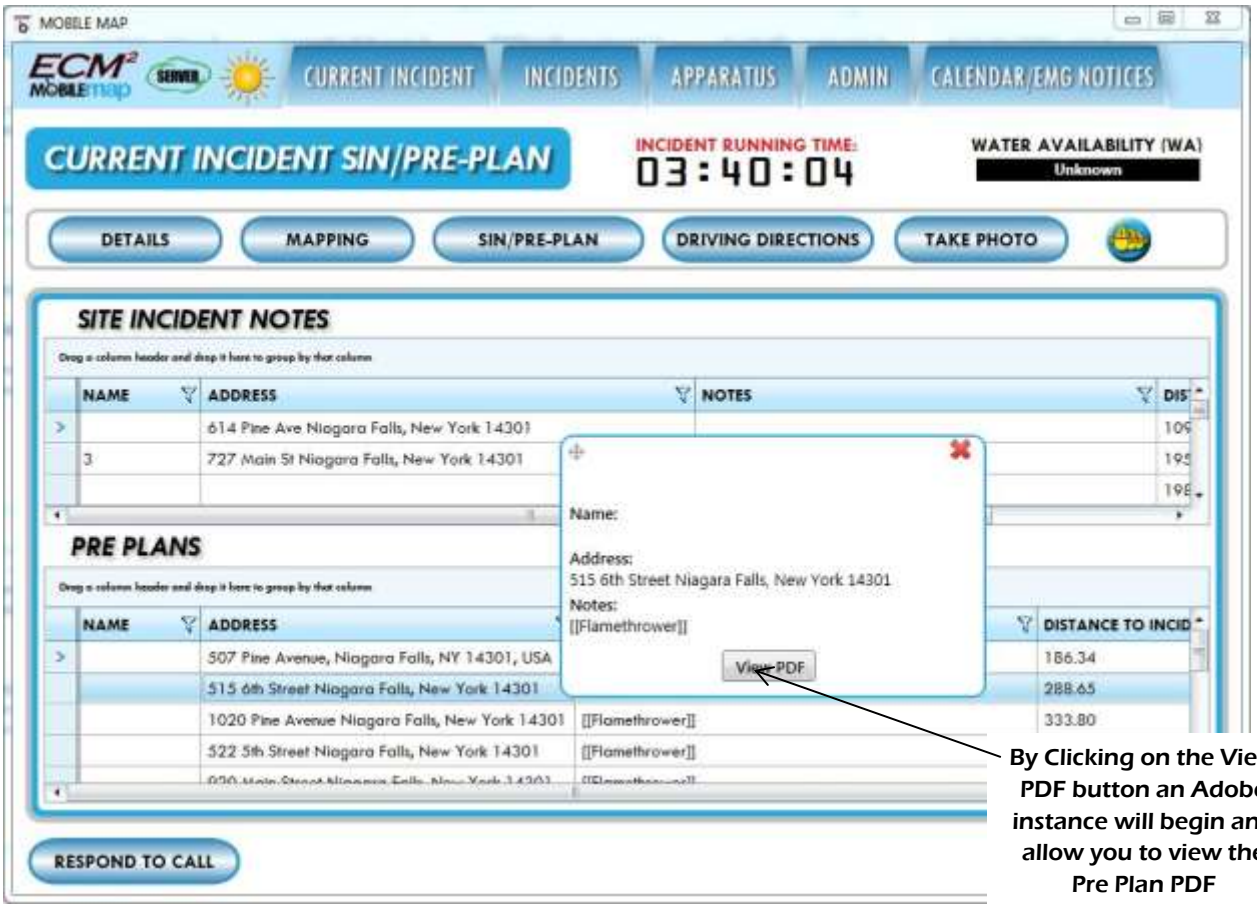
Site Incident Notes and Pre-Plans



** Notice that all the Current Incident Details is preserved even in the SIN/Pre-Plan page.

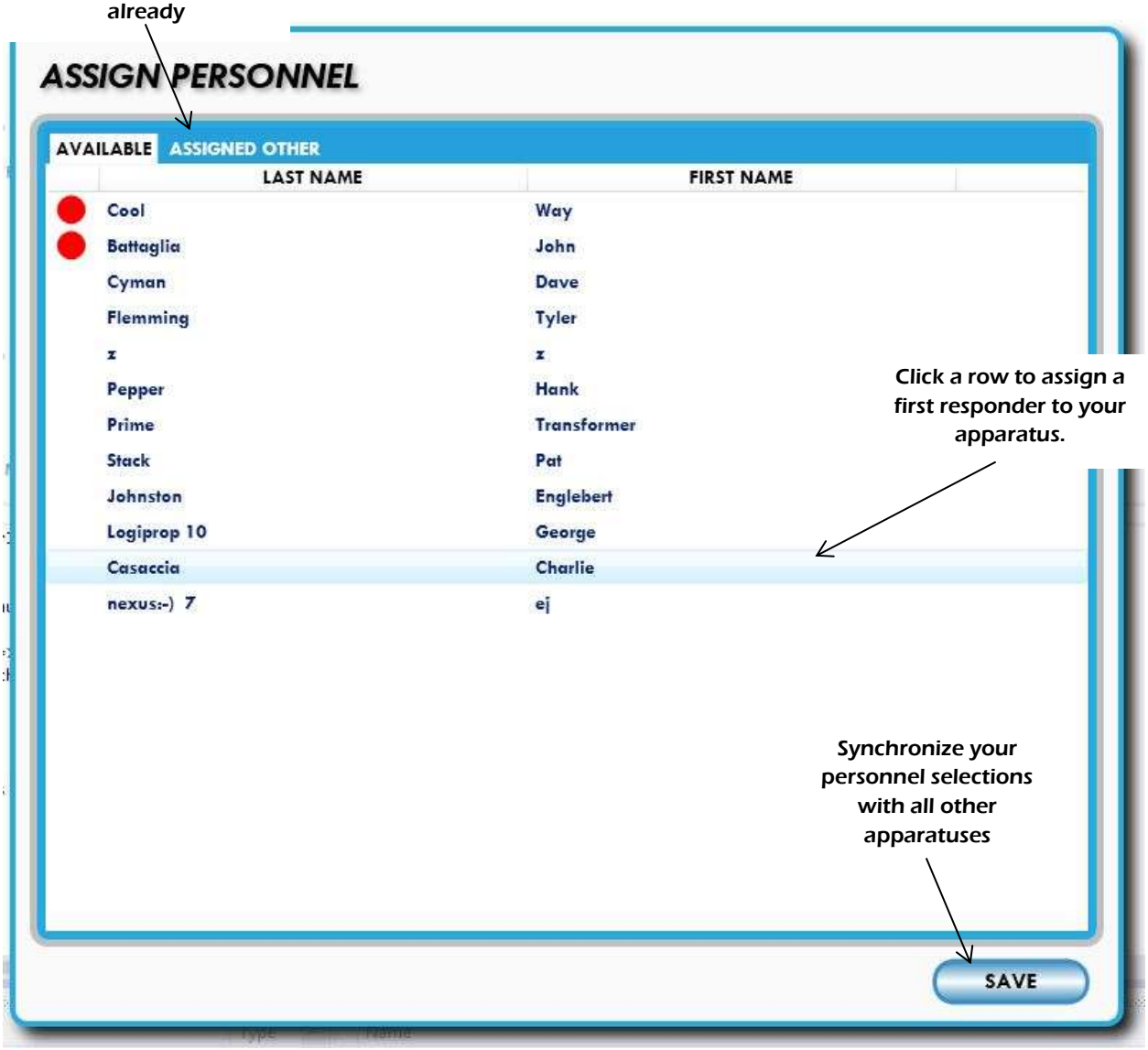
Site Incident Notes and Pre-Plans (Cont.)

By double clicking on a row in either the Site Incident Notes List or Pre Plans list you may view a popup with the information about that specific SIN or Pre Plan.



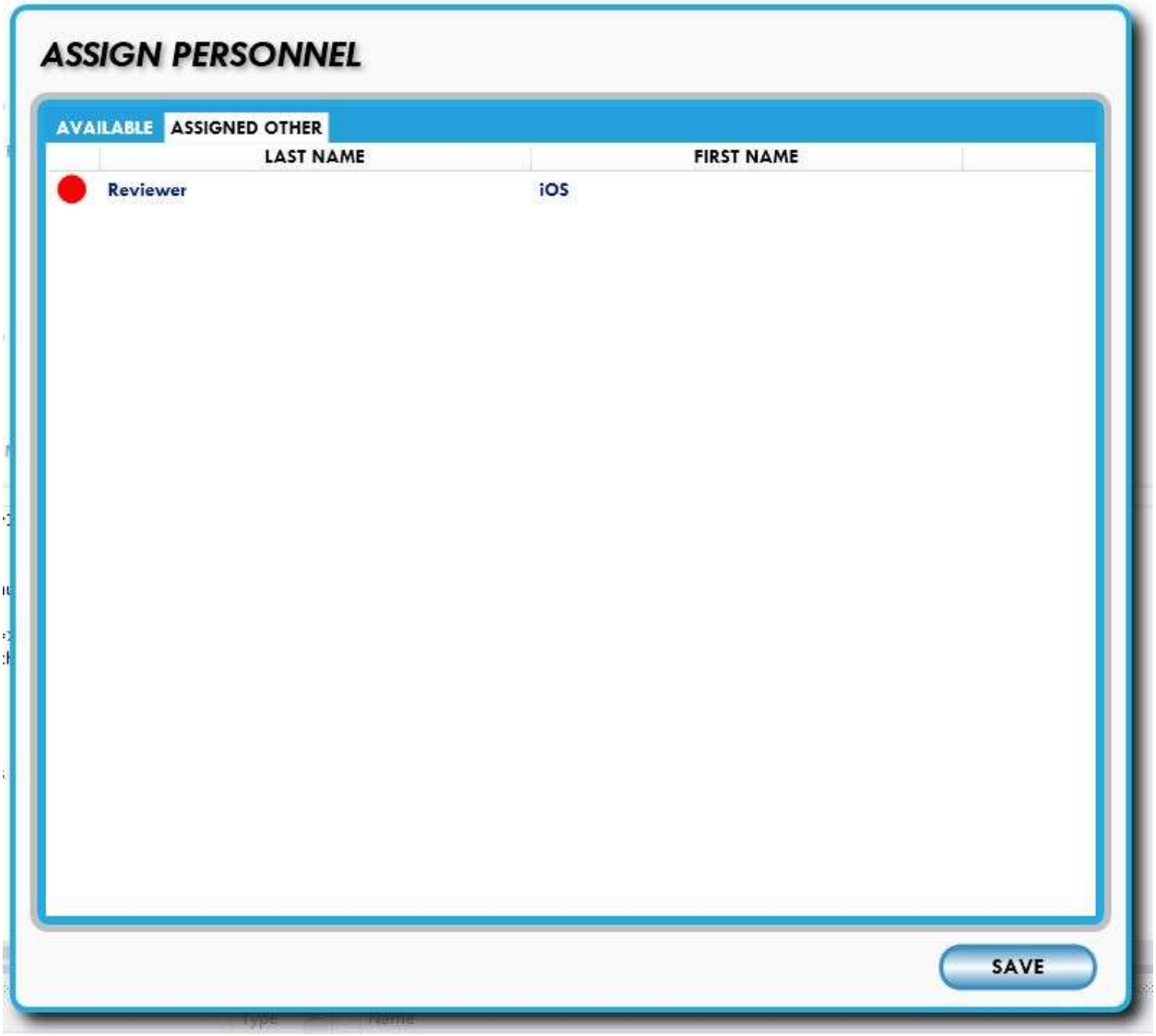
By Clicking on the View PDF button an Adobe instance will begin and allow you to view the Pre Plan PDF

Apparatus Personnel



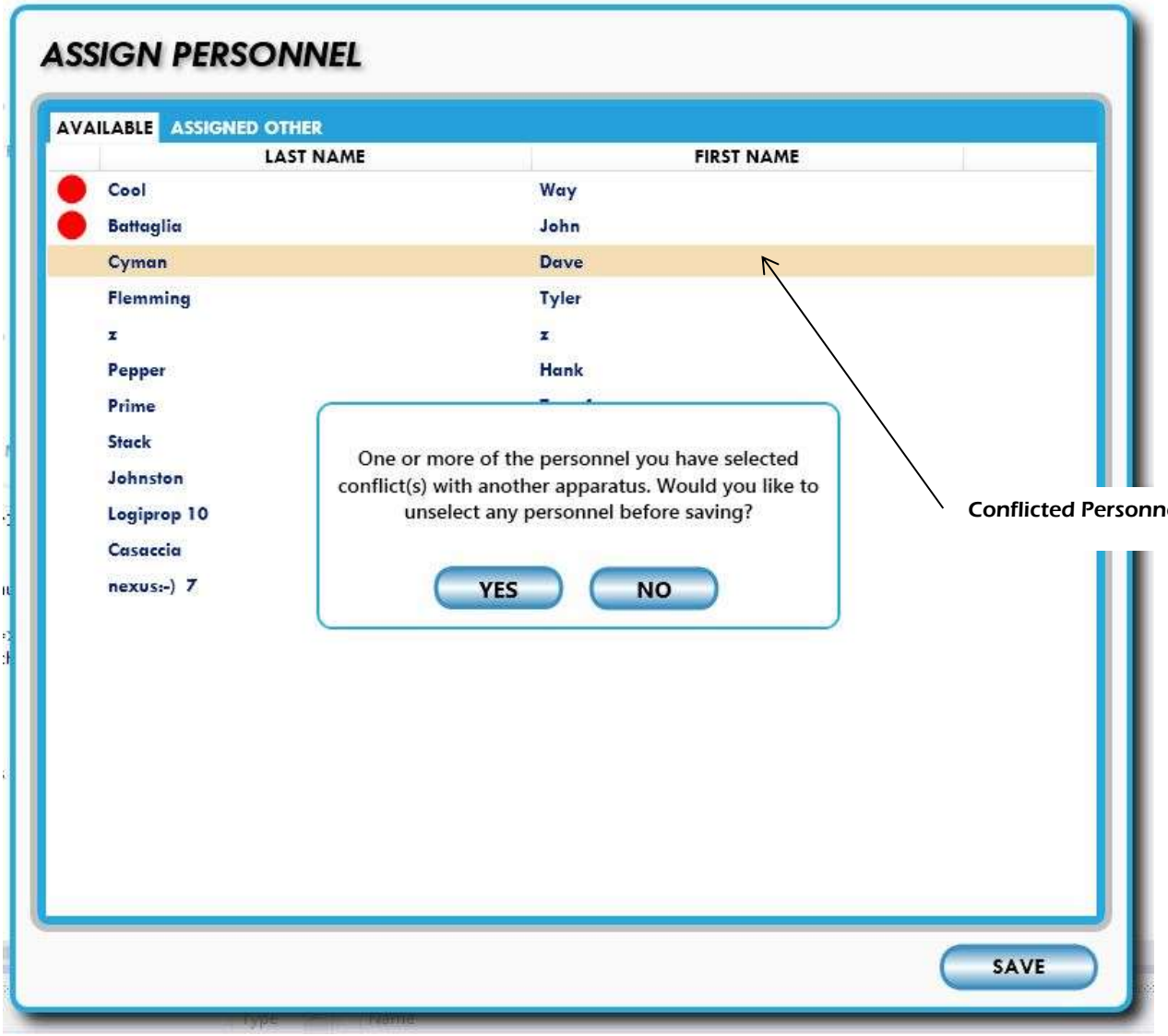
The Assign Personnel page allows the first responder to select which personnel are currently present on their apparatus.

Apparatus Personnel (Cont.)



This screen shows which users are already assigned to another apparatus. You may choose this personnel but it will create conflict.

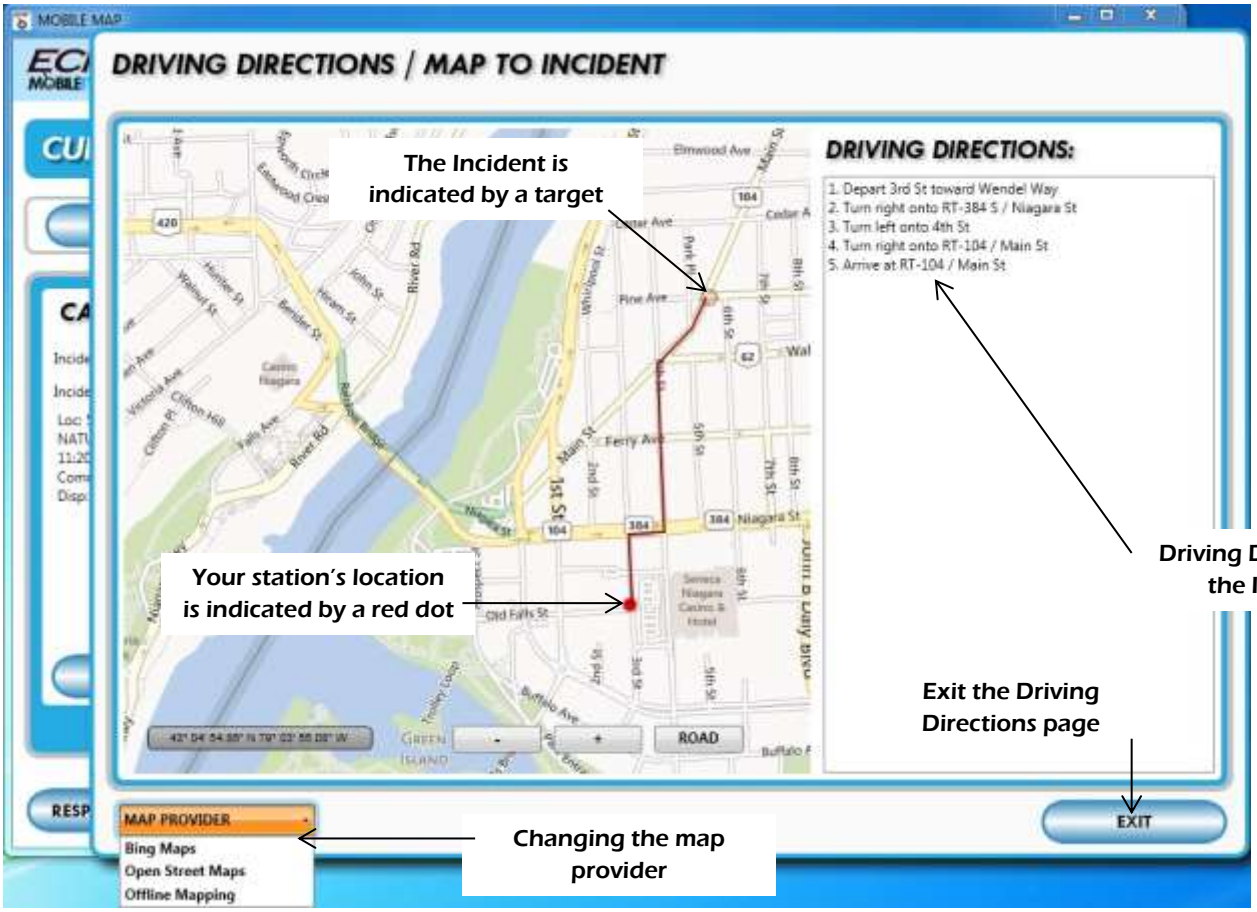
Apparatus Personnel (Cont.)



This popup will show if you've selected a responder who has already been selected by another apparatus in your station.

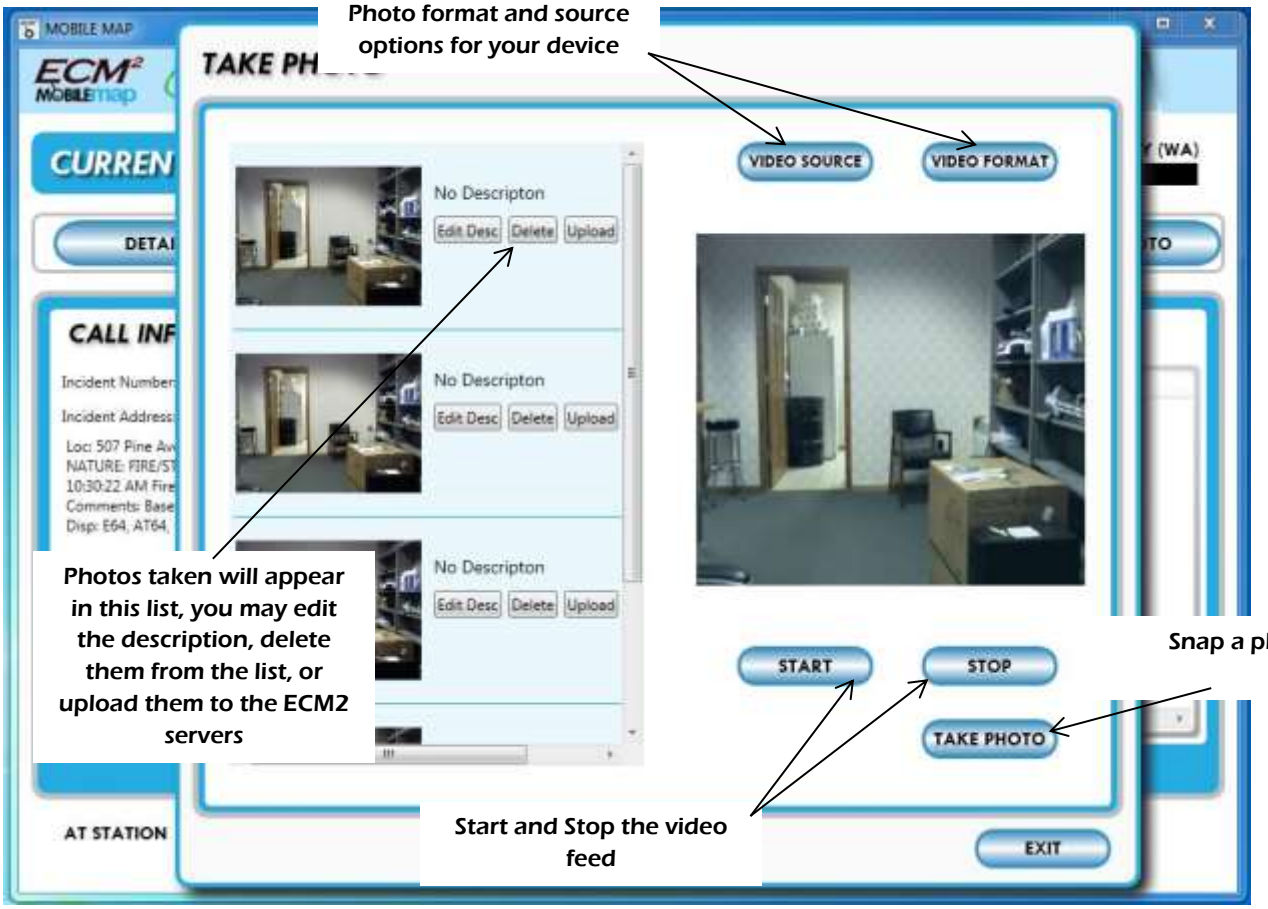
**If left unresolved and both users still have the same personnel selected, the apparatus who selected him first will ultimately get that person. (You can change this later with Station Manager™)

Driving Directions



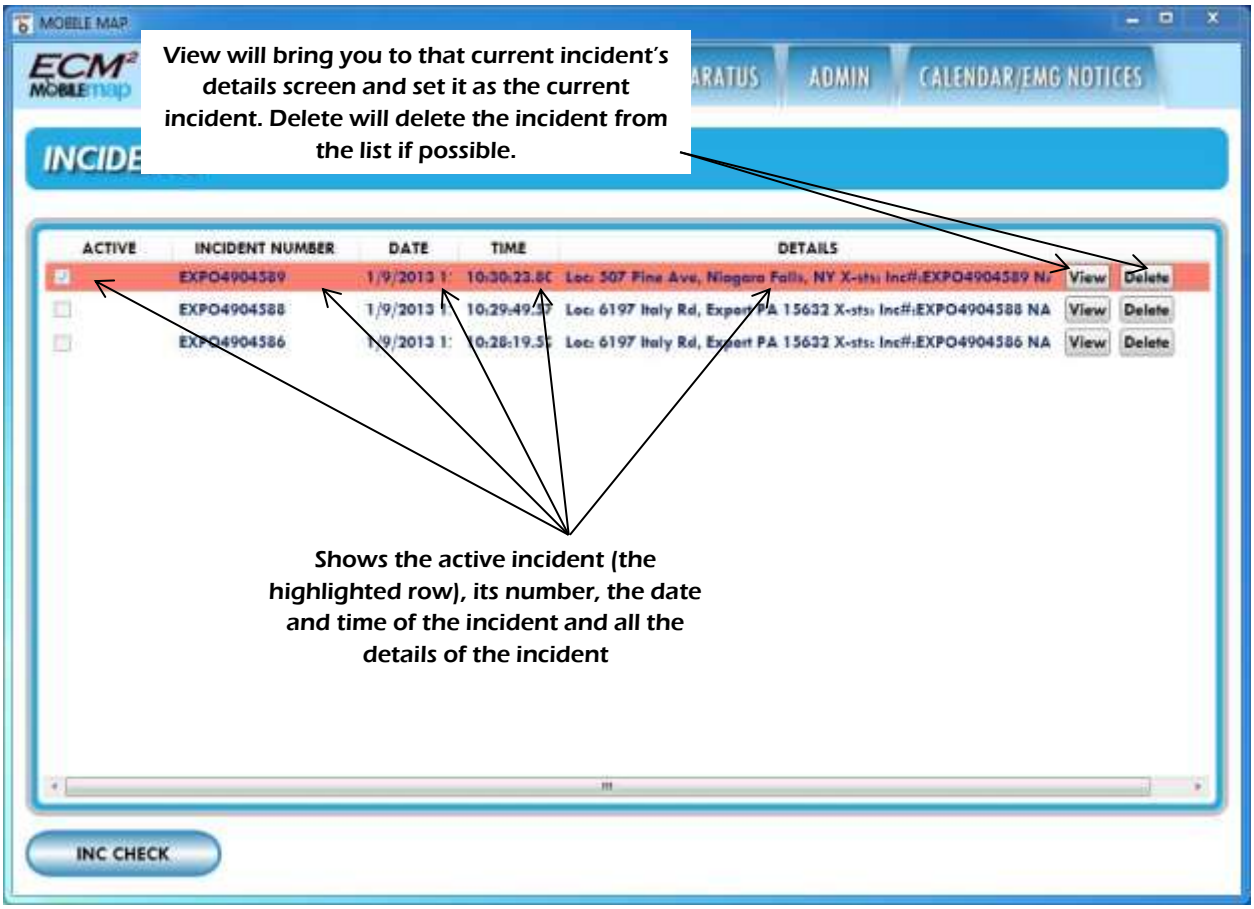
**Note map controls work similarly to Current Incident Mapping. Zoom controls, Road/Aerial views, and Map providers are all identical.

Take Photo



**Note that leaving this screen all your snapped photos in the list will be lost. This is only for temporary uploading. After uploading a photo it may be used in Station Manager™.

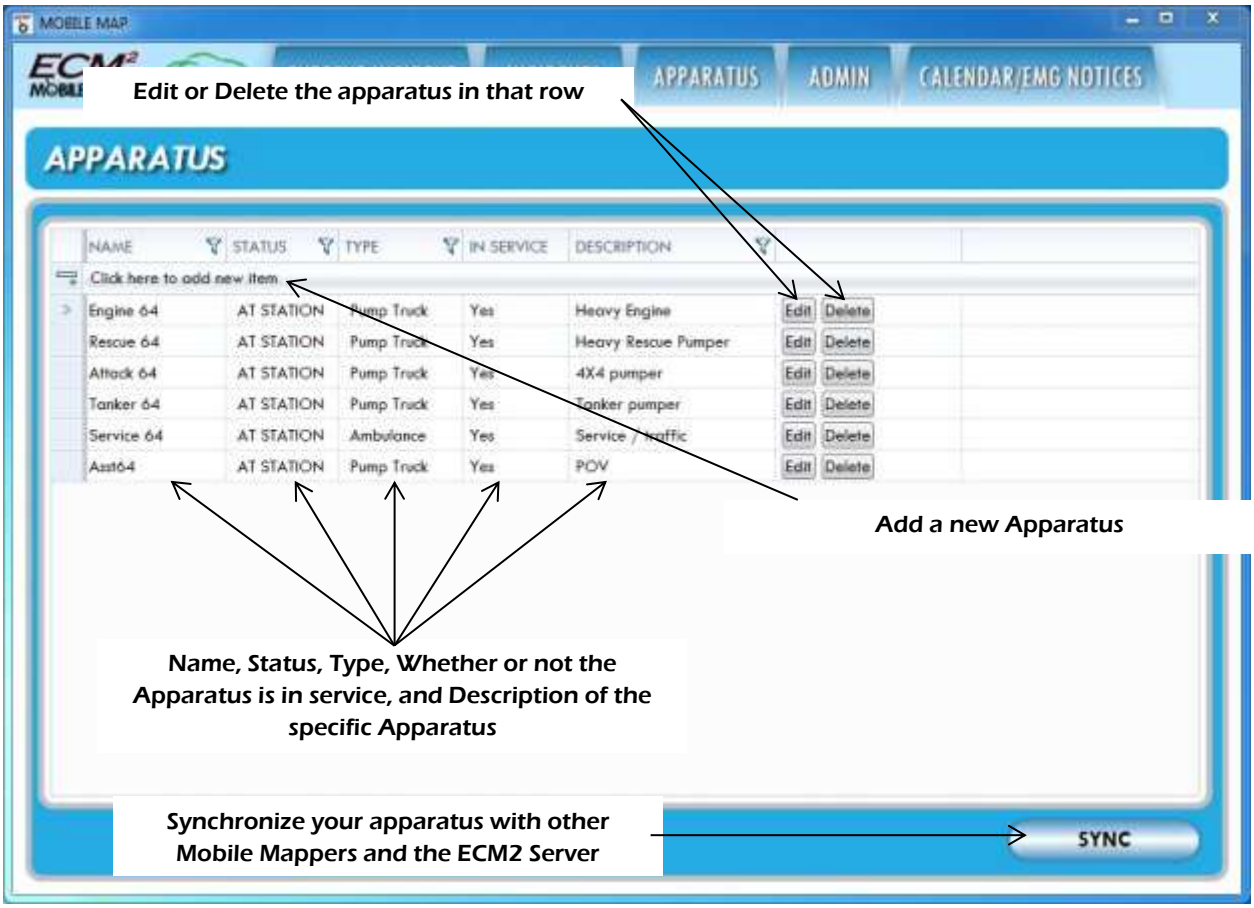
Incidents



**Note you may not delete incidents that you are currently in response to, or have finished responding to but haven't exported yet.

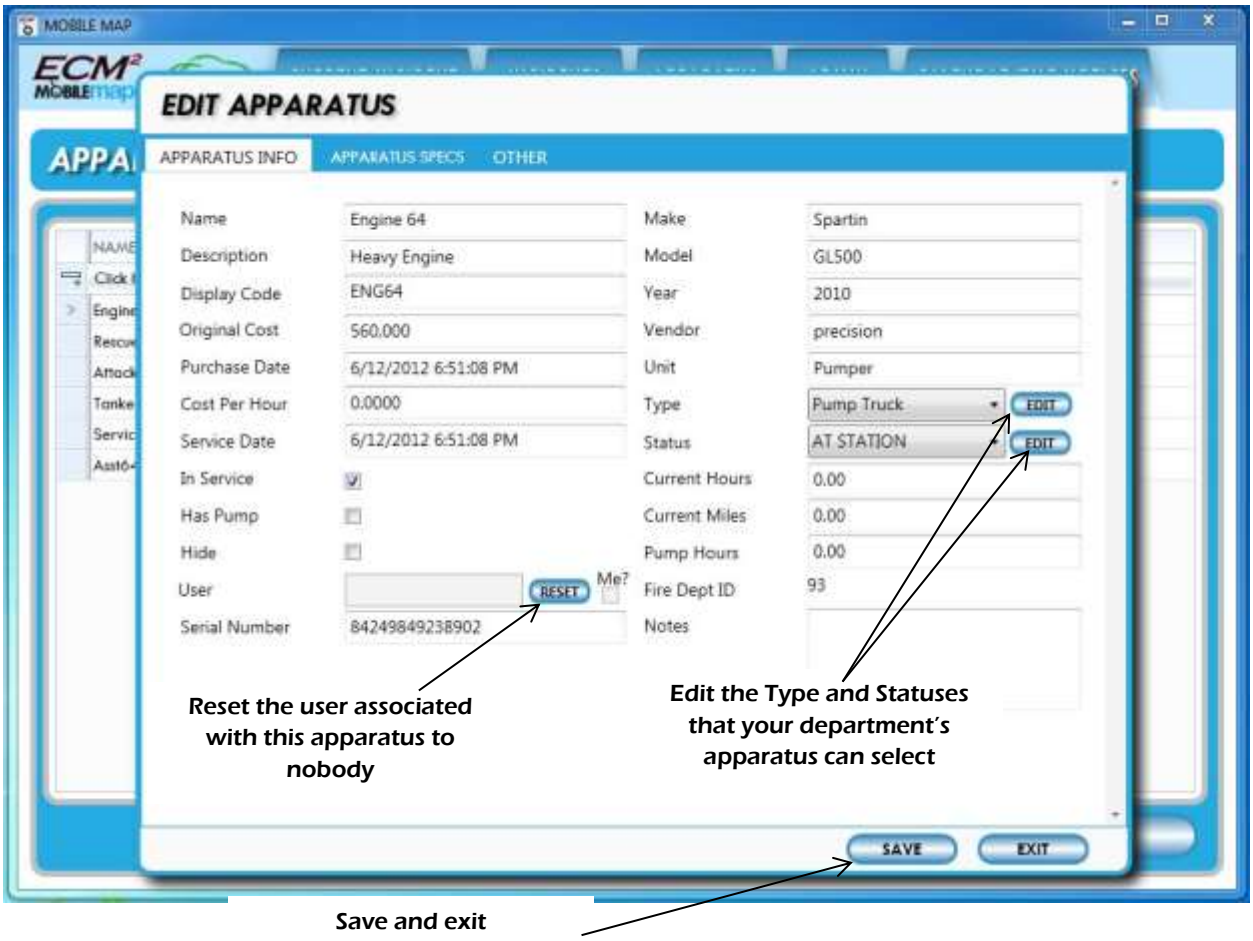
Apparatus

This screen is password protected by the Admin password.



**Note that all information about an apparatus is edited within the Edit Apparatus screen and not directly in the list. Also, the sync button will flash when there are changes that you may synchronize with the ECM2 Servers. Please also note that resetting an apparatus that isn't yours can affect other responder's Mobile Map.

Edit Apparatus

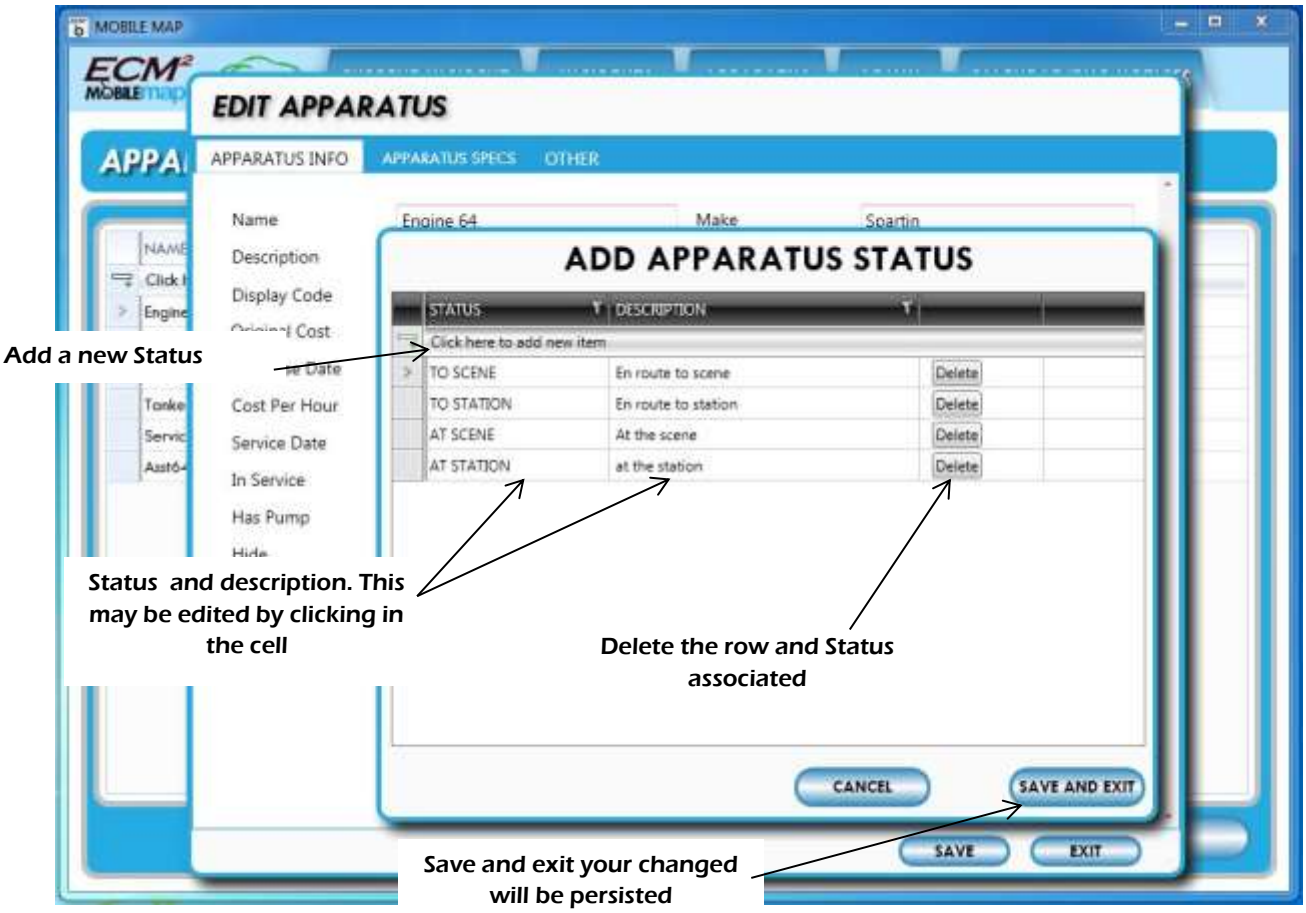


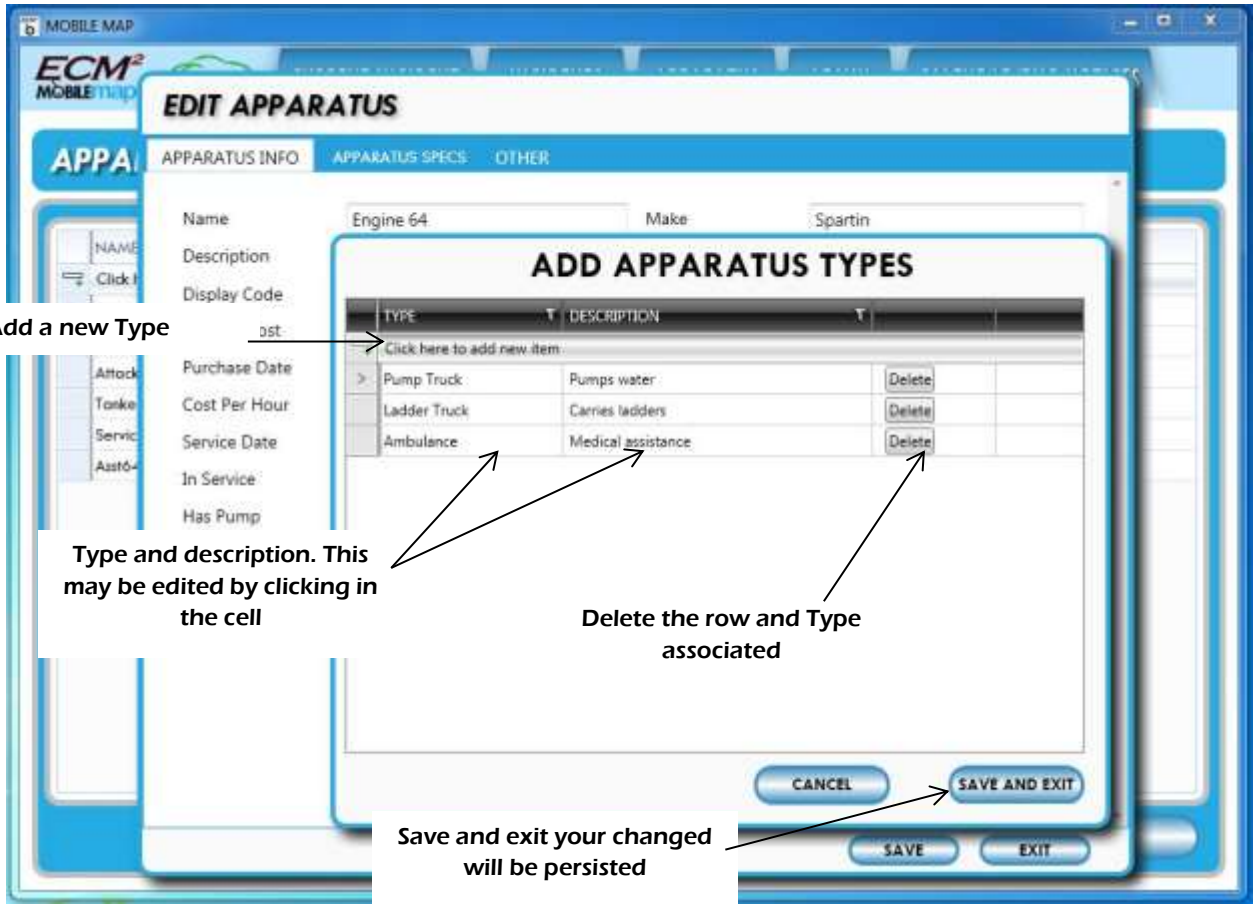
**Important: When resetting an apparatus, if that apparatus is not you, the user that is reset may not respond to any calls and lose Current Incident Map functionality.

**Note that all fields should be logically entered. Dates should be in date format, numbers in number format, etc. Also note that no other users will see your changes until on the main Apparatus page the flashing Sync button is pressed. Also cancelling any menu will not save your changes.

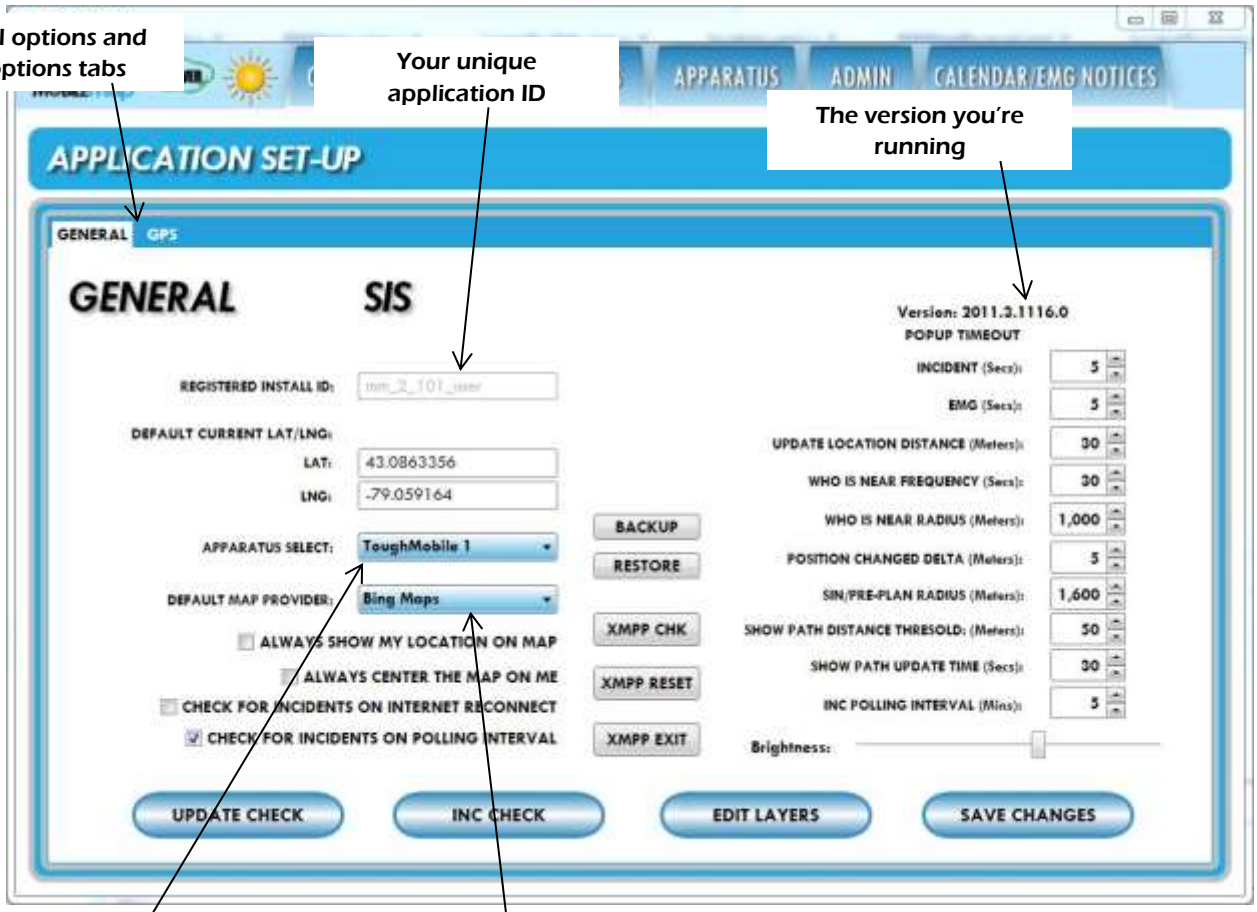
Edit Apparatus (Cont.)

**Specifications of the Apparatus are specified here

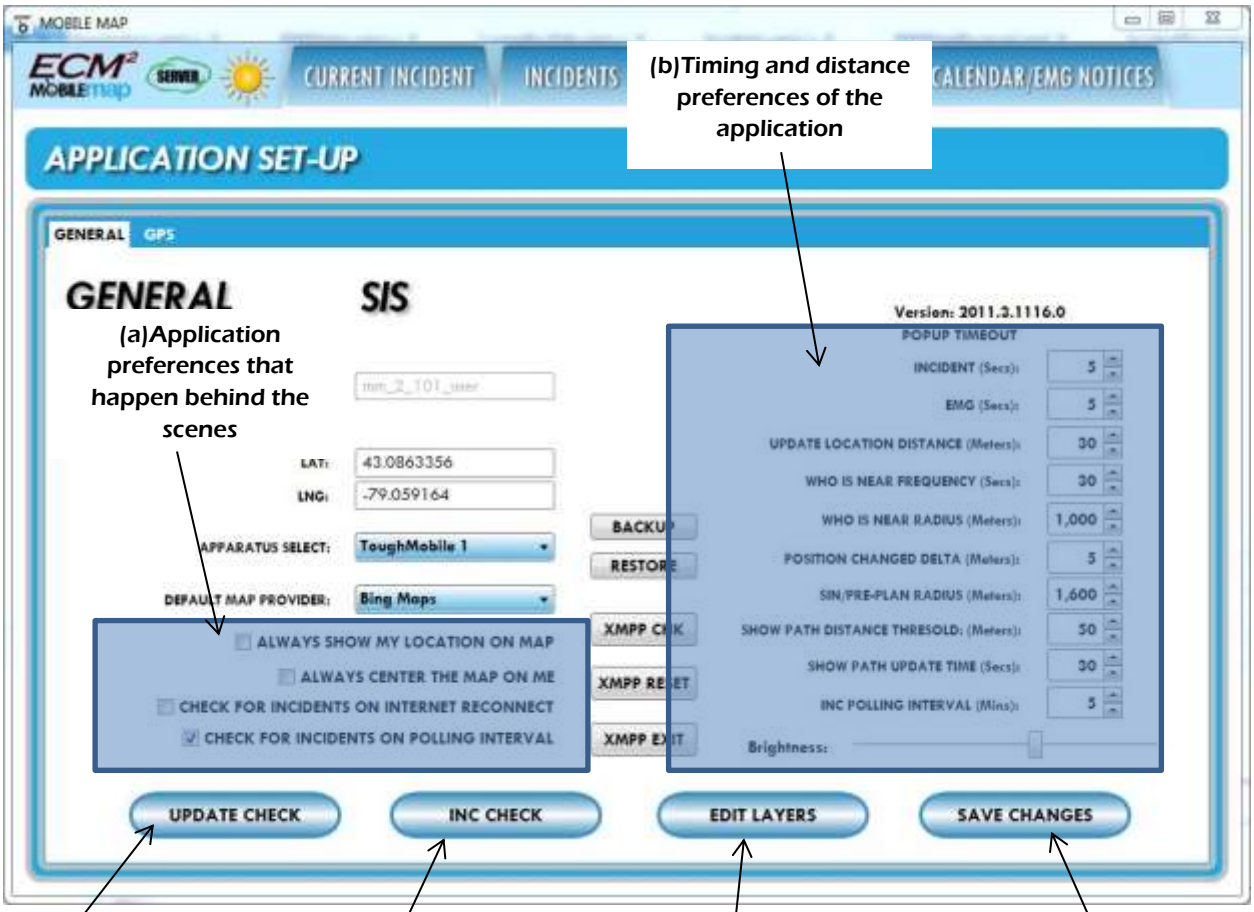

MOBILE MAP
EDIT APPARATUS
APPARATUS INFO
APPARATUS SPECS
OTHER
Name
Engine 64
Make
Spartin
Description
Display Code
Cost Per Hour
Service Date
In Service
Has Pump
ADD APPARATUS STATUS
STATUS
DESCRIPTION
Click here to add new item
TO SCENE
En route to scene
Delete
TO STATION
En route to station
Delete
AT SCENE
At the scene
Delete
AT STATION
at the station
Delete
CANCEL
SAVE AND EXIT
SAVE
EXIT
Add a new Status
Status and description. This may be edited by clicking in the cell
Delete the row and Status associated
Save and exit your changed will be persisted


MOBILE MAP
EDIT APPARATUS
APPARATUS INFO
APPARATUS SPECS
OTHER
Name
Engine 64
Make
Spartin
Description
Display Code
Purchase Date
Cost Per Hour
Service Date
In Service
Has Pump
ADD APPARATUS TYPES
TYPE
DESCRIPTION
Click here to add new item
Pump Truck
Pumps water
Delete
Ladder Truck
Carries ladders
Delete
Ambulance
Medical assistance
Delete
CANCEL
SAVE AND EXIT
SAVE
EXIT
Add a new Type
Type and description. This may be edited by clicking in the cell
Delete the row and Type associated
Save and exit your changed will be persisted

Application Setup



Application Setup (Cont.)



(a)

Check each box if you want the preference to happen throughout the app.

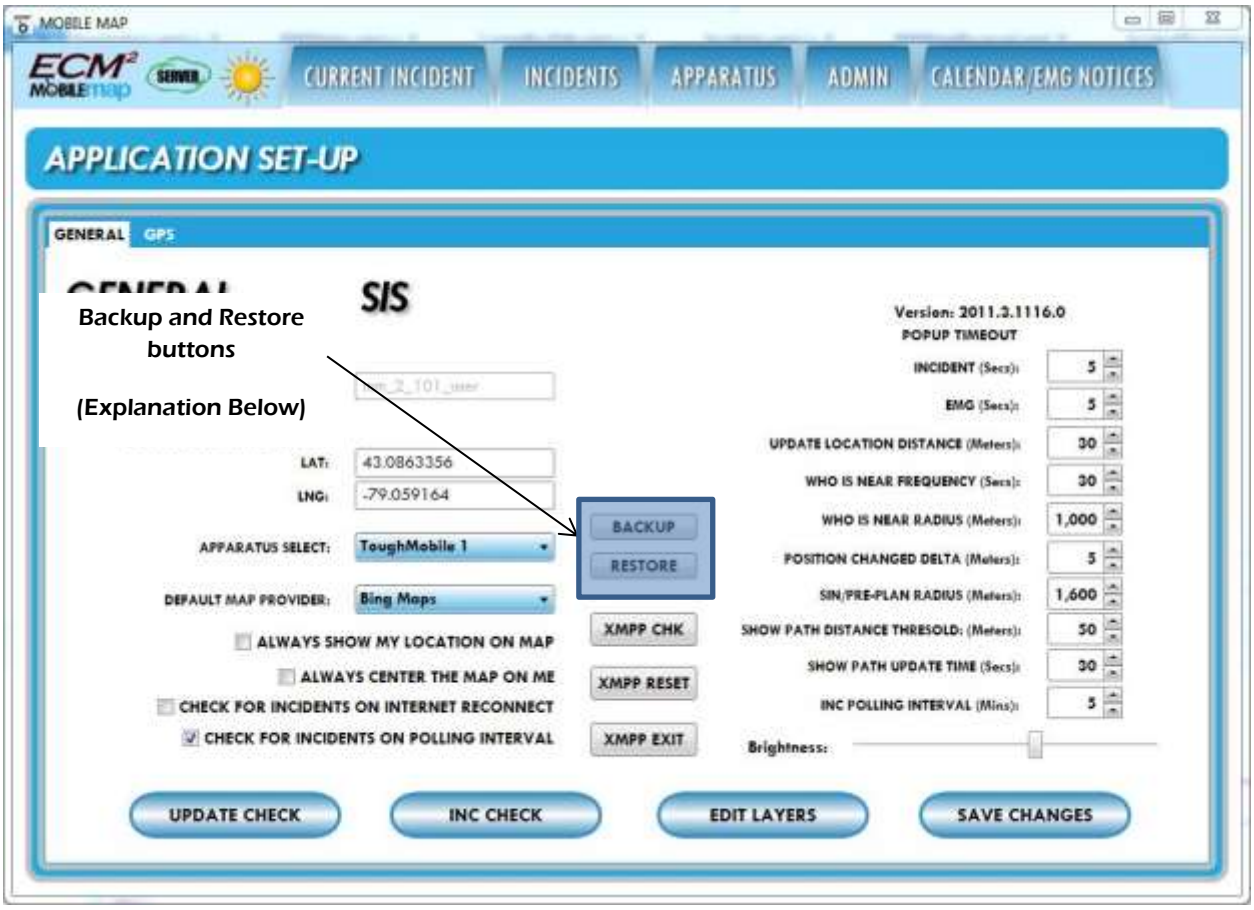
- *Always show my location on map – On current incident map will always show your location and not allow you to toggle "My Location" on and off.*
- *Always center the map on me – On current incident map will always center on your location and the map will follow you. Again unable to toggle "Keep Centered"*
- *Check for incidents on internet reconnect – Will automatically run an incident check if you lose internet connection upon internet reconnection.*
- *Check for incidents on polling interval – Check for incidents on a 5 minute interval.*

(b)

Up down boxes for timing and distance application preferences

- Popup incident timeout – The time in seconds that the incident popup will show before disappearing and sending you to the Current Incident Details page.
- Emergency Notice Timeout – The time in seconds that the emergency notice popup will show before disappearing and sending you to the Emergency Notice Page.
- Update Location Distance – The distance in meters that your location will be sent to our servers and shown to other Apparatus.
- Who is near frequency – The time in seconds apparatuses from your station or other's location will be refreshed on your Current Incident map.
- Position Changed Delta – The distance you must travel before your position is changed on the Current Incident Map.
- SIN/Pre-Plan Radius – The radius around the incident that the Current Incident Site Incident Note/Pre-Plan screen will display SIN's and Pre-Plans
- Show Path Distance Threshold – On the Current Incident Map there is a layer that will allow you to track your movement to and from an incident. This is the distance in meters at which your path will be drawn on that movement.
- Show Path Update – The time in seconds that your path will update regardless of distance traveled.

XMPP, Backup, and Restore (Application Setup)



Backup – This button will allow you to backup all incidents currently stored in your system. Upon clicking you will be prompted to choose a directory to save your incidents to. You should save all backups to the same place. We recommend the "C:/mmap2012/ " directory for convenience.

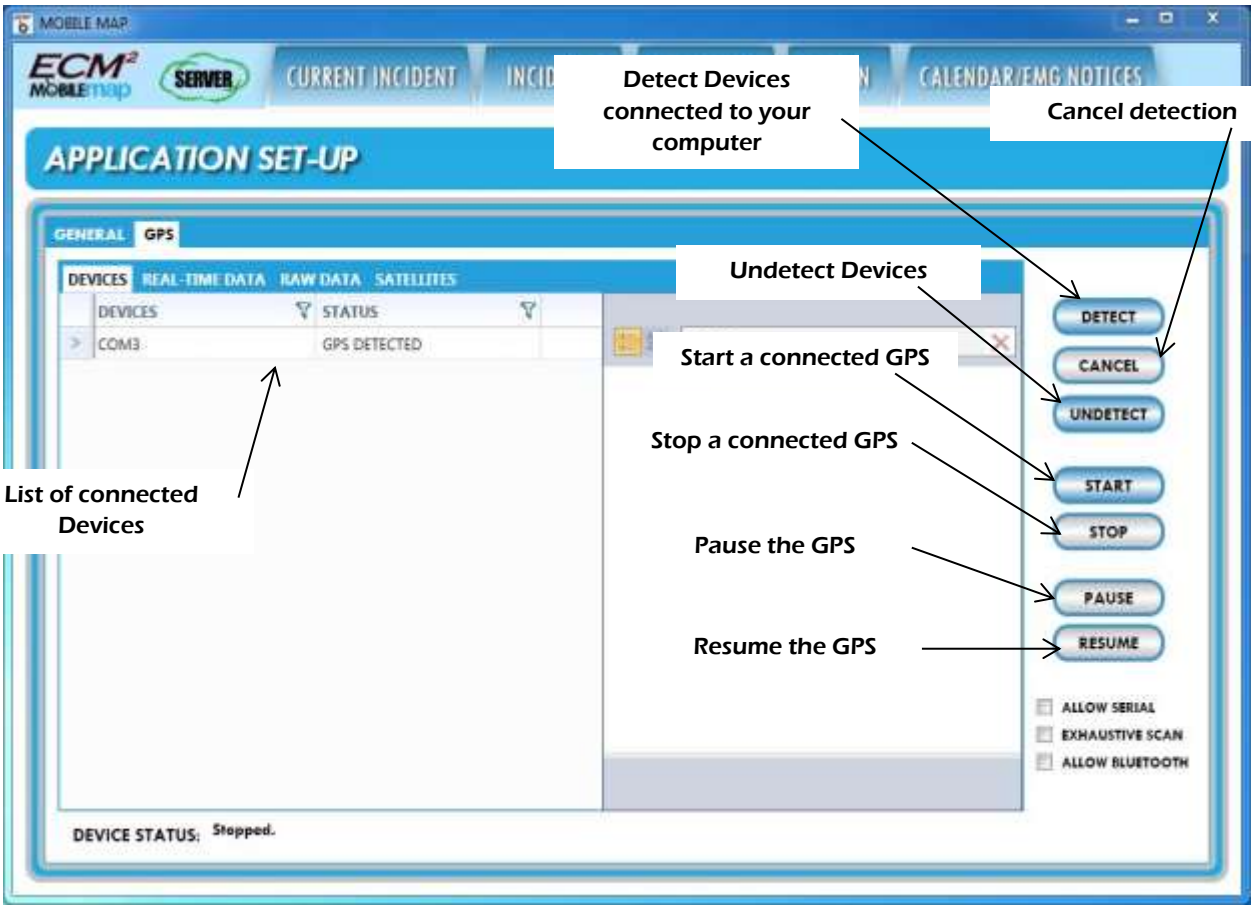
Restore – This button will allow you to restore your incidents from a previously backed up file. You will be prompted to choose a folder location. You may only back up from a folder that contains the incidents.xml file. Folders you want to choose will follow the format: "backup_mobilemap_db_YEAR_MONTH_DATE_HOUR_MINUTE_SECOND", e.g. backup_mobilemap_db_2013_04_17_10_03_17. After selecting a correct folder you will be able to see the incidents you restored under the Incidents tab.

XMPP CHK – Check the current status of the XMPP connection.

XMPP RESET – Reset the XMPP connection.

XMPP EXIT – Close the XMPP connection.

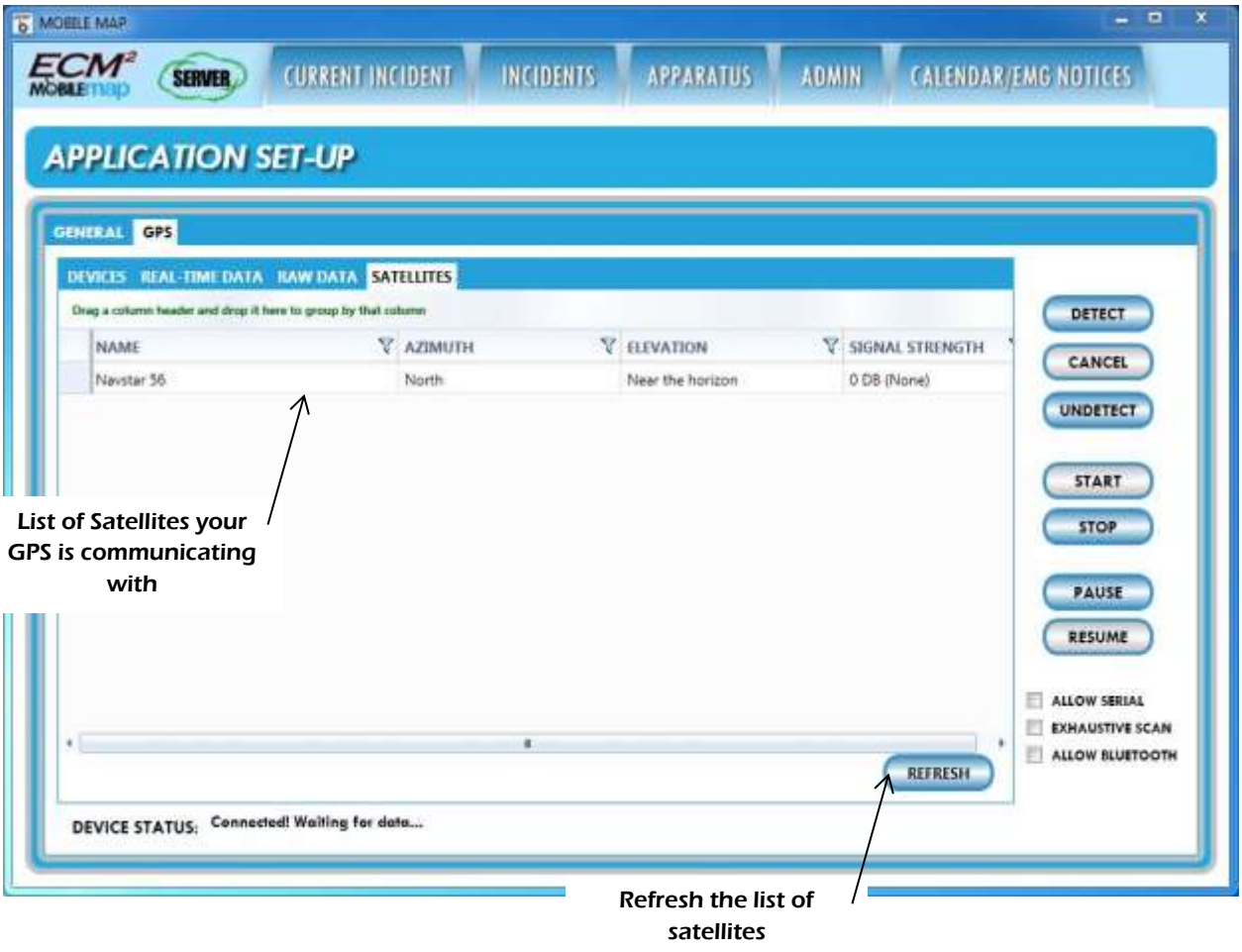
GPS (Application Setup)



GPS (Cont.)

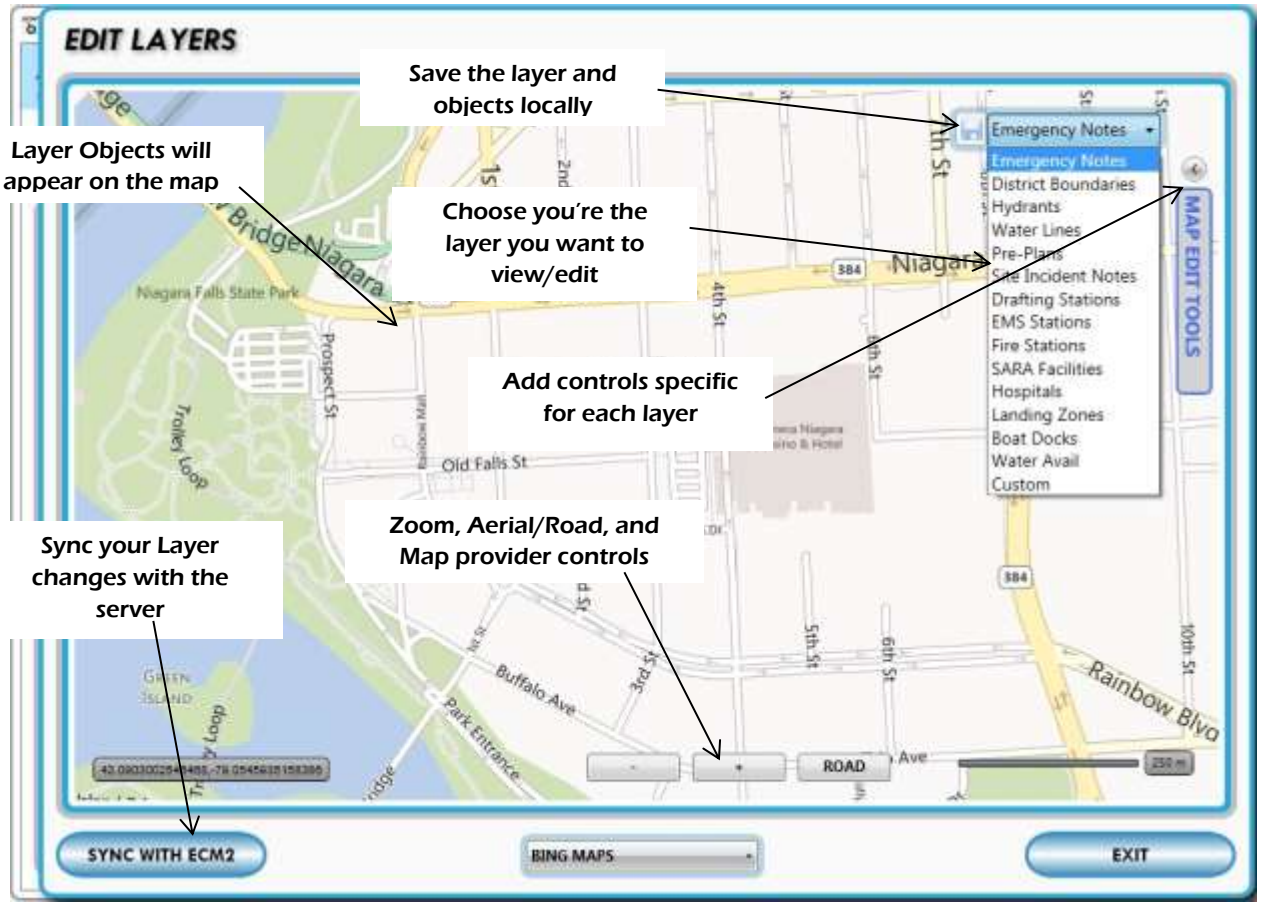
All fields are self-explanatory but note that GPS buttons are still accessible.

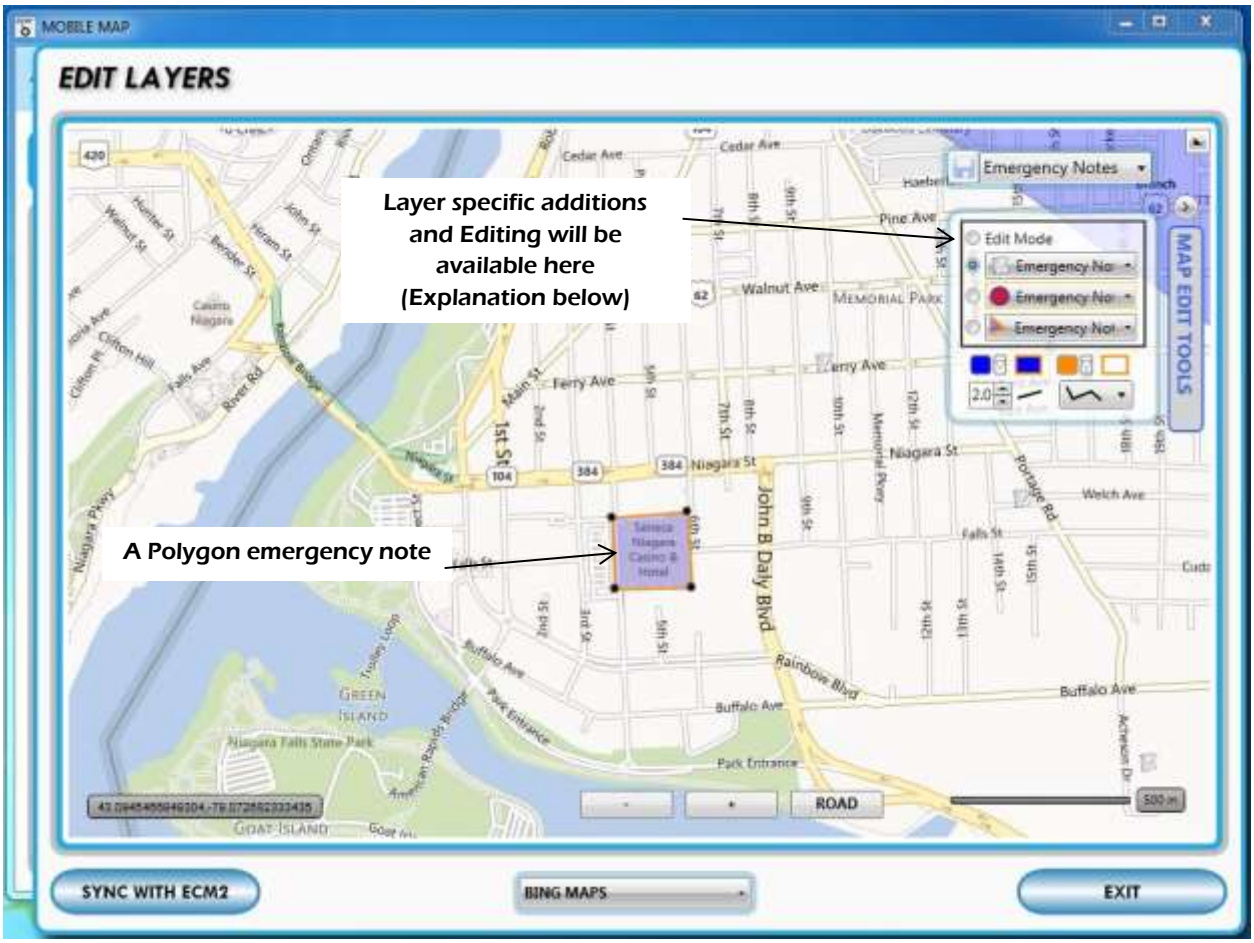
GPS (Cont.)



**Note three satellites signals are required for a valid GPS signal.

Edit Layers


EDIT LAYERS
Save the layer and objects locally
Layer Objects will appear on the map
Choose you're the layer you want to view/edit
Add controls specific for each layer
Sync your Layer changes with the server
Zoom, Aerial/Road, and Map provider controls
Emergency Notes
Emergency Notes
District Boundaries
Hydrants
Water Lines
Pre-Plans
Site Incident Notes
Drafting Stations
EMS Stations
Fire Stations
SARA Facilities
Hospitals
Landing Zones
Boat Docks
Water Avail
Custom
MAP EDIT TOOLS
ROAD
SYNC WITH ECM2
BING MAPS
EXIT



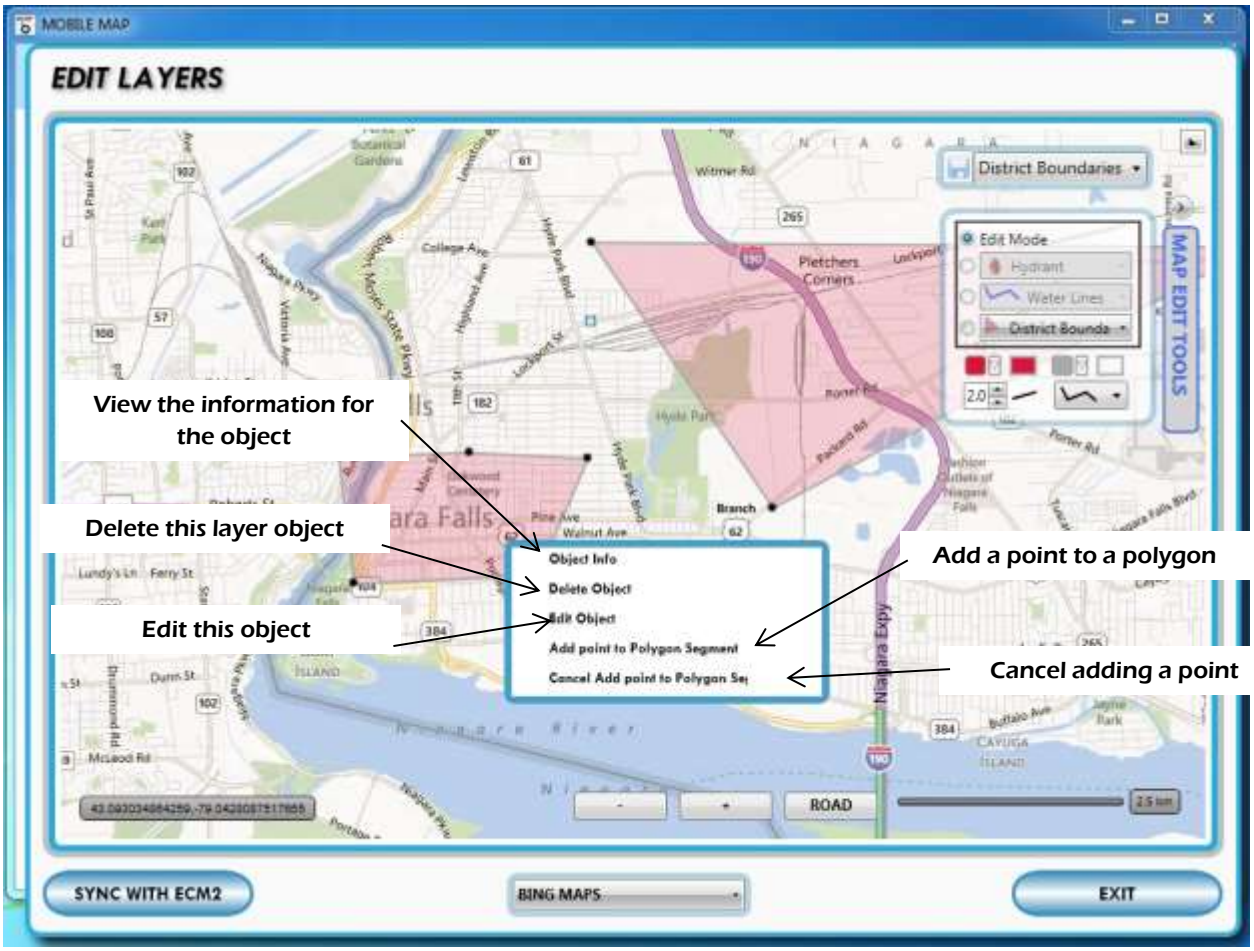
** For every layer there are different map edit tools. For example in the Emergency Notes Layer you may place a point, a radius, or a polygon. Simply click on the radio button next to the object you'd like to place and click on the map.

A point is placed simply by clicking on the map after selecting the Emergency Notice radio button.

A radius is also placed simply by clicking on the map. You may change the radius in the editing menu.

A polygon is placed by clicking on the map to place one point and so on, when you want to finish a polygon you double click for the last point.

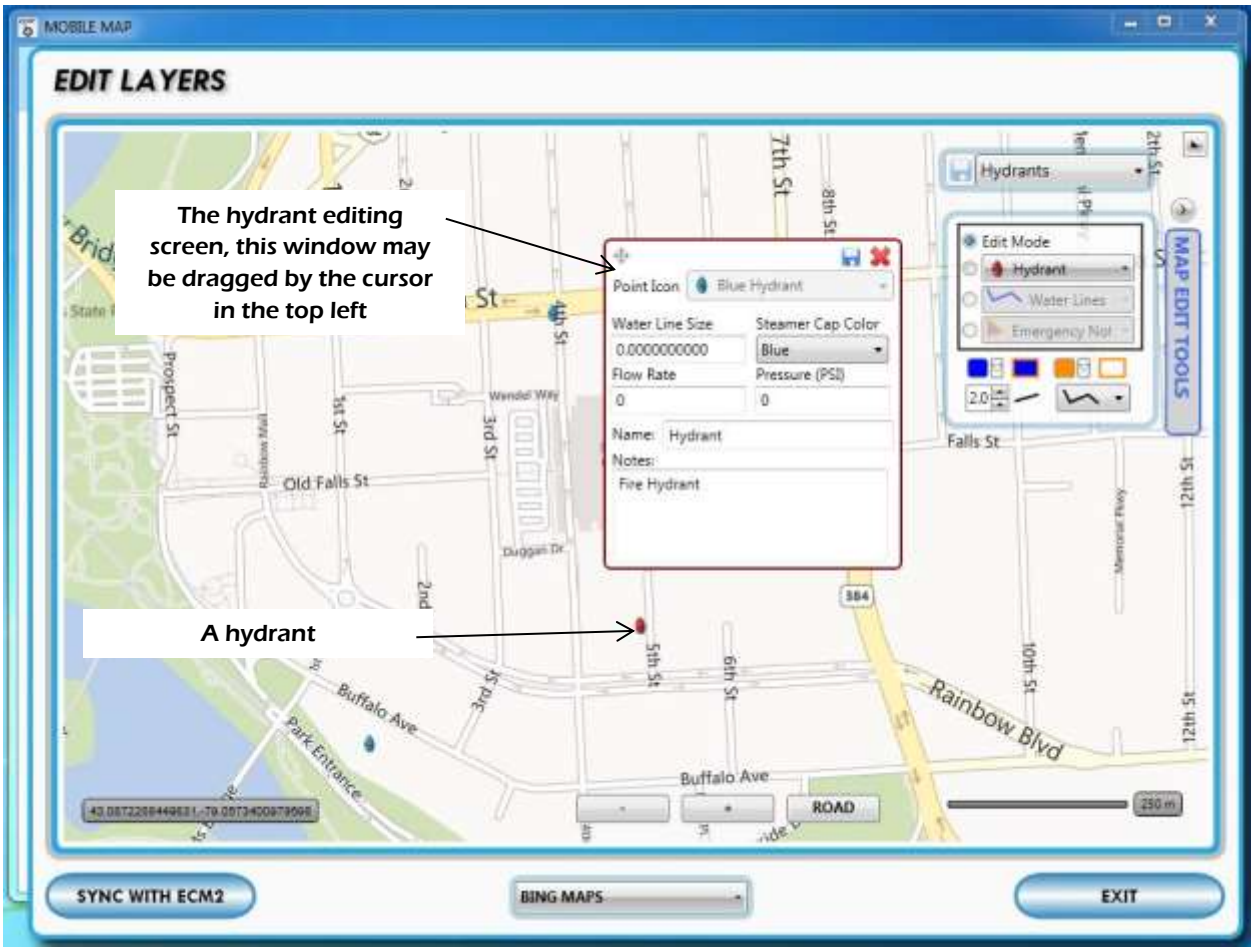
** Upon right clicking on an object you will be presented with a menu of options



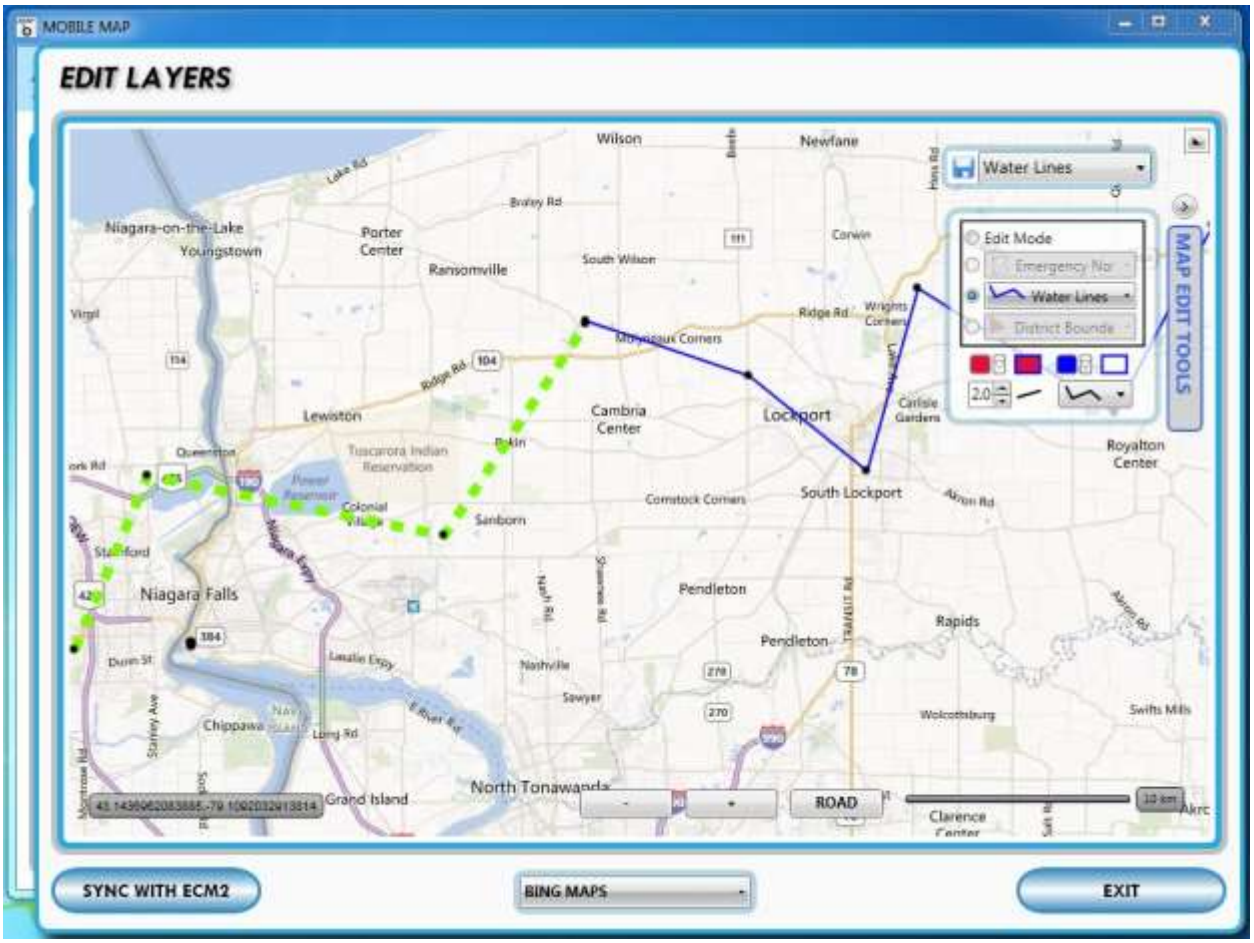
**Note that the point addition won't appear for points. If at any point you don't want to save your changes just exit out of the Edit Layers screen and choose not to save changes.

**Upon clicking "Add Point to Polygon Segment" you will be presented with a highlight for each leg. Upon left clicking, the selected leg will have a point added at its center point.

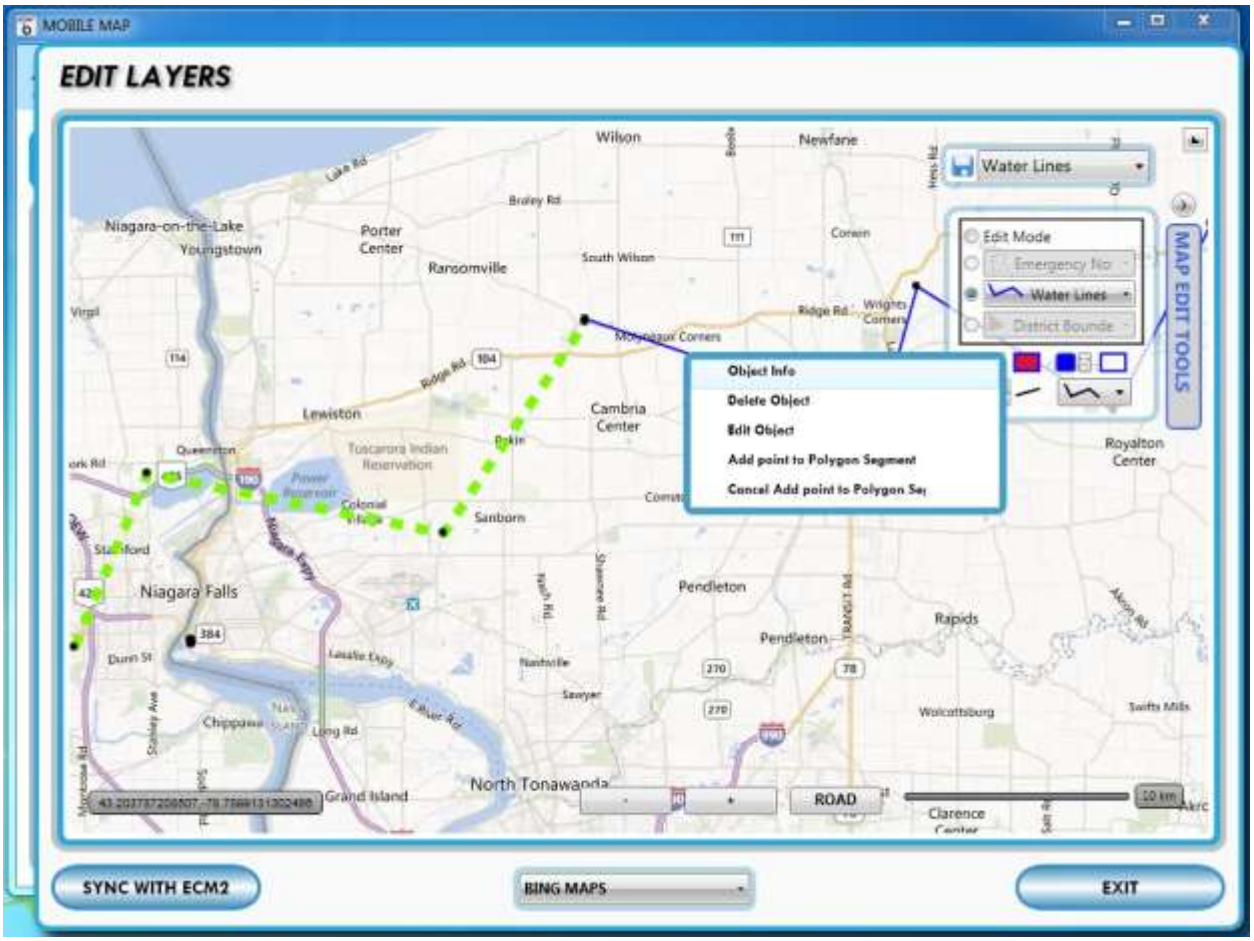
Edit Layers (Hydrants)



**Hydrants are a special layer. Each hydrant has a different steamer cap color and show up on the map in that color. Each color represents the type of hydrants and its specifications. Hydrants are a map point.



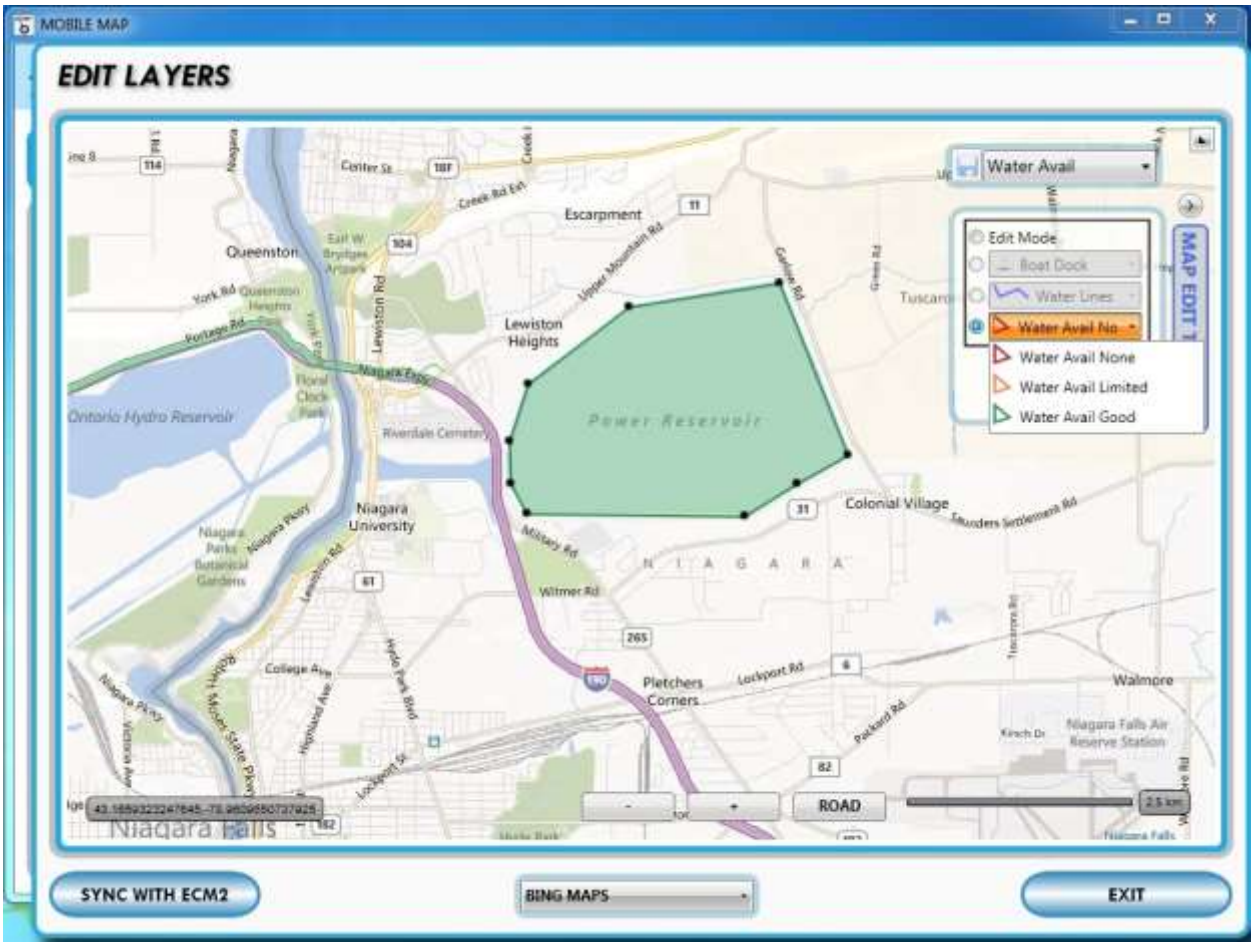
**The Waterlines layer shows water lines in your county and has the same point addition feature as polygons as shown below.


MOBILE MAP
EDIT LAYERS
Water Lines
Edit Mode
Emergency No
Water Lines
District Bounde
MAP EDIT TOOLS
Object Info
Delete Object
Edit Object
Add point to Polygon Segment
Cancel Add point to Polygon Se
Wilson
Newfane
Niagara-on-the-Lake
Youngstown
Porter Center
Ransomville
South Wilson
Lewiston
Cambria Center
Royalton Center
Niagara Falls
Pendleton
Rapids
North Tonawanda
Grand Island
Clarence
ROAD
SYNC WITH ECM2
BING MAPS
EXIT

Edit Layers (Cont.)

All of the following layers, editing screens, and edit map menus are shown below.

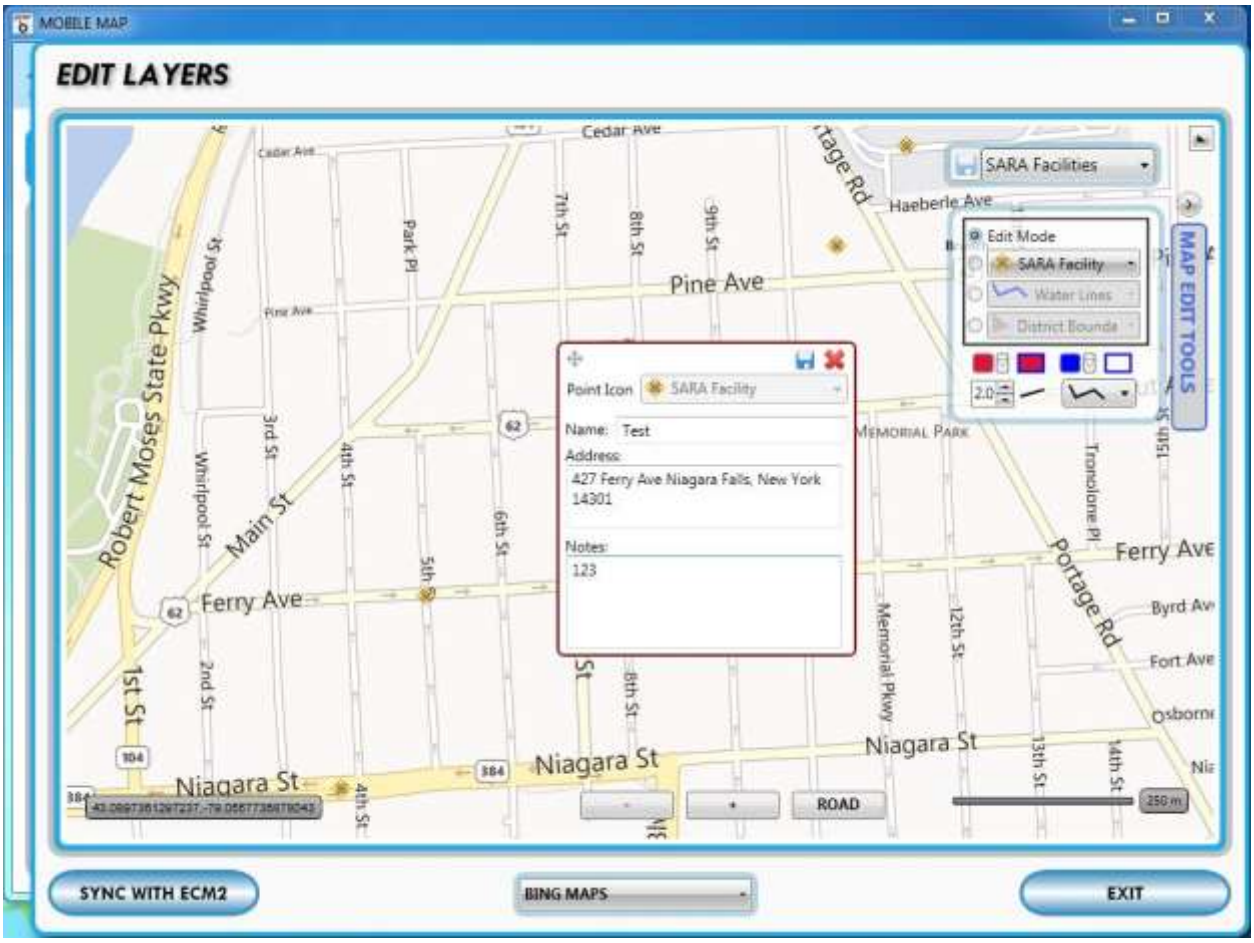
Water Availability



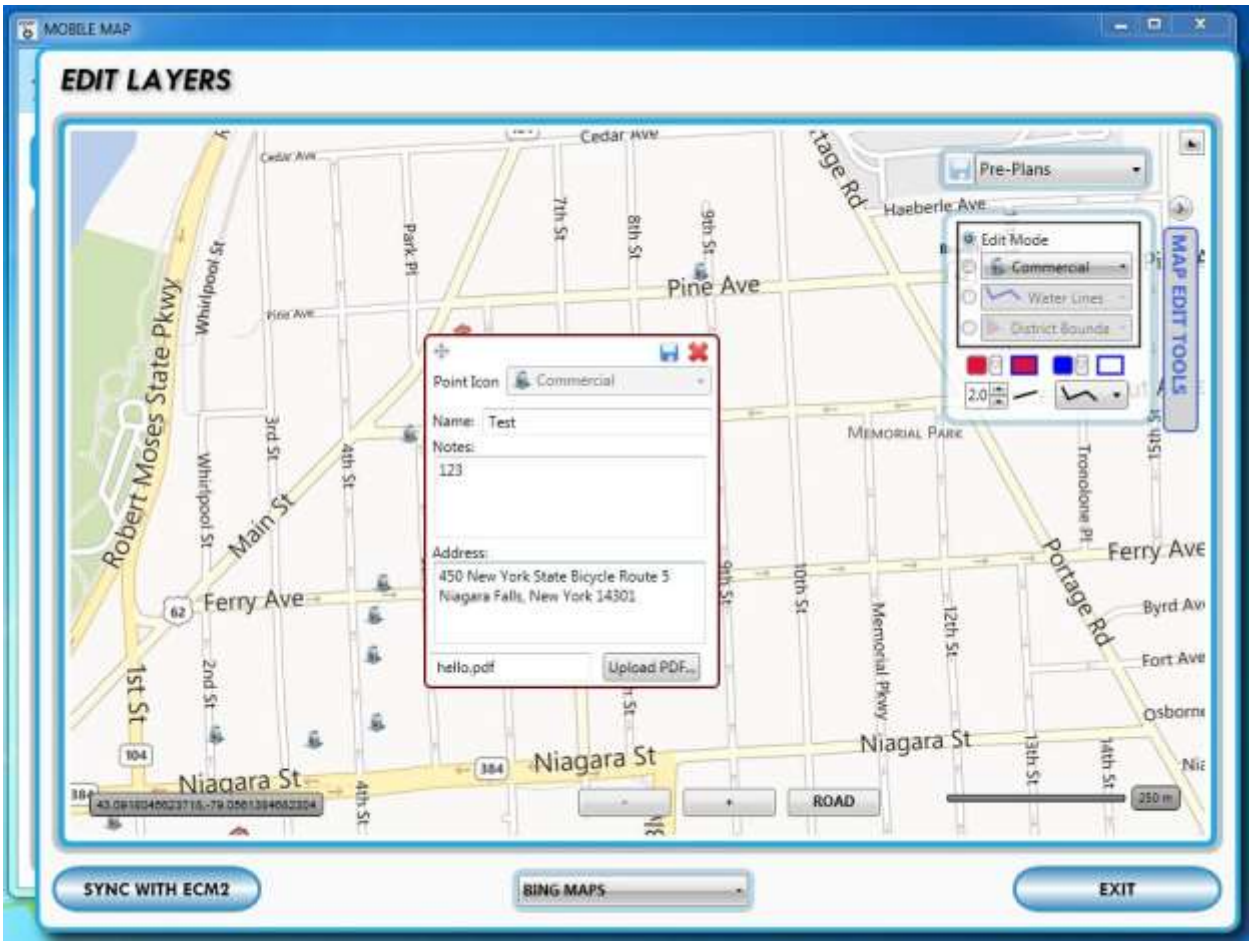
Site Incident Notes

**Note the intersection is specific to Site Incident Notes. And after the expiration date it won't show up on the Current Incident SIN/Pre-Plan page anymore.

SARA Facilities

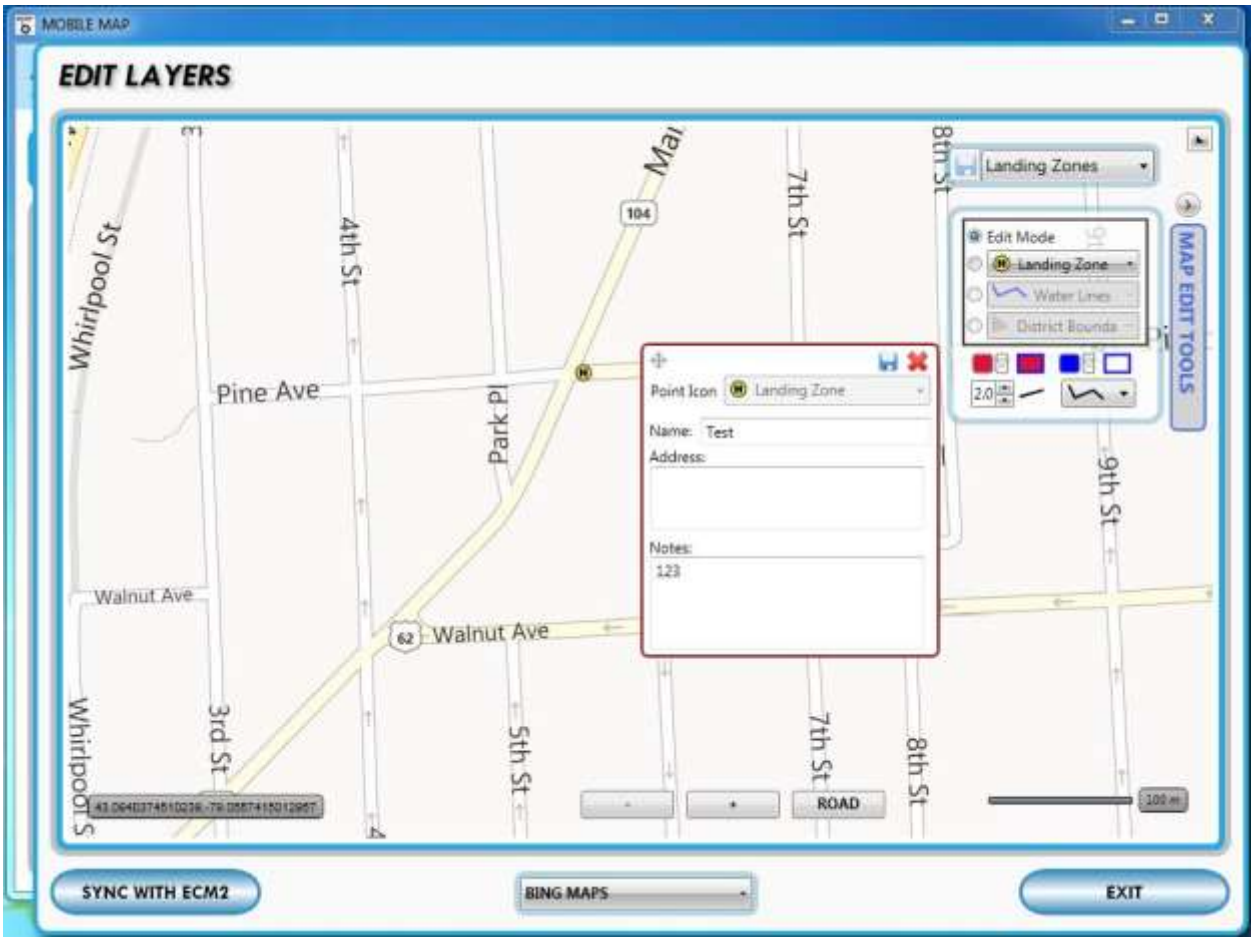


Pre-Plans



** Note that you may upload Adobe pdf files to Pre-Plans which may be viewed on the Current Incident SIN/Pre-Plans and Current Incident Map.

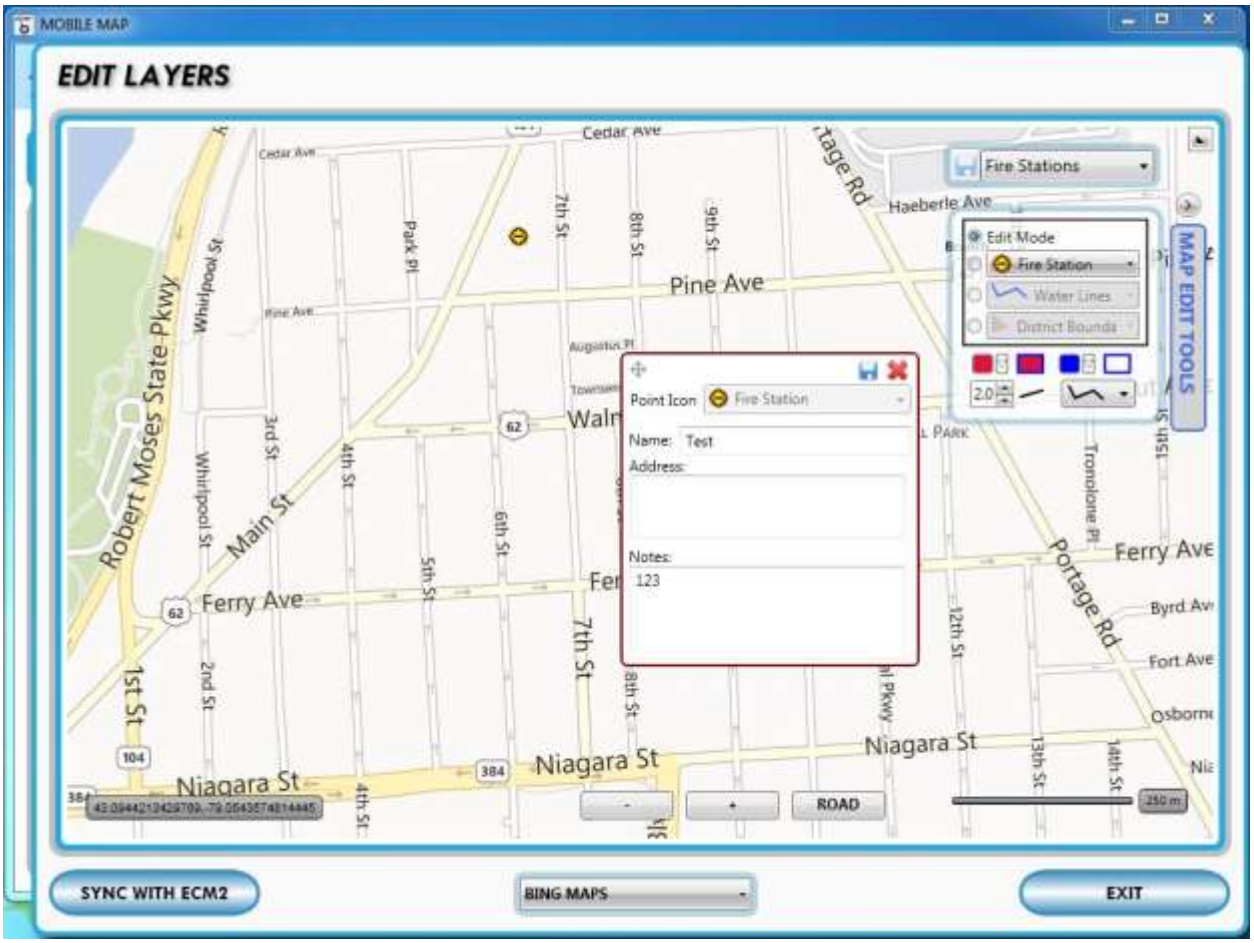
Landing Zones



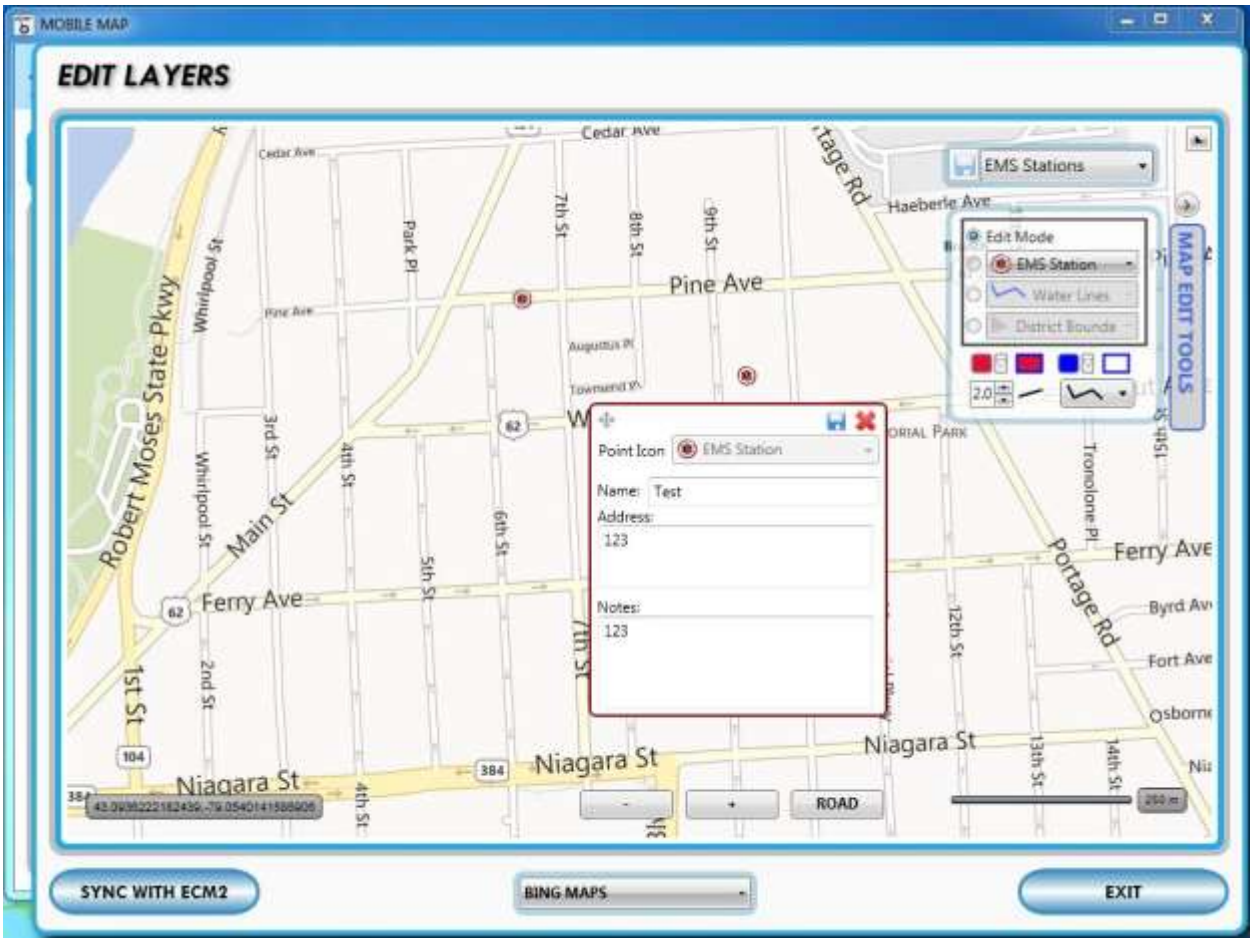
Hospitals

MOBILE MAP
EDIT LAYERS
Pine Ave
Walnut Ave
Ferry Ave
Niagara St
Daly Blvd
Memorial Park
Memorial Pkwy
Portage
Welch Ave
Robinson Ct
Falls St
Hospitals
Edit Mode
Hospital
Water Lines
District Bounds
MAP EDIT TOOLS
Point Icon
Hospital
Name: Test
Address:
Notes:
123
ROAD
SYNC WITH ECM2
BING MAPS
EXIT

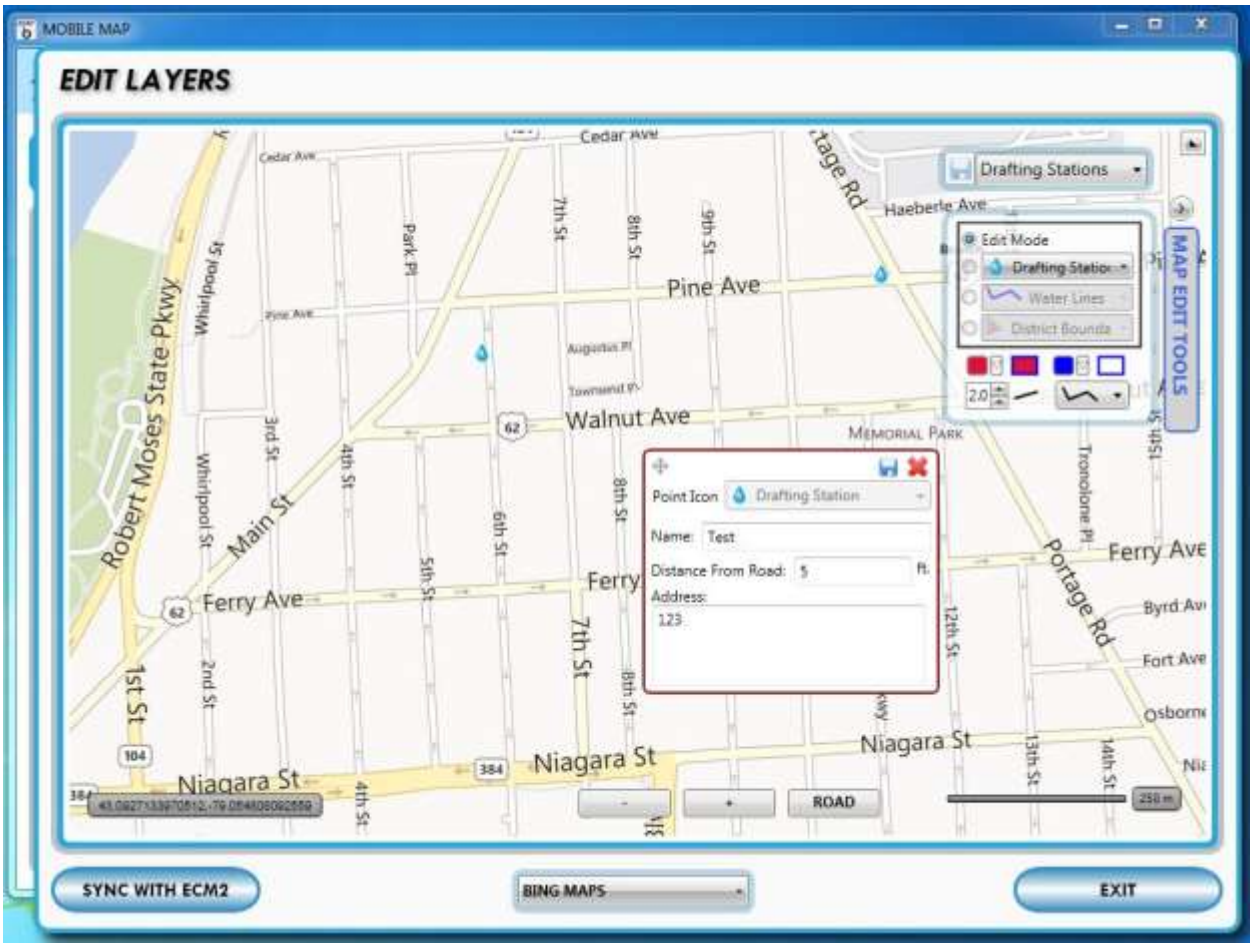
Fire Stations



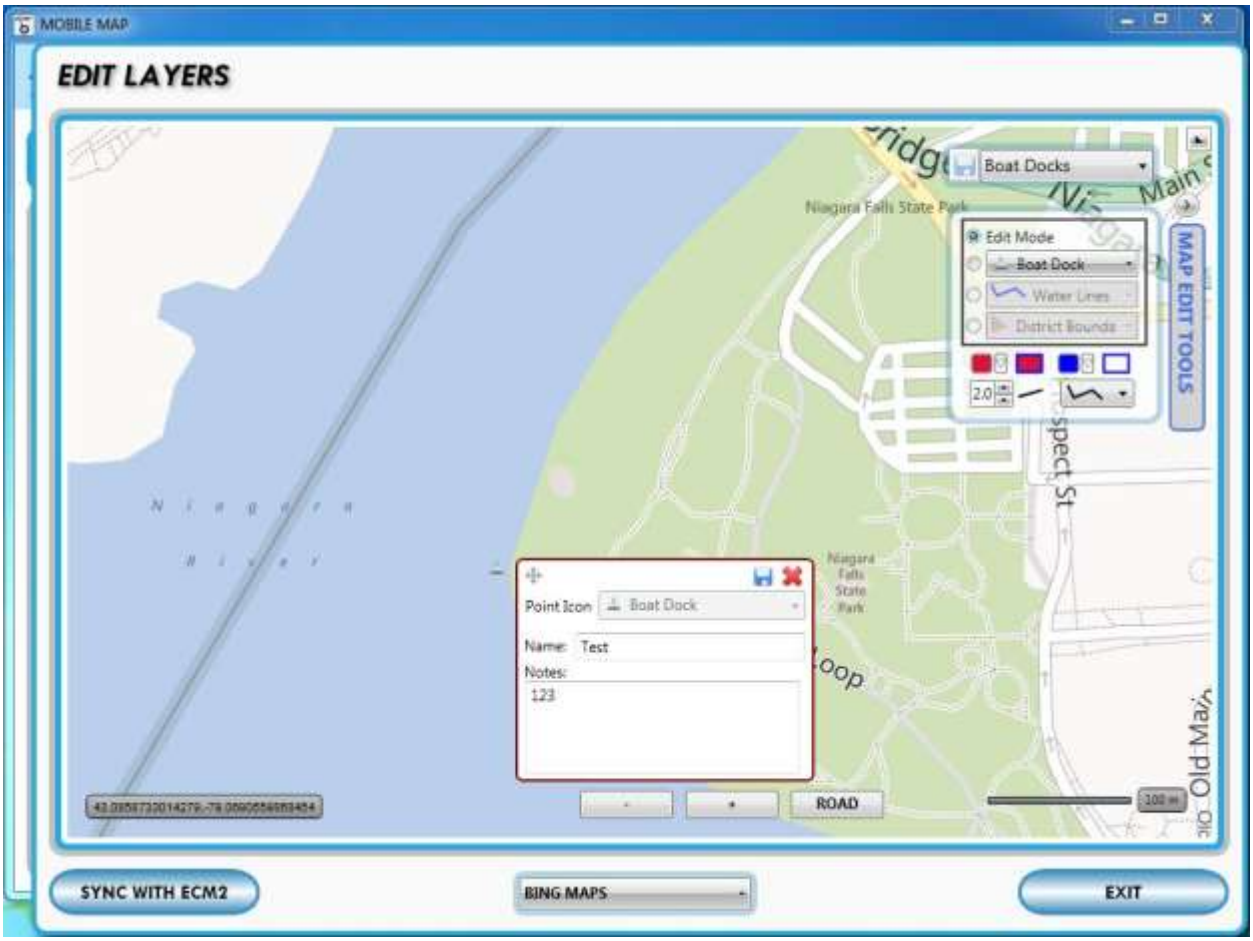
EMS Stations



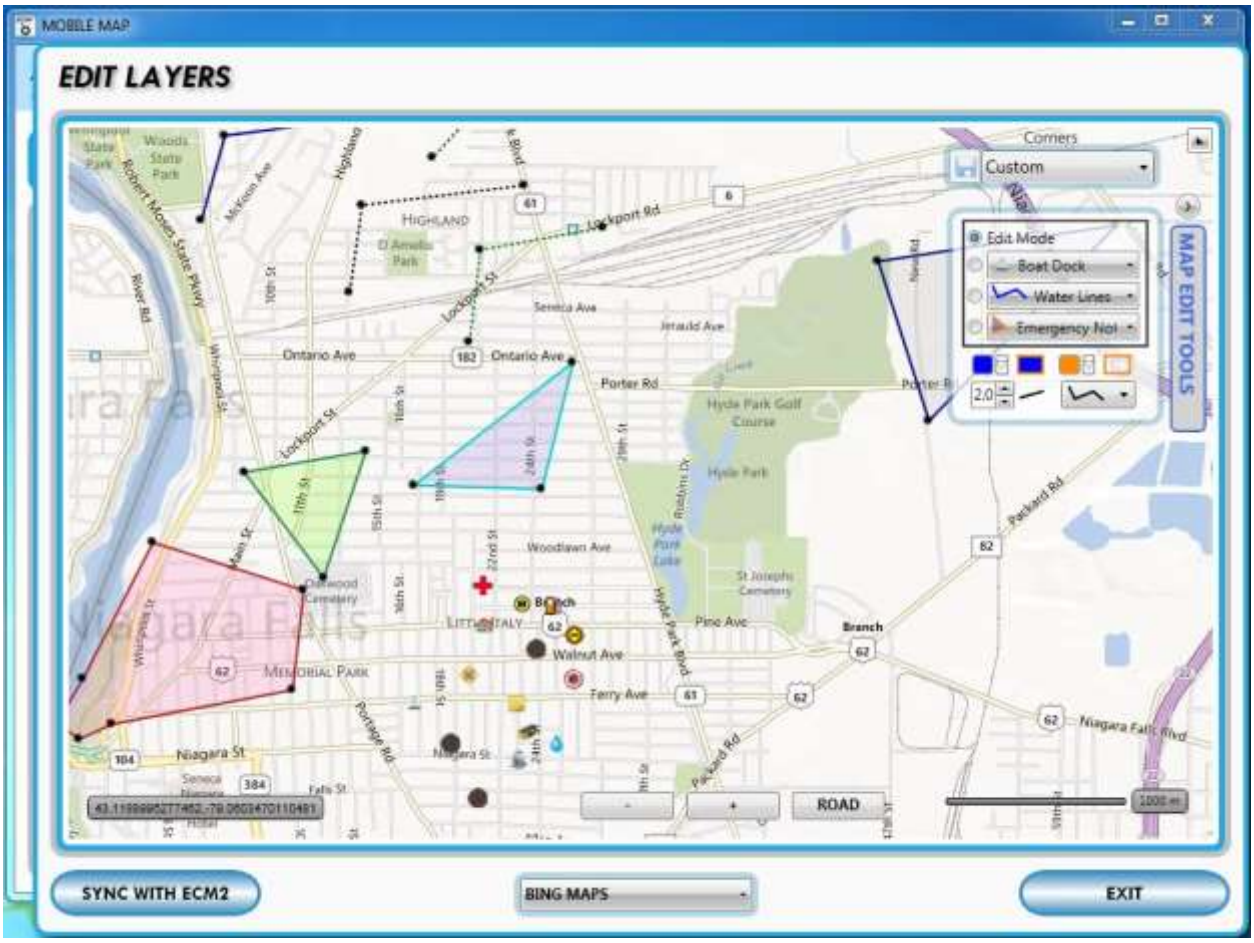
Drafting Stations



Boat Docks


MOBILE MAP
EDIT LAYERS
Boat Docks
Edit Mode
Boat Dock
Water Lines
District Bounds
MAP EDIT TOOLS
Point Icon
Boat Dock
Name: Test
Notes:
123
ROAD
SYNC WITH ECM2
BING MAPS
EXIT

**A custom layer is a combination of all 14 layers

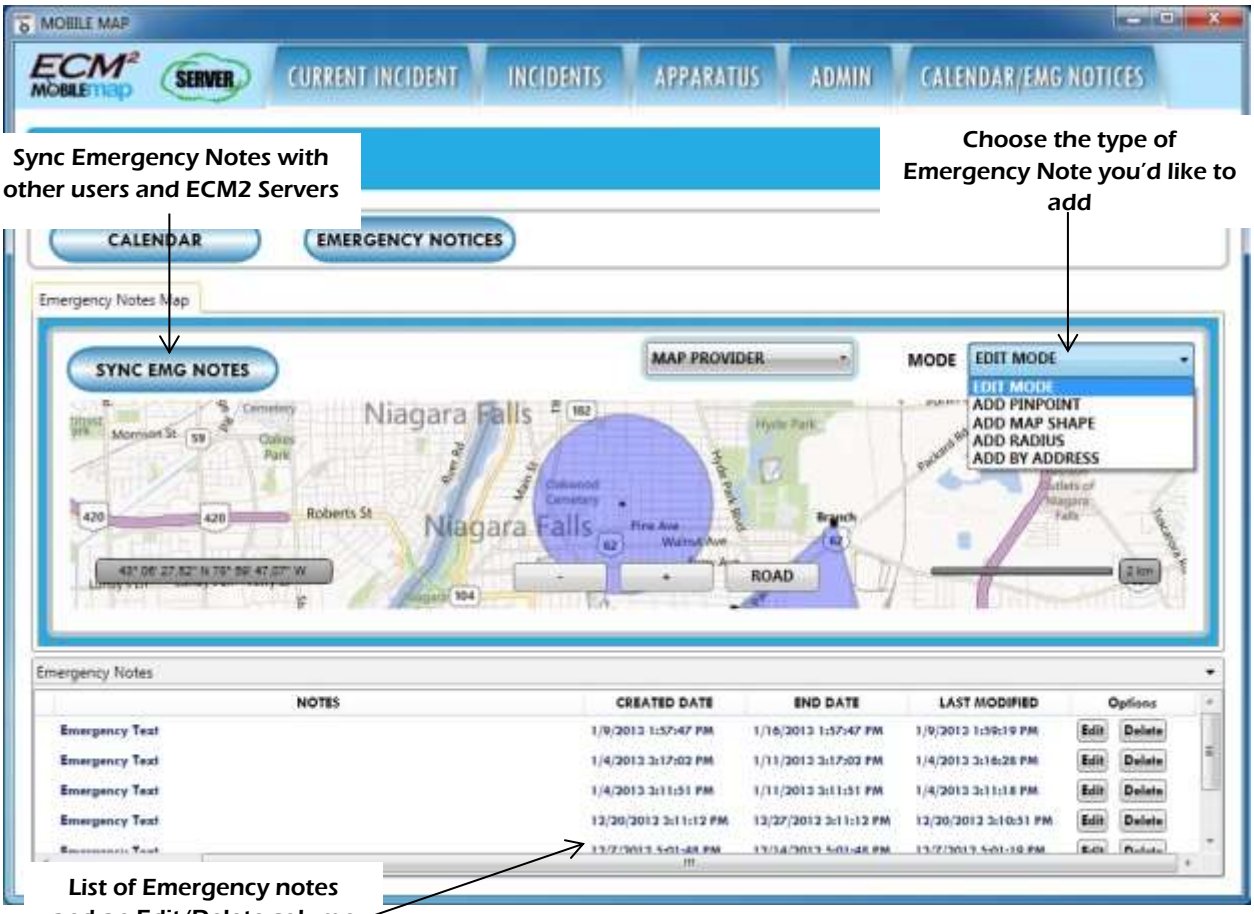


** Edit Layers is to be used to edit, add, and delete Station objects. These objects will give a user an idea of where station objects and important data are in respect to themselves.

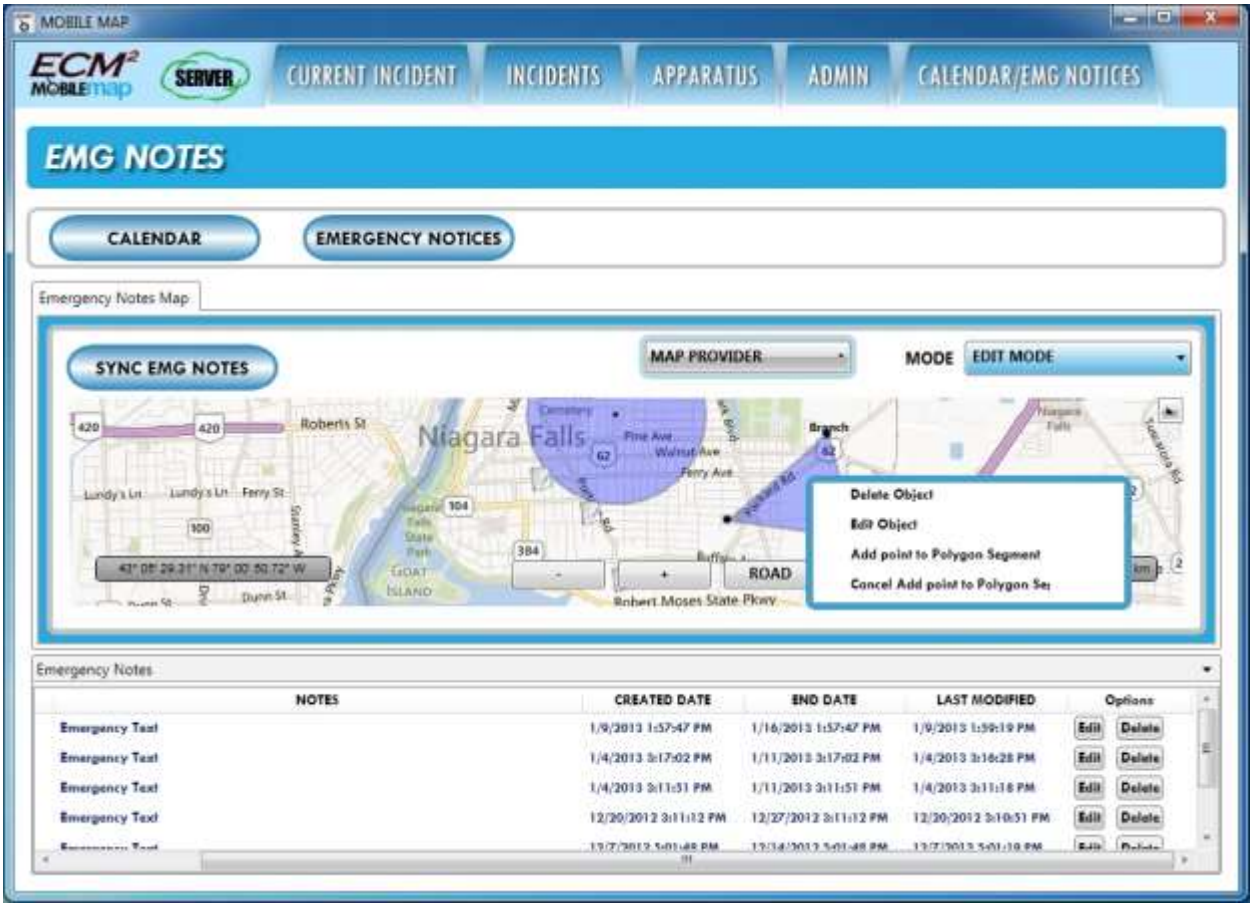
Calendar Notes

** Note you may also be more precise and switch to the Day and Week views.

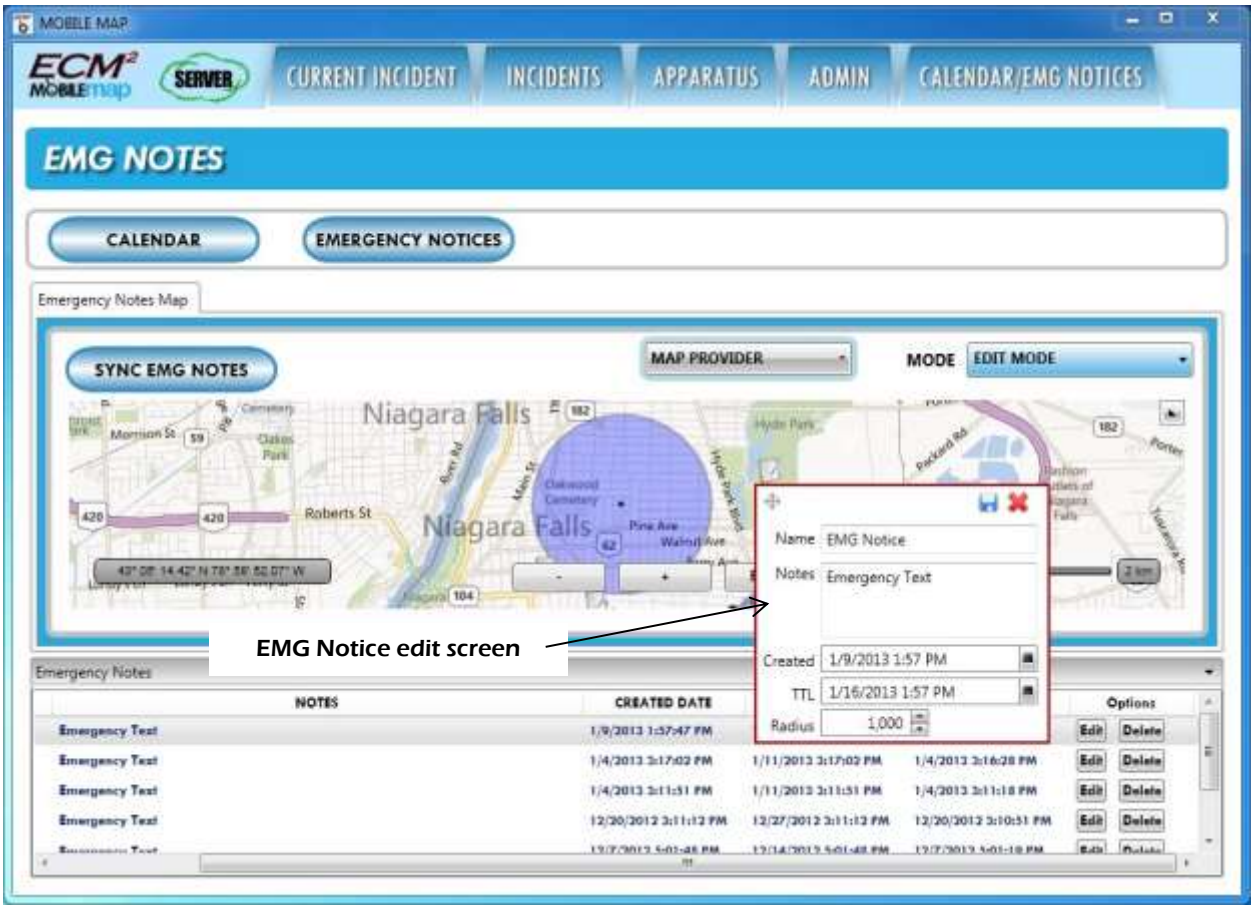
Emergency Notes



**Note that all map functions are replicated.



**You may also edit EMG Map objects by right clicking on them. To delete, edit, add a point to a polygon, or cancel adding a point to a polygon. Refer to Edit Layers for polygon point addition.



**Editing EMG Notes brings up this menu. Radiuses may be increased with the Up Down control.

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This manual version of Mobile Map was created May/2013