



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



The screenshot shows a window titled "Registration" with the MobileMap logo. The text inside reads: "It looks like this is a new installation of MobileMap from ECM2! Please follow the instructions below to find your station and register for use!". Below this are four input fields: "Select Your State:", "Select Your County:", "Select Your Station:", and "Station Password:". A button labeled "Register with ECM2" is positioned below the fields. At the bottom of the window, a status message states: "Internet Connection Established" and "Communication with ECM2 Server successful."

Current Incident Details (Main Window)

Navigate to the Current Incident Screen

Navigate to the list of all Incidents

Navigate to the Apparatus Management Screen

Navigate to the Administrator Screen

Navigate to the Calendar & Emergency Note Management Screen

Your connection the internet and the ECM2 Servers

The run time of the Current Incident

The availability of water according to your department around the incident

**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.)

Navigate to the Current Incident Mapping Screen

Navigate to the SIN/Pre-Plan's for the Current Incident

Navigate to the screen that displays driving directions to the incident

Navigate to the photo taking Screen

Navigate to the Apparatus Personnel screen

The screenshot shows the 'CURRENT INCIDENT DETAILS' screen. At the top, there is a navigation bar with tabs for 'CURRENT INCIDENT', 'INCIDENTS', 'APPARATUS', 'ADMIN', and 'CALENDAR/EMG NOTICES'. Below this, the 'CURRENT INCIDENT DETAILS' section includes a large 'INCIDENT RUNNING TIME' of 15:22:40 and a 'WATER AVAILABILITY (WA)' indicator set to 'Good'. A row of buttons includes 'DETAILS', 'MAPPING', 'SIN/PRE-PLAN', 'DRIVING DIRECTIONS', 'TAKE PHOTO', and a globe icon. The main content area is split into two panels: 'CALL INFORMATION' on the left and 'APPARATUS RESPONDING' on the right. The 'CALL INFORMATION' panel displays incident details such as 'Incident Number: EXPO4956389', 'Address: 3767 Mckoon Ave, Niagara Falls, NY', and a 'Details' section with location, incident number, nature, caller, and time of call. An 'EDIT/CLOSE' button is at the bottom of this panel. The 'APPARATUS RESPONDING' panel contains a table with columns for NAME, TIME, TYPE, and DEPARTMENT, listing 'Aerial 1' at '19:19:40' from the 'SIS' department. A 'RESPOND TO CALL' button is located at the bottom left of the screen.

Call response sequence button (see below)

Navigate to closing of the Current Incident to upload to our servers

Call information Display

The Apparatus that have responded to the Current Incident

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.

Assisting Incident?

YES

NO

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

SCENE CLEARED

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

RETURNED TO STATION

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.**

WATER AVAILABILITY (WA)
None

2. **Yellow for Limited Water Available.**

WATER AVAILABILITY (WA)
Limited

3. **Green for Good Water Availability.**

WATER AVAILABILITY (WA)
Good

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

WATER AVAILABILITY (WA)
Unknown

(See Edit Layers)

Edit/Close Incident

The 911 Center generated Incident ID

The address of the incident

The call information provided by the 911 center

Any additional notes about the incident go here

Export the information to be processed by our server and Station Manager™

Exit the Current Incident Edit screen

CURRENT INCIDENT EDIT

INCIDENT NUMBER: EXPO4904589

INCIDENT ADDRESS: 507 Pine Ave, Niagara Falls, NY

911 CALL INFORMATION:
Loc: 507 Pine Ave, Niagara Falls, NY X-sts: Inc#EXPO4904589 NATURE: FIRE/STRUCTURE FIRE CALLER: JANE DOE TOC: 10:30:22 AM Fire TAC: FIRE TAC 5 EMS TAC: EMS TAC 2 Comments: Basement full of smoke Murrysville PD notified Disp: E64, AT64, E20-1, L30, E22-1, SO78, L20

ADDITIONAL NOTES:

RESPONSE TIME: 1/9/2013 10:32 AM

ARRIVAL TIME: 1/9/2013 10:33 AM

SCENE CONTROLLED TIME: 1/9/2013 10:33 AM

ASSISTED INCIDENT?

START ENGINE HOURS: 20.00

END ENGINE HOURS: 20.00

SCENE CLEARED TIME: 1/9/2013 10:34 AM

RETURNED TO STATION TIME: 1/9/2013 10:34 AM

START PUMP HOURS: 20.00

END PUMP HOURS: 20.00

MILEAGE: 0

OR

START MILES: 120.00

END MILES: 120.00

EXPORT

EXIT

**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.)

CURRENT INCIDENT EDIT

INCIDENT NUMBER: EXPO4904589
 INCIDENT ADDRESS: 507 Pine Ave, Niagara Falls, NY

911 CALL INFORMATION:
 Loc: 507 Pine Ave, Niagara Falls, NY X-its: Inc#:EXPO4904589
 JANE DOE T MS TAC: L, L30, E;
 smoke Murr

ADDITIONAL INFORMATION:

RESPONSE TIME: 1/9/2013 10:32 AM
ARRIVAL TIME: 1/9/2013 10:33 AM
SCENE CONTROLLED TIME: 1/9/2013 10:33 AM

ASSISTED INCIDENTS

START ENGINE HOURS: 20.00
END ENGINE HOURS: 20.00

START PUMP HOURS: 20.00
END PUMP HOURS: 20.00

START MILES: 120.00
END MILES: 120.00

SCENE CLEARED TIME: 1/9/2013 10:34 AM
RETURNED TO STATION TIME: 1/9/2013 10:34 AM

MILEAGE: 0

Annotations:

- The time recorded when your apparatus responded to the call
- The time recorded when your apparatus arrived on scene
- The time recorded when your apparatus had deemed the scene controlled
- Checked if your apparatus assisted another department's incident
- The start and end time the engine was running during the incident
- The start and end amount of hours your apparatus pumped
- The time your apparatus cleared the scene
- Our calculated mileage of the incident based on GPS
- The time your apparatus returned to the station after an incident
- You may enter the start mileage of your apparatus before the incident and end mileage

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

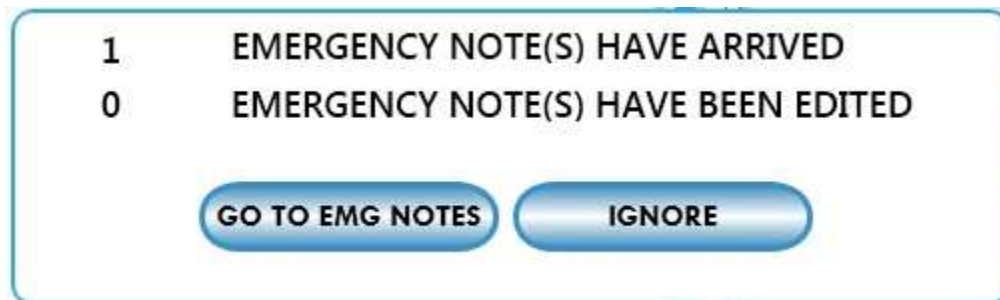
Whenever Mobile Mapper is running and your 911 center pushes a call to every station you will receive a push notification within seconds. Push notifications through Mobile Mapper™ ensure you know about a call and receive all information for that call within seconds. They also inform you about important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

The screenshot shows the 'Current Incident Map' interface. At the top, there is a navigation bar with buttons for 'CURRENT INCIDENT', 'INCIDENTS', 'APPARATUS', 'ADMIN', and 'CALENDAR'. Below this is a 'CURRENT INCIDENT' header. The main map area displays a street grid with various colored markers representing different objects. A red circle highlights a specific location on the map. To the right of the map is a 'WATER AVAILABILITY (WA)' section showing 'Unknown' and a 'GPS' button. Below the map is a 'Menu' panel with a list of layers and objects, including 'Emergency Notes', 'District Boundaries', 'Hydrants', 'Water Lines', 'Pre-Plans', 'Site Incident Notes', 'Drafting Stations', 'EMS Stations', 'Fire Stations', 'SARA Facilities', 'Hospitals', 'Landing Zones', 'Boat Decks', 'Water Avail', 'Custom', and 'Show Path'. At the bottom, there are several control buttons: 'RESPOND TO CALL', 'Bing Maps', 'MY LOCATION', 'WHO IS NEAR ME?', and 'KEEP ME CENTERED'. A coordinate display shows '43° 08' 32.98" N 79° 04' 21.01" W'. The current latitude and longitude are also displayed as '43.0863356' and '-79.059164'.

Toggle the GPS On/OFF

Toggle the Layer Menu

The Incident Location

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

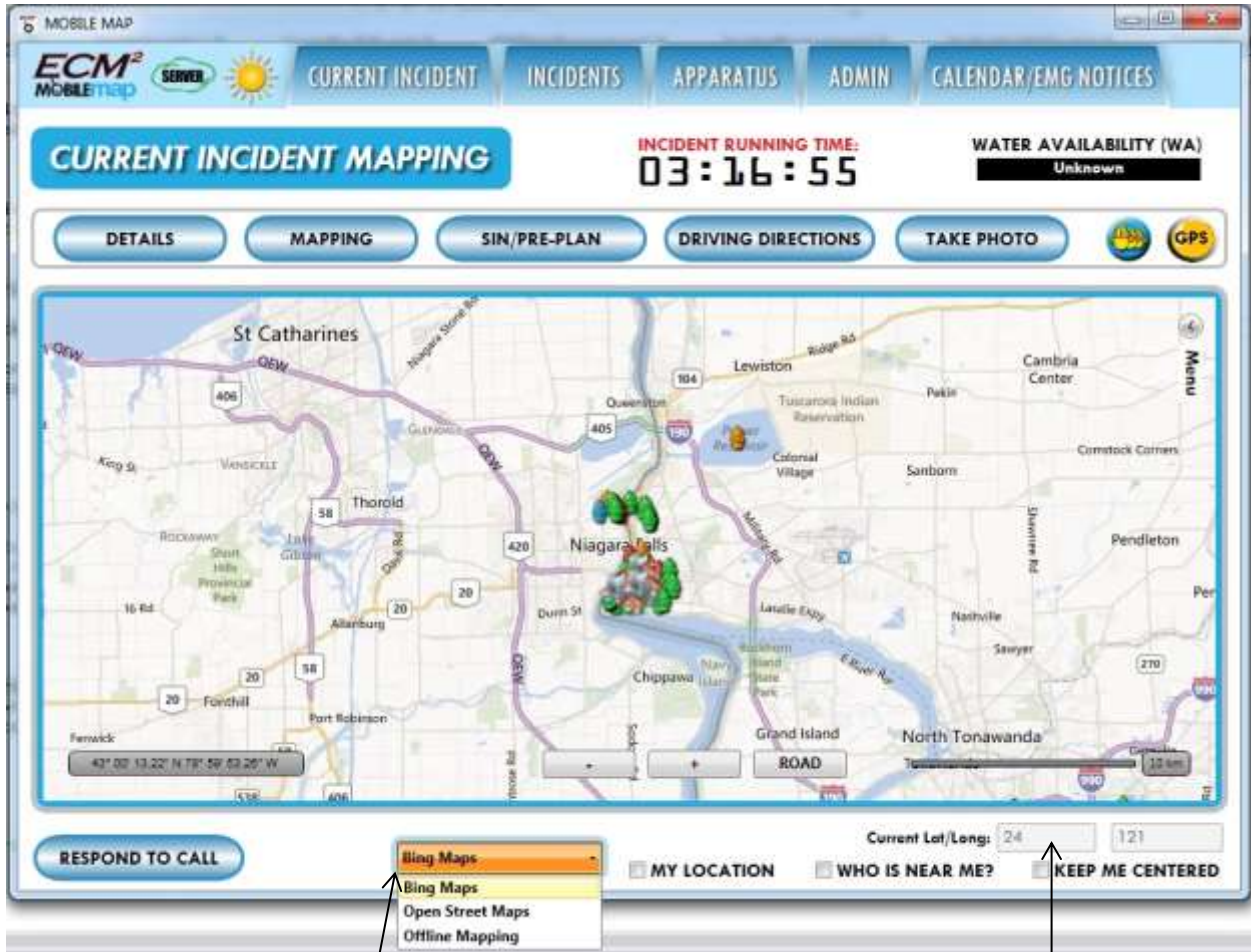
Show your location on the map.

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.

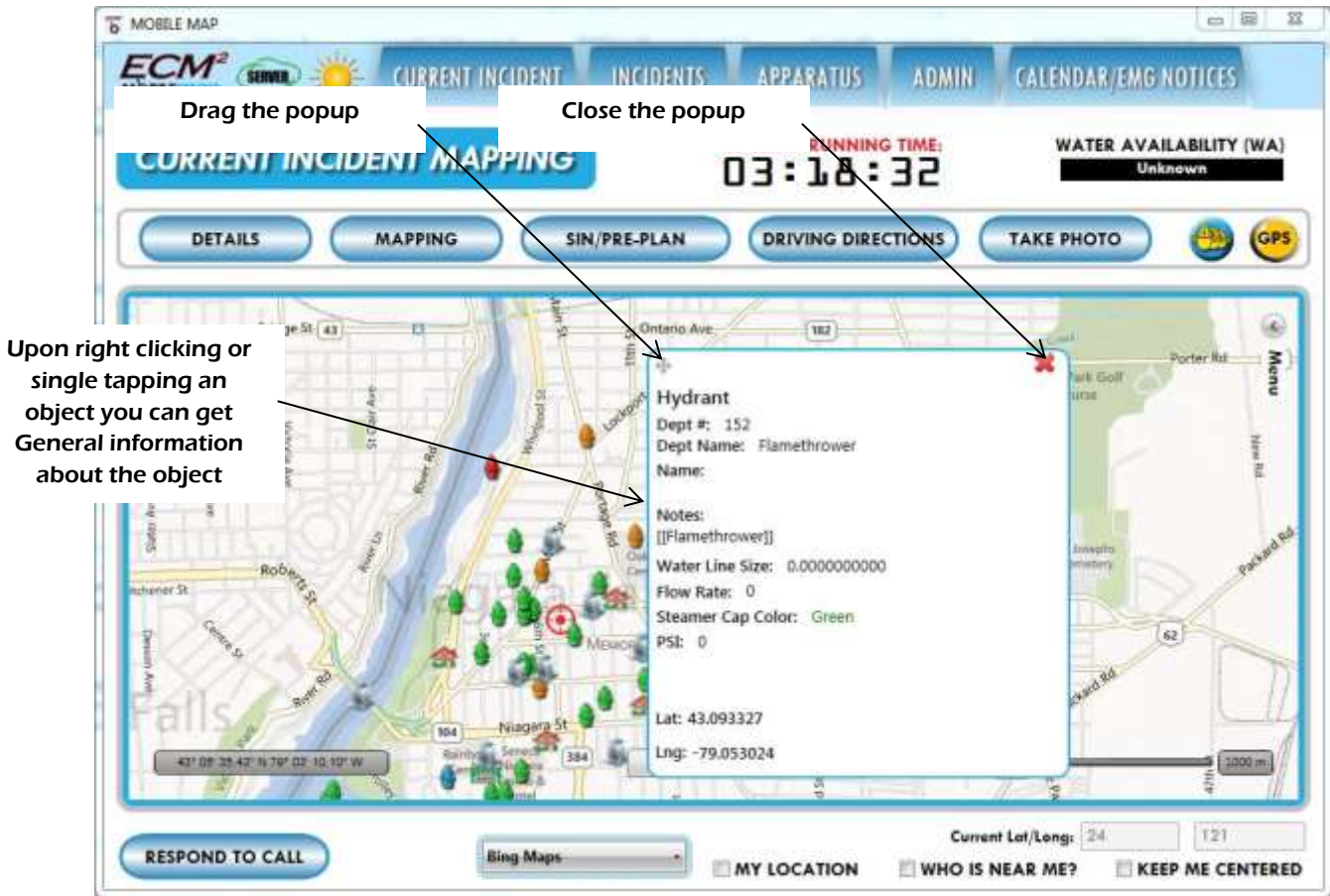
Current Incident Map(Cont.)



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

The screenshot shows a mobile application interface for incident management. At the top, there are navigation tabs: ECM² MOBILE MAP, SERVICER, CURRENT INCIDENT, APPARATUS, ADMIN, and CALENDAR/EMG NOTICES. Below these, a 'CURRENT INCIDENT' header is visible. A callout box points to the 'SITE INCIDENT NOTES' table, stating: 'Site Incident Notes are displayed here with Name, Address, Notes, and Distance to Incident'. The table has columns: NAME, ADDRESS, NOTES, and DIST. Below this is a 'PRE PLANS' table with columns: NAME, ADDRESS, NOTES, and DISTANCE TO INCIDENT. A callout box points to the 'DISTANCE TO INCIDENT' column, stating: 'Pre Plans are displayed here. Note the Distance to incident is in meters.' At the bottom, there is a 'RESPOND TO CALL' button.

NAME	ADDRESS	NOTES	DIST
>	614 Pine Ave Niagara Falls, New York 14301		106
3	727 Main St Niagara Falls, New York 14301	[[Flamethrower]]	195
			195

NAME	ADDRESS	NOTES	DISTANCE TO INCIDENT
>	507 Pine Avenue, Niagara Falls, NY 14301, USA		166.34
	515 6th Street Niagara Falls, New York 14301	[[Flamethrower]]	288.65
	1020 Pine Avenue Niagara Falls, New York 14301	[[Flamethrower]]	333.80
	522 5th Street Niagara Falls, New York 14301	[[Flamethrower]]	389.48
	000 Main Street Niagara Falls, New York 14301	[[Flamethrower]]	449.50

** 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.

The screenshot shows the ECM Mobile Map interface. At the top, there are navigation tabs: CURRENT INCIDENT, INCIDENTS, APPARATUS, ADMIN, and CALENDAR/EMG NOTICES. Below these, a blue banner displays 'CURRENT INCIDENT SIN/PRE-PLAN' and 'INCIDENT RUNNING TIME: 03:40:04'. To the right, 'WATER AVAILABILITY (WA)' is shown as 'Unknown'. Below the banner are buttons for DETAILS, MAPPING, SIN/PRE-PLAN, DRIVING DIRECTIONS, and TAKE PHOTO. The main content area is divided into two sections: 'SITE INCIDENT NOTES' and 'PRE PLANS'. Both sections have a table with columns for NAME, ADDRESS, NOTES, and DISTANCE TO INCIDENT. A popup window is open over the 'PRE PLANS' table, showing details for a Pre Plan at 515 6th Street Niagara Falls, New York 14301. The popup includes a 'View PDF' button. An arrow points from the text below to this button.

NAME	ADDRESS	NOTES	DIST
>	614 Pine Ave Niagara Falls, New York 14301		106
3	727 Main St Niagara Falls, New York 14301		195
			195

NAME	ADDRESS	NOTES	DISTANCE TO INCID
>	507 Pine Avenue, Niagara Falls, NY 14301, USA		186.34
	515 6th Street Niagara Falls, New York 14301	[[Flamethrower]]	288.65
	1020 Pine Avenue Niagara Falls, New York 14301	[[Flamethrower]]	333.80
	522 5th Street Niagara Falls, New York 14301	[[Flamethrower]]	
	600 Main Street Niagara Falls, New York 14301	[[Flamethrower]]	

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

Apparatus Personnel

Switch between Available personnel and Personnel assigned to other apparatuses already

ASSIGN PERSONNEL

AVAILABLE ASSIGNED OTHER

	LAST NAME	FIRST NAME
<input checked="" type="checkbox"/>	Cool	Way
<input checked="" type="checkbox"/>	Battaglia	John
<input type="checkbox"/>	Cyman	Dave
<input type="checkbox"/>	Flemming	Tyler
<input type="checkbox"/>	z	z
<input type="checkbox"/>	Pepper	Hank
<input type="checkbox"/>	Prime	Transformer
<input type="checkbox"/>	Stack	Pat
<input type="checkbox"/>	Johnston	Englebert
<input type="checkbox"/>	Logiprop 10	George
<input type="checkbox"/>	Casaccia	Charlie
<input type="checkbox"/>	nexus--> 7	ej

Click a row to assign a first responder to your apparatus.

Synchronize your personnel selections with all other apparatuses

SAVE

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

Apparatus Personnel (Cont.)

ASSIGN PERSONNEL

AVAILABLE	ASSIGNED OTHER	
	LAST NAME	FIRST NAME
<input checked="" type="radio"/>	Reviewer	iOS

SAVE

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

Apparatus Personnel (Cont.)

The screenshot shows a software interface titled "ASSIGN PERSONNEL". It features a table with two columns: "LAST NAME" and "FIRST NAME". The table lists several personnel, with "Dave" highlighted in yellow. A red circle next to "Cool" and "Battaglia" indicates they are already assigned. A dialog box is overlaid on the table, asking: "One or more of the personnel you have selected conflict(s) with another apparatus. Would you like to unselect any personnel before saving?". The dialog has "YES" and "NO" buttons. An arrow points from the text "Conflicted Personnel" to the highlighted row for "Dave". A "SAVE" button is located at the bottom right of the interface.

AVAILABLE	ASSIGNED OTHER
LAST NAME	FIRST NAME
● Cool	Way
● Battaglia	John
Cyman	Dave
Flemming	Tyler
x	x
Pepper	Hank
Prime	
Stack	
Johnston	
Logiprop 10	
Casaccia	
nexus--> 7	

One or more of the personnel you have selected conflict(s) with another apparatus. Would you like to unselect any personnel before saving?

YES NO

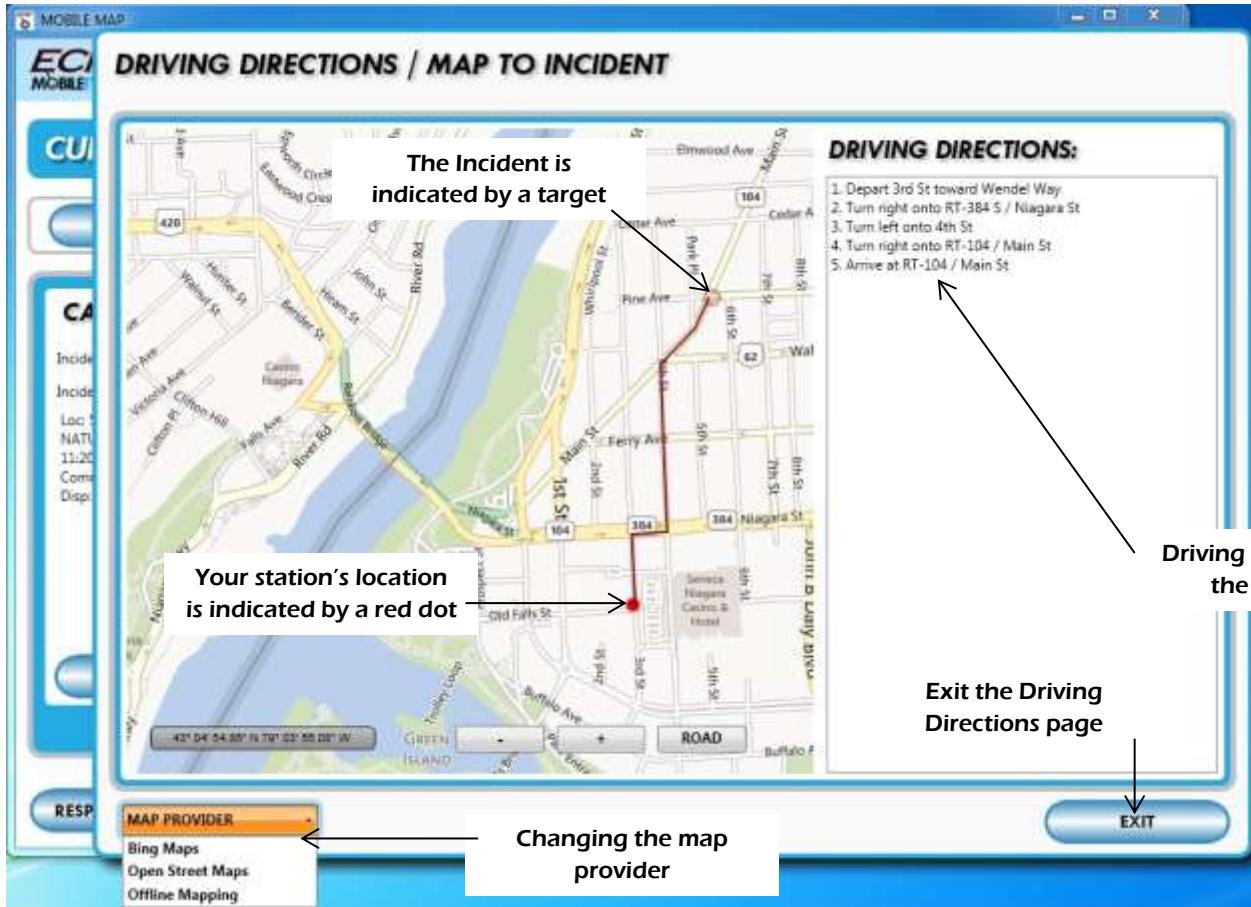
SAVE

Conflicted Personnel

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

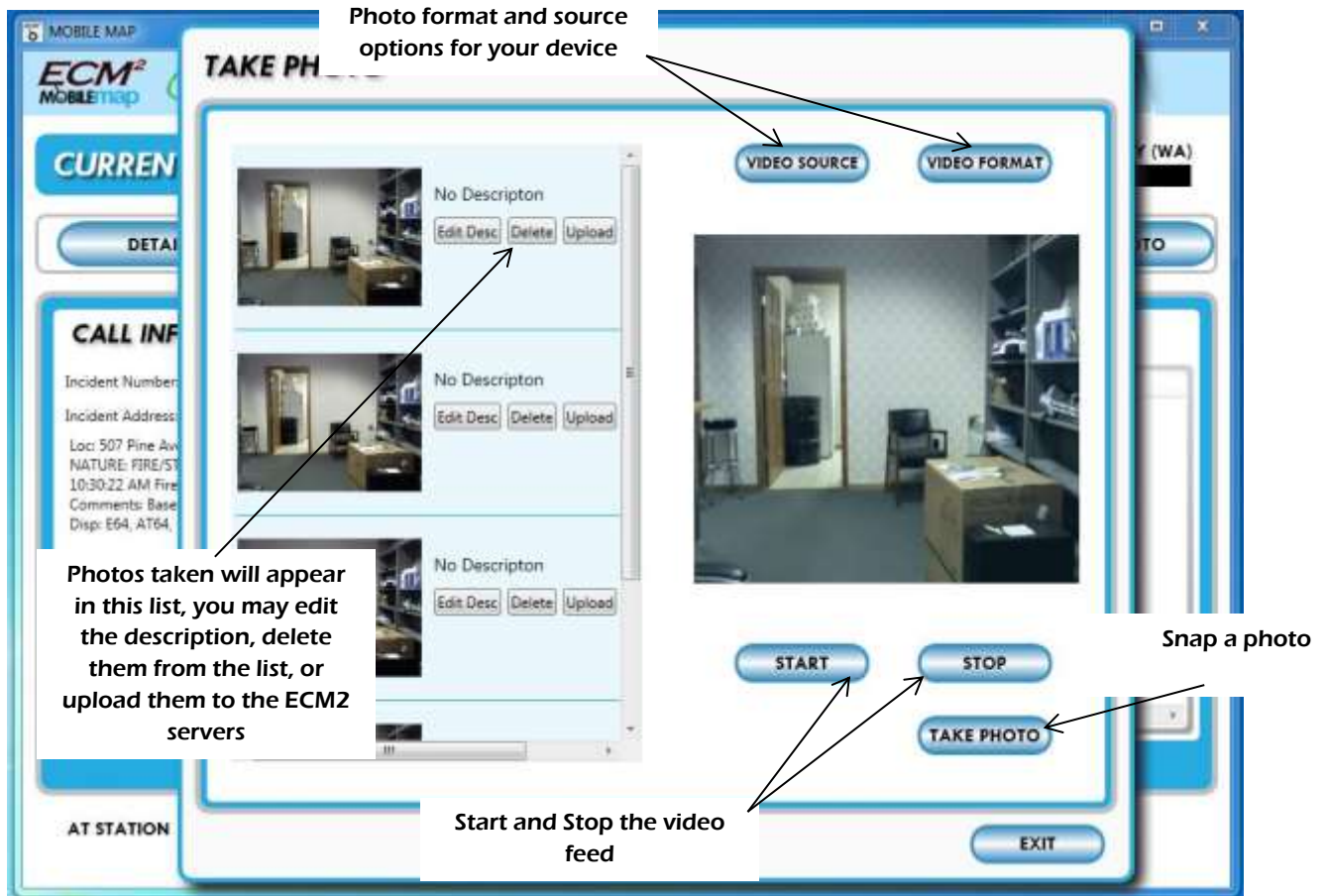
**If left unresolved and both users still have the same personnel selected, the apparatus who selected him first will ultimately get that person. (You can change this later with Station Manager™)

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

View will bring you to that current incident's details screen and set it as the current incident. Delete will delete the incident from the list if possible.

ACTIVE	INCIDENT NUMBER	DATE	TIME	DETAILS	View	Delete
<input checked="" type="checkbox"/>	EXPO4904589	1/9/2013 1:	10:30:23.8C	Loc: 507 Pine Ave, Niagara Falls, NY X-sts: Inc#:EXPO4904589 NA	View	Delete
<input type="checkbox"/>	EXPO4904588	1/9/2013 1:	10:29:49.57	Loc: 6197 Italy Rd, Export PA 15632 X-sts: Inc#:EXPO4904588 NA	View	Delete
<input type="checkbox"/>	EXPO4904586	1/9/2013 1:	10:28:19.55	Loc: 6197 Italy Rd, Export PA 15632 X-sts: Inc#:EXPO4904586 NA	View	Delete

Shows the active incident (the highlighted row), its number, the date and time of the incident and all the details of the incident

INC CHECK

**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.

The screenshot shows the 'APPARATUS' screen in the ECM2 MOBILE application. The interface includes a header with 'ECM2 MOBILE' and navigation tabs for 'APPARATUS', 'ADMIN', and 'CALENDAR/EMG NOTICES'. A table lists various apparatuses with columns for NAME, STATUS, TYPE, IN SERVICE, and DESCRIPTION. Each row has 'Edit' and 'Delete' buttons. A 'SYNC' button is located at the bottom right. Annotations with arrows point to the 'Add a new Apparatus' link, the table columns, the 'Edit/Delete' buttons, and the 'SYNC' button.

NAME	STATUS	TYPE	IN SERVICE	DESCRIPTION		
Click here to add new item						
Engine 64	AT STATION	Pump Truck	Yes	Heavy Engine	Edit	Delete
Rescue 64	AT STATION	Pump Truck	Yes	Heavy Rescue Pumper	Edit	Delete
Attack 64	AT STATION	Pump Truck	Yes	4X4 pumper	Edit	Delete
Tanker 64	AT STATION	Pump Truck	Yes	Tanker pumper	Edit	Delete
Service 64	AT STATION	Ambulance	Yes	Service / traffic	Edit	Delete
Asst64	AT STATION	Pump Truck	Yes	POV	Edit	Delete

Edit or Delete the apparatus in that row

Add a new Apparatus

Name, Status, Type, Whether or not the Apparatus is in service, and Description of the specific Apparatus

Synchronize your apparatus with other Mobile Mappers and the ECM2 Server

SYNC

**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

Reset the user associated with this apparatus to nobody

Edit the Type and Statuses that your department's apparatus can select

Save and exit

Field	Value
Name	Engine 64
Description	Heavy Engine
Display Code	ENG64
Original Cost	560,000
Purchase Date	6/12/2012 6:51:08 PM
Cost Per Hour	0.0000
Service Date	6/12/2012 6:51:08 PM
In Service	<input checked="" type="checkbox"/>
Has Pump	<input type="checkbox"/>
Hide	<input type="checkbox"/>
User	[User Name] RESET Me?
Serial Number	84249849238902
Make	Spartan
Model	GL500
Year	2010
Vendor	precision
Unit	Pumper
Type	Pump Truck EDIT
Status	AT STATION EDIT
Current Hours	0.00
Current Miles	0.00
Pump Hours	0.00
Fire Dept ID	93
Notes	

****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.)

MOBILE MAP **ECM² MOBILE MAP** **SERV** **EDIT APPARATUS**

APPARATUS INFO | **APPARATUS SPECS** | OTHER

APPARATUS

NAME: []
Click here to add

- Engine 64
- Rescue 64
- Attack 64
- Tanker 64
- Service 64
- Aast64

ENGINE

Engine Make: []
Engine Model: []
Engine Serial: []
Cylinders: [0]
Horsepower: [0]
Max. Speed: [0]
Transmission Make: []
Transmission Model: []
Transmission Type: []
Battery Make: []
Battery Model: []

Gross Axel Weight Rating Front: [0]
Front Tire Size: []
Front Tire Pressure: [0]
Rear Tire Size: []
Rear Tire Pressure: [0]

FLUIDS

Eng Oil Type: []
Eng Oil Cap (gals): []
Trans. Fluid Type: []
Trans. Fluid Cap (gals): [0]
Fuel Type: []
Fuel Capacity: [0]

CHASIS

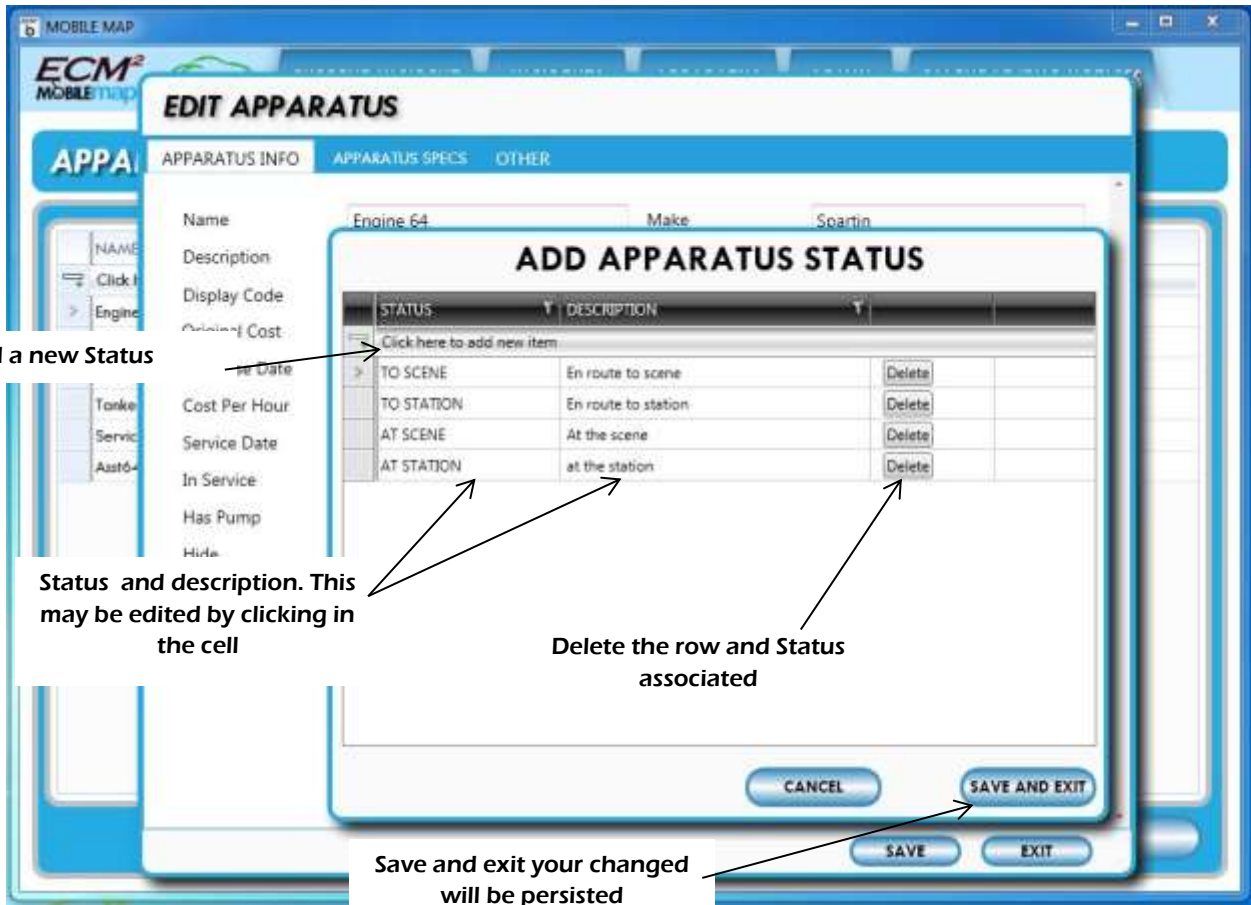
Chasis Make: []
Chasis Model: []
Chasis Serial: []
Width: [0]

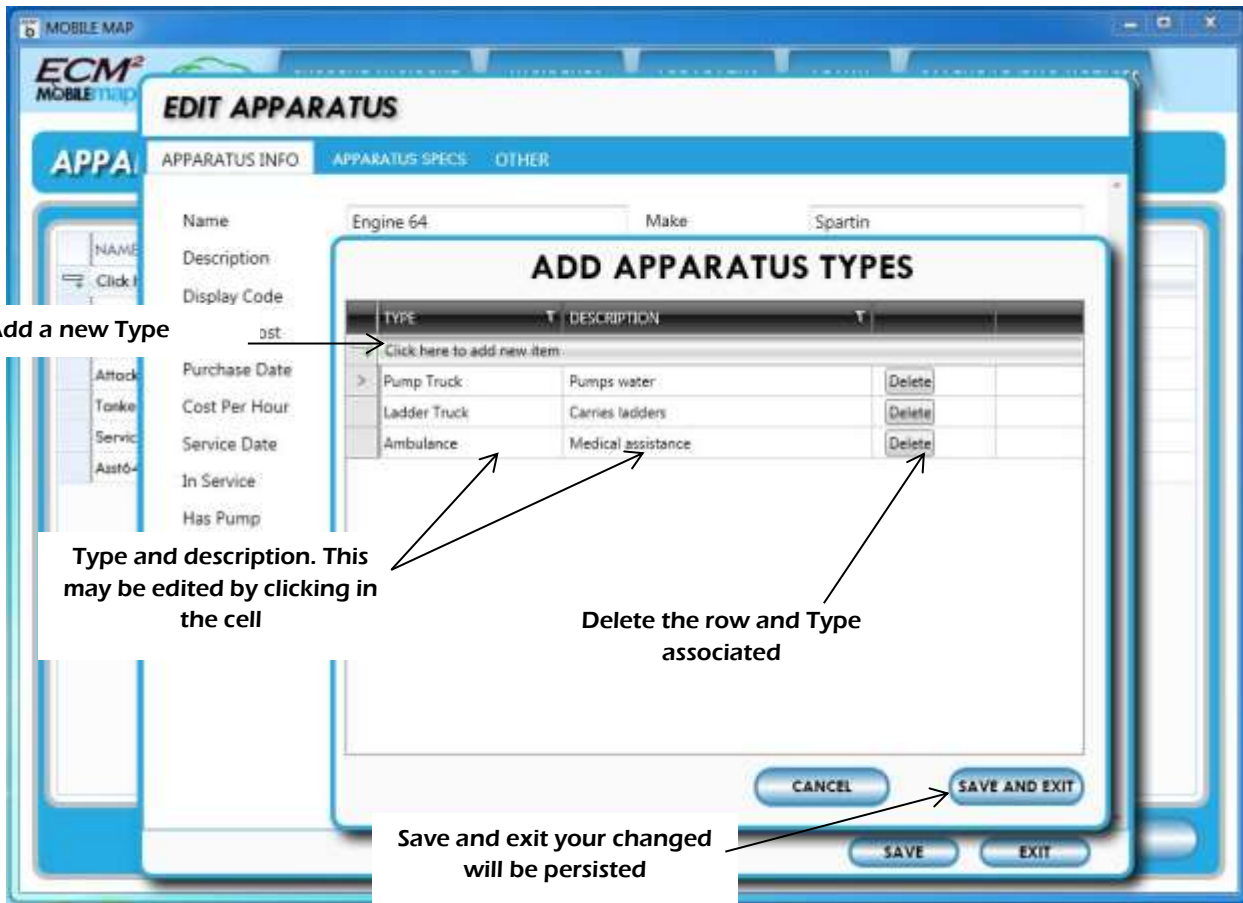
WATER TANK

Watertank Size (gals): [0]
Pump make: []
Pump Size: [0]
Supplyhose Size (in): [0]

SAVE **EXIT**

**Specifications of the Apparatus are specified here





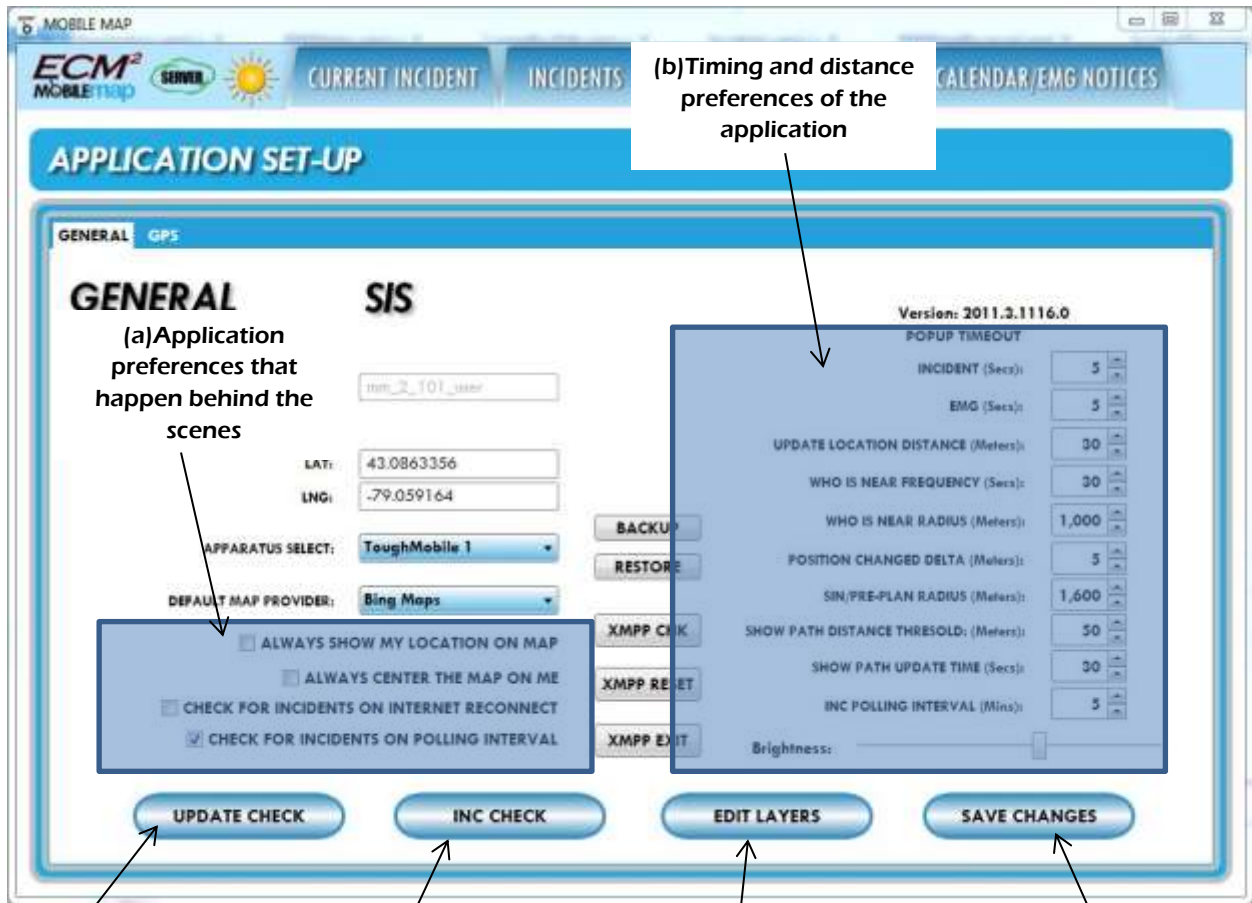
Application Setup

The screenshot shows the 'APPLICATION SET-UP' web interface. At the top, there are navigation tabs for 'APPARATUS', 'ADMIN', and 'CALENDAR/EMG NOTICES'. The main content area is titled 'APPLICATION SET-UP' and has two tabs: 'GENERAL' (selected) and 'GPS'. The 'GENERAL' tab is divided into two sections: 'GENERAL' and 'SIS'. The 'GENERAL' section includes fields for 'REGISTERED INSTALL ID' (mm_2_101_user), 'DEFAULT CURRENT LAT/LNG' (LAT: 43.0863356, LNG: -79.059164), 'APPARATUS SELECT' (ToughMobile 1), and 'DEFAULT MAP PROVIDER' (Bing Maps). There are also several checkboxes for map settings. The 'SIS' section includes a 'Version: 2011.3.1116.0' label and a 'POPUP TIMEOUT' section with various time and distance settings. At the bottom, there are buttons for 'UPDATE CHECK', 'INC CHECK', 'EDIT LAYERS', and 'SAVE CHANGES'. Callouts with arrows point to specific elements: 'General options and GPS options tabs' points to the 'GENERAL' and 'GPS' tabs; 'Your unique application ID' points to the 'REGISTERED INSTALL ID' field; 'The version you're running' points to the 'Version: 2011.3.1116.0' label; 'Choose your apparatus or displays the apparatus you already are associated with' points to the 'APPARATUS SELECT' dropdown; and 'Default map provider for all application maps' points to the 'DEFAULT MAP PROVIDER' dropdown.

Choose your apparatus or displays the apparatus you already are associated with

Default map provider for all application maps

Application Setup (Cont.)



(a) Application preferences that happen behind the scenes

(b) Timing and distance preferences of the application

Check if there are any upgrades for Mobile Map

Pull down incidents from the server you haven't already gotten

Open the Edit Layers screen

Save any changes you've made to the Application Preferences (you must press this if you want to choose your apparatus)

(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.

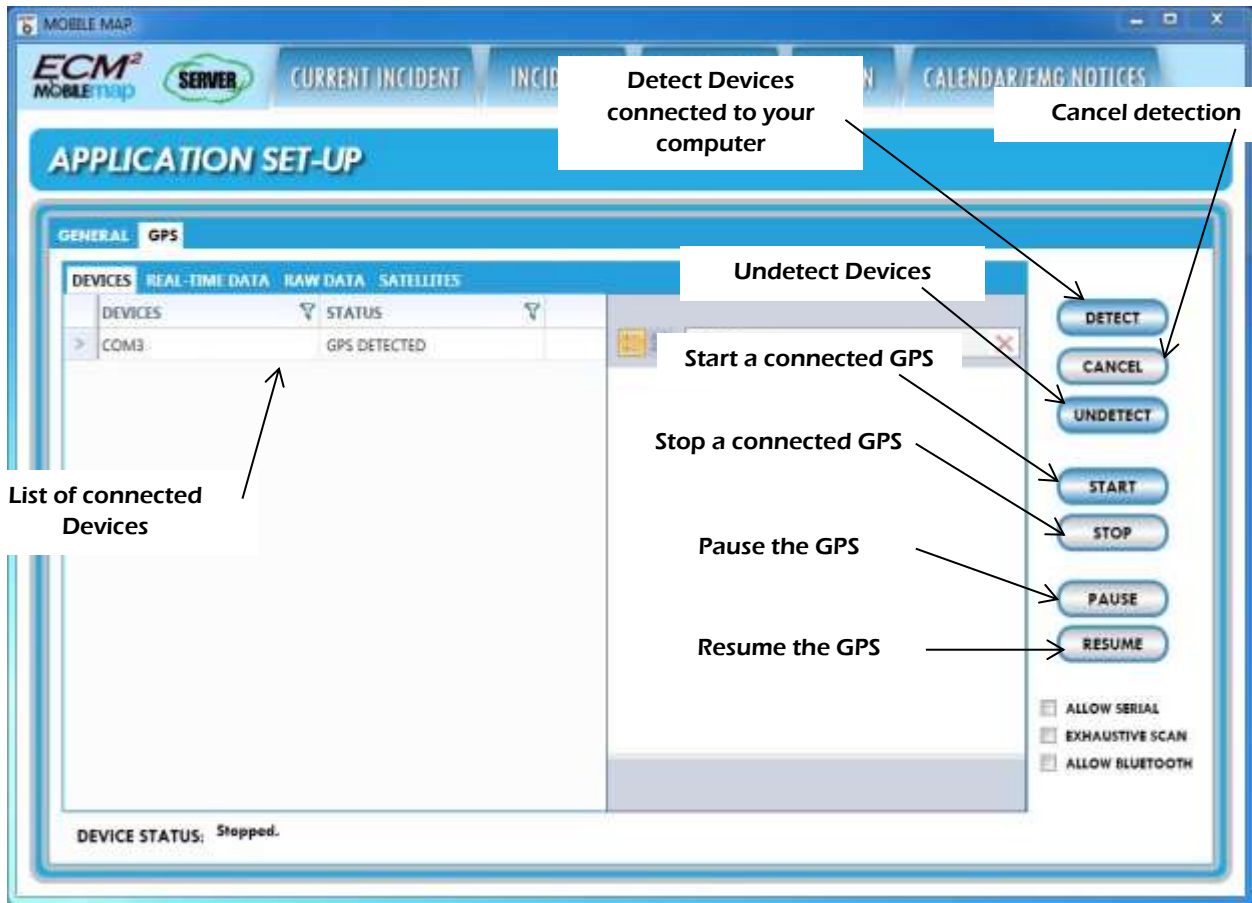
Restore – This button will allow you to restore your incidents from a previously backed up file. You will be prompted to choose a folder location. You may only back up from a folder that contains the incidents.xml file. Folders you want to choose will follow the format: “backup_mobilemap_db_YEAR_MONTH_DATE_HOUR_MINUTE_SECOND”, 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.)

MOBILE MAP

ECM² MOBILE MAP SERVER

CURRENT INCIDENT INCIDENTS APPARATUS ADMIN CALENDAR/EMG NOTICES

APPLICATION SET-UP

GENERAL GPS

DEVICES REAL-TIME DATA RAW DATA SATELLITES

Drag a column header and drop it here to group by that column

NAME	AZIMUTH	ELEVATION	SIGNAL STRENGTH
Navstar 36	North	Near the horizon	0 DB (None)

DETECT
CANCEL
UNDETECT
START
STOP
PAUSE
RESUME

ALLOW SERIAL
 EXHAUSTIVE SCAN
 ALLOW BLUETOOTH

REFRESH

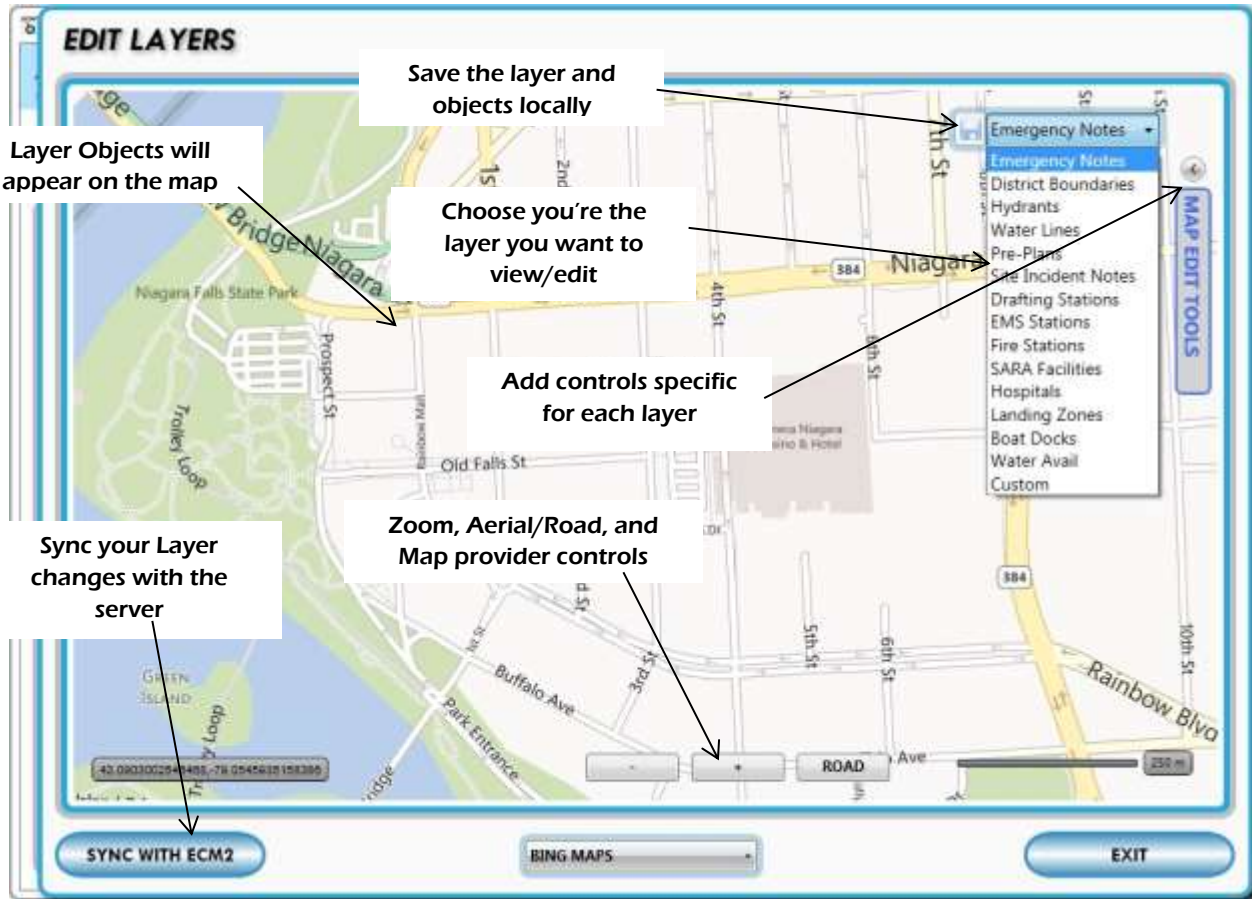
DEVICE STATUS: Connected! Waiting for data...

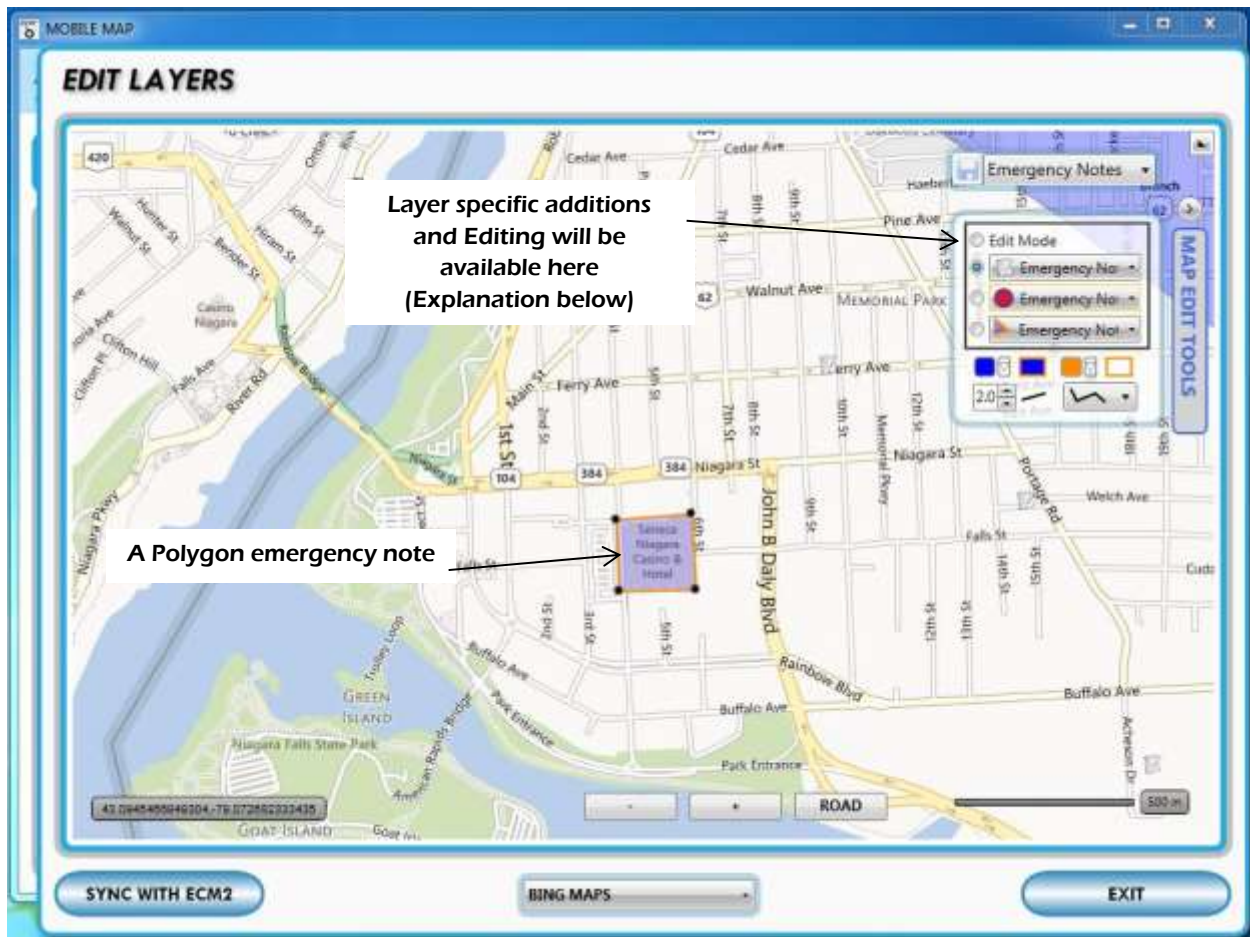
List of Satellites your GPS is communicating with

Refresh the list of satellites

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

Edit Layers





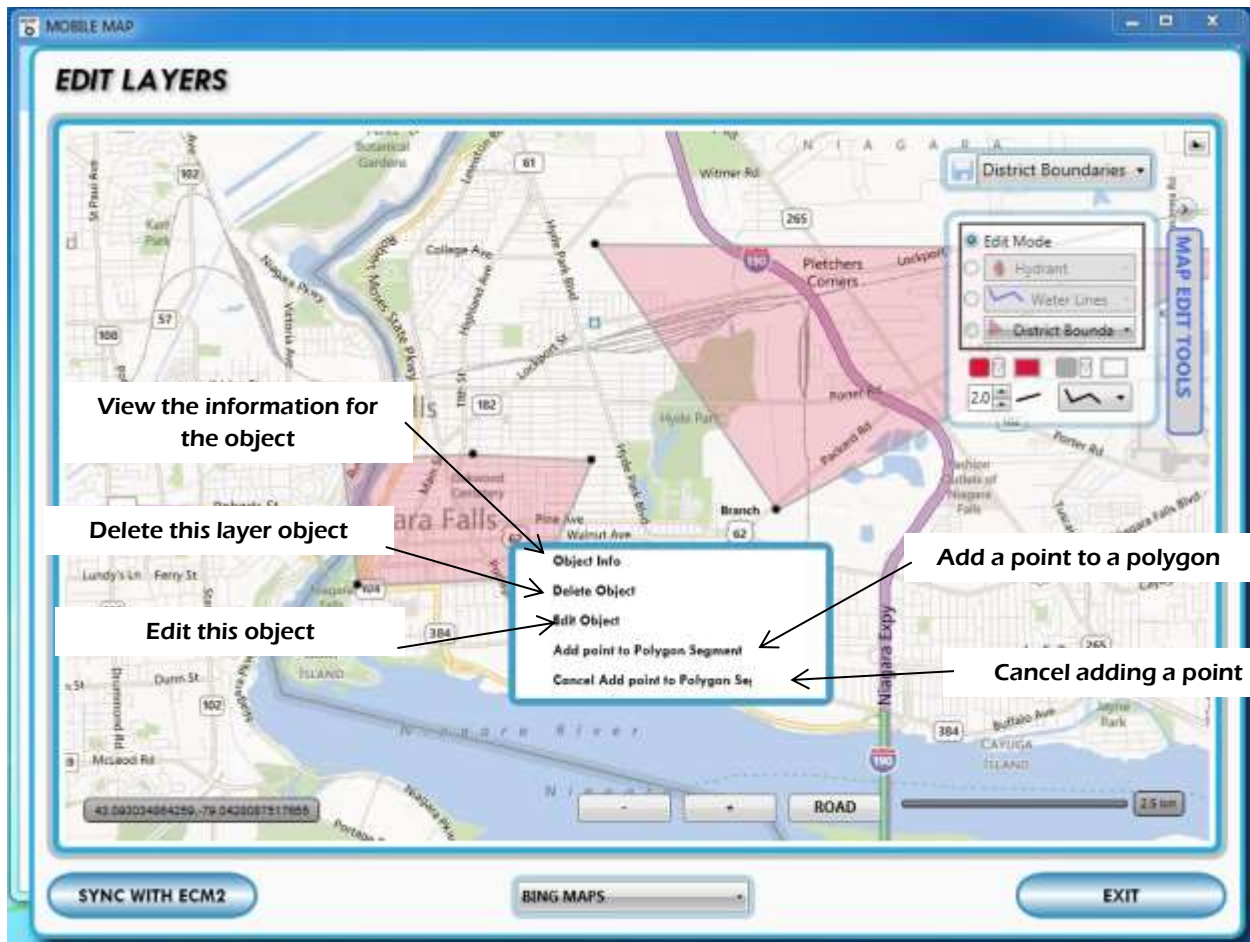
** For every layer there are different map edit tools. For example in the Emergency Notes Layer you may place a point, a radius, or a polygon. Simply click on the radio button next to the object you'd like to place and click on the map.

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

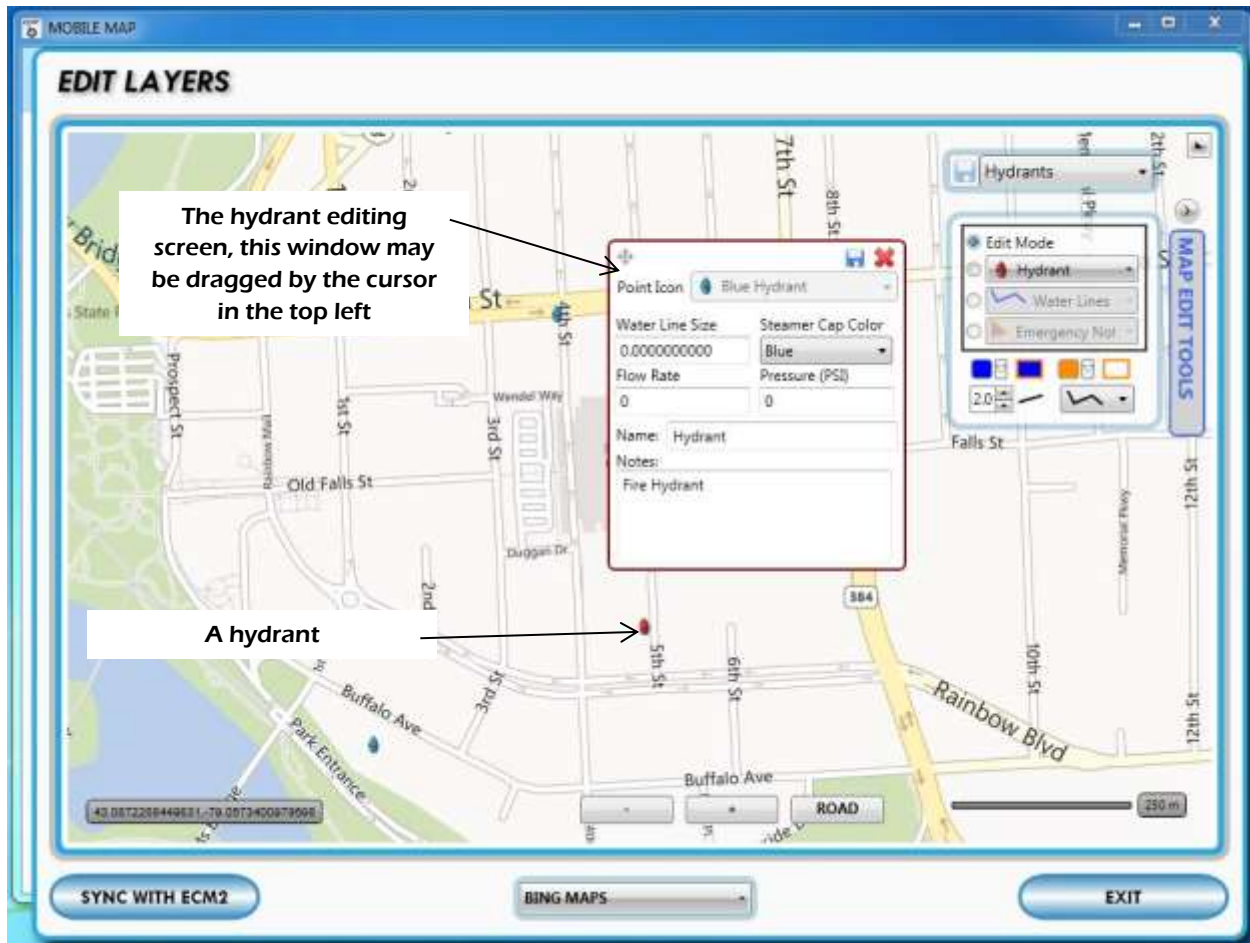


**Note that the point addition won't appear for points. If at any point you don't want to save your changes just exit out of the Edit Layers screen and choose not to save changes.

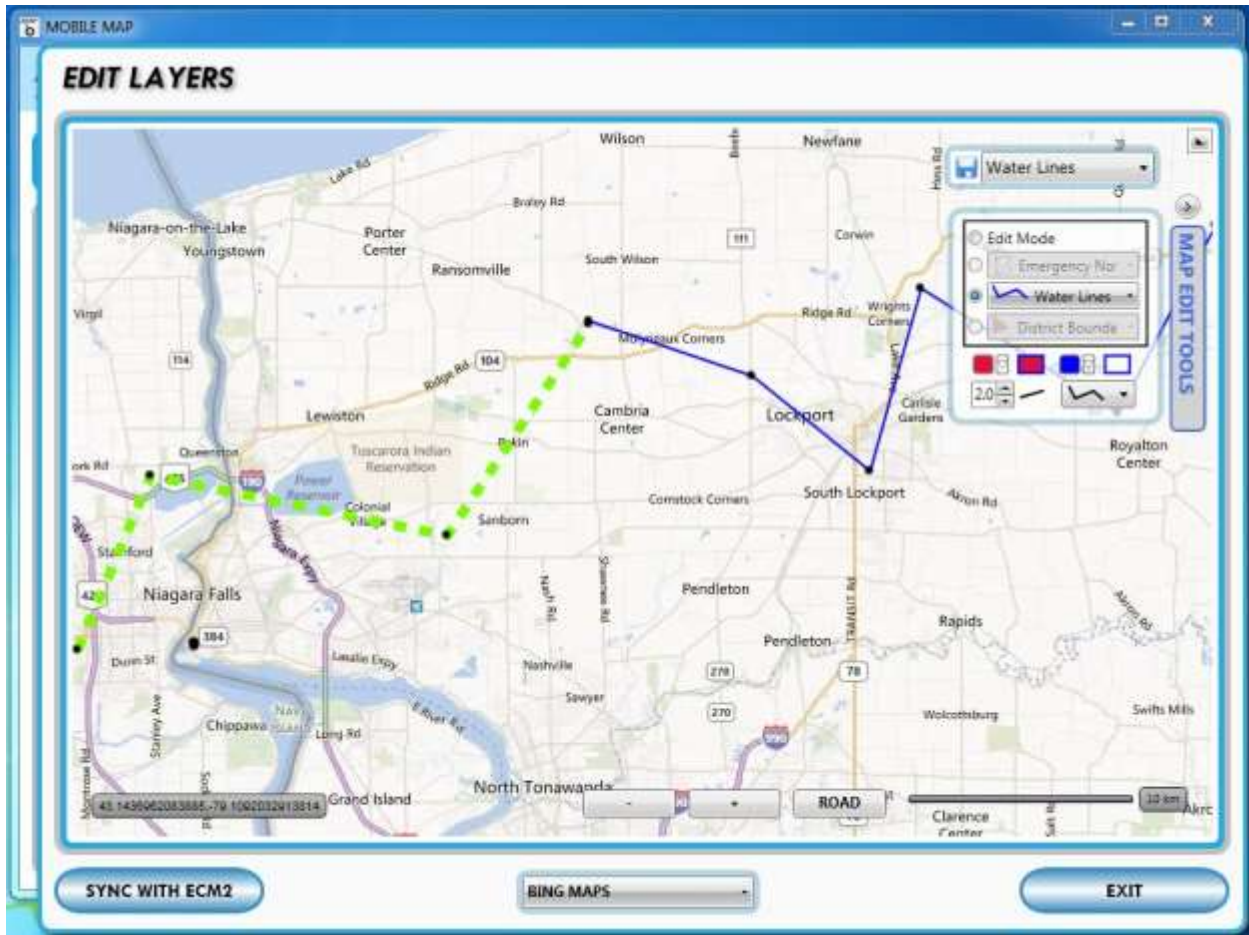
**Upon clicking "Add Point to Polygon Segment" you will be presented with a highlight for each leg. Upon left clicking, the selected leg will have a point added at its center point.



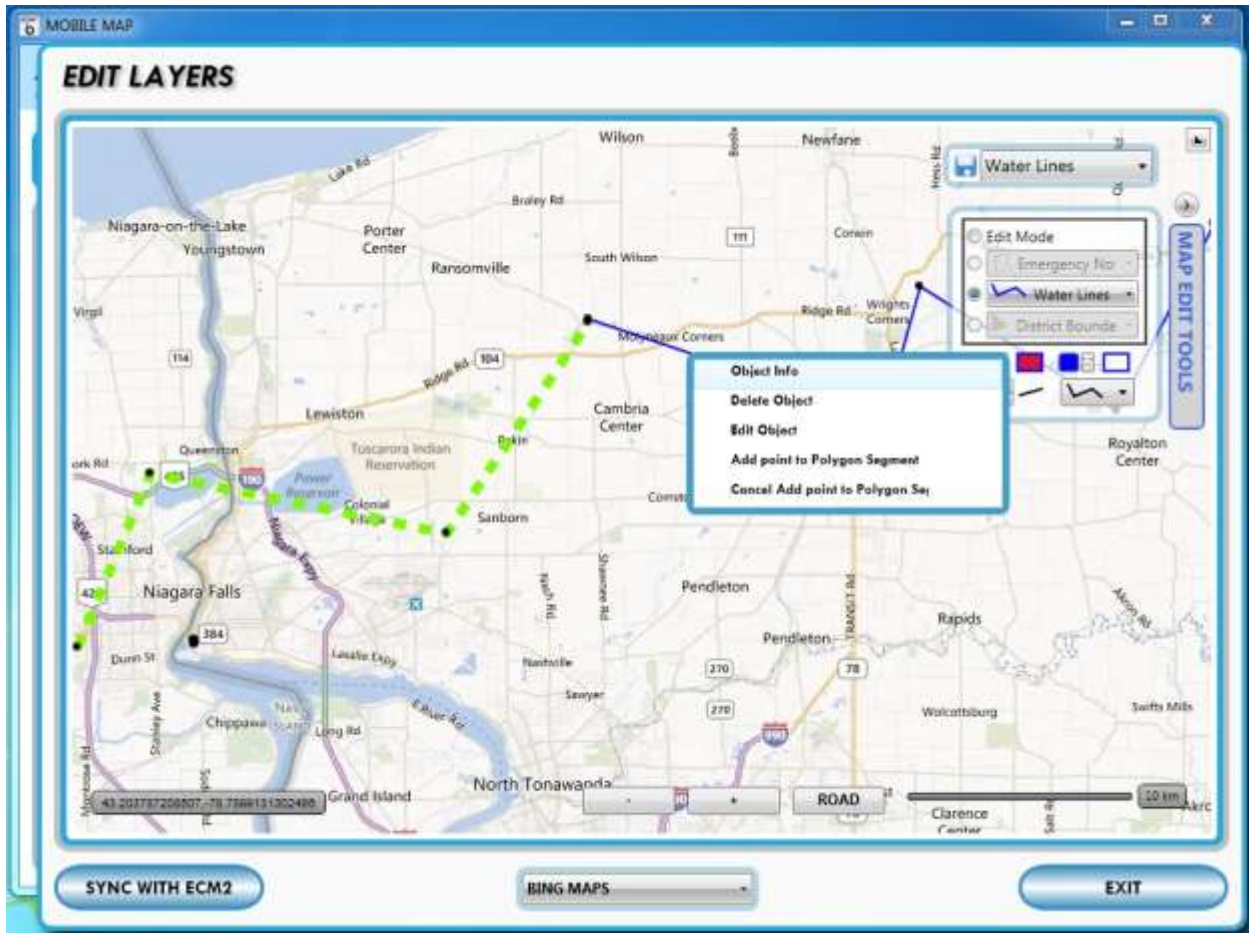
Edit Layers (Hydrants)



**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.



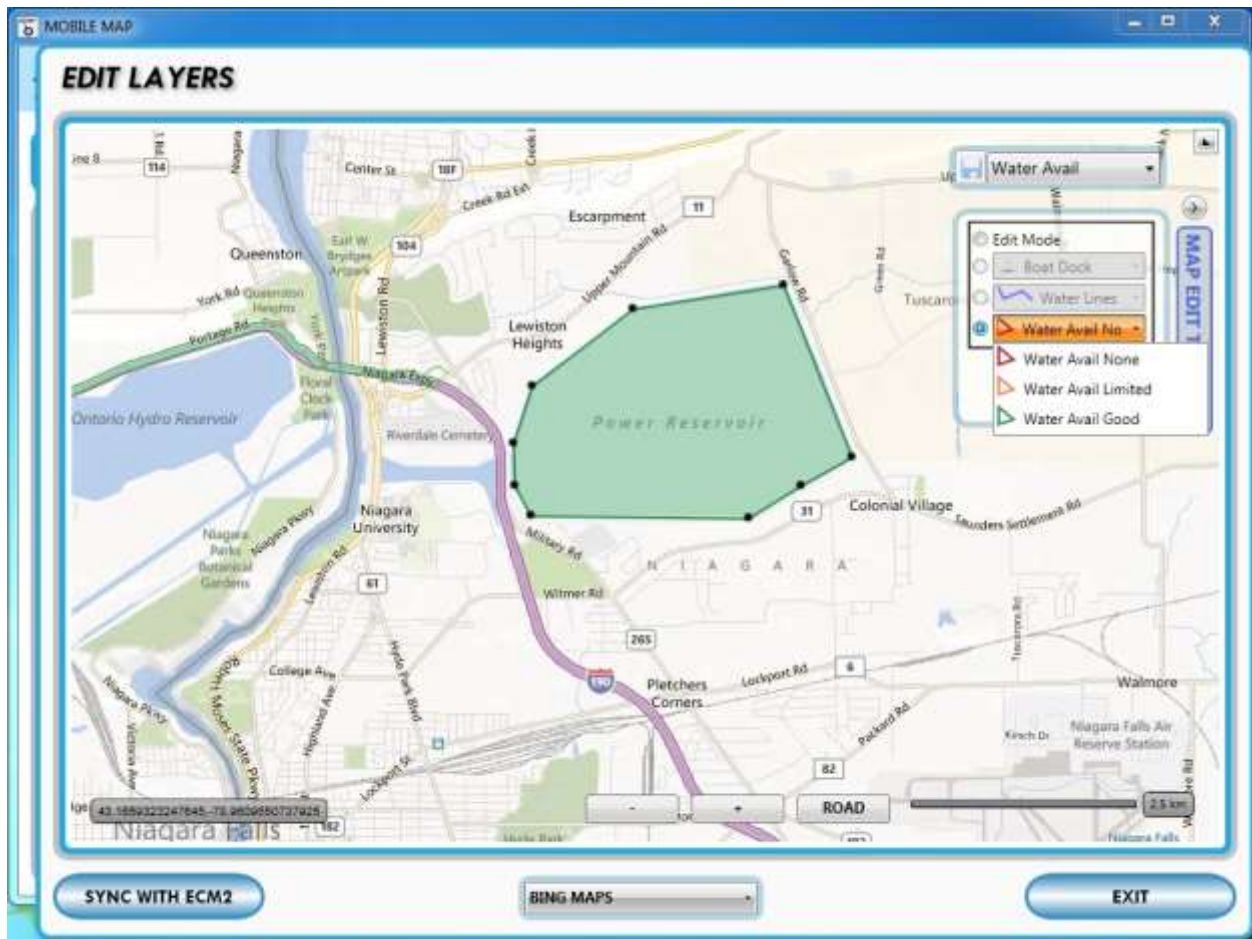
**The Waterlines layer shows water lines in your county and has the same point addition feature as polygons as shown below.



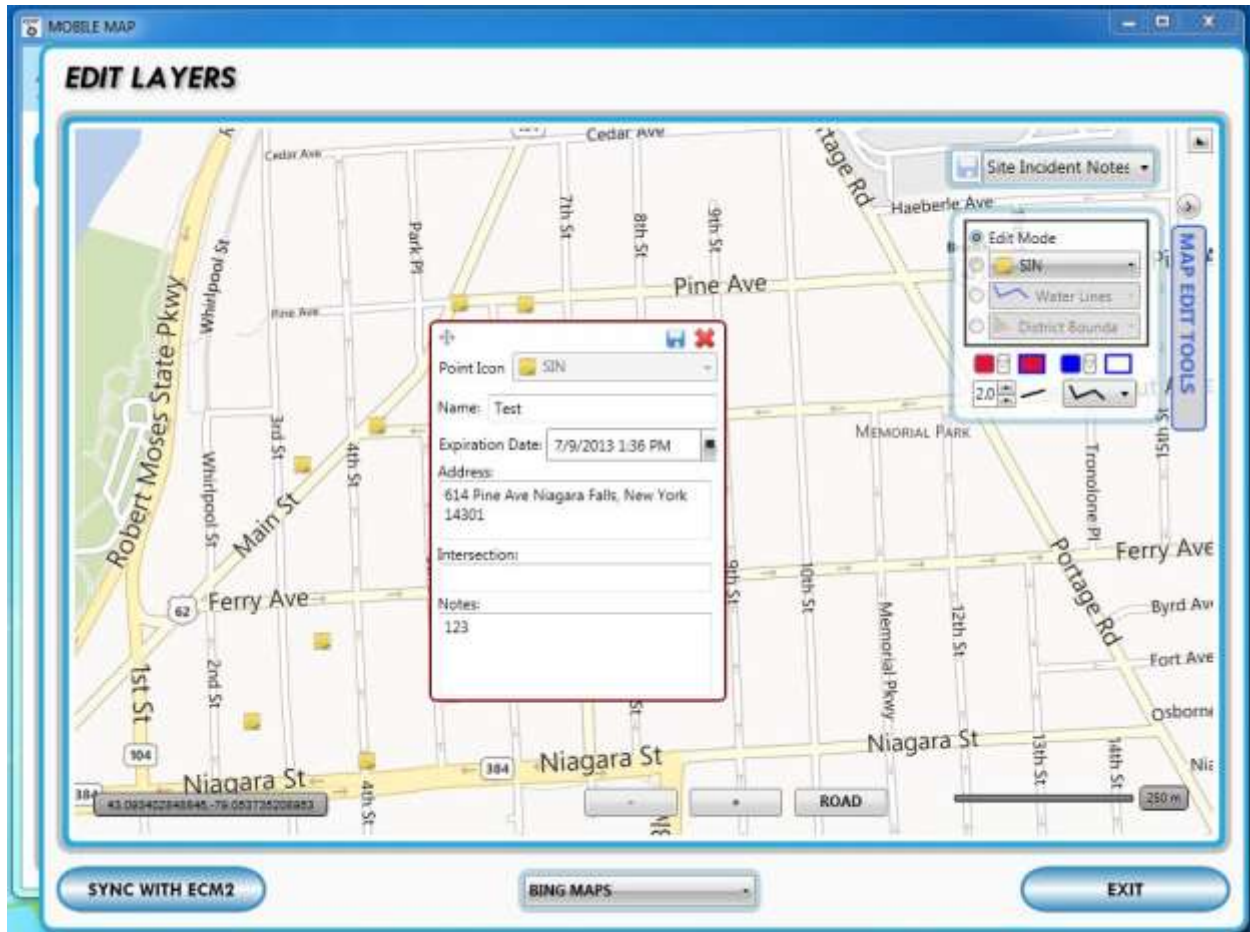
Edit Layers (Cont.)

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

Water Availability

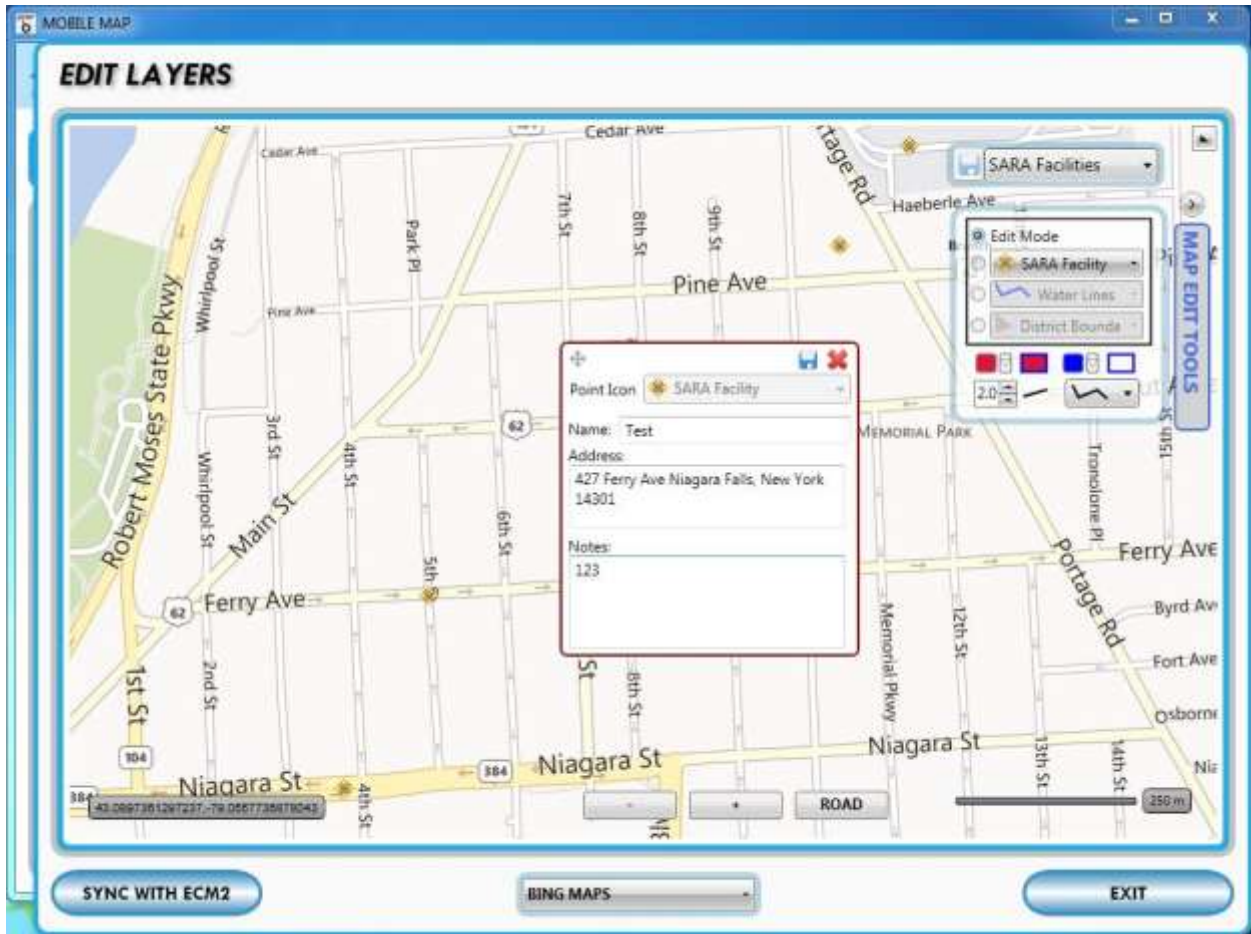


Site Incident Notes

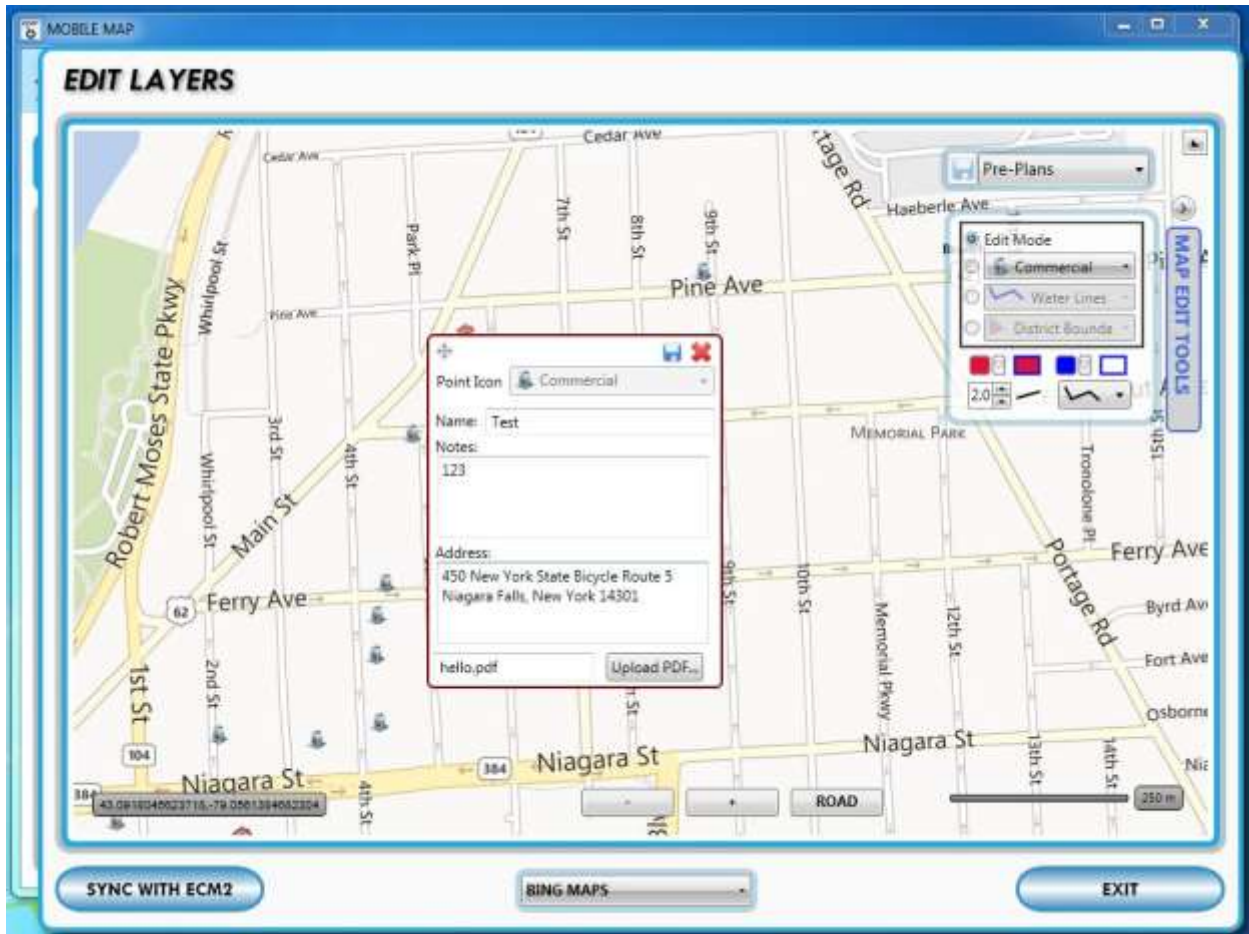


**Note the intersection is specific to Site Incident Notes. And after the expiration date it won't show up on the Current Incident SIN/Pre-Plan page anymore.

SARA Facilities

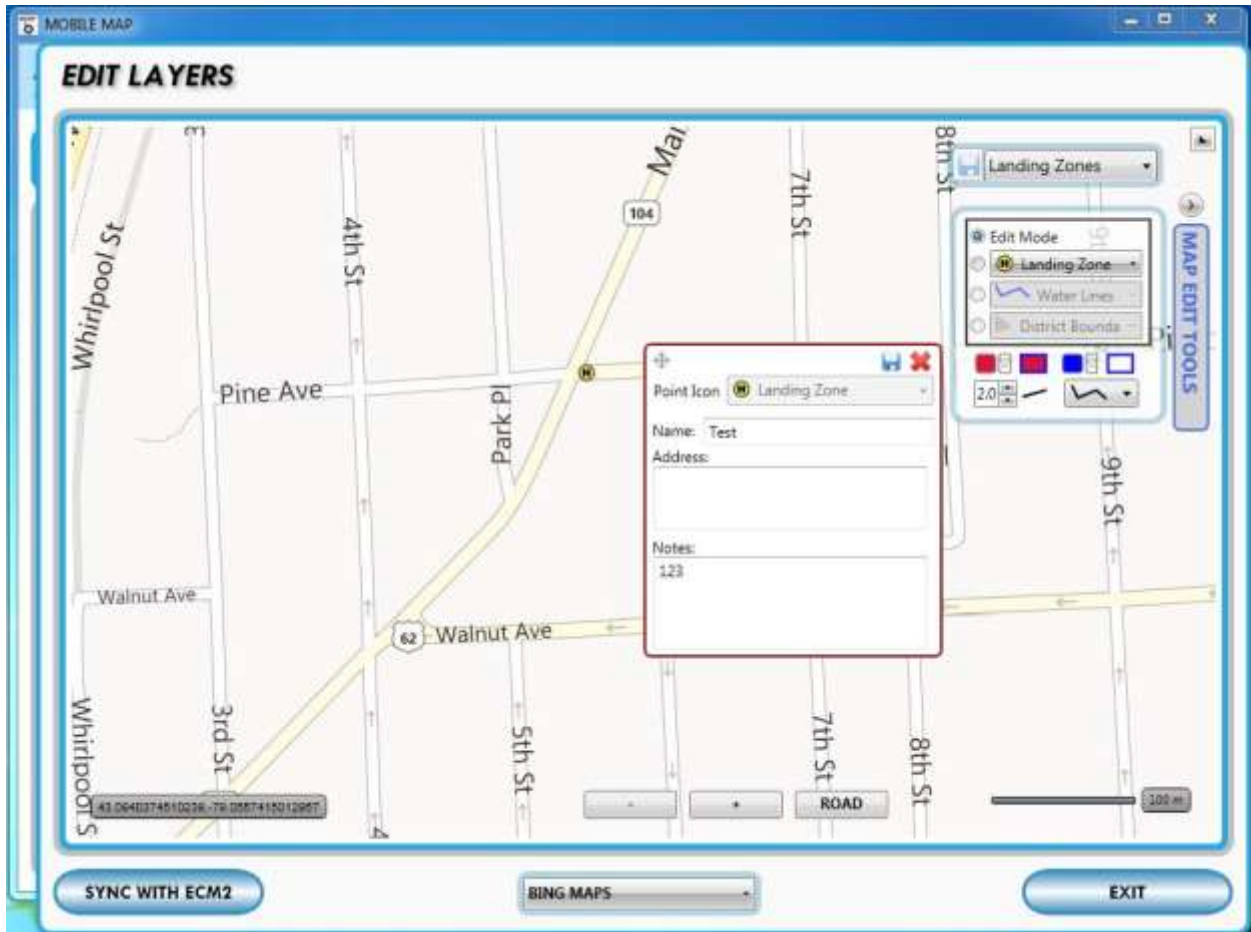


Pre-Plans



** 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.

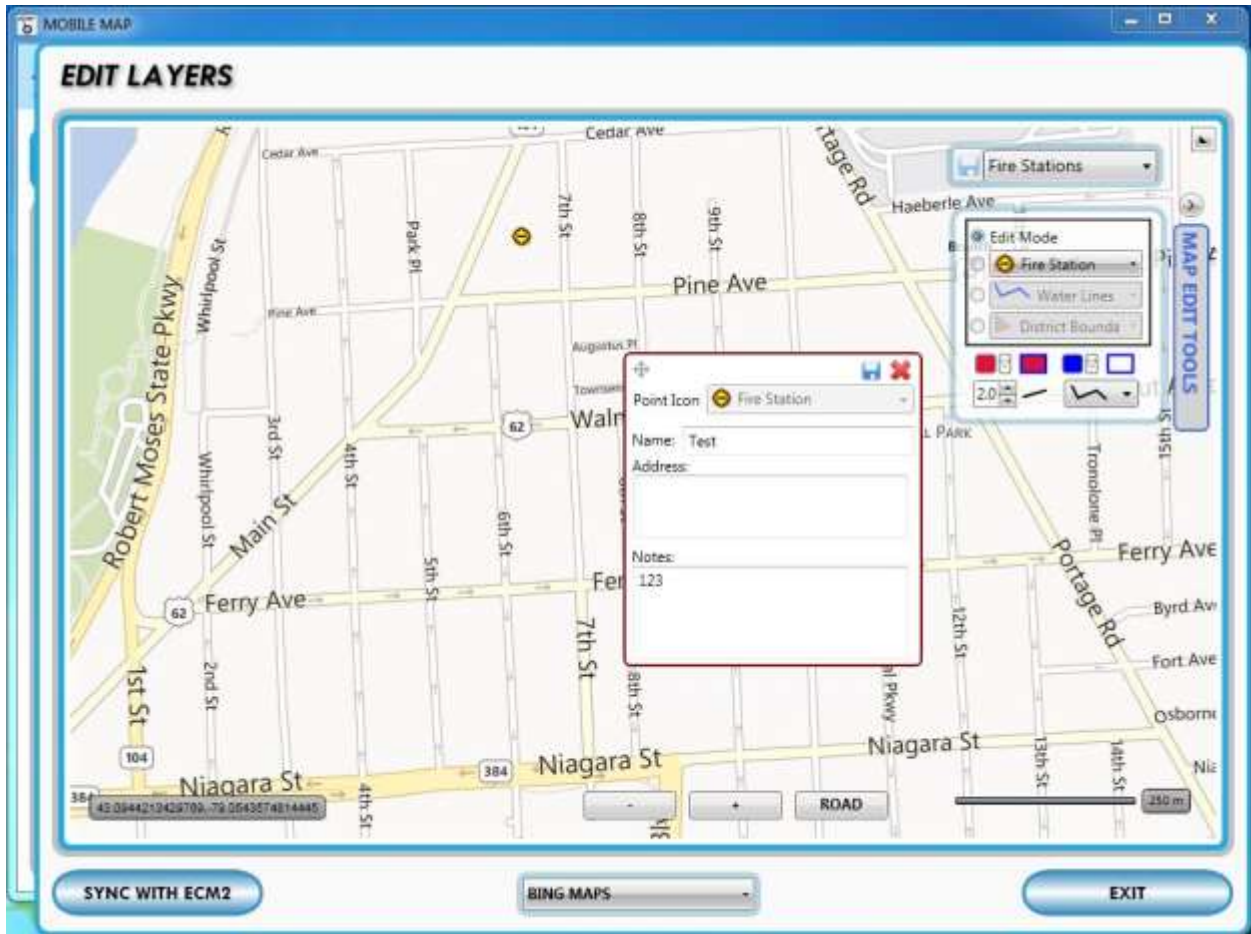
Landing Zones



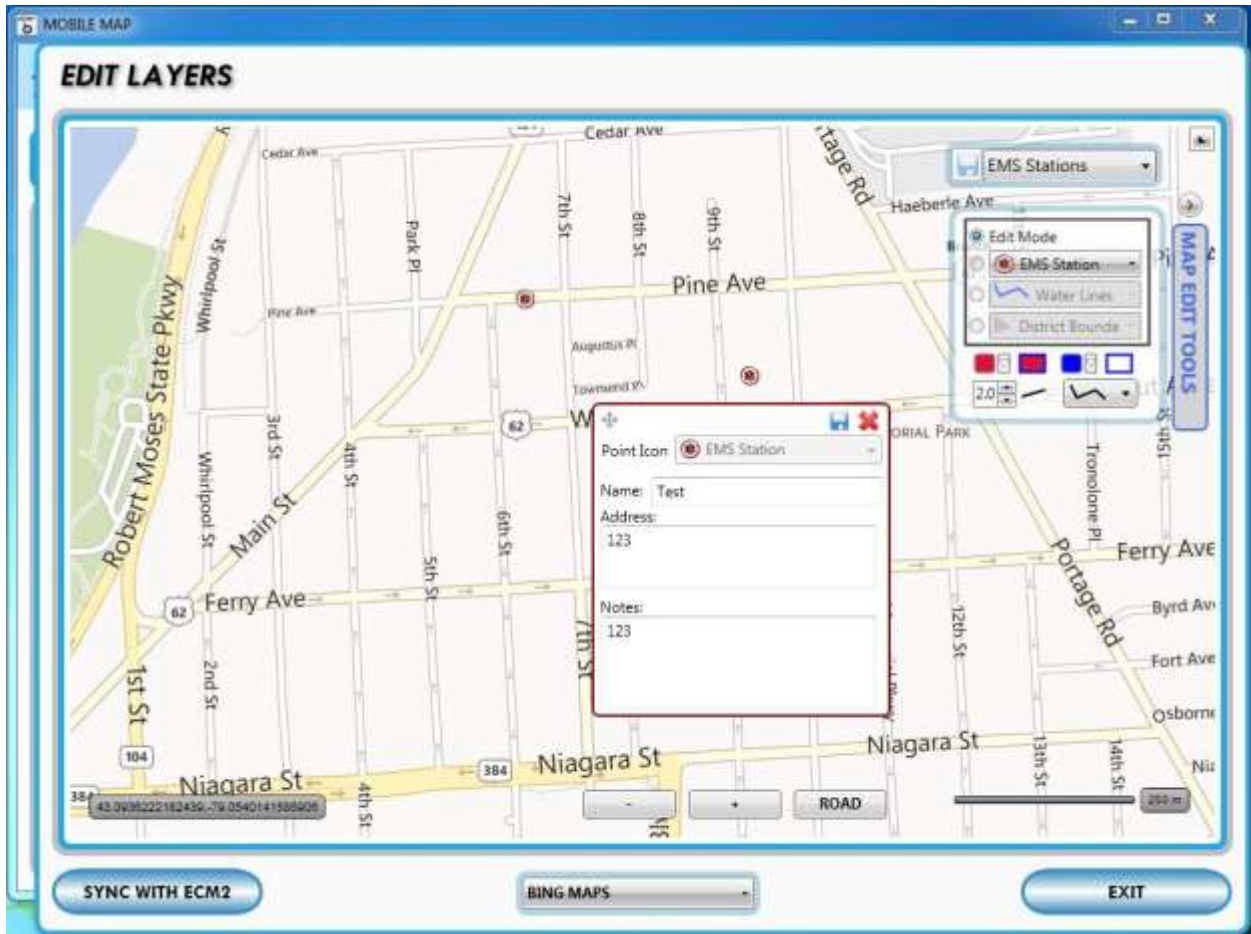
Hospitals



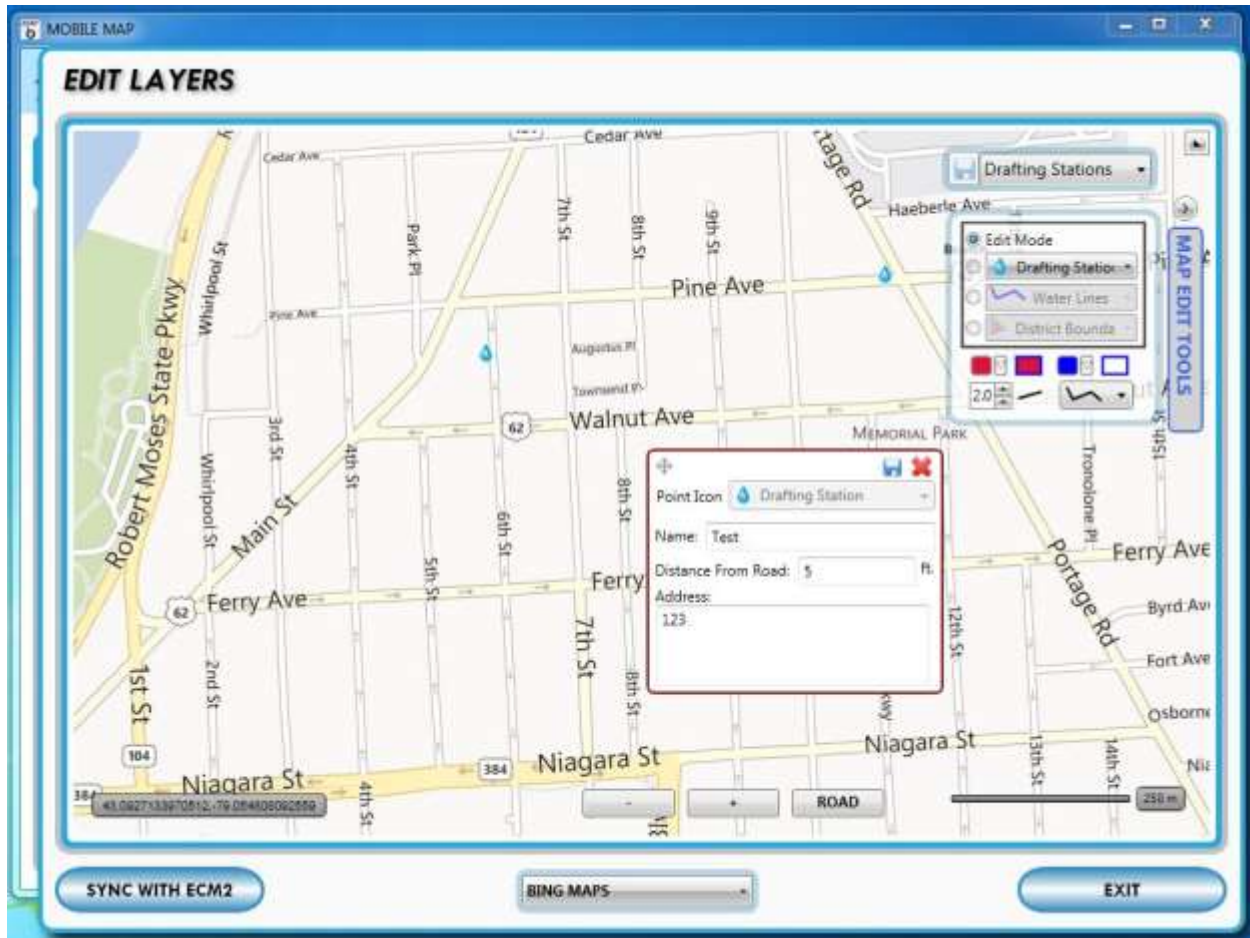
Fire Stations



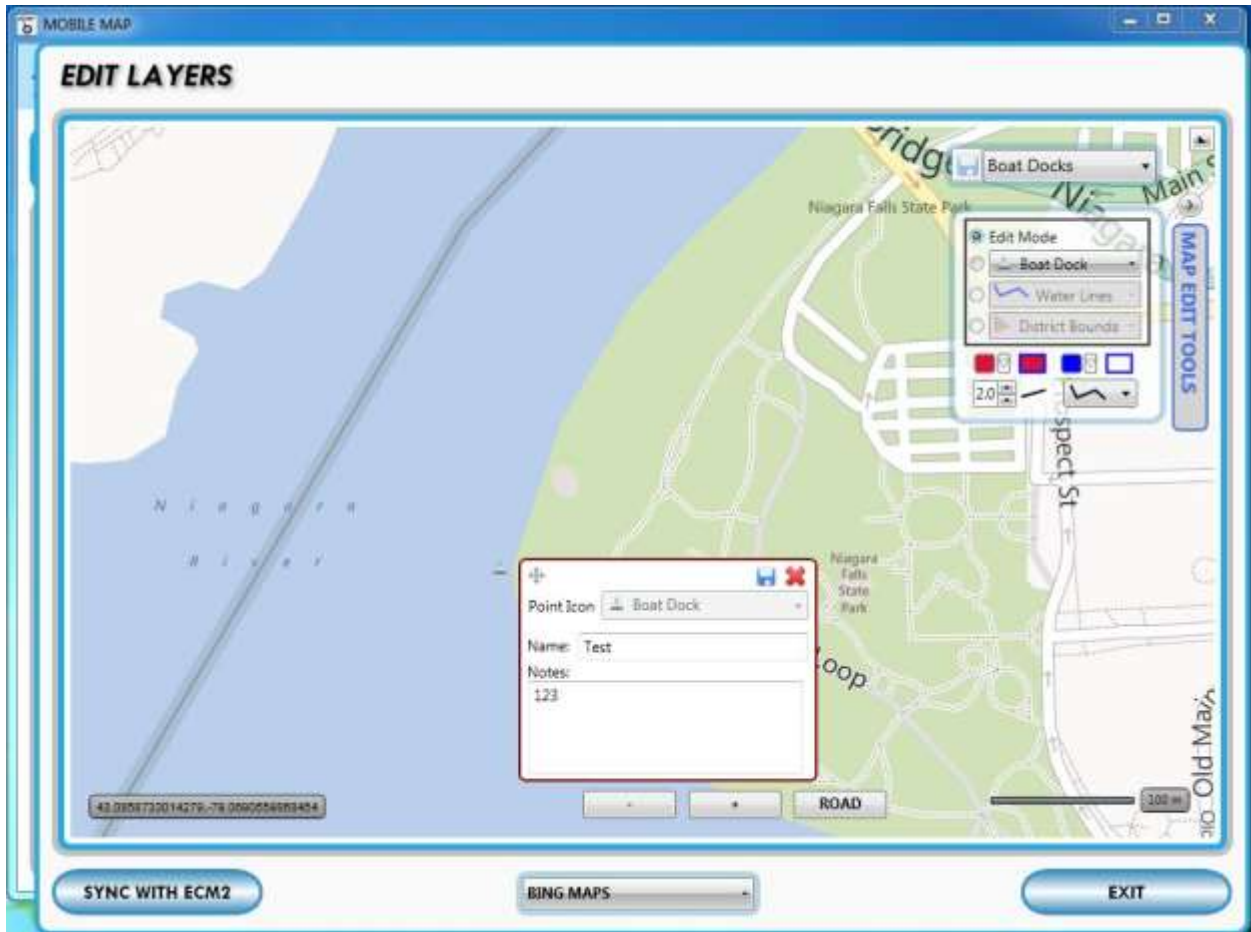
EMS Stations



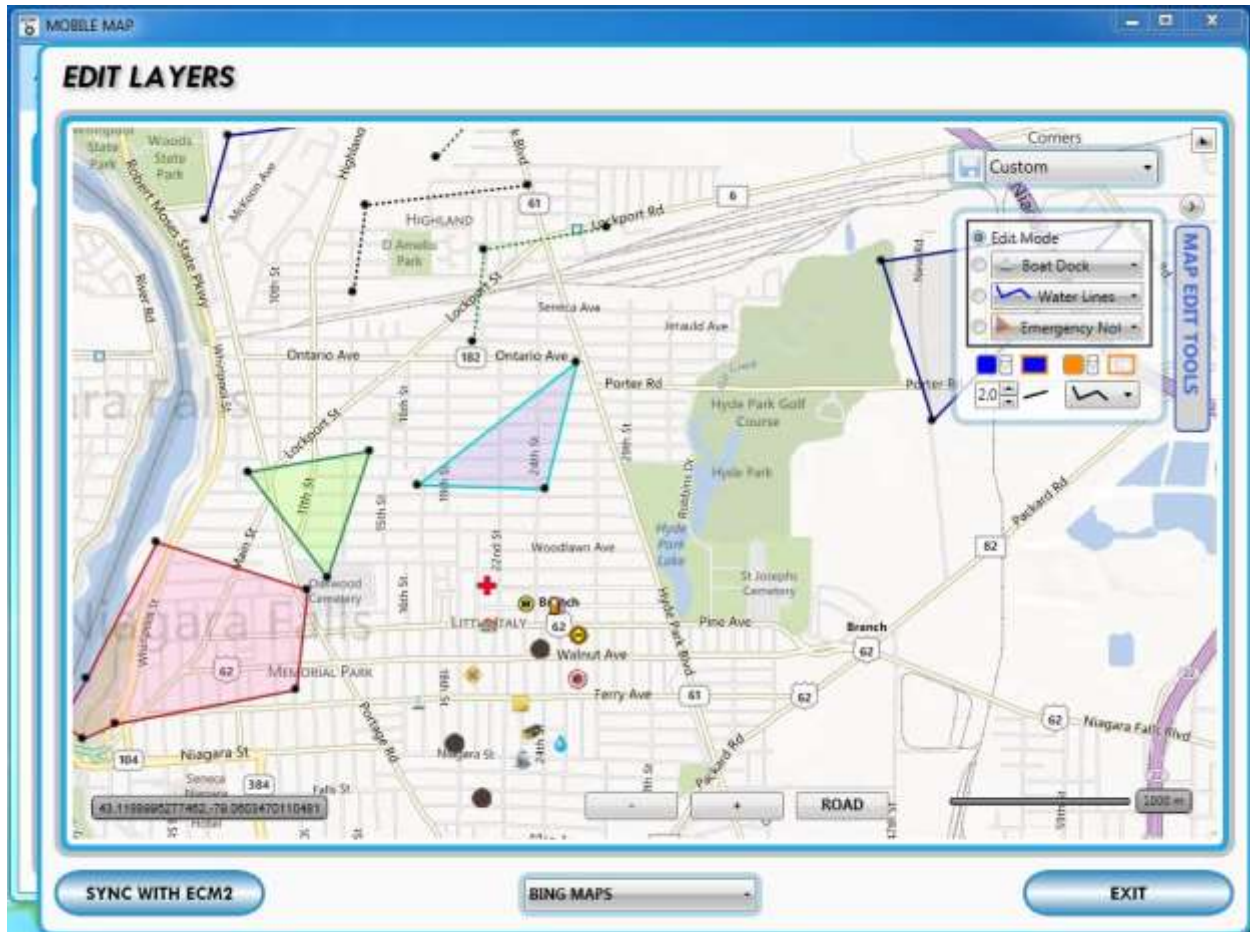
Drafting Stations



Boat Docks



**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

MOBILE MAP **SERVER** **CURRENT INCIDENT** **INCIDENTS** **APPARATUS** **ADMIN** **CALENDAR/EMG NOTICES**

CALENDAR & EMG NOTICES

CALENDAR **EMERGENCY NOTICES**

Day Week Month Save Changes January 2013

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
		01	02	03	04	05
06	07	08	09	10 PTO	11	12
13	14	15	16	17 Station Meeting	18	19

Double clicking on a day will allow you to add a Calendar note and be prompted with an editing screen

Sync your changes and save them locally

Save Changes

Double click on an event edit it.

A delete button will show for deletion on hover

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

Emergency Notes

Sync Emergency Notes with other users and ECM2 Servers

Choose the type of Emergency Note you'd like to add

CALENDAR EMERGENCY NOTICES

Emergency Notes Map

SYNC EMG NOTES

MAP PROVIDER

MODE

EDIT MODE
ADD PINPOINT
ADD MAP SHAPE
ADD RADIUS
ADD BY ADDRESS

Emergency Notes

NOTES	CREATED DATE	END DATE	LAST MODIFIED	Options
Emergency Text	1/9/2013 1:57:47 PM	1/16/2013 1:57:47 PM	1/9/2013 1:59:19 PM	Edit Delete
Emergency Text	1/4/2013 3:17:02 PM	1/11/2013 3:17:02 PM	1/4/2013 3:16:28 PM	Edit Delete
Emergency Text	1/4/2013 3:11:51 PM	1/11/2013 3:11:51 PM	1/4/2013 3:11:18 PM	Edit Delete
Emergency Text	12/20/2013 3:11:12 PM	12/27/2013 3:11:12 PM	12/20/2013 3:10:51 PM	Edit Delete
Emergency Text	12/2/2013 5:01:48 PM	12/18/2013 5:01:48 PM	12/2/2013 5:01:19 PM	Edit Delete

List of Emergency notes and an Edit/Delete column

**Note that all map functions are replicated.

MOBILE MAP

ECM² MOBILEmap SERVER

CURRENT INCIDENT INCIDENTS APPARATUS ADMIN CALENDAR/EMG NOTICES

EMG NOTES

CALENDAR EMERGENCY NOTICES

Emergency Notes Map

SYNC EMG NOTES MAP PROVIDER MODE EDIT MODE

Emergency Notes

NOTES	CREATED DATE	END DATE	LAST MODIFIED	Options
Emergency Test	1/9/2013 1:57:47 PM	1/16/2013 1:57:47 PM	1/9/2013 1:59:19 PM	Edit Delete
Emergency Test	1/4/2013 3:17:02 PM	1/11/2013 3:17:02 PM	1/4/2013 3:16:28 PM	Edit Delete
Emergency Test	1/4/2013 3:11:51 PM	1/11/2013 3:11:51 PM	1/4/2013 3:11:16 PM	Edit Delete
Emergency Test	12/20/2012 3:11:12 PM	12/27/2012 3:11:12 PM	12/20/2012 3:10:51 PM	Edit Delete
Emergency Test	12/7/2012 5:01:48 PM	12/14/2012 5:01:48 PM	12/7/2012 5:01:19 PM	Edit Delete

**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.

The screenshot shows the ECM2 MOBILE MAP interface. At the top, there are navigation tabs: CURRENT INCIDENT, INCIDENTS, APPARATUS, ADMIN, and CALENDAR/EMG NOTICES. The main section is titled 'EMG NOTES' and contains two buttons: CALENDAR and EMERGENCY NOTICES. Below these is a map titled 'Emergency Notes Map' with a 'SYNC EMG NOTES' button and a 'MODE EDIT MODE' dropdown. The map shows Niagara Falls with a blue circular area. An 'EMG Notice edit screen' dialog box is open, containing the following fields:

- Name: EMG Notice
- Notes: Emergency Text
- Created: 1/9/2013 1:57 PM
- TTL: 1/16/2013 1:57 PM
- Radius: 1,000

Below the map is a table of Emergency Notes:

NOTES	CREATED DATE	Options
Emergency Text	1/9/2013 1:57:47 PM	Edit Delete
Emergency Text	1/4/2013 3:17:02 PM	1/11/2013 3:17:02 PM 1/4/2013 3:16:28 PM Edit Delete
Emergency Text	1/4/2013 3:11:51 PM	1/11/2013 3:11:51 PM 1/4/2013 3:11:18 PM Edit Delete
Emergency Text	12/20/2012 3:11:12 PM	12/27/2012 3:11:12 PM 12/20/2012 3:10:51 PM Edit Delete
Emergency Text	12/7/2012 5:01:48 PM	12/14/2012 5:01:48 PM 12/7/2012 5:01:18 PM Edit Delete

**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