



# Mobile Data Terminal / Mobile for Public Safety Project Technology Overview January 2019

Emergency Services



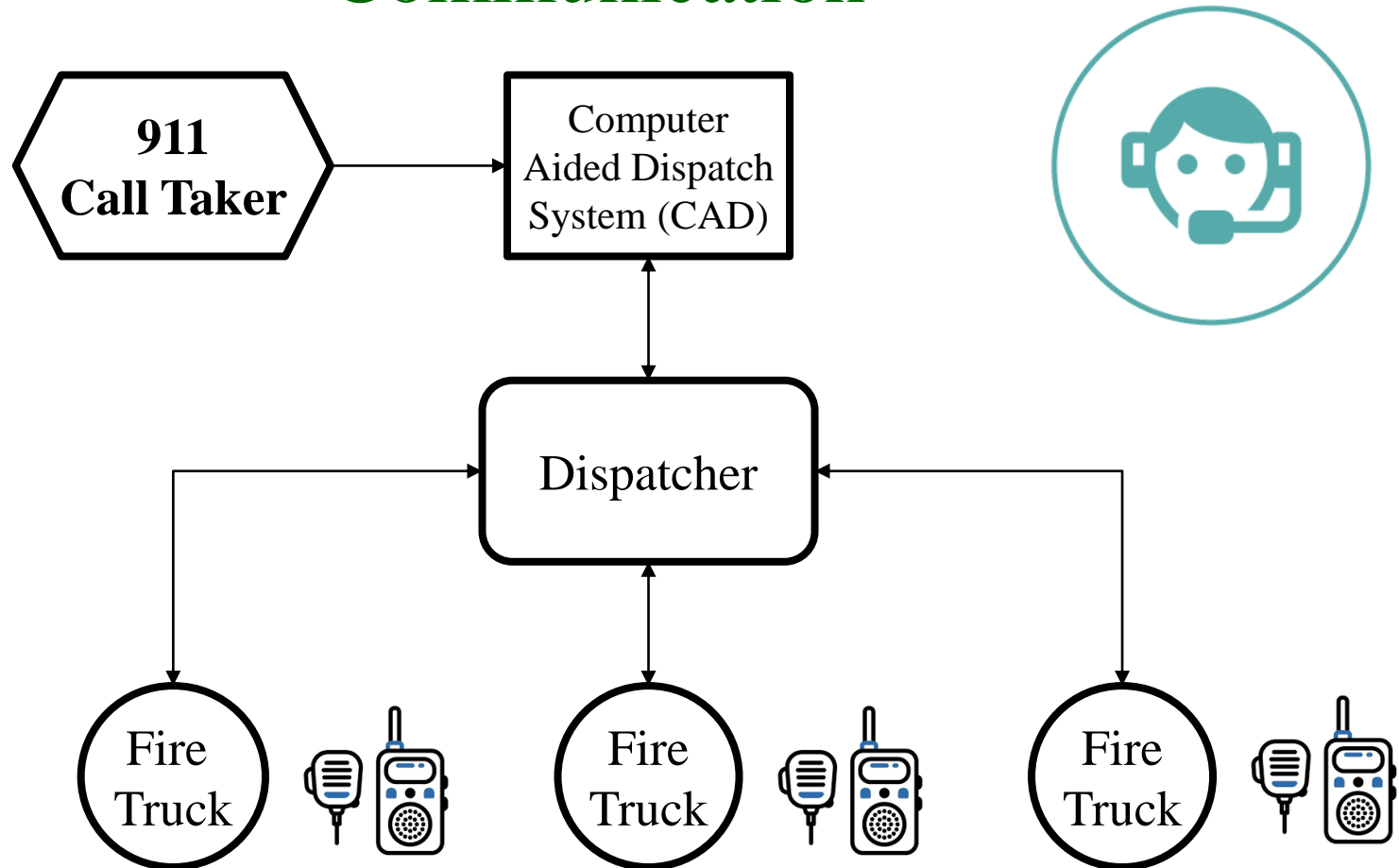
# Mobile for Public Safety Summary

- Real time access to the Computer Aided Dispatch (CAD)
- Thirteen (13) terminals installed in front line fire trucks
- Communicates via secured cellular technology
- GPS enabled for tracking
- Provides critical data to responders while on route
- Alternate communication methods with increased detail
- Leverages current mobile technology from Police Services
- Allows for rapid expansion across the entire department

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# Traditional Fire Dispatch Communication



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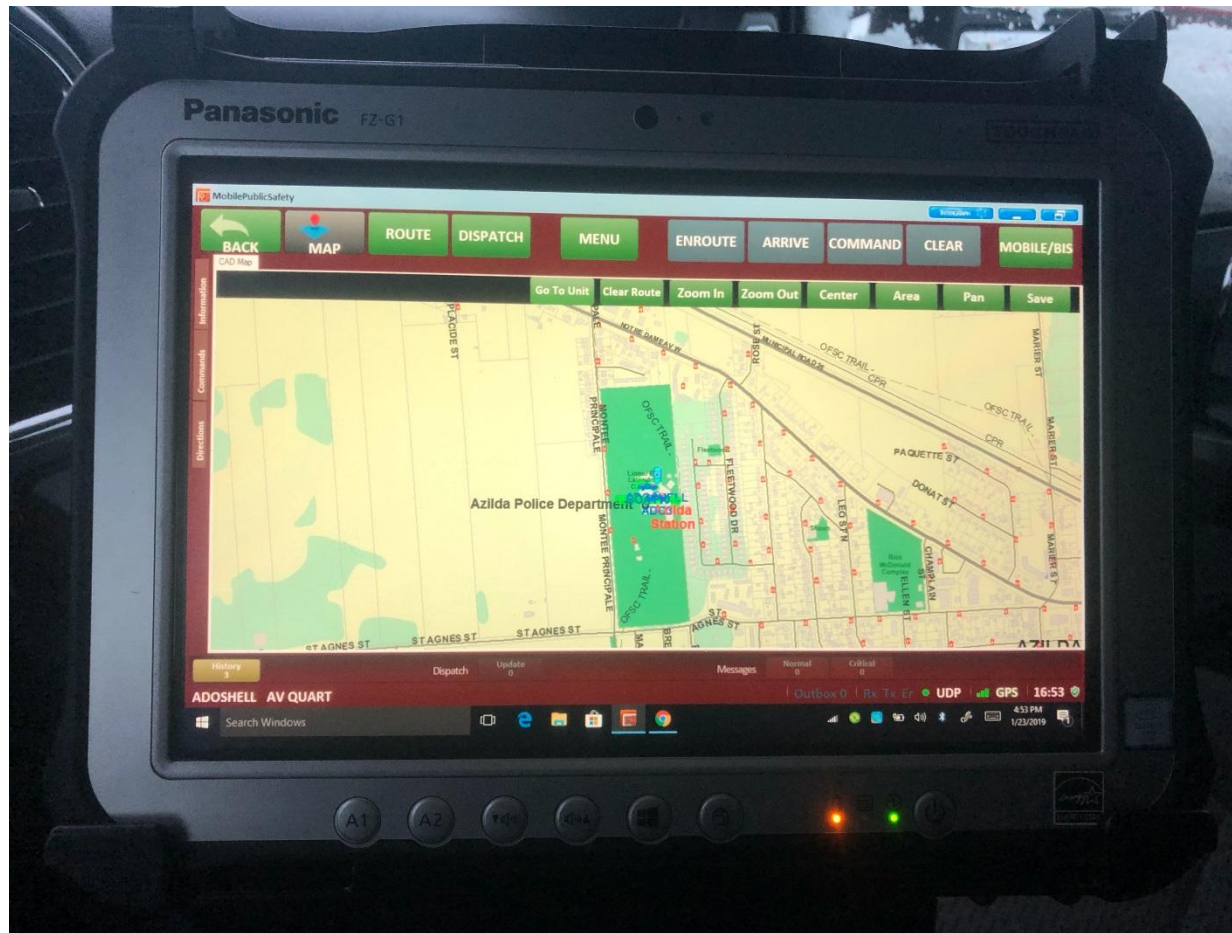
# DEMO

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# Mobile for Public Safety

## Mobile Data Terminal



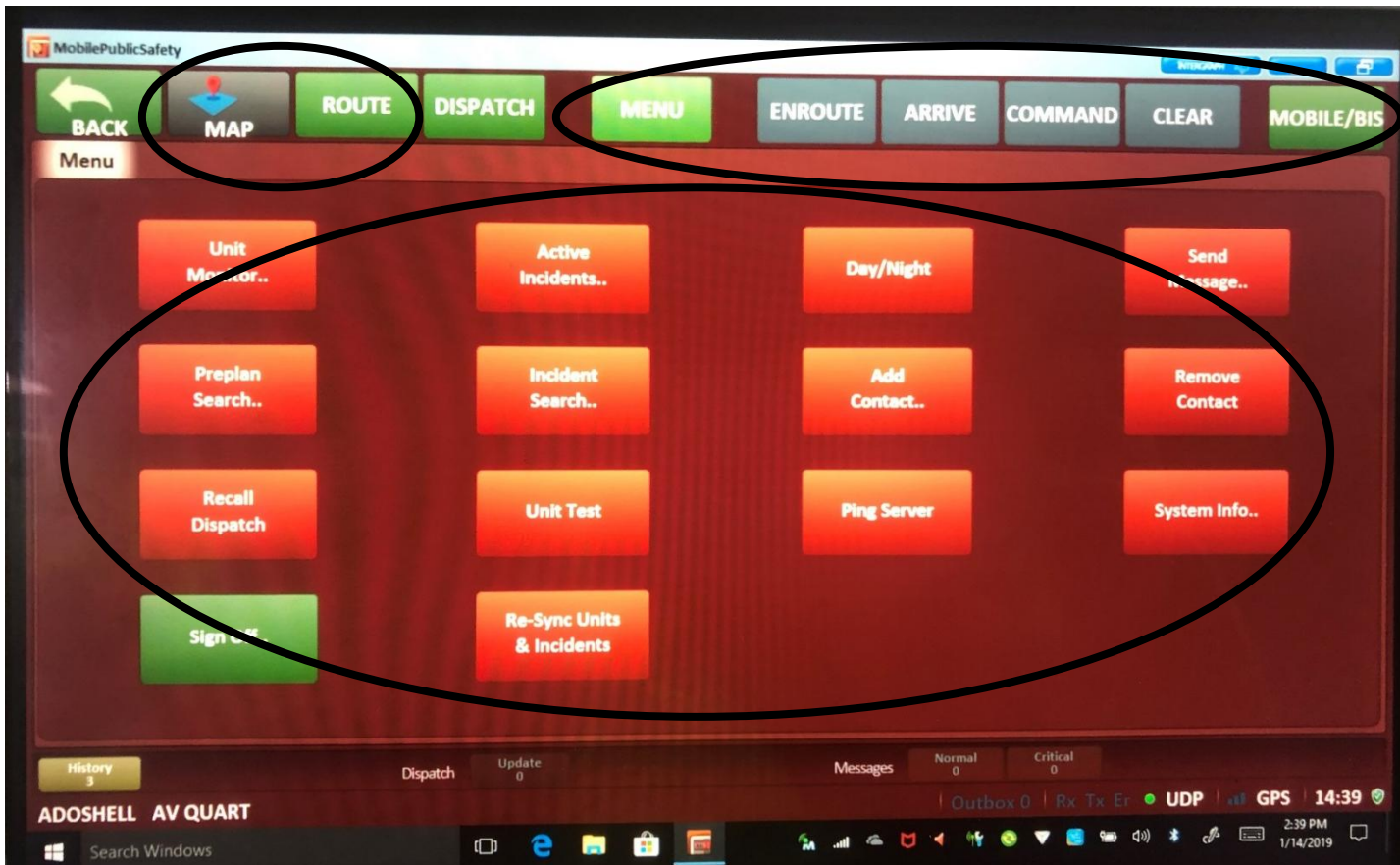
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# Mobile for Public Safety – MPS

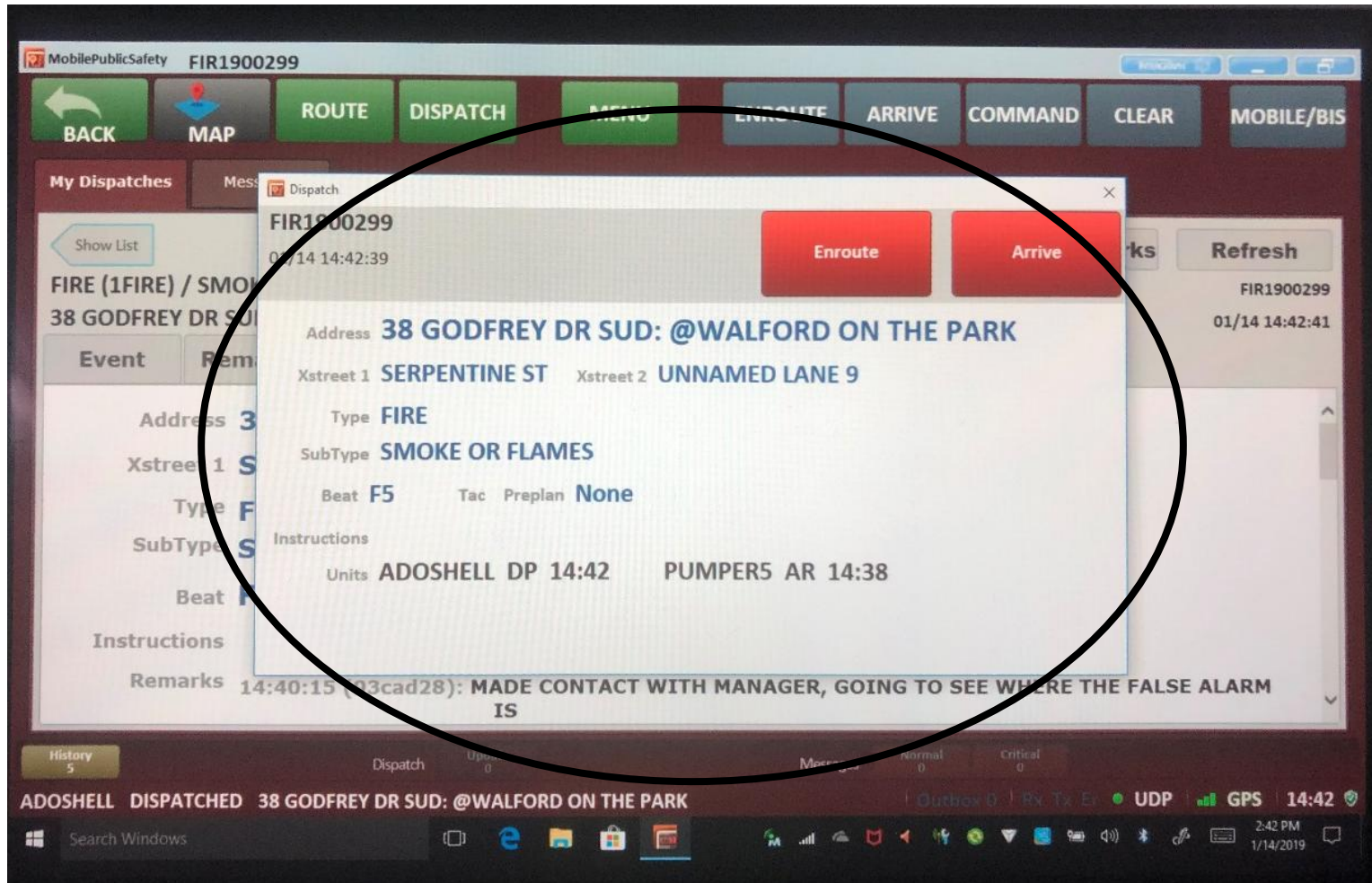
## Key Functions



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# Dispatched to an Incident



## Emergency Services





# Incident Details

MobilePublicSafety

BACK MAP ROUTE DISPATCH MENU ENROUTE ARRIVE COMMAND CLEAR MOBILE/BIS

My Dispatches Messages (1) Delete

Show List Previous Next Dispatch to Me

Event Search Results: FIR1900299 01/14 14:40:05

Event	Remarks	Units	Preplan	Ag Numbers	Attachments (0)	All
<p>Type <b>FIRE (1FIRE)</b></p> <p>SubType <b>SMOKE OR FLAMES (STRUCTURE-FLAMES)</b></p> <p>Address <b>38 GODFREY DR SUD: @WALFORD ON THE PARK</b></p> <p>Xstreet 1 <b>SERPENTINE ST</b></p> <p>Xstreet 2 <b>UNNAMED LANE 9</b> Tac</p> <p>Beat <b>F5</b></p> <p>Instructions</p> <p>Caller Name</p> <p>Caller Address</p>						

History 3 Dispatch Update 0 Messages Normal 1 Critical 0

ADOSHELL AV QUART Outbox 0 Mx Tx Er UDP GPS 14:40 1/14/2019

## Emergency Services





# Additional Details

MobilePublicSafety

BACK MAP ROUTE DISPATCH MENU ENROUTE ARRIVE COMMAND CLEAR MOBILE/BIS

My Dispatches Messages Delete

Show List Dispatch to Me 01/14 14:40:04

Event Search Results: FIR1900299

Event	Remarks	Unit	Preplan	Ag Numbers	Attachments (0)	All
14:32:30 (932ad28): SPECIAL ADDRESS COMMENT: *GSFS* VULNERABLE OCCUPANCY - FIRE ALARM/STRUCTURE FIRE - SUBTYPE STRUCTURE-FLAMES FIRE ALARM NO RESTORAL FIRECHECK						
Assigned PUMPER5 AR 38 GODFREY DR SUD: @WALFORD ON THE PARK 14:38 01/14						
Unit History <input checked="" type="checkbox"/> Group by Unit						

History 5 Dispatch Update 0 Messages Normal 0 Critical 0

ADOSHELL AV QUART Outbox 0 Rx Tx Er UDP GPS 14:40 1/14/2019

Search Windows

## Emergency Services



# Unit History

MobilePublicSafety

BACK MAP ROUTE DISPATCH MENU ENROUTE ARRIVE COMMAND CLEAR MOBILE/BIS

My Dispatches Messages Delete

Show List Dispatch to Me

Event Search Results: FIR1900299 01/14 14:40:04

Event Remarks Units Preplan Ag Numbers Attachments (0) All

Unit History ☒ Group by Unit

Unit Status	Action Time	Time in Status (min:sec)
ENGINE1 (Total time: 0:05:29)		
DP	14:33:42 01/14	0:38
ER	14:34:20 01/14	4:51
AQ	14:39:11 01/14	
LADDER1 (Total time: 0:03:13)		
DP	14:33:42 01/14	1:23
ER	14:35:05 01/14	1:50
AQ	14:36:55 01/14	
PC1 (Total time: 0:05:27)		
DP	14:33:42 01/14	0:35

History 5 Dispatch Update 0 Messages Normal 0 Critical 0

ADOSHELL AV QUART Outbox 0 Rx Tx Er UDP GPS 14:41

Search Windows

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# Dispatch Comments

The screenshot displays the MobilePublicSafety application interface. At the top, there is a navigation bar with buttons: BACK, MAP, ROUTE, DISPATCH, MENU, ENROUTE, ARRIVE, COMMAND, CLEAR, and MOBILE/BIS. Below this, there are tabs for My Dispatches and Messages. The Messages tab is selected, and a large white arrow points to it. The main content area shows 'Event Search Results: FIR1900299' with a timestamp of '01/14 14:40:04'. Below the search results, there is a table with columns: Event, Remarks, Units, Preplan, Ag Numbers, Attachments (0), and All. The Remarks column is highlighted, and a large white arrow points to it. The Remarks column contains a list of dispatch comments:

- 14:39:06 (93cad28): ENGINE 1 STANDING DOWN, GOING FOR FUEL
- 14:38:47 (93cad28): 2019/01/14 14:38:47 COMM. MOBILE for set INCIDENT.
- 14:38:40 (93cad28): PUMPER 5 WILL CONFIRM FALSE
- 14:38:23 (93cad28): PUMPER 5 = 1 CPT, 1 FF
- 14:36:05 (93cad28): ALL UNITS CAN RETURN, ENGINE 1 CONFIRMING
- 14:35:46 (93cad28): LADDER 1 BIS
- 14:35:09 (93cad23): HOWEVER THEY ARE NOT RECEIVING A RESET
- 14:34:53 (93cad23): ALARM SERVICE ADVISING ITS A FALSE ALARM
- 14:32:30 (93cad28): SPECIAL ADDRESS COMMENT:  
\*GSFS\* VULNERABLE OCCUPANCY - FIRE ALARM/STRUCTURE FIRE - SUBTYPE STRUCTURE-  
FLAME

At the bottom of the screen, there is a status bar showing 'ADOSHELL AV QUART', 'History 5', 'Dispatch', 'Update 0', 'Messages', 'Normal 0', 'Critical 0', 'Outbox 0', 'Rx Tx Et', 'UDP', 'GPS', '14:41', and '2:41 PM 1/14/2019'.

## Emergency Services





# Mapping and Routing

The screenshot displays a MobilePublicSafety dispatch interface. At the top, a navigation bar includes buttons for BACK, MAP, ROUTE, DISPATCH, MENU, ENROUTE, ARRIVE, COMMAND, CLEAR, and MOBILE/BIS. The MAP button is circled in red. Below the navigation bar, a sidebar on the left contains sections for Information (Show Dash, Mute), Commands, and Directions. The main map area shows a street map of Greater Sudbury with a red route line and a black arrow pointing to a specific location. The map includes labels for 'FIR1900299', 'F5', 'F12', 'F13', 'F2', 'F17', '30', '40', '60', '14', and '17'. A status bar at the bottom shows 'ADOSHELL ENROUTE 38 GODFREY DR SUD: @WALFORD ON THE PARK', 'Outbox 0', 'Rx Tx Er', 'UDP', 'GPS', '14:43', and '1/14/2019'.

MobilePublicSafety FIR1900299

BACK MAP ROUTE DISPATCH MENU ENROUTE ARRIVE COMMAND CLEAR MOBILE/BIS

Go To Unit Clear Route Zoom In Zoom Out Center Area Pan Save

Information Show Dash Mute

Total: 11.1 km / 13.15 min

Commands

Directions

1) Proceed WSW on KINGSWAY for 2.6 kilometers then straight ahead on to LLOYD ST.

2) Proceed West on LLOYD ST for 130 meters then straight ahead on to BRADY ST.

3) Proceed West on BRADY ST for 1.7 kilometers then straight ahead on to DOUGLAS ST W.

4) Proceed West on DOUGLAS ST W for 0.3 kilometers then bear left on to LORNE ST.

5) Proceed SSW on LORNE ST for 3.2 kilometers then straight ahead on to MUNICIPAL ROAD 55.

6) Proceed NW on MUNICIPAL ROAD 55 for 1.7 kilometers then straight ahead on to BALSAM ST.

7) Proceed West on BALSAM ST for 0.3 kilometers then

ADOSHELL ENROUTE 38 GODFREY DR SUD: @WALFORD ON THE PARK

Outbox 0 Rx Tx Er UDP GPS 14:43 1/14/2019

## Emergency Services





# Active Incidents - Locations

The screenshot displays the MobilePublicSafety application interface. At the top, there is a navigation bar with buttons: BACK, MAP, ROUTE, DISPATCH, MENU, ENROUTE, ARRIVE, COMMAND, CLEAR, and MOBILE/BIS. Below this is a CAD Map section with a map showing a residential area. A black circle highlights a specific location on the map, labeled "FIR1900299". The map also shows streets like "TENNIS CLUB LN", "GODFREY DR", "COPPER CLIFF", "SCHOOL ST", "SERPENTINE ST", "BENJAMIN ST", and "BIG NICKY".

Below the map is a table titled "Incidents (1)". The table has columns: Event ID, Units, Status, Time, Ev Type, and Location. The first row is highlighted with a black circle and contains the following data:

Event ID	Units	Status	Time	Ev Type	Location
FIR1900299	PUMPER5	A	0:07	1FIRE / STRUCTURE-FLAMES	38 GODFREY DR SUD: @WALFORD ON THE PARK

At the bottom of the screen, there is a status bar with various icons and text: "ADOSHALL AV QUART", "Dispatch", "Update 0", "Messages", "Normal 0", "Critical 0", "Outbox 0", "Rx Tx Er", "UDP", "GPS", "14:39", and "2:39 PM 1/14/2019".

## Emergency Services



# Unit Locations

MobilePublicSafety

BACK MAP ROUTE DISPATCH MENU ENROUTE ARRIVE COMMAND CLEAR MOBILE/BIS

CAD Map

Go To Unit Clear Route Zoom In Zoom Out Center Area Pan Save

Information Commands Directions

F5

COPPER CLIFF

FIR1900299

Hide Map ^

ACTIVE INCIDENTS.. ACTION.. Units (67) Last update: 14:40:50 FILTER..

Unit	Event ID	DGroup	Status	Time	Ev Type	Location
PUMPER5	<u>FIR1900299</u>	FIREC	AR	0:03	1FIRE / STRUCTURE-FLAMES	<u>38 GODFREY DR SUD: @WALFORD ON THE PARK</u>
LADDER1		FIREC	AQ	0:04	1FIRE / STRUCTURE-FLAMES	
SUPPORT12		FIRER	OS	3:09		<u>MOBILE TO LEL</u>
ENGINE2		FIREC	AQ	4:23		<u>MOBILE</u>

History 5 Dispatch Update 0 Messages Normal 0 Critical 0

ADOSHELL AV QUART

Outbox 0 UDP GPS 14:41 1/14/2019

## Emergency Services





# Pre Incident Planning NFPA 1620

ADDRESS <u>12 Elgin</u>	
AKA <u>Christ the King Center</u>	
PRIMARY ENTRANCE (SIDE) <u>A</u>	SECONDARY ENTRANCE (SIDE) <u>D</u>
TYPE OF OCCUPANCY <u>Residential</u>	

**FIREGROUND (Exposures: If a building, give height, construction, and type of occupancy – A = attached/ S = separate + distance)**

Side – A (street) \_\_\_\_\_  
Side – B (street) \_\_\_\_\_  
Side – C (street) \_\_\_\_\_  
Side – D (street) \_\_\_\_\_

NUMBER OF STORIES 10 CONSTRUCTION TYPE Type I

LENGTH (FEET) 192 WIDTH (FEET) 60 GPM \_\_\_\_\_

## **WATER SUPPLY (URBAN/ SUBURBAN AREA)**

FIRE HYDRANT LOCATIONS	PRIMARY	<u>Delta side (Beach St)</u>
	SECONDARY	<u>A side across the street</u>
	PRIVATE	_____

RURAL AREA	MAIN DRAFTING WATER SUPPLY	_____
	LOCATION	_____
		_____

WATER SHUTTLE TRAVEL TIME (main water supply to portable water tanks round trip) \_\_\_\_\_

PRIVATE AREA COVERAGE

WATER TANK CAPACITY \_\_\_\_\_

HYDRANT LOCATIONS	PRIMARY	<u>Delta side (Beach St)</u>
	SECONDARY	<u>A side across the street</u>

## **Emergency Services**



# In Summary

MPS / MDT units allow for...

- Quick & immediate response information
- Real time mapping / drive to directions
- Location of additional responders
- Available Pre-Incident Plans
- Communication in addition to the radio

Future growth and development...

- Digital tools for accountability
- On scene record keeping / note taking
- Hazardous materials information
- Real time risk assessments
- Sharing of information with other digital tools (Mobile Responder)



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