



Boston UASI :CAD Data Sharing

Past, Present and future

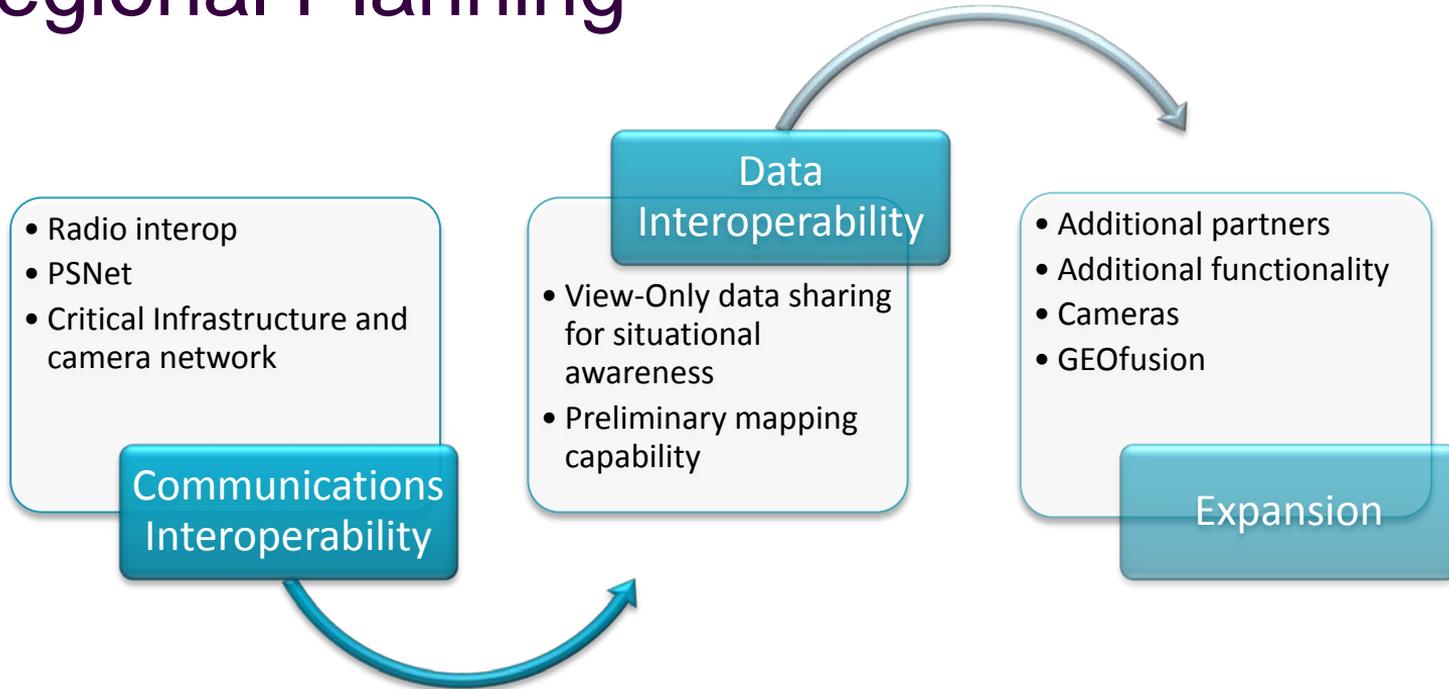
Officer Scott Wilder

Director Of Technology

Brookline Police Department

August 3, 2014

Regional Planning





Data Interop Vendor Selection Criteria

Architecture

- System had to be scalable and expandable
- Capable of linking disparate CAD systems
- Highly configurable with business logic and sharing rules; code table translation
- Intelligent hub, not message switch or point to point

Vendor Experience

- Successful implementation of similar systems
- Capable of phased approach
- Experience with GEO/mapping fusion, AVL, Mobile, integration with other data sources



Customize What View You Want on Your Dashboard



Home (F2)



Messaging (F3)



Dispatch (F7)



Mapping (F11)

All Calls

- My Calls
- New Calls
- Brookline
- Split Map
- Goto Map
- Refresh

T	Call	Location	Dispatch	Received	Unit	Status
	ENT	350 WASHINGTON ST	BOSTON	0000-00-00 00:00:00		PENDING
	ENCY	850 BOYLSTON ST	BROOKLINE	2014-07-29 16:30:39		ARRIVED
	ENCY	1470 BEACON ST	BROOKLINE	2014-07-29 16:34:45		ARRIVED
	ENCY	191 CLYDE ST	BROOKLINE	2014-07-29 16:38:31		ARRIVED
		191 CLYDE ST	BROOKLINE	2014-07-29 16:57:44		ARRIVED
		HARVARD ST & BEACON ST	BROOKLINE	2014-07-29 16:49:19		ARRIVED
		POND AV & CHESTNUT ST	BROOKLINE	2014-07-29 16:52:36		ARRIVED
		191 CLYDE ST	BROOKLINE	2014-07-29 16:57:44		ARRIVED
		HARVARD ST & LONGWOOD AV	BROOKLINE	2014-07-29 16:48:58		ARRIVED
		BEACON ST & PLEASANT ST	BROOKLINE	2014-07-29 16:58:07		ARRIVED
	ENT	350 WASHINGTON ST	BROOKLINE	2014-07-29 17:04:34		ARRIVED
	IT	1566 BEACON ST	BROOKLINE	2014-07-29 17:10:24		ARRIVED
		2 FERRY ST	CHELSEA	2014-06-28 10:50:00		
		19 PARK ST	CHELSEA	2014-06-28 09:38:00		
		19 PARK ST	CHELSEA	2014-06-28 10:01:00		
		8 TUDOR ST	CHELSEA	2014-06-28 10:20:00		
		245 CHESTNUT ST	CHELSEA	2014-06-28 08:33:00		
		17 WEBSTER ST	EVERETT	2014-07-29 16:43:33	142	ASSIGNED
		366 FERRY ST	EVERETT	2014-07-29 17:03:20	144	ASSIGNED
		563 BROADWAY ST	EVERETT	2014-07-29 17:12:59	141	ASSIGNED
		320 SEA ST	QUINCY	2014-07-29 16:45:05	S2,S10,S8	ENROUTE
		SULLIVAN RD & WEST ST	QUINCY	2014-07-29 16:56:42	S9,S3	ARRIVED
		MILL ST	REVERE	2014-07-29 03:01:00		PENDING
		0 HALL ST	REVERE	2014-07-29 03:08:00		PENDING

Select Display Columns

- Call
- P
- Nature
- Location
- City
- Zone
- Status

OK
 Cancel



CAD Call Listing View

Double click call to get Details



Home (F2)



Messaging (F3)



Dispatch (F7)



Mapping (F11)

	T	Call	Nature	Location	Dispatch	Received	Unit	Status
All Calls								
My Calls		PD140383892			BOSTON	0000-00-00 00:00:00		PENDING
New Calls		2014-4942	MEDICAL EMERGENCY	850 BOYLSTON ST	BROOKLINE	2014-07-29 16:34:45		ARRIVED
Brookline		84 YO MALE WITH ACTIVE CHEST PAINS						
Split Map								
Goto Map								
Refresh		2014-4943	MEDICAL EMERGENCY	1470 BEACON ST	BROOKLINE	2014-07-29 16:38:31		ARRIVED
		2014-4944	MEDICAL EMERGENCY	191 CLYDE ST	BROOKLINE	2014-07-29 16:57:44		ARRIVED
		2014-58776	TRAFFIC POST	HARVARD ST & BEACON ST	BROOKLINE	2014-07-29 16:49:19		ARRIVED
		2014-58778	SPECIAL ATTENTION	POND AV & CHESTNUT ST	BROOKLINE	2014-07-29 16:52:36		ARRIVED
		2014-58781	MEDICAL EMERGENCY	191 CLYDE ST	BROOKLINE	2014-07-29 16:57:44		ARRIVED
		2014-58775	TRAFFIC POST	HARVARD ST & LONGWOOD AV	BROOKLINE	2014-07-29 16:48:58		ARRIVED
		2014-58780	TRAFFIC POST	BEACON ST & PLEASANT ST	BROOKLINE	2014-07-29 16:58:07		ARRIVED
		2014-58782	STATION ASSIGNMENT	350 WASHINGTON ST	BROOKLINE	2014-07-29 17:04:34		ARRIVED
		2014-58784	STARS ASSIGNMENT	1566 BEACON ST	BROOKLINE	2014-07-29 17:10:24		ARRIVED
		2014-58785	COMMUNITY POLICING	22 HIGH ST	BROOKLINE	2014-07-29 17:16:55		ARRIVED
		2014-05100	NOTIFICATION	0 FEBRU ST	CHELSEA	2014-08-09 10:50:00		

Map View

The screenshot shows a GIS map application interface. At the top, there are navigation icons for Home (F2), Messaging (F3), Dispatch (F7), and Mapping (F11). The map displays the Boston area with various layers and a search window open over Brookline.

Search Window:

Brookline 2014-42638
 Call #: 2014-42638
 Call Type: Police
 Nature: GENERAL DEPT SERVICE
 Priority: 9
 Status: Arrived
 Received: 2014-05-30 17:25:26

Map Layers (Left Panel):

- County Labels
- Highways
- Massachusetts
 - Area Landmarks
 - Barnstable County
 - Berkshire County
 - Bristol County
 - Counties
 - Dukes County
 - Essex County
 - Fire Stations
 - Franklin County
 - Hampden County
 - Hampshire County
 - Hospitals
 - Middlesex County
 - Nantucket County
 - Norfolk County
 - Parcels
 - Plymouth County
 - Point Landmarks
 - Police Stations
 - Schools
 - Streets
 - Towns
 - Train
 - Water
 - Worcester County
- Pinmaps
- States
- World

Map Features:

- GPS: ON
- Resources, Markers and Pushpins, Geo-fence
- Chats, Recent CADfusion - Dispatch information completed

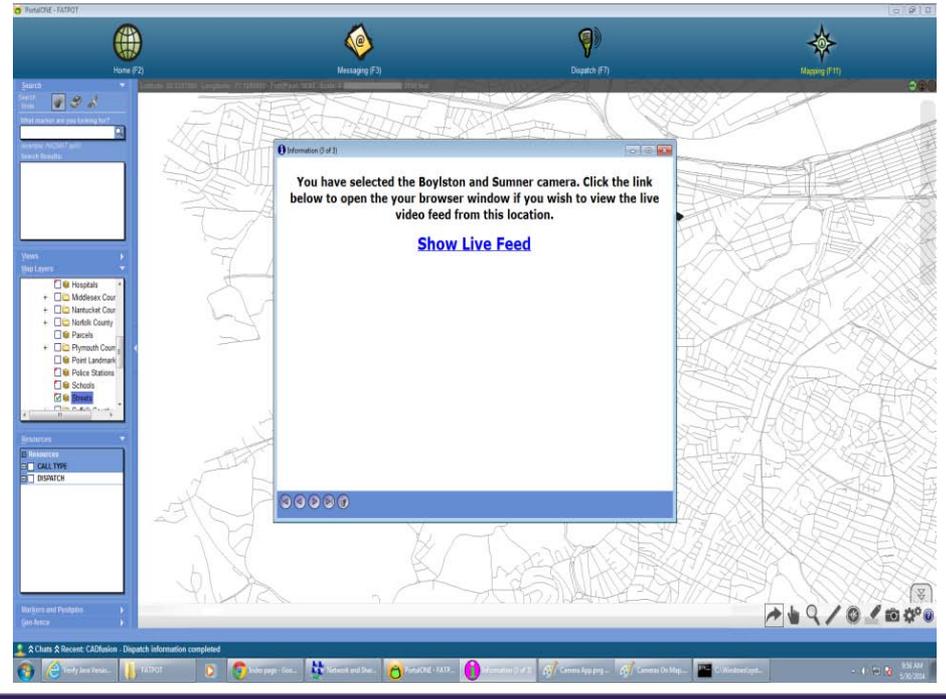
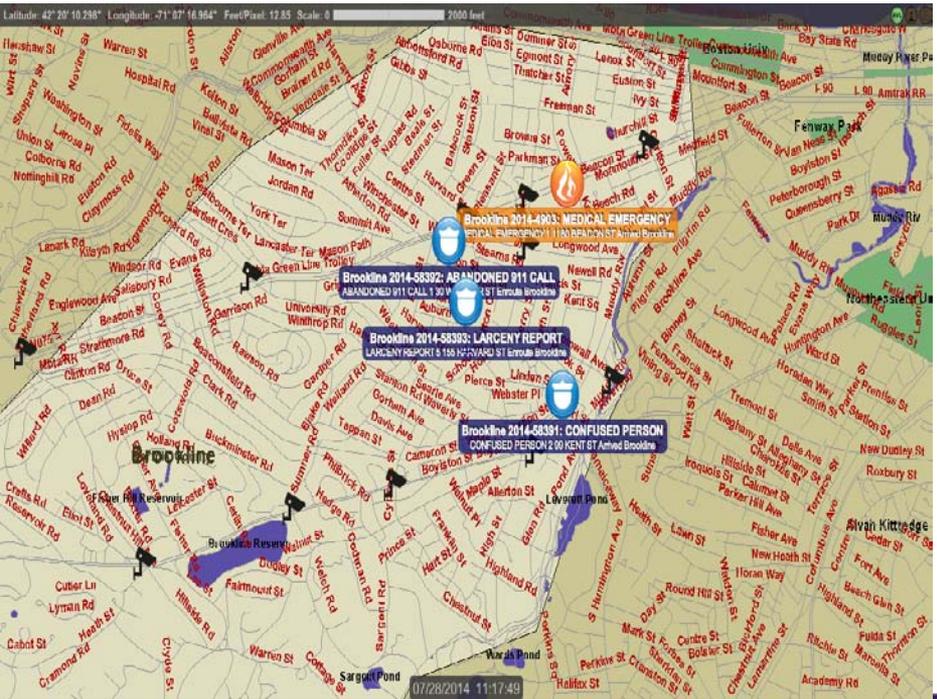


Region Wide View During Hurricane Sandy





Camera layer – Bring up Cameras directly from the Fatpot Dashboard, your cameras or another agency's camera(s) if permitted.





Split Map and Listing View

Messaging (F3)

Location	Location
CAL EMERGENCY	850 BOYLSTON ST
CAL EMERGENCY	1470 BEACON ST
CAL EMERGENCY	191 CLYDE ST
IC POST	HARVARD ST & BEACON S
AL ATTENTION	POND AV & CHESTNUT ST
CAL EMERGENCY	191 CLYDE ST
IC POST	HARVARD ST & LONGWO
IC POST	BEACON ST & PLEASANT
ON ASSIGNMENT	350 WASHINGTON ST
S ASSIGNMENT	1566 BEACON ST
UNITY POLICING	22 HIGH ST
ICATION	2 FERRY ST
NESS BREAK	19 PARK ST
M BURGLAR	8 TUDOR ST
T PATROL	245 CHESTNUT ST
RTS/ARREST	19 PARK ST
ED PATROL	145 BROADWAY
E HARRASSMENT ORDER (25...	168 WINTHROP AVE
ING CHECK	MILL ST
ED PATROL	0 HALL ST
ING CHECK	130 BROADWAY
ED PATROL	800 REVERE BEACH PKW
ED PATROL	215 BEACH ST

Dispatch (F7)

Latitude: 42° 20' 1.790" Longitude: -71° 07' 25.444" Feet/Pixel: 12.85 Scale: 0

Brookline : Brookline 2014-4943: MEDICAL EMERGENCY
STARS ASSIG MEDICAL EMERGENCY J 1470 BEACON ST Arrived Brookline

Brookline 2014-58782: ST
STATION ASSIGNMENT 8 350 WAS

Brookline 20
COMMUNITY

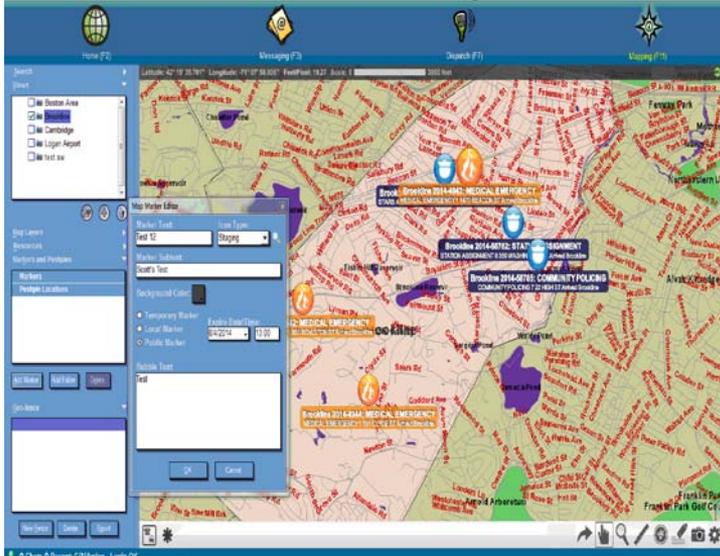
1470 BEACON ST
MEDICAL EMERGENCY Arrived
Dispatch: Brookline
Call Number: 2014-4943
Call ID: 2014-4943
Opened: 17:12 7/28/2014

FEMALE SEVERE ABDOMINAL PAIN

View Calls and view Mapping, easy to toggle between Split Map, Full Map or just Call Listing Screen

Add markers & notifications, or Geo-Fence an area.

Markers and Pushpins



Notifications of road closures or mark staging areas

Geo Fence



Have a text or email notification sent if you have an area or building(s) identified when a call comes in for that Geo-Fenced location



3 killed, 170 injured

MONDAY APRIL 15 2:50 PM



ENGAGE SUCCEED

APCO 2014
80th Annual Conference & Expo





DISCOVER ENGAGE SUCCEED

APCO 2014
80th Annual Conference & Expo







Use of Technology: During the Boston Marathon

- Situational awareness – 9 UASI cities with view of all regional incidents – command post alerted to calls 5 minutes before radio traffic
 - Brookline PD & FD, Boston PD FD EMS calls on large screen in Comm center
 - Boston EMS calls viewable by all during Bombing incident
 - GEOfusion in progress
- Mapping tools - GEO fence
- Cameras
- Regional Radio System (BAPERIN)



Future Plans

- GEOfusion Upgrades; GEOfencing, with text notifications
- Breadcrumbs; personal “AVL” (APL?)
- Next Gen platform
- Integrating Brookline cameras with hyperlink to cameras
- Supervisor’s vehicles will have capability to view region’s CAD calls
- Grid Search
- SmartPhone and Mobile apps
- Explore: Bi-Directional between all UASI cities Fire departments



Future Plans (Cont.)

- AVL
- Add universities (BU, MIT) and transportation (MBTA Police)
- Add hospitals for view-only (EMS Calls)
- BRIC – CAD data conversion – Now Operational
- MA State Police – statewide data sharing & analysis – all these separate CAD systems now in one common (SQL) format.
- Additional cities and towns for Police, Fire and EMS



Remember :
Interoperability is more
than radio communication.

Conclusions

- Hope for the best but plan for the worst – it can happen to you
- Start procurements early and pick the right vendor partner
- Foundation is situational awareness, then true bi-directional interoperability; don't forget GIS
- Don't expect a single-threaded incident (remember Murphy)



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Questions?



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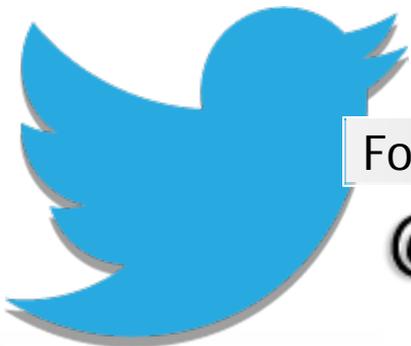
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