



Situational Awareness Viewer for Emergency Responders

May 25th, 2021

Law & Public Safety Committee

Importance of

Caller Location



Location accuracy rules improve emergency response times, which, in turn, improve patient outcomes and save lives.

Location accuracy improvements had the potential to save approximately 10,120 lives annually.

(FCC 2015)

GPS/Mapping Project Progression



May 2018 GPS data wasn't easily accessible or viewable to Officers in the field



Meeting with CAD Vendor July 2018 to evaluate in car mapping



June 2018 GPS data was set to be displayed in CAD incident comments



Aug 2018 Application to assist in transferring GPS raw data was developed



Late 2018/ Early 2019 Ongoing meetings with CMO office, ETS, ECC, and vendors for a complete solution



July 2019 Began Collaboration with developer (CFD/Raven) for in house solution

GPS
Location



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Time

Integration Complexity

\$\$\$\$



COMMANDCENTRAL AWARE

GPS
Location



Project Goals

Incident Situational awareness tool available in the field (MDCs) and supporting units (Real Time Crime Center)

Web-based with no negative impact on other applications

Ability to access overview incident information

Display of multiple data points on one map



“If you gave the Officers in the field an pin point on a map,
they would be well served many times more than not...”

- Stephen Meer
Co-founder Intrado & Pioneer of 911
Technology

We have developed a simple, accessible, and easy to use mapping application so that officers can see where they are in relation to the incident and 911 caller...



SAVER

Available on CLEAR (MDC), CPD, and CFD networks using Chrome

Base user map displays:

- Active and Pending CAD Incident locations (Dispatch entered address)

- Individual Officer/ Unit Location (MDC/Vehicle)

- Caller location (Provided from Phase 2 and Rapid SOS)

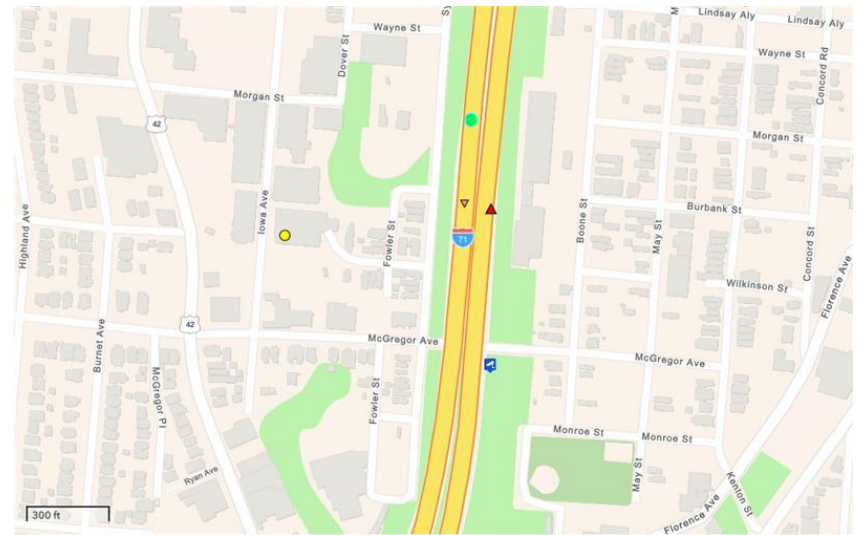
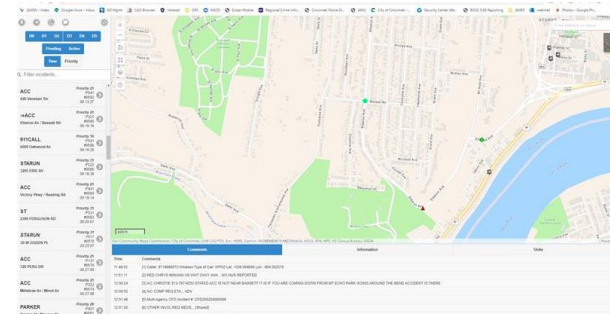
- Public Safety, Private, and ODOT Camera Locations

- Shotspotter data (past 24hrs)

Additional key information such as units assigned, general incident data, and ongoing comment information

Incident filtering and searching

Layering



Esri Community Maps Contributors, City of Cincinnati, BuildingFootprintUSA, Esri, HERE, Garmin, SafeGraph, INCREMENT P, METI/NASA, USGS, EPA, NPS, US Census Bureau, USDA

Comments		Information
Time	Comments	
13:49:31	[3] Caller: 7312494353 Wireless Type of Call: WPH2 Lat: +039.123939 Lon: -084.497491	
13:50:01	[5] Caller: 7312494353 Wireless Type of Call: WPH2 Lat: +039.123939 Lon: -084.497491	
13:51:05	[7] MAROON SEMI TRK VS GREY SED/INOPERABLE --NO INJS--IN RIGHT SHOULDER	



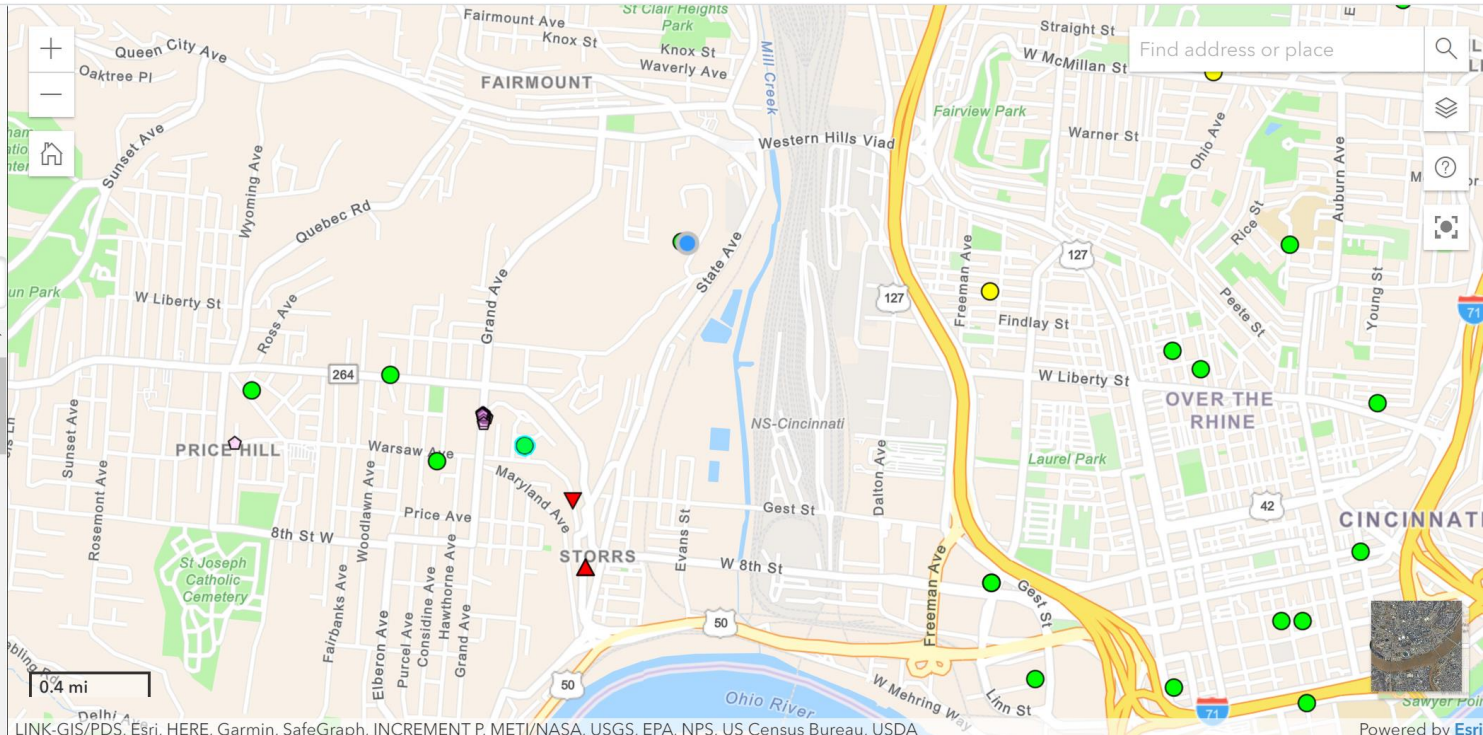
CBS D1 D2 D3 D4 D5 UC

Pending Active

Time Priority

Filter incidents...

- RBURG**
 4334 WATTERSON ST
 Priority 11
 P231
 CPD #0326
 00:01:08
- ST**
 801 LINN ST
 Priority 31
 P131
 CPD #0328
 00:02:10
- ST**
 2300 FERGUSON RD
 Priority 31
 P331
 CPD #0327
 00:03:15
- U-Unlock Door**
 318 College Dr
 Priority 22
 UCPD #0032
 00:03:18
- PARKER**
 1021 Kingston Pl
 Priority 29
 P321
 CPD #0325
 00:03:19
- 911EMER**
 229 Calhoun St
 Priority 2
 P511
 CPD #0322
 00:06:43
- ROBB**
 3411 McHenry Av
 Priority 1
 P331
 CPD #0319



Time	Comments	Information	Units
08:40:53	[3] Caller: 5132039155 Wireless Type of Call: WPH2 Lat: +039.104595 Lon: -084.554289		
08:41:23	[5] Caller: 5132039155 Wireless Type of Call: WPH2 Lat: +039.104595 Lon: -084.554289		
08:42:26	[7] RPT OF ABAND VEH AT LOC FOR THE PAST 3 MONTHS., <> VEH IS A BLK TOYO CAMERY.		
08:42:33	[8] WILL C/B WITH PLATE INFO		

→ACC
100 E PETE ROSE WY

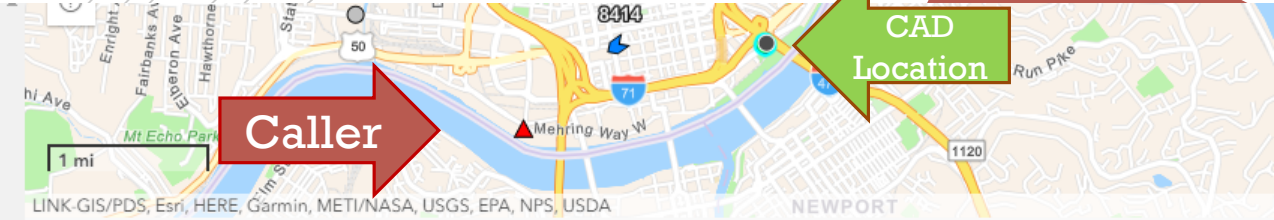
Priority 21
P011
#1001
00:26:20

ACC
Whv D1 - Upper At Central Pkwy

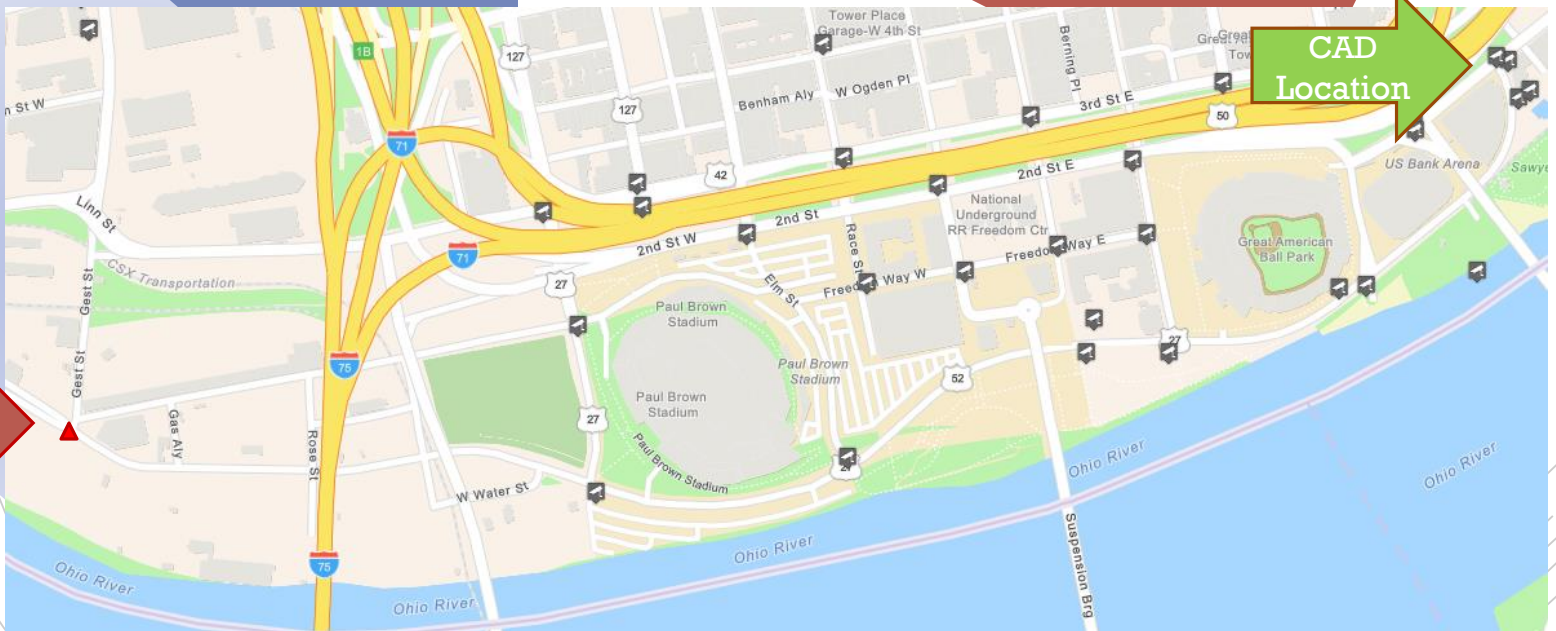
Priority 21
P131
#0914
01:18:14

ACC
V Liberty St / Vine St

Priority 21
P121
#0888
01:27:34



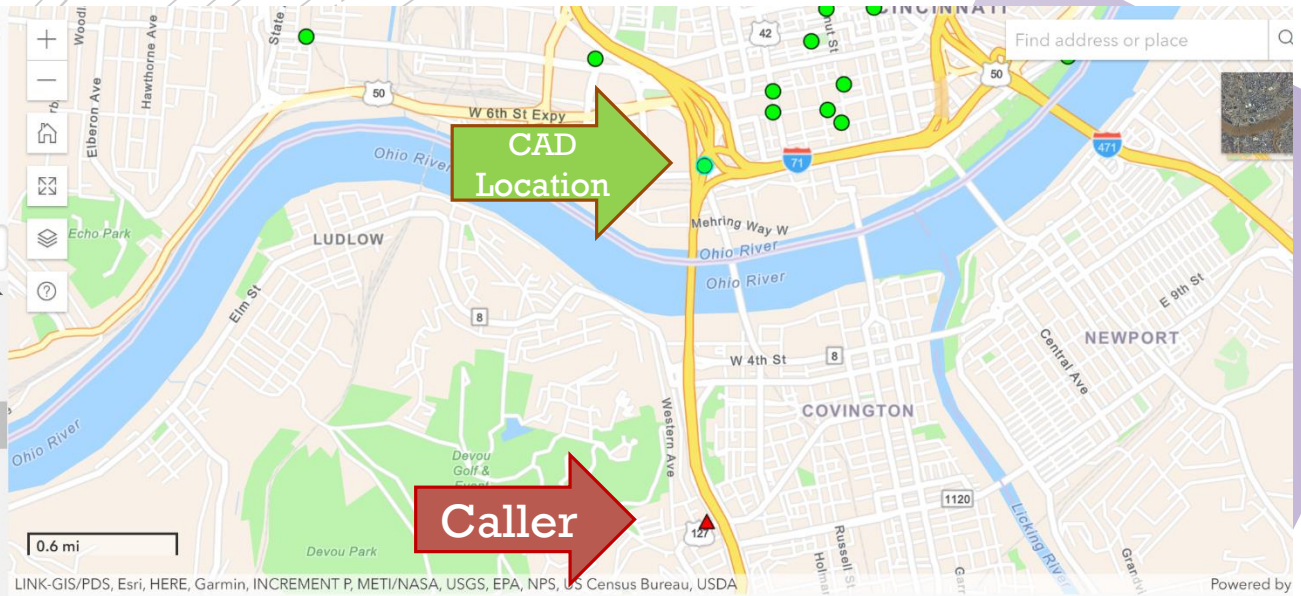
Comments		Information
Time	Comments	
15:46:03	[1] Caller: 5136285490 Wireless Type of Call: WPH2 Lat: +039.094634 Lon: -084.526706	
15:47:20	[2] 2 VEHS, BLK & BLK , NO INJ	
15:55:58	[3] 6212 NOTHING FOUND SO FAR	
16:00:25	[4] COMP GAVE BETTER LOC AS 800 E PETE ROSE ,, IN FRNT OF PKS CONVEYORS	
16:04:52	[5] CB COMPL ---- IS COMPL AT 800 W PETE ROSE IN DISTRICT 1 BEAT 3??? BY GEST ST? OR OVER BY PURPLE PEOPLE BRIDGE?	
16:05:02	[6] Incident linked to [CPD] [CPD200106001028]	
16:05:10	[7] [CPD] has closed their incident [CPD200106001028]	



D0 D1 D2 D3 D4 D5
Pending Active
Time Priority

Q Filter incidents...

INV 801 Linn St	Priority 29 P131 #1248 00:20:54
ACCIP-COMBINED Elm St / W 6th St	Priority 9 P011 #1247 00:22:06
TRESP 21 E 5th St	Priority 22 P011 #1246 00:23:40
⇒ACC N I75 AT 5TH	Priority 21 P131 #1243 00:26:15
U-Station Run 51 Corry Blvd	Priority 30 #0115 00:27:42
ACCIP-COMBINED 2444 Madison Rd	Priority 9 P222 #1237 00:29:34



LINK-GIS/PDS, Esri, HERE, Garmin, INCREMENT P, METI/NASA, USGS, EPA, NPS, US Census Bureau, USDA

Time	Comments
19:16:04	[1] Caller: 9372666855 Wireless Type of Call: WPH2 Lat: +039.077376 Lon: -084.521416
19:17:14	[2] VEH INTO MEDIAN AT LOC -- NO INJS -- RED FORD RANGER
19:27:37	[3] PO 35 NEEDS BETTER LOC--SAW SAMAGED GUARD RAIL
19:30:57	[4] NO ANSWER ON CB
19:31:24	[5] Backed up 1235 with 1231
19:32:13	[6] COMP ADVD HE IS N I75 NEAR 5TH STREET EXIT
19:33:17	[7] [Notification] [CPD]- COMP ADVD HE CAN SEE THE RADDISON FROM HIS POSITION WASNT SURE IF HE WAS IN KY
19:33:29	[8] KY WAS ALSO ADVD OF ACC

Powered by ESRI

Comments		Information		Units	
Unit	Personnel	Assigned	Enroute	Arrived	Complete
8221	Grein, Paul E	19:19:20			19:19:26
1235	Goebel, John R	19:21:18		19:26:01	
1234	Norman, Shayna B	19:21:18		19:32:00	
1231	Sanders, Thomas T	19:31:23	19:31:23		

Show all X



SHOT SPOTTER

Zoom...

Multiple Gunshots - CP3

Address: 2628 Ring Pl
Rounds detected: 10
Shooters detected:
Time: 7/2/2020, 05:41

0:00 / 0:04

300 ft

Community Maps Contributors, City of Cincinnati, LINK-GIS/PDS, BuildingFootprintUSA, Esri, HERE, Garmin, SafeGraph, INCRE... Powered by f

Comments

Information

Units



RAPID SOS

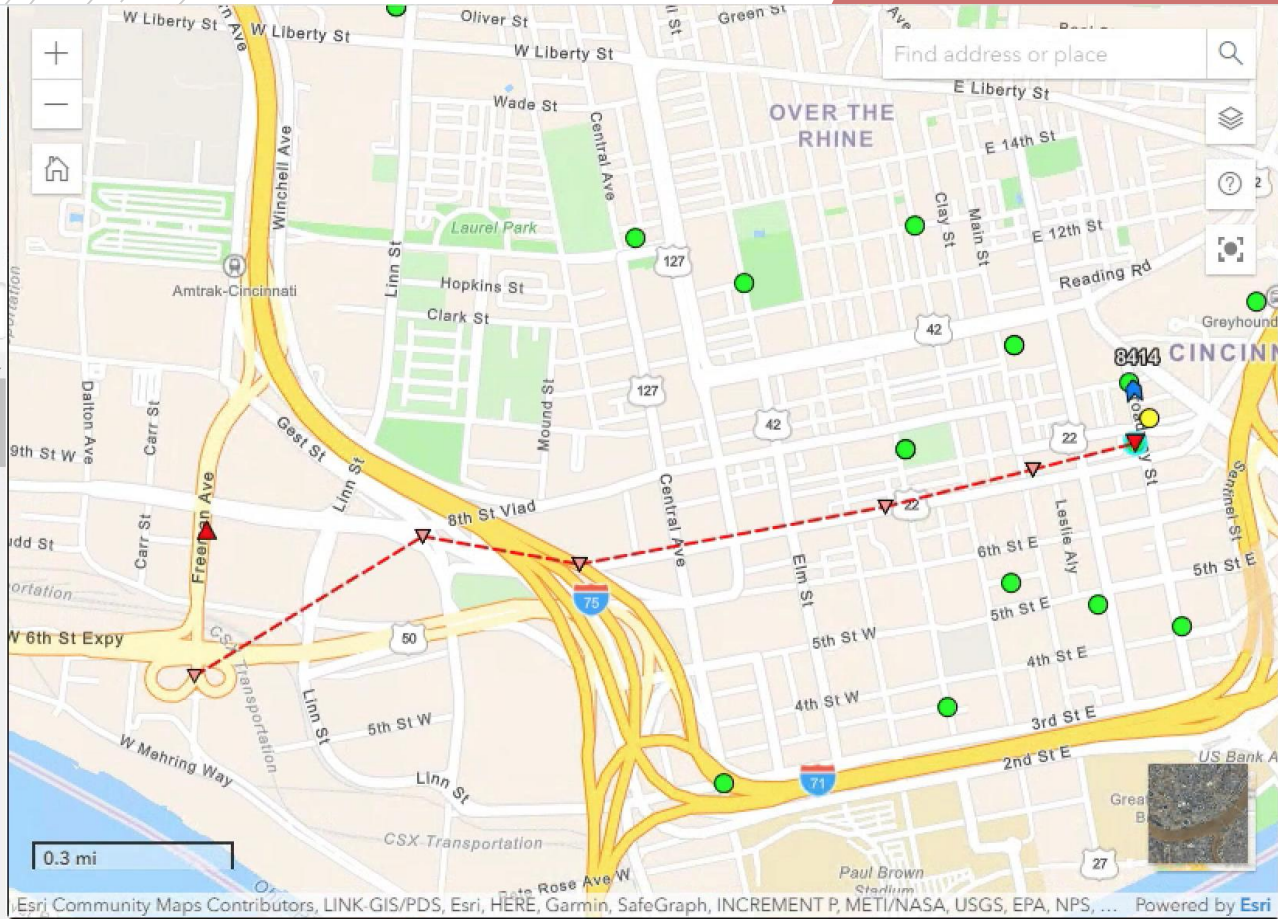
CBS D1 D2 D3 D4 D5 UC

Pending Active

Time Priority

Filter incidents...

- SDET** Priority 35
 38 Fountain Square Plaza CPD #0680
 00:00:26
- INFO** Priority 14
 Queen City Av / Westbrook Dr CPD #0679
 00:01:39
- 911CALL** Priority 10
 5600 - 5743 Kellogg Av CPD #0678
 00:01:54
- FIGHT** Priority 3
 330 Forest Av CPD #0677
 00:02:20
- 911CALL** Priority 10
 2337-2483 Queen City Av CPD #0675
 00:04:25
- U-Directed Patrol** Priority 24
 57 W Daniels St UCPD #0101
 00:05:07



Comments	Information	Units
Time	Comments	
13:01:20	[4] TEST RAPIDSOS	
13:01:28	[5] Caller: 5135208391 Wireless Type of Call: WPH2 Lat: +039.103201 Lon: -084.533003	

172.16.102.112/CADmap/

LEARN - Index Google Voice - Inbox AD Mgmt CAD Browser Intranet GPS MGS Eclear Mobile Regional Crime Info... Cincinnati Police Di... AMU City of Cincinnati... Security Center Wa... BOSS 3.06 Reporting AMEX webmail Photos - Google Ph...

D0 D1 D2 D3 D4 D5

Pending Active

Time Priority

Filter incidents...

ACC	Priority 21	F541	#0592	00:13:27
920 Venetian Ter				
ACC	Priority 21	F321	#0590	00:16:16
Elberon Av / Bassett Rd				
911CALL	Priority 10	F541	#0588	00:16:28
6000 Oakwood Av				
STARUN	Priority 31	F222	#0586	00:18:39
3295 ERIE AV				
ACC	Priority 21	F441	#0584	00:19:14
Victory Pkwy / Reading Rd				
ST	Priority 31	F331	#0583	00:20:01
2300 FERGUSON RD				
STARUN	Priority 31	F091	#0579	00:23:37
30 W OGDEN PL				
ACC	Priority 21	F131	#0578	00:27:00
720 PERU DR				
ACC	Priority 21	F222	#0574	00:27:09
Millsbrae Av / Minot Av				
PARKER	Priority 29	F421	#0581	00:27:41
Kenton St / Monroe St				

600 ft

Earl Community Maps Contributors, City of Cincinnati, LNK GIS/PDS, Earl HERE, Garmin, INCREMENTAL/METINASA, USGS, EPA, NPS, US Census Bureau, USDA

Time	Comments
11:49:03	-039-09-4006 Len -064 562519
11:51:11	(2) RED CHRYV MINIVAN VS WHT CHVY VAN... NO INJS REPORTED
12:00:24	(3) AX IT IS IF YOU ARE COMING DOWN FROM MT ECHO PARK GOING AROUND THE BEND ACCIDENT IS THERE
12:00:52	(4) AX
12:01:48	(5) Multi-Agency CFD Incident # CFDD000204000096
12:01:50	(6) OTHER INVOL REQ MEDS... [Share]
12:02:25	(7) OTHER INVOL SPEAKS SPANISH ONLY [Share]

Comments Information Units

12:05 2/4/2020



Success Story

The screenshot shows a web browser window with the URL `sa-ver-cpd/`. The page displays a list of incidents on the left and a map view on the right. The incident list includes:

- SHOOTP-COMBINED** (Priority 1, P331, CPD #0408, 00:02:28) at 2469 Westwood Northern Blvd.
- DIRPAT** (Priority 27, P121, CPD #0407, 00:03:04) at 28 E MCMICKEN AV.
- 911CALL** (Priority 10, P331, CPD #0406, 00:03:30) at 2358 Harrison Av.
- SPOTS** (Priority 1, P331, CPD #0405, 00:04:38) at 2443 WESTWOOD NORTHERN BLVD.
- U-Directed Patrol** (Priority 24, UCPD #0049, 00:06:32) at 117 Corry Blvd.
- PARKER** (Priority 29, P011, CPD #0402, 00:12:19) at 110 SHILLITO PL.
- WAR** (Priority 16, P511, CPD #0397) at 65W MCMICKEN AV ST.

The map view shows a residential area with streets like Westwood Northern Blvd, Gobel Ave, and Sunshine Ave. A blue circle highlights a specific location on the map, and a blue arrow points from this location to a detailed view of the incident at 2469 Westwood Northern Blvd. The detailed view shows a table of comments:

Time	Comments
10:13:23	[14] [Appended: 10-14-13] [1] Caller: 5139085946 Y
10:13:29	[27] [Appended: 10-15-22] [1] [1] Caller: 513258975
10:13:32	[3] [3] [Address: 2469 WESTWOOD NORTHERN B check their MDC for a note and acknowledge receipt
10:13:32	[2] [2] [Address: 2469 WESTWOOD NORTHERN B to check their MDC for a note and acknowledge receipt
10:13:41	[6] [6] [Address: 2469 WESTWOOD NORTHERN B check their MDC for a note and acknowledge receipt



Success Story

The screenshot displays a dispatch software interface. On the left, a list of stations is visible, including Station 23, Station 24, Station 19, Station 21, Station 18, Station 12, Station 21, Station 02, and Station 24. The main area shows a map of Queen City Ave with several blue dots indicating incident locations. A red dot is located on the right side of the map, near the intersection of Queen City Ave and Lisa Run Way. Below the map, a list of incident reports is displayed, with the following details:

Station	Time	Description
#137	00:07:30	
#130	00:08:14	
#135	00:12:59	
#134	00:13:43	
#133	00:15:10	
#132	00:29:47	
#131	00:21:35	
#129	00:50:23	
#093	04:00:22	
#060	00:44:52	
	15:44:10	[02] CT IS ASKING PT TO HAVE HIS FRIEND WAVE DOWN MEDIC
	15:46:14	[03] 125 YARDS AWAY FROM HIS HOUSE-FRIEND IS GOING TO WAVE DOWN MEDIC
	15:46:43	[04] "" MAY BE THE 2100 BLOCK OF QIC"".. MAYBE TRY THE REAR OF MURRAY'S PUB.. IN THAT WOODED AREA ""
	15:50:40	[05] "" WE FOUND HIM.. ABOUT 200 FT INTO THE WOODS NEAR HR14'S TRUCK "" "" NEAR 2100 BLOCK OF QUEEN CITY ""
	15:50:56	[06] CT DISCONNECTING
	15:51:18	[07] "" ALSO POLICE NEEDED TO BLOCK TRAFFIC IN BOTH DIRECTIONS ABOUT THE 2100 BLOCK OF QUEEN CITY ""
	15:52:40	[08] CH117 HR14 M17
	15:53:22	[09] Multi-Agency CPD Incident # CPD3092300020
	15:53:23	[10] PD NEEDED FOR TRAFFIC NEAR 2102 QUEEN CITY FOR MALE THAT FELL IN WOODS [SHANE]

Usage Statistics

Nov 26 2019 – May 29 2020 (Pilot)

May 30th 2020 – Present (SAVER)

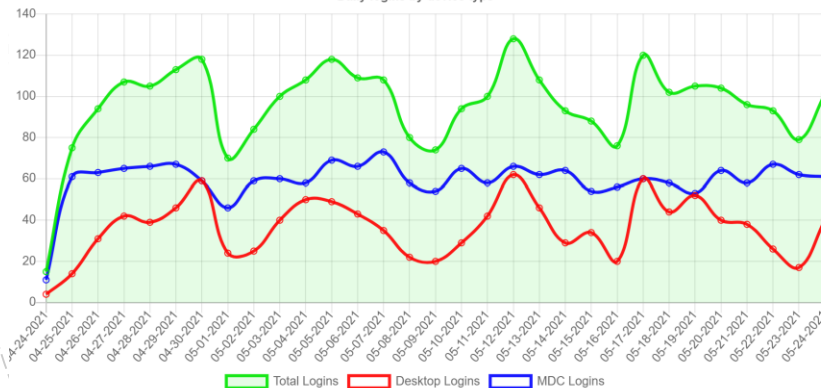
- Accessed by over 480 users in the Police Department
- Over 20,400 logins to the system across multiple units
- Approximately 126,000 incidents viewed
- 911CALL and ACC (accident) being the top two incident types viewed.

Unique incidents retrieved by type



911CALL ACC DISORD FAMTRB SPOTS HAZARD UNK SUSP
DOMVIO NOISE

Daily logins by device type



Total Logins Desktop Logins MDC Logins



Benefits



**UNDER 3K IN
DEVELOPMENT
COSTS**



**INCORPORATING NEW
FEATURES REGULARLY**



**IN THE FIELD
IN THE OFFICE
IN THE AIR**



**FAST AGILE
DEVELOPMENT**



**SAVER REPLICATES
INFORMATION
PRESENTED TO
ECC/DISPATCH**



**EASY TO USE AND
SEE INFORMATION
QUICKLY**



Teamwork



Bill Vedra

Charlie Young

Craig Beringhaus

Jim Olthaus

Brent Angevine

Kristen Cosgrove

Jayson Dunn

Jeff McCord

Peggy O'Neil

Eryn Ivink

Sgt Brent Adams

Mani Natarajan

Sarah Phipps

city of
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Enterprise
Technology Solutions

Thanks &
Questions

