

FY19 STRATEGIC ACTION PLAN

INTRODUCTION:

- ECC Mission Statement
- Priority Goals and Objectives
- 911 Industry Overview
- Core Technology Overview
- ECC Organizational Structure
- ECC Staffing / Hiring / Training Overview
- Supervision and Floor Oversight
- Improvement Action Plan / MCP Recommendations

ECC MISSION STATEMENT:



Our mission is to provide prompt, professional, and courteous handling of all emergency calls for service and clear, concise, and expedient dispatching of first responders in order to protect and save lives and insure the public safety of the citizens who live, work, and enjoy life in the City of Cincinnati.

ECC PRIORITY GOALS AND OBJECTIVES:

• PROFESSIONAL, ACCURATE, AND DILIGENT SERVICE TO CITIZENS.......



FIRST RESPONDER SAFETY AND SUPPORT......

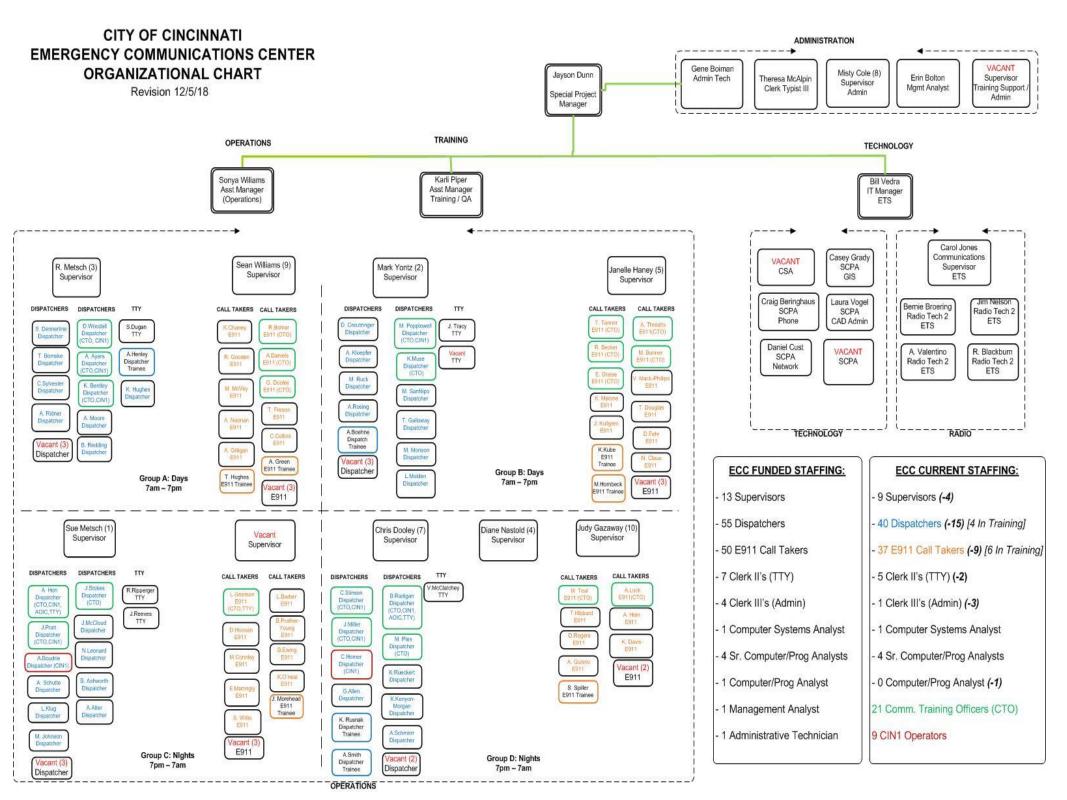


TEAMWORK, INTEGRITY, AND RELIABILITY IN THE WORKPLACE......



FAIR, HONEST, AND REASONABLE LEADERSHIP......





SUPERVISION AND FLOOR OVERSIGHT:

CINCINNATI EMERGENCY COMMUNICATIONS CENTER		"CAUGHT IN THE ACT" EMPLOYEE COMMENDATION CARD
ECC ORGANIZATIONAL PRIORITY GOALS		SUPERVISOR FEEDB ACK:
911	PROFESSIONAL, ACCURATE, AND DILIGENT SERVICE TO CITIZENS	
-	FIRSTRESPONDER SAFETY AND SUPPORT	
	TEAMWORK, INTEGRITY, AND RELIABILITY IN THE WORKPLACE	
	FAIR, HONEST, AND REASONABLE LEADERSHIP	
EMPLOYEE NAME:		
DATE: / _	/	(use back for additional space)

ECC CALL TAKING KPI'S:

- 90% in 10 seconds
- 95% in 20 seconds
- In-Que %
- Total # of calls answered
- # of minutes in After Call Work
- Call Processing Time

ECC DISPATCH KPI'S (NFPA Standard):

- Fire Response:
 - 80% in 60 seconds
 - 95% in 106 seconds
- EMD Processing:
 - 90% in 90 seconds
 - 99% in 120 seconds
- Time to Dispatch
- On Scene Arrival Time

CINCINNATI EMERGENCY COMMUNICATIONS CENTER		"ROOM FOR IMPROVEMENT EMPLOYEE REMINDER CARD
ECC ORGANIZATIONAL PRIORITY GOALS		SUPERVISOR FEEDB ACK:
911	PROFESSIONAL, ACCURATE, AND DILIGENT SERVICE TO CITIZENS	
1422	FIRSTRESPONDER SAFETY AND SUPPORT	
	TEAMWORK, INTEGRITY, AND RELIABILITY IN THE WORKPLACE	
	FAIR, HONEST, AND REASONABLE LEADERSHIP	
EMPLOYEE NAME:		
DATE:/_	/	(use back for additional space)

















911 LEGISLATIVE BODIES





Central Office



9-1-1 Phone System Vendor











CHALLENGES WITH CELL LOCATION:



Unique challenges posed by wireless phones

Wireless phones create unique challenges for emergency response personnel and wireless service providers. Since wireless phones are mobile, they are not associated with one fixed location or address. While the location of the cell site closest to the 911 caller may provide a general indication of the caller's location, that information is not always specific enough for rescue personnel to deliver assistance to the caller quickly.

Wireless 911 rules

The FCC has adopted rules aimed at improving the reliability of wireless 911 services and the accuracy of the location information transmitted with a wireless 911 call. The FCC's wireless 911 rules apply to all wireless licensees, broadband Personal Communications Service licensees and certain Specialized Mobile Radio licensees.



CHALLENGES WITH CELL LOCATION:



The FCC's basic 911 rules require wireless service providers to transmit all 911 calls to a PSAP, regardless of whether the caller subscribes to the provider's service or not.

Phase I Enhanced 911 (E911) rules require wireless service providers to provide the PSAP with the telephone number of the originator of a wireless 911 call and the location of the cell site or base station transmitting the call.

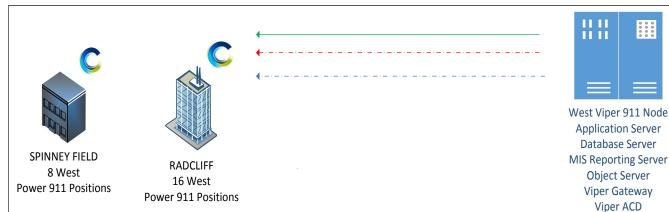
Phase II E911 rules require wireless service providers to provide more precise location information to PSAPs; specifically, the latitude and longitude of the caller. This information must be accurate to within 50 to 300 meters depending upon the type of location technology used.

The FCC recently required wireless carriers to provide more precise location information to PSAPs. As a result, wireless carriers will be required to comply with the FCC's location accuracy rules at either a county-based or PSAP-based geographic level. The new standards apply to outdoor measurements only, as indoor use poses unique obstacles.



911 CALL ROUTING PROCESS: Cincinnati Bell Required for **Central Call Routing** Office -911 / 7-DIGIT LANDLINE-911 WIRELESS (SS7)- .. - . Selective Router #1 PHASE 1 PHASE 2 ._..911 WIRELESS (SS7) Selective Router #2 Cincinnati Bell **Central Office** -911/7-DIGIT LANDLINE -911 WIRELESS END OFFICE / MOBILE SWITCHING CENTER AT&T, T-MOBILE **= = =** SPRINT, Verizon **WIRELESS** ANI/ALI **CARRIERS** Database 9-1-1 Phone **System Vendor** ##





Object Server

Viper Gateway

Viper ACD

CHALLENGES WITH CELL LOCATION:



• On March 22, 2018, the FCC adopted a Notice of Inquiry about how to route wireless 911 calls to the proper 911 call center more quickly. Comments are sought on what expectations consumers may have when calling 911 from a wireless device. Currently, a majority of wireless 911 calls are routed to a 911 call center based on the location of the cell tower that handles the call, which may be in a neighboring jurisdiction. When this happens, the call must be transferred to the appropriate call center. Comments are specifically sought on whether there are unique issues that persons with disabilities may encounter when a wireless 911 call must be transferred from a neighboring jurisdiction to the appropriate call center.

Comments may be filed in PS Docket No. 18-64 using the Electronic Comment Filing System (ECFS) at https://www.fcc.gov/ecfs.





STATE / LOCAL 911 STRUCTURE:



- Coordinates communication on 9-1-1 issues among state, federal, regional and local 9-1-1 and public safety communications officials.
- ESINET / FirstNet / Next Generation 9-1-1 Initiatives / County Plans
- Rob Jackson State 9-1-1 Coordinator
- Legislates State 9-1-1 ORC's / State Wireless Funding (Ch. 128)

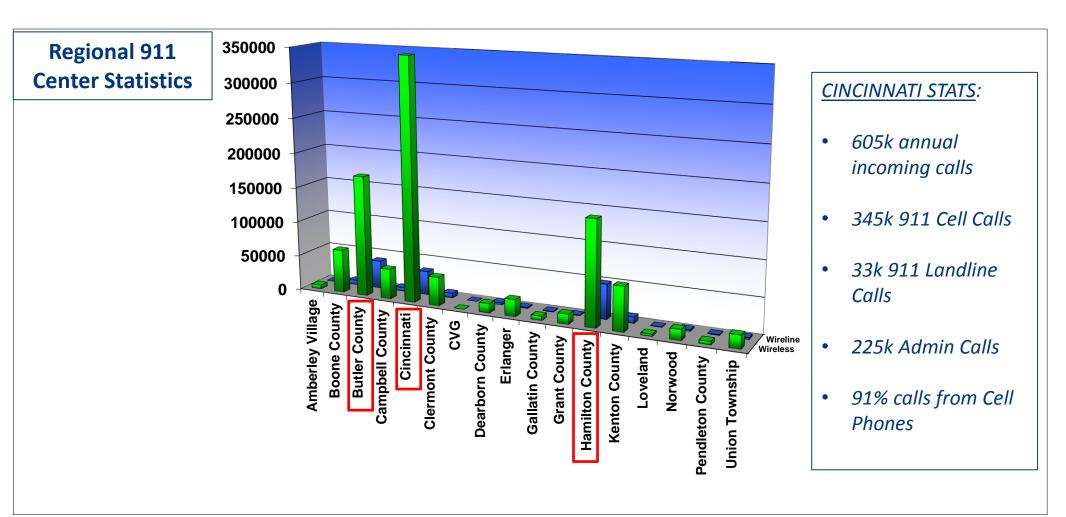


- Lead development of a statewide ESINet, review of the current funding model for this state's 9-1-1 systems
- Examine readiness of state's current readiness for Next Generation
 9-1-1 (NG9-1-1)
- Make recommendations for consolidation of PSAP's in this state



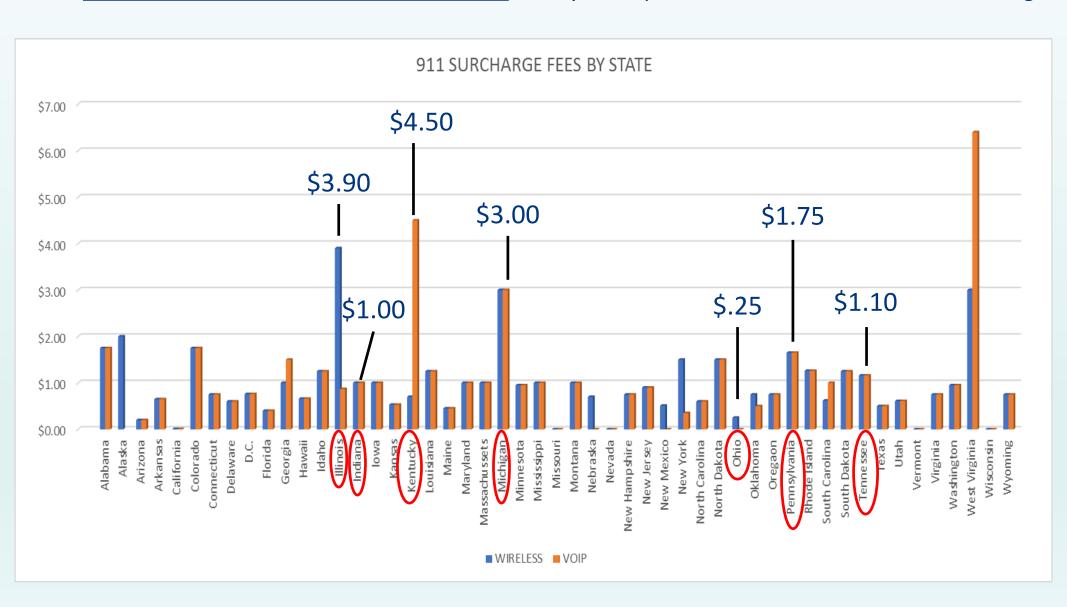
STATE / LOCAL 911 STRUCTURE:

- Hamilton County 9-1-1 Coordinator John Hoffman
- State ORC requires each County to name a coordinator and prepare a countywide 9-1-1 Final Plan
- Plan is prepared by a local countywide 911 Planning Committee
- (3) 911 Centers in Hamilton County (Cincinnati, Hamilton County, Norwood)



OPPORTUNITIES TO IMPROVE 911 LOCALLY:

- <u>CONTINUE TO COLLABORATE WITH STATE AND REGIONAL PARTNERS</u> Cincinnati / Hamilton County have connected Radio, 911 Phone, CAD, Citizen Alert Systems.
- <u>STATE ESINET / NG-911 LEGISLATION INPUT</u> lobby for improved standards and increased funding.



Motorola 800 Mhz Radio System

The 2-way radio system is used to facilitate communications between dispatch personnel and first responders.



• Original Cost: \$28 million

Purchase Date: 2003

Annual Maintenance: \$1 million

Upgraded: December, 2015

• Upgrade Cost: \$14 million











WEST 9-1-1 Phone System



Processes 9-1-1 calls routed to the Communications Center.

Call information display, call distribution, automatic call back, call transferring,

reporting, Text-to-911, etc.

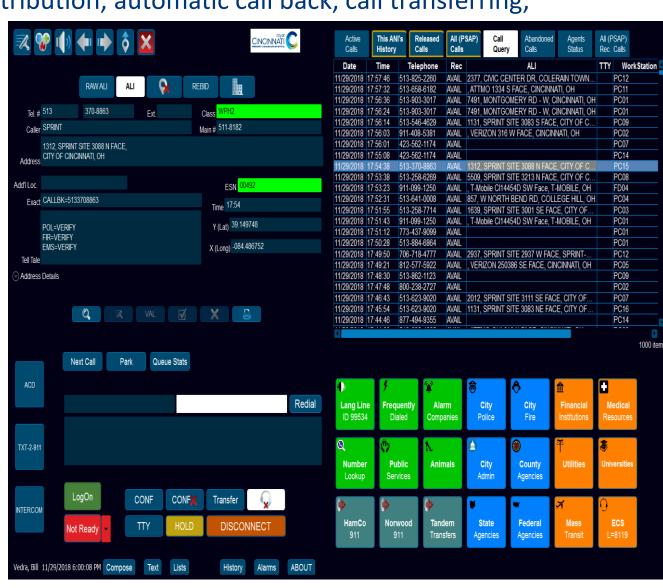
System Cost: \$835k

Purchase Date: 2018

Annual Maintenance: \$153k

Other Cities Using West:

- City of Atlanta
- City of San Diego
- City of New Orleans
- City of Detroit
- City of San Francisco
- Miami-Dade County





TriTech Computer Aided Dispatch (CAD) System

Enables management and coordination of resources available for emergency dispatch. Unit availability, dispatch priority, GIS mapping, and other critical

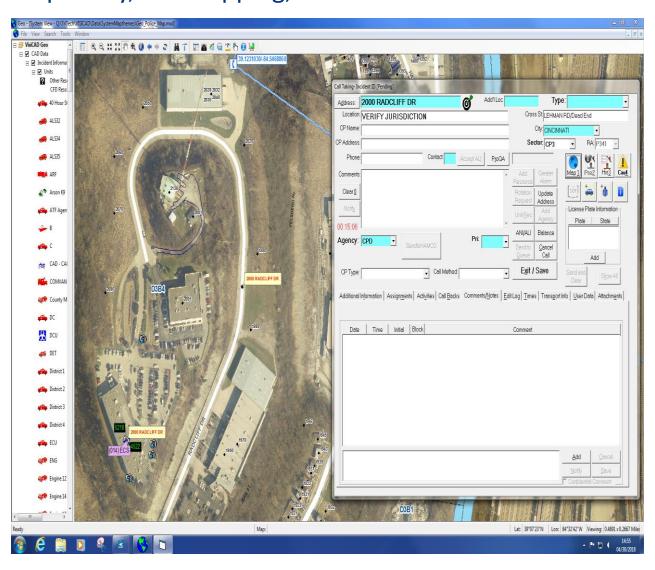
functions.

System Cost: \$2.3 million
 Purchase Date: 2014

• Annual Maintenance: \$300k

Other Cities Using Tritech:

- City of Austin
- City of Dallas
- City of Memphis
- Orange County Sherriff





Tritech Fire Mobile Data Computers w/ AVL

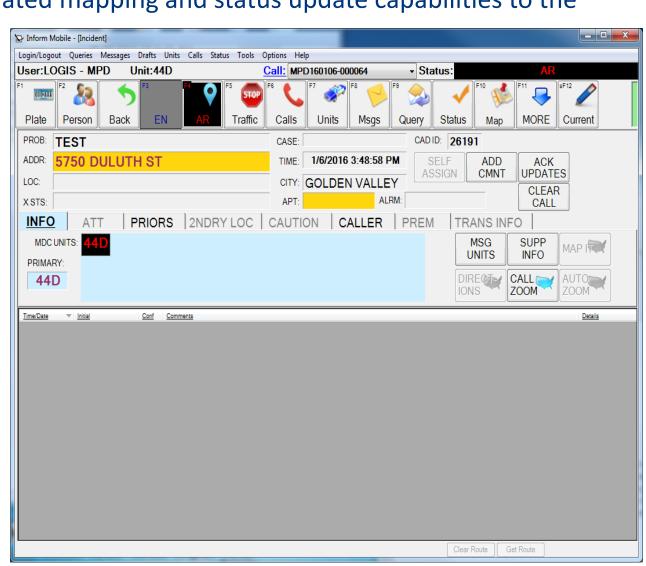
Enables real-time Automatic Vehicle Location and GPS based dispatch for al Fire and EMS vehicles. Also enables integrated mapping and status update capabilities to the

CAD from the Fire vehicles.

System Cost: Included w/ CAD
 Purchase Date: 2014

Other Cities Using Tritech:

- City of Austin
- City of Dallas
- City of Memphis



CLEAR Police Mobile Data Computers

© Mobile

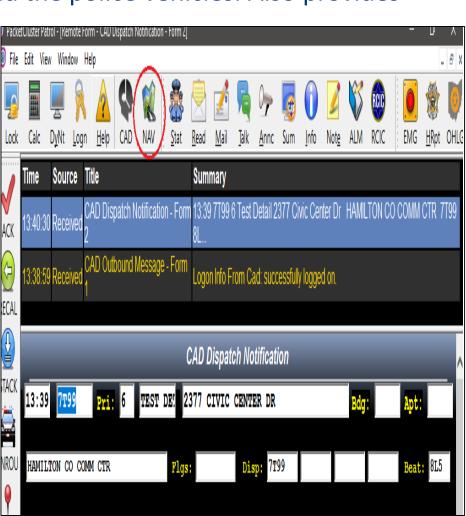
Provide RCIC and CJIS records check and law enforcement data query capabilities for all city and county law enforcement agencies. Interfaces to the Tritech CAD for electronic status messaging between dispatch and the police vehicles. Also provides

Map capability in the vehicle.

Original System Cost: \$7 million (countywide)
 Refresh Date: 2016

Annual Maintenance: \$100k





ZETRON

CURRENT ZETRON FIRE STATION ALERTING SYSTEM

Used to alert fire stations of new dispatch runs.

Purchase Date: 1990

Annual Maintenance: none





UPGRADING TO LOCUTION ALERTING SYSTEM

• System Cost: \$300k

Annual Maintenance: TBD





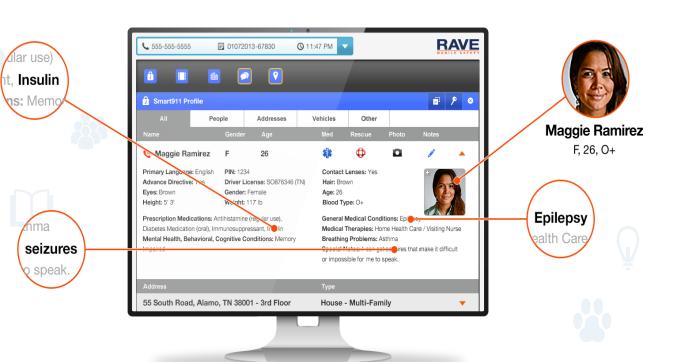


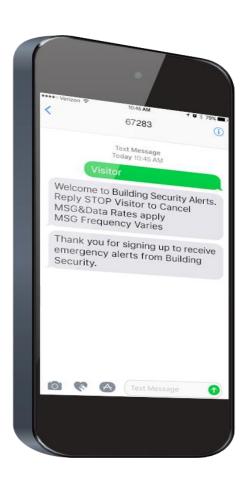
RAVE ALERT MASS NOTIFICATION SYSTEM / Smart911

Enables mass notifications to be made from the Communications Center to e-mail addresses and mobile devices. Used for SWAT Call Outs, County building closures, emergency notifications.

Purchase Date: 2018

System Cost: 126k (annual re-occurring)





NICE CALL RECORDERS



Long term storage and audio retention and playback system. Used to record and retain all radio transmissions and 911 calls. All emergency communications audio is stored for 25 days.

Purchase Date: 2014

System Cost: \$150k

Annual Maintenance: \$50k



1) MORALE

a) Involve staff to create comprehensive strategic plan (Section 7.3)

STATUS: In-Progress [Target Date 01/01/19]

b) Allow ECC staff to process all the changes before implementing further major initiatives (Section 7.3)

STATUS: Initiated / Ongoing

c) Implement stress management program (Section 7.3)

STATUS: In-Progress – Working w/ PEAP [Target Date: 01/31/2019]



2) SOPs

a) "Establish SOP Committee to thoroughly review/rewrite (Section 5.2)" and "Create a standard SOP template (Section 5.2)"

STATUS: COMPLETE - All ECC SOP's loaded into PowerDMS

Include method for call handling and QA during technical issues (Section 5.2)

STATUS: COMPLETE – Manual Call Guide Cards are in place. Updates cards are being ordered. [Target Date: 01/31/19]



b) "Reinstate TTY policy to query silent calls (Section 7.3)" and "Add TTY SOP including when, how, and why to use"

STATUS: COMPLETE – All call takers have been trained and signed off on the new TTY policy. West has updated TTY system functionality and updated their vendor product documents. Engaged Cincinnati Association for the Deaf to discuss specific needs of our hearing impaired community.

c) "Re-evaluate CELL incident type handling," and "Consider policy requiring dispatch for second call from same cellular number"

STATUS: *In-Progress* – Discussing policy options with CPD and CFD command that will balance response needs with available resources.

[Target: 01/01/19]



3) TRAINING

a) Provide a thorough re-training on CHE (Section 4.2)

STATUS: In-Progress [Target: 02/28/19]

b) Re-train call-takers on 911 customer service (Section 7.3)

STATUS: In-Progress / Ongoing



4) BACKUP CENTER

a) Install acoustic treatment at Spinney for noise reduction (Section 3.3)

STATUS: Scheduled – Quotes and design specifications for Spinney Field have been obtained from vendors and discussed with Facilities. [Target: 03/31/19]

b) Align with NFPA 1221 standard (Section 3.3)

STATUS: *In-Progress / Ongoing*— As facility improvements are made to the primary and backup sites NFPA 1221 standards will be and incorporated.



- 4) BACKUP CENTER (cont'd)
- c) Vet the entire system with full load testing prior to next use (Section 4.2)

STATUS: In-Progress – Quotes have been obtained from our CAD vendor for assistance with a full failover and load test: [Target: 02/28/19]



Cincinnati Police Department's role and actions with ECC leadership to streamline internal communications and improvement of operational and technical elements.

- 1. CPD procedure updates to include requirements for officer training section of the ECC Action Plan.
- Added 'unknown trouble' calls to procedure for responding to '911 Disconnect Calls' and '911 Silent Calls.'
- Officers will call for additional information if unable to locate caller.
- Officers will utilize the GPS App if they are unable to locate caller.
- Officers will leave their vehicles to inspect areas on foot once they are within an appropriate distance to caller location.



Cincinnati Police Department's role and actions with ECC leadership to streamline internal communications and improvement of operational and technical elements.

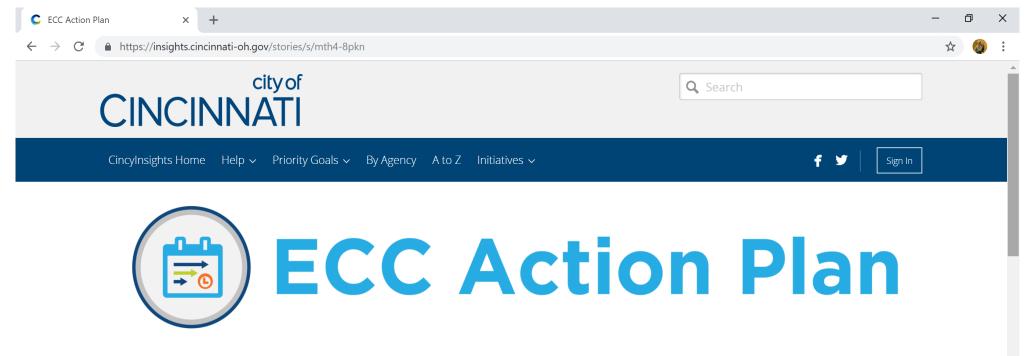
- 2. Addition of an ECC training block to officer yearly in-service training. Allow ECC personnel to train officers on systems used and any updates.
- 3. Monthly ECC Governance meetings-LTC. Theetge meets with Jayson Dunn and Assistant City Manager Sheila Hill-Christian to discuss ECC updates and police role.
- 4. Daily open lines of communication with ECC leadership maintain a positive working relationship.
- 5. GPS APP on all MDCs allows officers to input caller coordinates to bring up location on a map.



Cincinnati Police Department's role and actions with ECC leadership to streamline internal communications and improvement of operational and technical elements.

- 6. Spotshotter integrated to CAD.
- 7. Automatic License Plate Reader available.
- 8. Officer location technology working with Motorola to incorporate GPS tracking technology on officer radios.
- 9. Moving forward with Live Earth technology that enables both dispatcher and field supervisors to track officer location.





DISCLAIMER: The ECC Action Plan is an evolving document. New action items and modifications to existing action items, as well as relevant timelines, are added and adjusted as needed. Status updates for existing items are provided monthly by the Emergency Communications Center (ECC).

70 ITEMS

APCO
SHIFT WORK
WORK ENVIRONMENT
OFFICER TRAINING
SYSTEMS

CAREER PATH
TECHNOLOGY
PRODUCTIVITY
SOP
ECS OVERSIGHT

QUALITY OF WORK
TRAINING
STAFFING
VENDOR MGMT BACKUP
SALARY & BENEFITS

- 1. ASAP TO PSAP In Progress [Target Date: 03/31/19]
- 2. RECRUIT, HIRE, TRAIN NEW EMPLOYEES In Progress
 - TTY Complete
 - TEXT-TO-911 *In Progress* [Target Date: 01/02/19]
 - Policy Updates In Progress / Ongoing
 - Call Taking Fundamentals *In Progress / Ongoing*
- 3. REVIEW QA PROGRAM In Progress [Target Date: 02/28/19]

4. CONDUCT TOTAL REVIEW OF POLICIES & PROCEDURES – Complete

5. IMPROVE PHYSICAL WORKSPACE – In Progress – Chairs replaced, furniture replaced, carpet selected, murals ordered. [Target: 01/15/19]

6. REVIEW NEW HIRE TRAINING – In Progress / Ongoing [Target: 01/27/19]

7. CREATE A TRAINING TEAM – In Progress [Target: Staffing Dependent]

8. CONDUCT A SHIFT ANALYSIS ON 12 HOUR WORK DAYS - Complete

9. IMPROVEMENTS TO IN-CAR MAPPING CAPABILITIES - Complete

10. AUTOMATIC POLICE VEHICLE LOCATION – In Progress [Target: Q2/2019]

11. TEXT-TO-911 OFFICIAL ROLLOUT – In Progress [Target: 01/02/19]

12. CALL FOR ADDITIONAL INFORMATION IF THEY CANNOT LOCATE CALLER – Complete

13. MANUAL WORKAROUND FOR CAD ISSUES - Complete

14. CONFIRM SUCCESSFUL RECORD IN CAD - Complete

15. CALL QUALITY REVIEW PROCEDURES – Included in item #3

16. INSURE ALL LOCATION INFORMATION IS VERBALLY COMMUNICATED FROM DISPATCHERS TO OFFICERS – Complete



17. INSTITUTE SITUATIONAL REVIEW PROCESS – In Progress. No Longer using Q/A for review. Updating After Action Process w/ Staff de-brief.

18. CALL FOR ADDITIONAL INFORMATION IF THEY CANNOT LOCATE CALLER – Complete

19. ADDITIONAL TRAINING TO ENSURE THEY ARE EQUIPPED TO US THE SYSTEM – In Progress / Ongoing

20. ENSURE THAT OFFICER LEAVE THE VEHICLE TO INSPECT AREAS ON FOOT ONCE THEY ARE IN AN APPROPRIATE DISTANCE TO THE CALLER – Complete



- 21. MISSION CRITICAL PARTNERS REPORT Complete
- 22. **21CP REPORT** *Complete*
- 23. MCP STAFFING ANALYSIS Complete
- 24. RECONFIGURE SPINNEY BACKUP SITE In Progress

STRUCTURES FOR OVERSIGHT:

- Law & Public Safety Committee
- ECC Governance
- ECC Stat
- Countywide 911 Planning Committee

COMMENTS / QUESTIONS?





