ADDITIONAL

PACKET

ATTACHMENTS



LFD PARAMEDIC SERVICE DELIVERY

Davis County Advanced Life Support Transition Plans

LFD PARAMEDIC DEPLOYMENT MODEL

"TIERED RESPONSE"



- Paramedic Engines
  - Station #51 and Station #52
- A-EMT Ambulances
  - A51, A511, A52, A53, (A533)
- Overlapping Incidents - 53.9% (3758 / 6963)
- Multi Unit Responses - 60% (11,516 / 6963)
- Since 2005 - EMS Incidents have increased 170%
- Proposed Additional PM Engine (ME53)
  - January 2022

WHAT IS AN ADVANCED EMT?



- Advanced EMT licensure - Ambulances
  - 140 hours + EMT-basic
- Skillset
  - Vital Sign Interpretation
  - IV Therapy
  - Limited Medication Administration
  - Basic Life Support / Basic Airway Mgmt
  - Basic Trauma Care

WHAT IS A PARAMEDIC



- Paramedic licensure - Medic Engines
  - College Level Curriculum incl. Multiple Pre requisite courses
  - 1000-1200 Didactic & Clinical hours
- Skillset
  - Advanced Cardiac Life Support incl. 12-lead Interpretion
  - Advanced Airway / Intubation
  - Advanced Pediatric & Trauma Care
  - Advanced Medication Administration

LFD ADVANCED PARAMEDIC PRACTICE

- Ventilator Management
- CPAP - BiPAP
- High Flow Nasal Cannula (HFNC)
- Continuous Medication Infusion
- Advanced Practice Medications













RAPID SEQUENCE INTUBATION (RSI)

- Original Pilot Program / Study in Utah
- Now the "Benchmark" for Practice
- Facilitate Intubation Utilizing
  - Powerful Sedative
  - Induction of Paralysis
- State Medical Director Quality Oversight

TACTICAL PARAMEDICS



- Began Program in 2004
- AEMT's & Paramedics
- Functioning SWAT Team Member
- Develop Incident Medical Response Plan
- Perform Basic "Self Care" Training
- Rescue Task Force (RTF)

ENTERPRISE FUND

- Revenue generated by EMS operations
  - Transport Revenue
  - Grants
  - County Mill Levy
- EMS Equipment, Supplies, & Medications
  - Ambulances & Medic Engines



DAVIS COUNTY SHERIFF'S OFFICE

- First PM Agency in Davis County - 1978
- Currently Provides Service to…
  - South Weber, HAFB, Clinton, Sunset, Clearfield, West Point, Syracuse, Kaysville, Fruit Heights, Farmington
  - "Back-up" to Layton FD and South Davis Metro FD



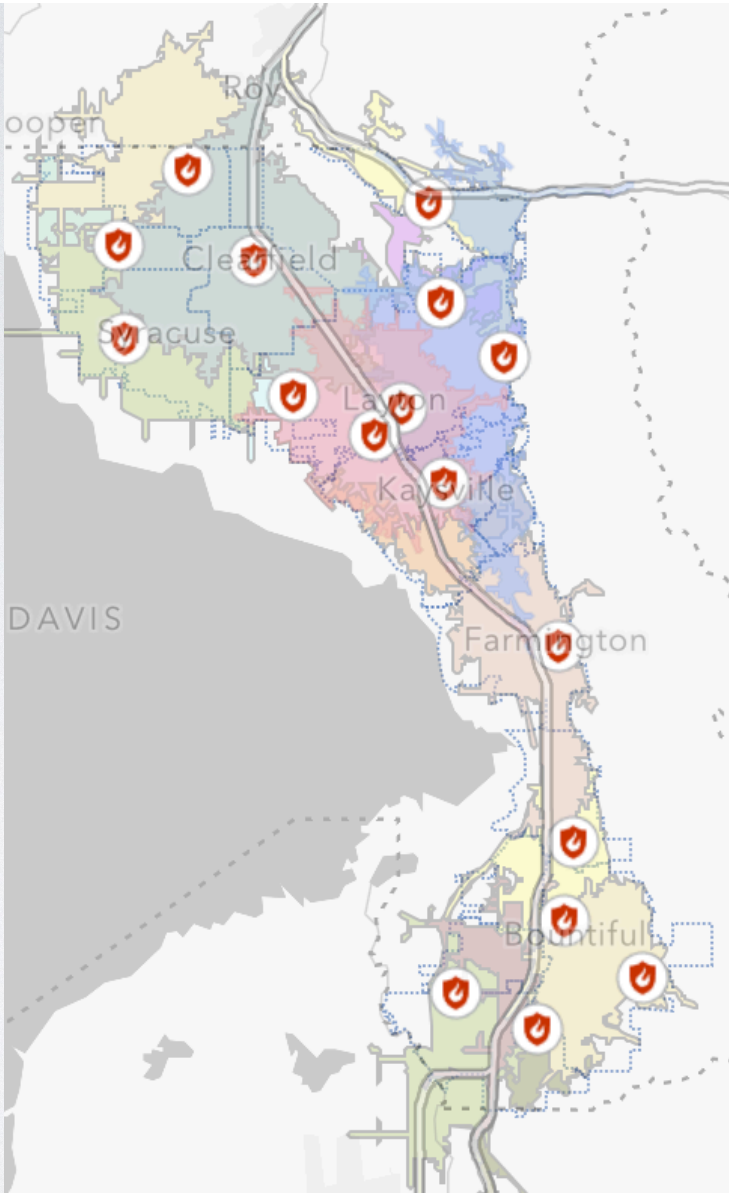


COUNTY WIDE PARAMEDIC PROVIDERS

- Current PM Providers
  - Davis County - Original provider
  - Layton Fire - 2001
  - South Davis Metro FD - 2005
- Funding - Property Tax Mill Levy
  - Mill levy does NOT cover all paramedic expenses for ANY agency
  - Shared based on per PM unit agreement
  - Layton share in 2020 - $768,176.00

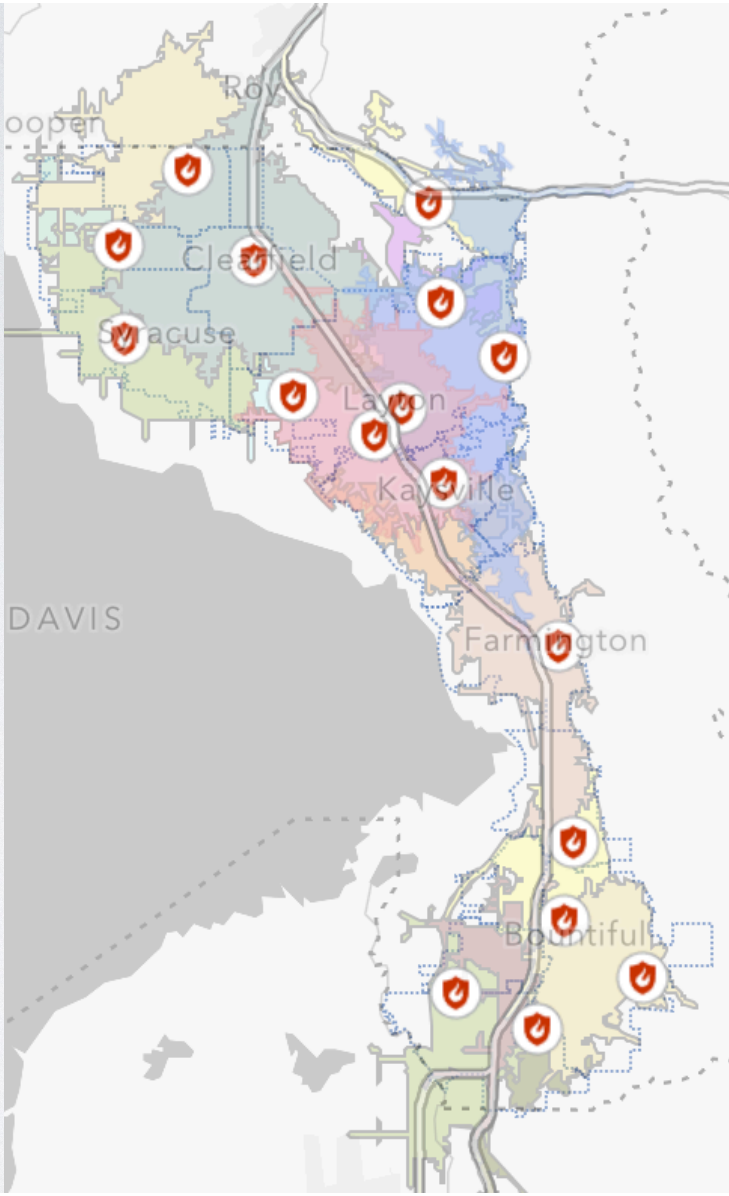
WHY CONSIDER CHANGE?

- Discussions began Fall 2019
  - City & County Leaders / Fire / Davis County Sheriff's Office
- Evaluating Current and Future Dispatching & Paramedic Service Strategies
- Determining Effectiveness of Transitioning from Sheriff's Office to Fire Service Based Paramedic Delivery



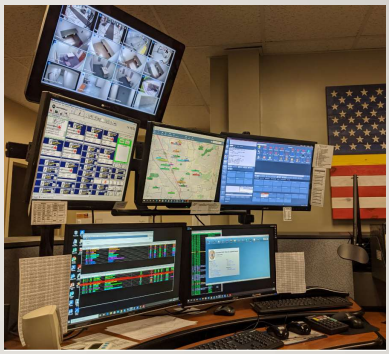
WHY CONSIDER CHANGE?

- Insufficient PM units
- Greater local influence of EMS delivery
- Feasibility based on
  - Response times (< 8 min)
  - ALS call volume w/growth predictions
  - Improved Interoperability & Mutual Aid



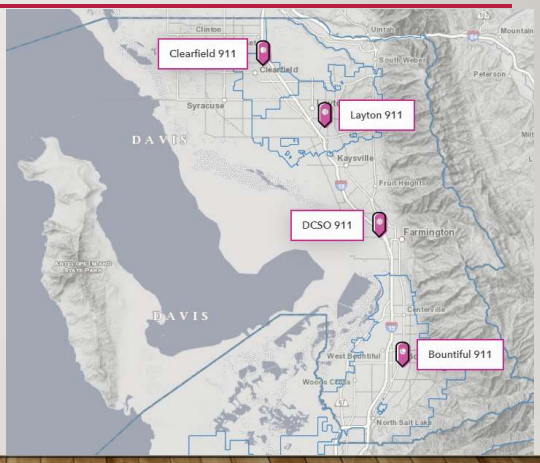


LAYTON 9-1-1



9-1-1 CENTER / PSAP / DISPATCH CENTER

- Layton 911 – Layton PD and Fire
- Clearfield 911 – Clearfield PD and North Davis FD
- Bountiful – Bountiful, WX, NSL, W Bountiful, Centerville PDs, South Davis Metro Fire
- DCSO 911 – Kaysville, Farmington, Syracuse, Clinton, Sunset, South Weber, West Point, Fruit Heights, UHP, Forest Service, Courts, Other State Agencies



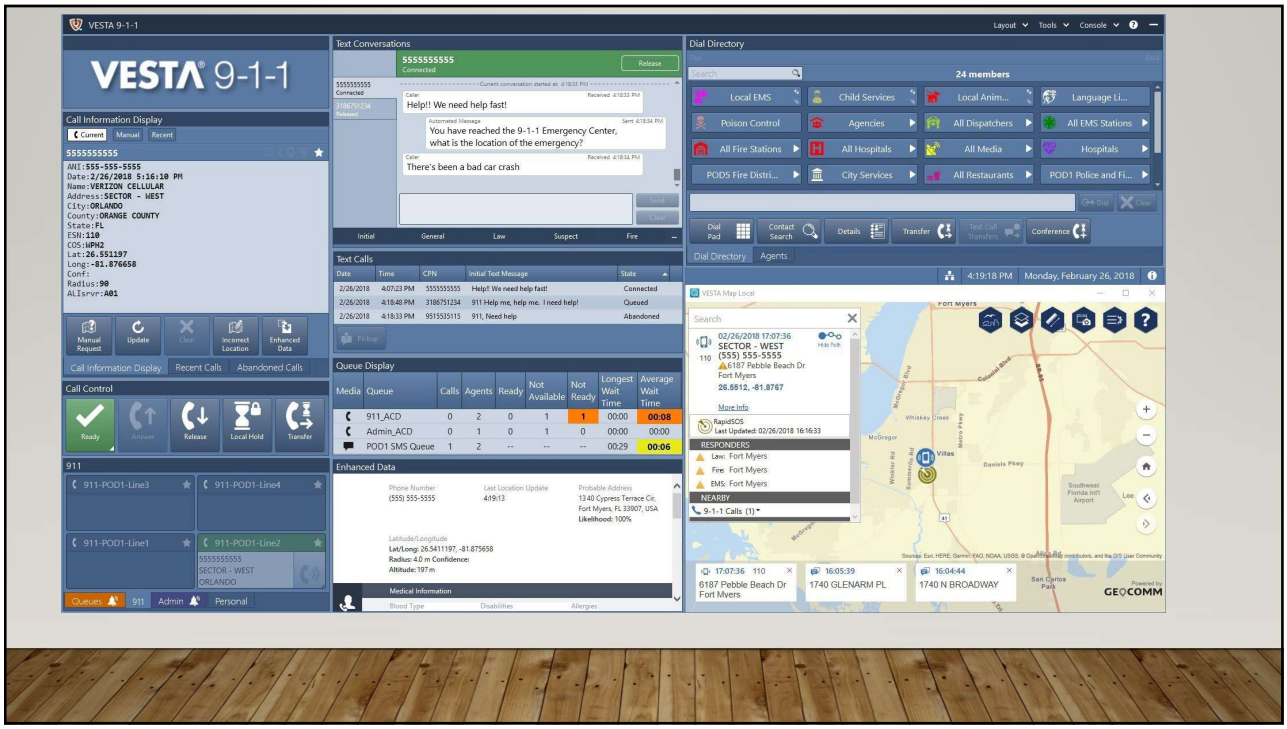
LAYTON 9-1-1 BY THE NUMBERS

- Annual 9-1-1 calls: 21,189 (~58 a day)
- Annual Administrative calls: 65,160 (~179 a day)
- 9-1-1 fees collected: ~$516,000 (~36% of total budget)
- 12 Dispatchers, 3 Supervisors, 1 Communications Manager
- Staffing level: 2-5, depending upon time of day, day of week
- Average years of experience: 14

VESTA PHONE SYSTEM

- Handles all incoming and outgoing 9-1-1 and Administrative phone calls
- Displays location and phone number of 9-1-1 caller
- Shared system managed by Layton and Davis County
- Next Generation 9-1-1
  - Text-to-911
  - Fully Redundant
- Future Plans





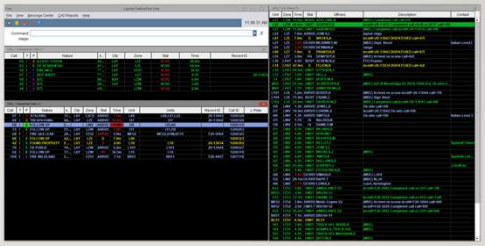
MOTOROLA RADIO SYSTEM

- Shared Statewide System
- Operated by UCA
- Fully Interoperable with neighboring / regional agencies
- Future plans



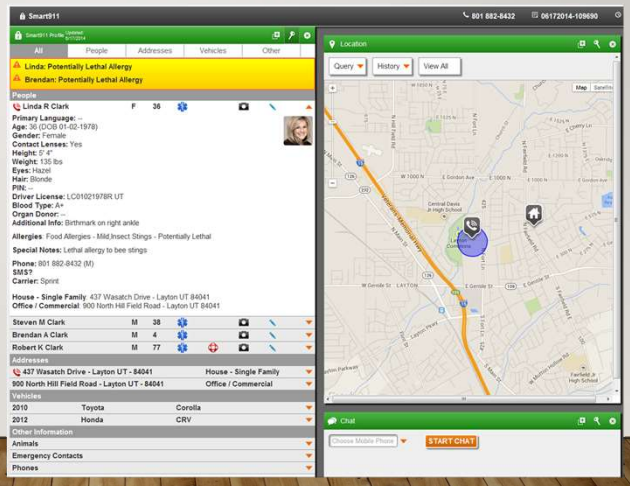
CAD – COMPUTER AIDED DISPATCH
RMS – RECORDS MANAGEMENT SYSTEM

- Stand-alone Spillman System
  - Clearfield, DCSO also use their own, separate Spillman systems. Bountiful uses E-Force
- Layton has 18 years of experience with Spillman



OTHER MAJOR SYSTEMS

- Smart911
- RapidSOS
- Rave Alert
- Avigilon Cameras

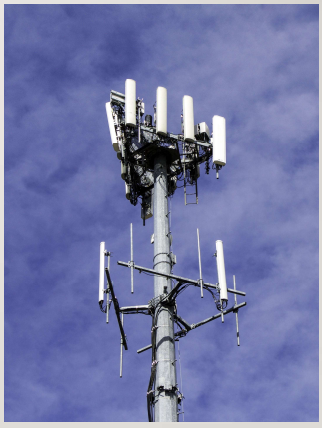


STRENGTHS / CHALLENGES

- Strength – Highly trained, experienced, dedicated staff
- Strength – Budget to support the tools and training to do the job effectively
- Challenge – Data Sharing
- Challenge – 9-1-1 Transfer Calls

WHAT CAUSES TRANSFERS? WHY ARE THEY BAD?

- Three Causes:
  - Cell phone signals
  - Freeway bisects cities/PSAP jurisdictions
  - Moving incidents
- Why are they bad?
  - Frustrated callers
  - Slower response
  - Potential for dropped calls, missed information



TRANSFER CALLS & THE LEGISLATURE

- Current Landscape

PSAP	2018 Xfer	2018 911 calls	Xfer %
Bountiful	2260	22586	10.0%
Clearfield	2304	11201	20.6%
DCSO	3455	33050	10.5%
Layton	**2243**	**18352**	**12.2%**
State	111529	944637	11.8%

TRANSFER CALLS & THE LEGISLATURE

- Statewide goal, as outlined in SB130 (2020)
  - No more than 2% outbound transfers from any PSAP statewide
  - 4 year implementation plan (by June, 2024)
  - Carrot and Stick
    - Additional funding available for PSAPs meeting targets
    - Required audit with no funding if target not met

ACHIEVING 2%

- In order of effectiveness:
  - Policy/Procedure changes
  - CAD-to-CAD
  - Shared CAD Platform
  - Physical Consolidation (North/South)

ACHIEVING 2%

- In order of effectiveness:
  - Policy/Procedure changes ✓
  - CAD-to-CAD ✓
  - Shared CAD Platform
  - Physical Consolidation (North/South)
- Progress July 1 through September 22: 11.8% >>> 6%

NEXT STEPS

- Shared County-wide CAD/RMS Platform
  - Upgrade to Single Spillman System (with redundancy) is ~$500,000 one time, $400,000 to ~$500,000 ongoing annually
  - RFI/RFP for new system
  - Benefits – Shared data
    - Officer, Firefighter and Dispatcher awareness of cross border incidents and persons
    - Virtually eliminates in-county 9-1-1 transfers
    - 9-1-1 Center Redundancy
    - Supports Paramedic Program Restructuring

NEXT STEPS

- Longer Term: Physical Consolidation to 2 centers in the county
  - North/South
  - Benefits
    - Increased ability to handle multiple large scale incidents
    - More consistency
    - Specialized personnel roles
    - Better Citizen Service
    - Potential Cost Savings in Long Run