

# Public Safety Datacast Paging

Using television datacasting technology  
for dispatching public safety

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## Current 911 call flow

- Identifies emergency
- Contacts the 911 Center
- Report all of the details of the problem
- 911 Center dispatch emergency responders
- The day is saved

## Information relayed by dispatch

- Location of emergency
- Type of emergency
- Emergency units dispatched
- Radio channel information

## Tone pagers for Fire/EMS

- “Tone & Voice” pagers provide receive-only alerts from the 911 Center
- Pager can remain silent until a specific set of tones are detected
- Technology developed in the 1960’s
- Most provide voice only (no display)

## Kitchen fire

- 4034, 4024, 4125, 4114, 3735, 3720, 4027, 4002, 4102, respond to a first alarm, Florrisant, kitchen, 450 Naomi Ave cross street of Bobbinray, respond on tac 10



- Tones take 25 seconds
- Voice takes 17 seconds after the tones for the location
- That's 42 seconds to wait for the location

## Structure Fire

- Attention St James Fire, St James Ambulance, Rolla Rural Fire, have a structure fire, it's going to be on Private Drive 3398 just off of highway double-B (boy), it is a house but it is vacant



- Tone takes 4 seconds
- Voice takes 12 seconds after tone for the location
- 16 seconds total

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# Delivery of dispatch via datacasting

- Information delivered much quicker
- Centralized paging will decrease mutual-aid dispatch time
- TV signals are High Tower & High Power = greater coverage
- Towers and transmitters already exist
- Other digital information can be transmitted (maps, documents, etc.)



## This is an emerging concept

- Devices could receive datacasting
  - New type of pager
  - Receiver integrated with smartphone
- Data from 911 Center exported by CAD to tv station
- ATSC 3.0 required due to mobile receivers
- UNC-TV, PBS affiliate in NC, applied for grants to perform proof of concept
- White paper available at [FirstNet.NC.Gov](http://FirstNet.NC.Gov) under resources

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