



**North Carolina 911 Board
Technology Committee Meeting
MINUTES**

**August 11, 2022
10:00 AM - 12:00 PM**

Meeting Conducted by Use of Simultaneous Communication

Attendance

Phone/Teams In-Person Absent

Members			
Rachel Bello	P		
Randy Cress	P		
Bo Ferguson	P		
Red Grasso	P		
Greg Hauser	P		
Lee Kerlin			NP
Glenn Knox	P		
John Moore	P		
Jude O'Sullivan	P		
Jeff Shipp	P		
Earl Struble	P		
Staff			
Stephanie Conner			NP
Greg Dotson	P		
Kristen Falco			NP
Tina Gardner	P		
Pokey Harris	P		
Jesus Lopez			NP
David Newberry	P		
Amanda Reeder	P		
Tom Rogers	P		
Marsha Tapler	P		
Sarah Templeton	P		
Angie Turbeville			NP
Guests			
Josh Briggs – AT&T			
Jason Compton NENA/Wake County			
Sharon Parks - CMPD			

Approved 10/11/2022

Ellen Thomas - CMPD			
Doug Workman – Cary PD			
Steve Ingram – Cary PD			
Bill Grey – National Public Safety Group			
Brad Bradley – Tyler Technologies			
Justine Buxton – Randolph County 911			

- Chair’s Welcome & Goals for Today’s Meeting** – Meeting was called to order at 10:05 AM by Chairman Jeff Shipp
- Roll Call** – David Newberry called the roll. All attendees were by phone or Teams only.
- Ethics Awareness/Conflict of Interest Statement** – Chairman Shipp read the Ethics Awareness/Conflict of Interest Statement. No Board or Committee members recused.
- Executive Director Opening Remarks** – Pokey Harris delivered opening remarks. She noted that Stephanie Conner and Kristen Falco were attending the National APCO conference.
- July 2022 Meeting Minutes Approval** – Motion to approve minutes made by John Moore and seconded by Greg Hauser. Roll call vote was conducted by David Newberry and the motion carried unanimously.

Minutes Vote

Rachel Bello	NP for Vote
Randy Cress	Y
Bo Ferguson	Y
Red Grasso	Abstained (Absent for July Meeting)
Greg Hauser	Y
Lee Kerlin	NP for Vote
Glenn Knox	Y
John Moore	Y
Jude O’Sullivan	Abstained (Absent for July Meeting)
Jeff Shipp	Y
Earl Struble	Abstained (Absent for July Meeting)

- 6. Next Gen TV and Public Safety Paging** – Red Grasso gave a presentation on Next Gen TV and Public Safety Paging. This is a pilot project to use TV station towers to broadcast paging to field units with a capable receiving device. He noted that live testing is ongoing with Winterville VFD (Pitt County). He stated Franklin County, Macon County and Morrisville Fire Department also have test plans in the works. Mr. Grasso's PowerPoint presentation is attached. Ms. Harris denoted this presentation is for informational purposes only and is not currently a 911 Board initiative, though the Board supports the effort and looks forward to learning more
- 7. Cybersecurity Ad hoc** – Ms. Harris informed the Committee that the Cyber Security ad hoc is moving forward. She noted the 911 Board approved a line item to include remediation. She said regional tabletop exercises (TTXs) are being coordinated with Pam Montanari from CISA for 2023. More information about the TTXs is expected to be announced in October. She also noted the ad hoc is exploring a multi-factor authentication (MFA) solution and will be soliciting information from PSAPs. Other remediation initiative possibilities include PSAP staff training and cybersecurity plans workshops.
- 8. ESInet Update** – Mr. Rogers provided the GIS update. He noted that Northampton and Wilkes Counties are scheduled. Anson remains unscheduled for ESInet migration but will move to Viper call handling equipment due to failure of their current call handling equipment. This is for on-premise call handling equipment replacement only. Ms. Harris thanked Intrado for providing all necessary resources at such short notice for successful equipment installation.
- 9. GIS Update** – Mr. Rogers GIS update. He advised the email notifications sent to PSAPs indicating the number of days since last upload and dashboard tools appear to be effective to get the localities to update their GIS data more frequently
- 10. Data Analytics Update** – Mr. Rogers provided the data analytics update. He advised PSAP training is ongoing.
- 11. SIP Admin Pilot** – Mr. Rogers stated the Union County lines have been ported and the main number porting has been scheduled. Perquimans County lines have been ported. Ms. Harris noted that DIT is working on a rate structure The pilot project will continue as outlined with a proof of concept to be delivered for the Board to make a determination regarding eligibility as an offering through DIT.
- 12. AT&T Update** – Josh Briggs provided the AT&T update. He noted that AT&T and Intrado are working on the migration plan to move Anson County to the Viper call handling equipment. He stated there was precedent for this plan as it was done for Clay County in 2018. He said OSP migration orders are in progress.

13. NMAC Update – Greg Dotson provided the NMAC update. He stated that Bernard Gardner and Even Warner will become full time 911 Board staff on August 22, 2022. He stated 1,497 YTD tickets have been created.

14. Closing Remarks – Ms. Harris provided closing remarks. She stated the PSAP Managers meeting will be held in Greensboro on August 25th and 26th.

15. Adjourn – Mr. Shipp adjourned the meeting at 11:15 AM.

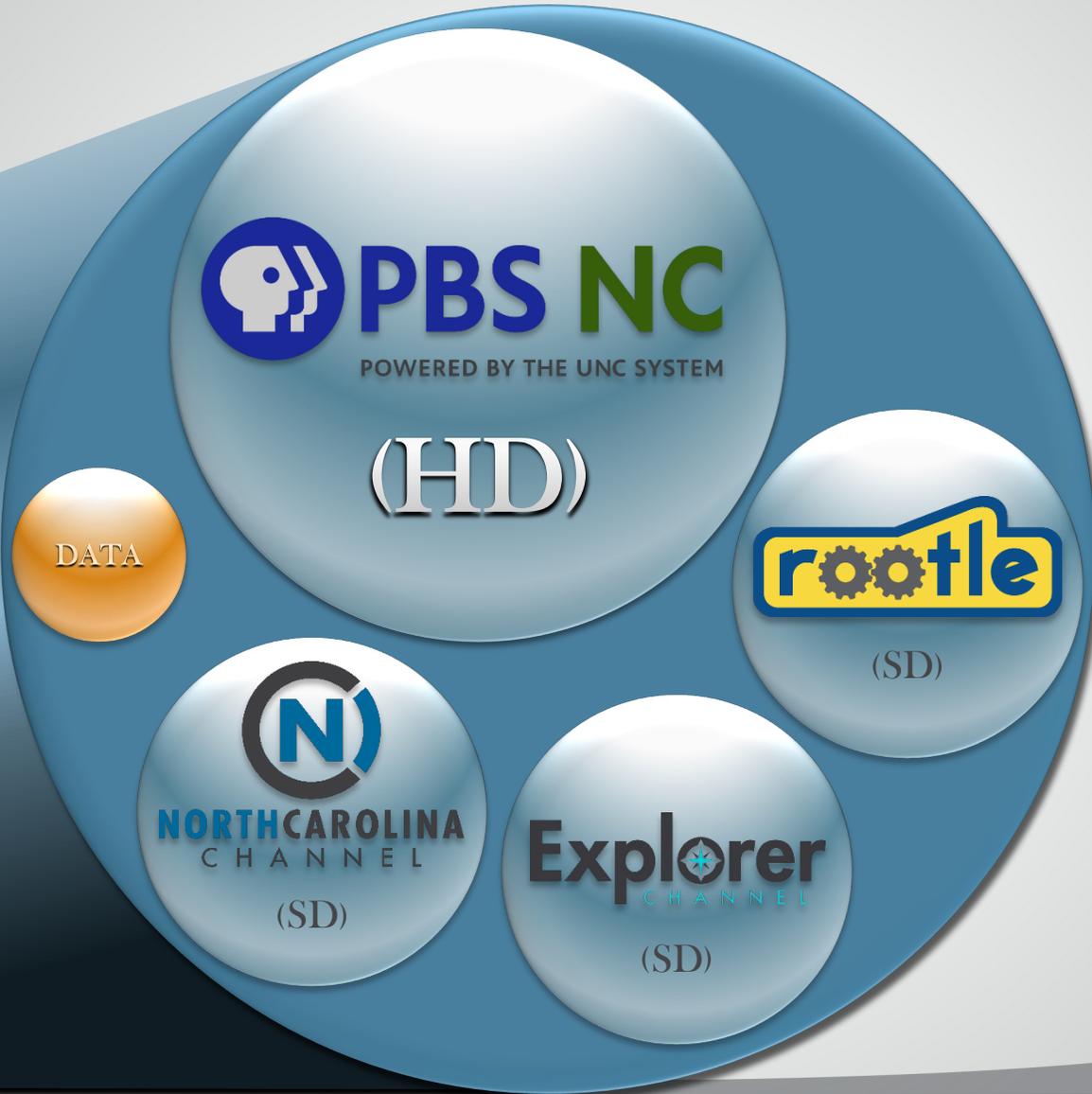
Approved 10/13/2022

NEXTGEN TV AND PUBLIC SAFETY PAGING

- Advancements in Digital Television
- Current state of public safety paging
- Concept of using DTV for paging
- Research and development
- Opportunity for a statewide system

Digital TV

19.3
Mb/sec



Datacasting

19.3
Mb/sec



Small data pipe available

- TV sets 'ignore' this data stream
- Useful for private video
- Firmware to remote systems
- Encrypted files distributed
- Updates to cars or vending machines

Advancements in Digital Television

Current Standard is ATSC 1.0

Next Gen TV is ATSC 3.0

Reliable mobile reception



More content in the same signal

ATSC 3.0

nextgentv

Larger Capacity
Higher Efficiency

19.3
Mb/Sec



Current State of Public Safety Paging



TONE ALERTING AND TODAY'S ANALOG PAGERS

- Tone & Voice Pager
- Technology from 50+ years ago
- Extremely reliable & durable
- 70% of firefighters are volunteers
- Volunteers might not be located at the fire station
- Most have no display, voice only
- Might allow responders to hear on-scene radio traffic

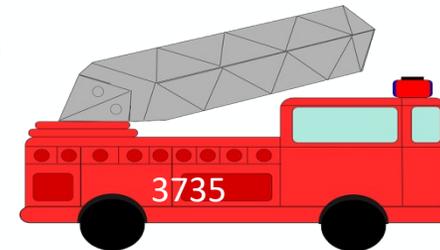
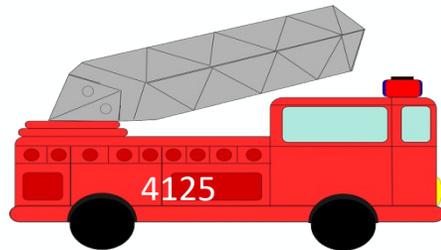




KITCHEN FIRE DISPATCH: CURRENT

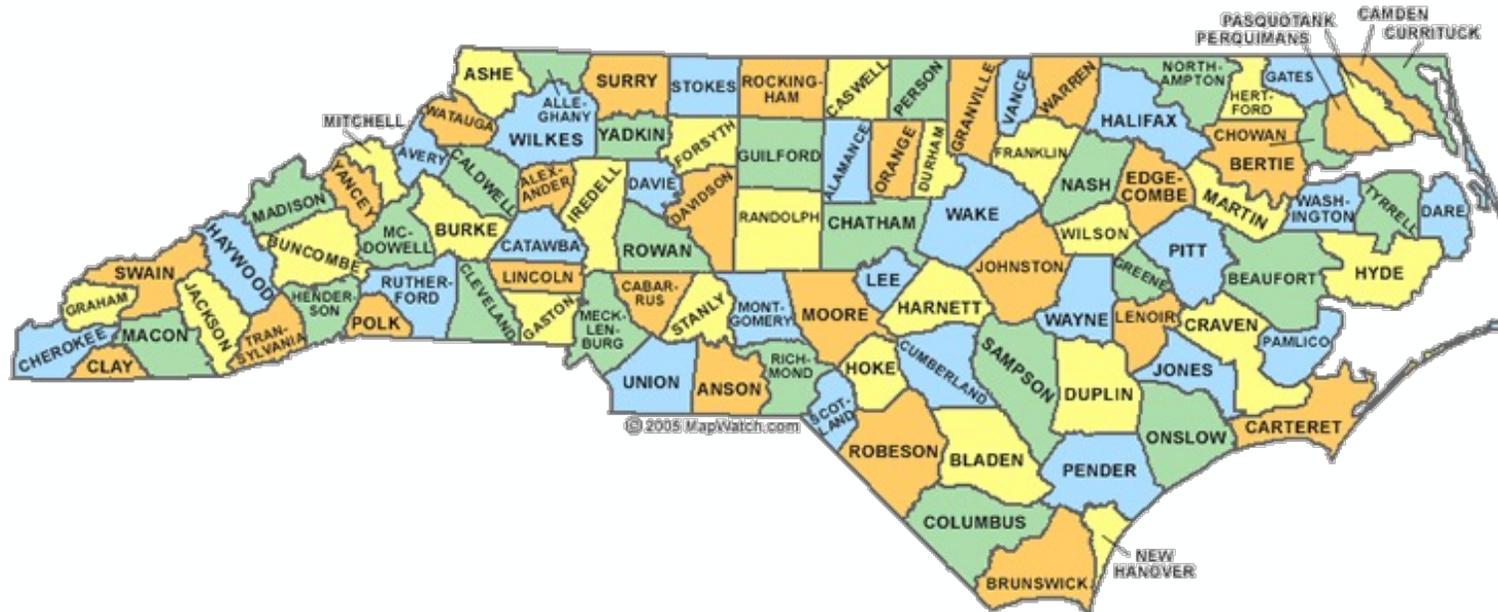


- 5 tones to 9 units – 26 secs
- Voice announcement only after all pager tones
- 11 secs to read unit numbers
- Location announced 42 secs after alert initiated
- Full alert = ~67 secs

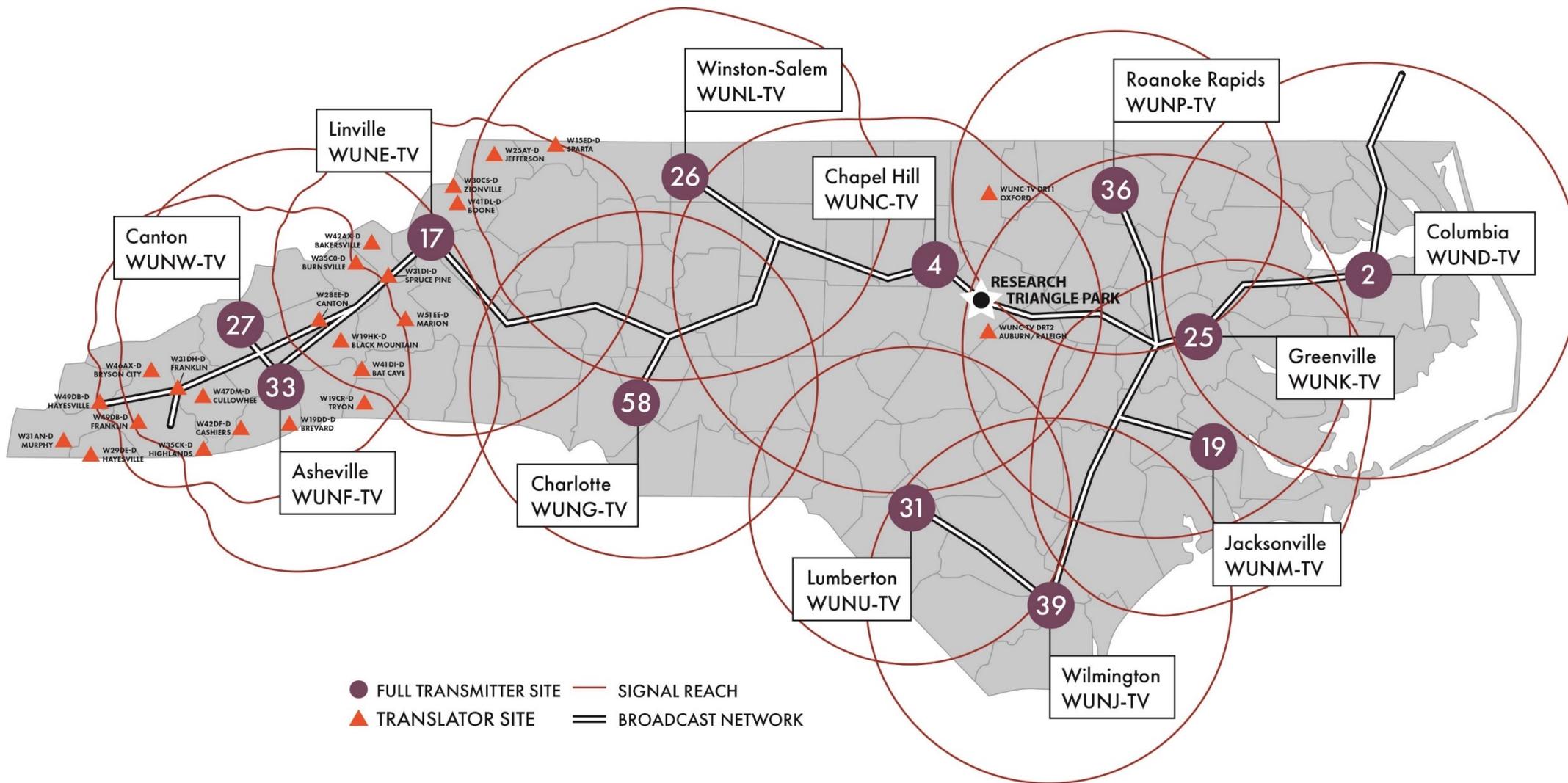


COVERAGE DESIGNED FOR THE RESPONSE AREA

- County level is common
- Every county is a different shape and size
- Each system is separate



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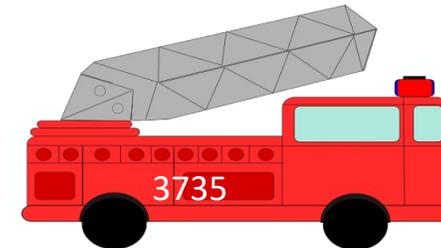
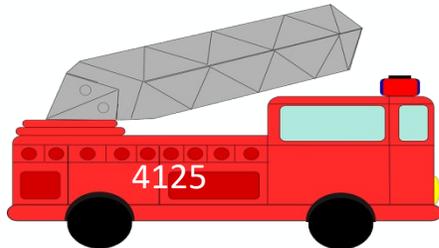




KITCHEN FIRE DISPATCH: DTV PAGER



- Full alert \approx 1 second
- All information delivered as text
- On-board text-to-speech

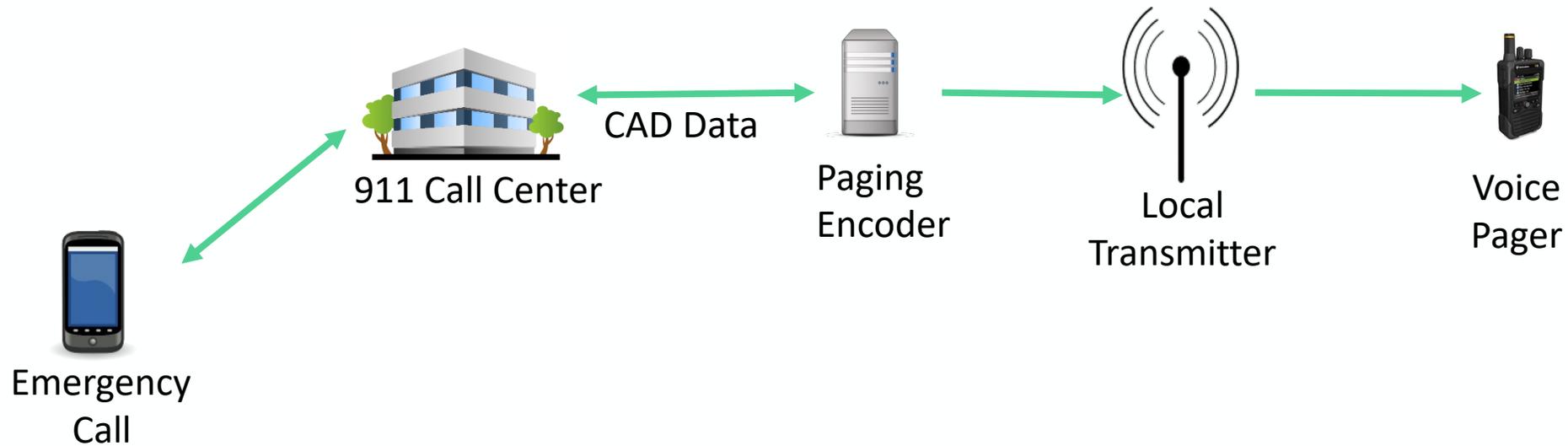


Using DTV for Paging

- High Tower & High Power
- Infrastructure already exists
- Instantaneous
- Encrypted
- Scalable bandwidth
- Simultaneous dispatches
- Maps, preplans, ICS forms, audio, video
- Device is always aware of coverage



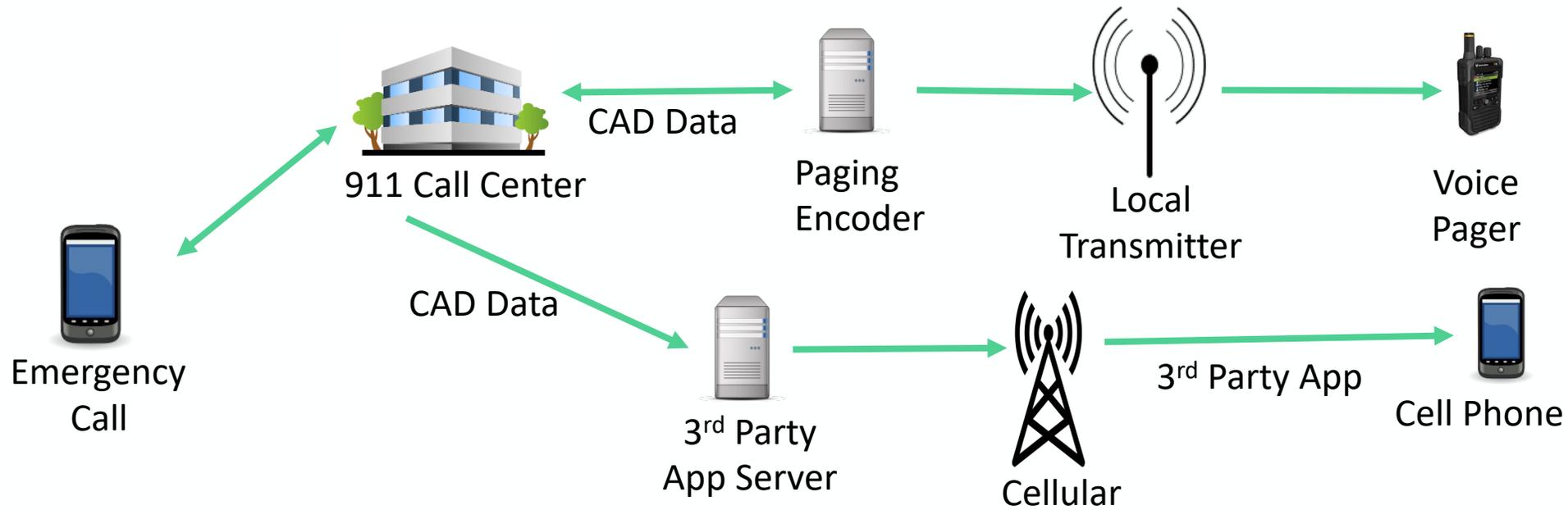
EXISTING EMERGENCY PAGING SYSTEM



End Users:

- Firefighters
- Medics
- First Responders

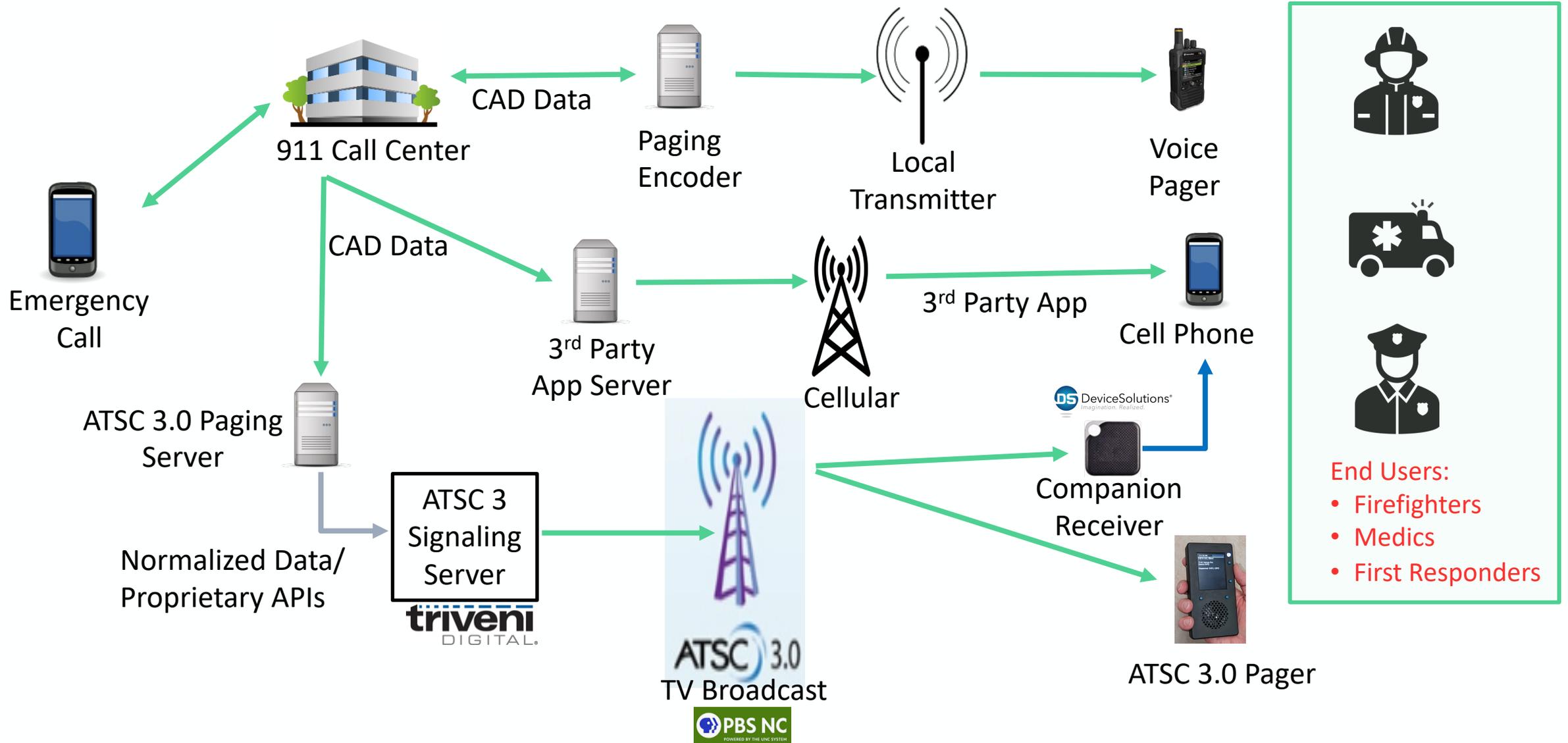
EXISTING EMERGENCY PAGING SYSTEM & CELLULAR



End Users:

- Firefighters
- Medics
- First Responders

ATSC 3.0 COMPANION DEVICE PAGING ECO-SYSTEM



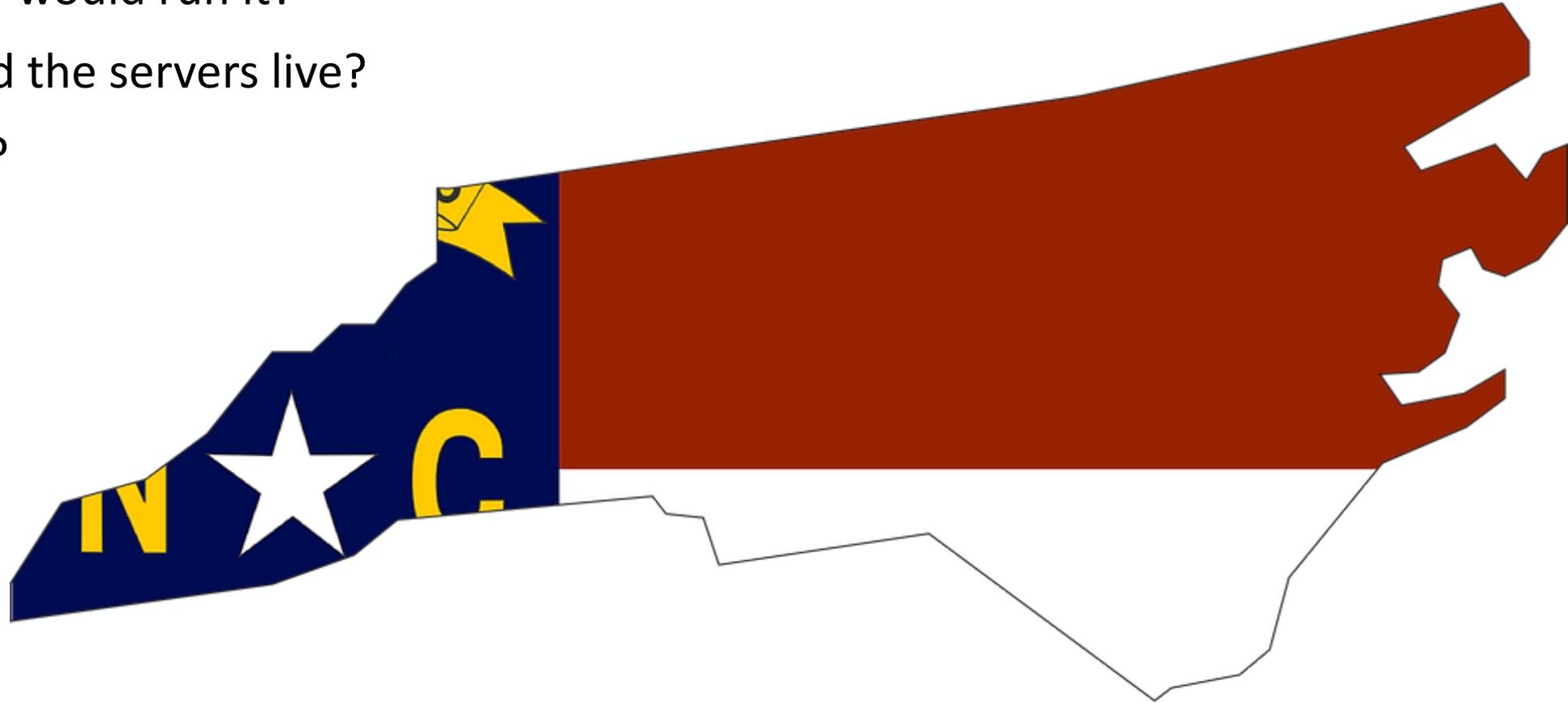
Research and Development



- DHS Funded a SBIR at \$1m
- Company located in Morrisville, NC
- Testing in Pitt County
 - Plans to test in Morrisville and Franklin
- Results are very promising

Ideas for a Statewide system?

- What agency would run it?
- Where would the servers live?
- Governance?
- MOUs?



Q&A / Contact info

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