





The Beginners' Track

An overview of the New Mexico
E9-1-1/GIS Program and its
offerings, benefits,
requirements and participants

SDR/DFA E9-1-1-GIS Training

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Albuquerque, NM



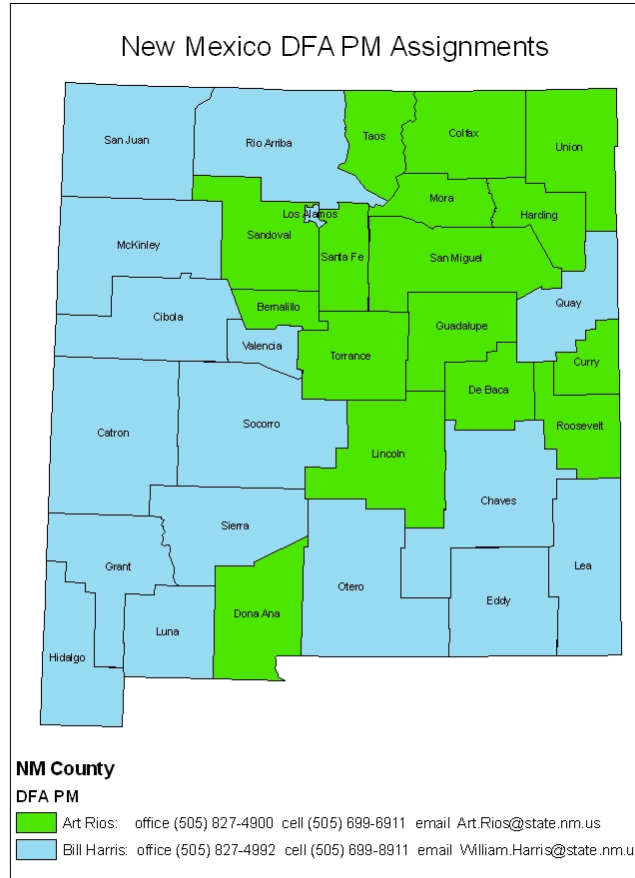
DFA

The New Mexico E9-1-1 Program is administered by the Department of Finance and Administration, Special Programs Bureau.

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Program Manager Territory



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Revenue

The New Mexico E9-1-1 Program is funded by a \$0.51 monthly surcharge on each New Mexico landline and wireless phone, currently generating \$11-\$12 million each year.



Funding

The program funds certain products and services required for implementation of Enhanced 9-1-1 and Wireless 9-1-1 including certain PSAP equipment and software, specific GIS software and training, (historic) addressing/ mapping/ database development services, delivery of mapping data to the PSAPs and quality control of mapping data.



Not Funded

Hardware related to GIS/Addressing needs (ie: computers, GPS, printers, plotters, road signs)

Personnel costs

Radio equipment & towers

Vehicles

Other



Funded PSAPs

PSAPs across New Mexico consolidated to take advantage of program funding for upgrades to support Wireless 9-1-1 and centralized mapping data delivery services. Consolidation resulted in PSAPs in **31** counties, **4** additional cities, **4** Native American areas and **7** DPS sites.



Funded GIS Data Sources

Approximately 70 counties, municipalities and Native American entities are designated as “GIS Data Sources” and receive GIS services, software and training. In return, they maintain GIS centerline, addressing data which they share with the PSAPs for 9-1-1 call mapping. GIS Data Sources are often responsible for rural or municipal addressing as well. Addressing is a key component of an E9-1-1 system.



E9-1-1 & GIS

The Purpose of the GIS portion of the E9-1-1 program is to assure automatic, accurate mapping of all 9-1-1 calls at every PSAP in New Mexico by delivering formatted, 9-1-1 synchronized, quality-assured GIS centerline data through the state mapping network.



Three Key Databases

- 9-1-1 (ALI) Database
- MSAG
- GIS Centerlines



9-1-1 (ALI) Database

Each landline telephone number paired with an MSAG valid 9-1-1 address and keyed to a valid community and ESN

The ALI database is “fed” by the validated telephone company customer service records and refers to landline telephone records only.



MSAG

Every valid road name in the PSAP's response area with high and low address range, ESN and community. The MSAG is the controlling document of the 9-1-1 project.



GIS Centerlines

Spatial representation of every road, accurate as judged against imagery and GPS, with each road segment linked to the MSAG-valid road name, address range and community.



Database Synchronization

All three databases must be **synchronized** to assure accurate, automatic 9-1-1 call mapping



What is Database Synchronization?

- Database synchronization means that all three databases contain the same information with the same spellings, abbreviations and designations.
- My home address is **7023 Wedgewood Dr**
- The MSAG must have a record for Wedgewood Dr that has a range that includes the house number 7023



Examples

- ***Wrong: 7000-7099 Wedge Wood Dr***
- ***Wrong: 7000-7019 Wedgewood Dr***
- ***Wrong: 7000-7099 Wedgewood***
- ***Wrong: 7000-7099 Wedgewood Ln***
- ***Right: 7000-7099 Wedgewood Dr***



What Happens if Databases are not Synchronized?

- 9-1-1 call comes in and dispatcher's screen shows:
100 W Hwy 544
- Call does not map
- A study of the GIS centerline shows that "Hwy 544" is represented in the digital map layer as "**Highway 544 W**"
- Which is correct?
 - Defer to postal standards ("Highway" spelled out)
 - Check addressing standards and ordinances in the county or municipality
 - Work to implement Statewide standard for NM highways (currently, the DOT standard—NM 544—does not meet the postal standard.
- The fix?
 - Either the MSAG, the GIS or both must change.



Definitions & Acronyms

- *Handouts*
- *All materials available at www.sdrmaps.com on our special New Mexico 9-1-1 Resources Page*
- *Stop by the SDR Resource Room (Taos Room) and we'll provide the specific resource you need on CD*