

Next Generation 9-1-1

Tarrant County 9-1-1 District



Background

- The District was created in 1984 for the expressed purpose of providing 9-1-1 equipment and services to Police and Fire Departments in Tarrant County.
- Since then, the District has updated and improved call handling equipment, database services, network services, mapping, and ancillary services.
- Today the equipment and technology used in providing and routing 9-1-1 calls is 38 years old, and the infrastructure is no longer sustainable.

Next Generation 9-1-1 (NG9-1-1) in Texas

- For the past decade, Texas 9-1-1 authorities have been building to prepare for NG9-1-1.
- In 2021, ARPA funds became available for NG9-1-1 reimbursement through the end of 2024.
- The funds are designed to move all of Texas out of the legacy world of 9-1-1, currently based on end-of-life technology.

Any Device, Anywhere, Any Time

What is “NG9-1-1?”

- An IP high speed, high availability, fault-tolerant, secure network-of-networks.
- Maintaining existing 9-1-1 requirements while allowing new technologies and data services.
- The ability to transfer “calls” instantly to anywhere in the world with enhanced data.
- Video, email, RTT, social media, and instant messaging access into 9-1-1 centers as desired.

Most Reliant System for Our Citizens

The primary goals of NG9-1-1:

- Provide a more reliable, fault-tolerant, secure, and flexible 9-1-1 system for the safety and security of our citizens.
- Design better methods for transferring “calls” throughout the DFW metroplex.
- Provide an intuitive tool with actionable information for telecommunicators to perform their duties faster and more accurately.
- Allow for troubleshooting, new features, and problem resolution to be handled much faster.

Today vs. NG9-1-1

TC9-1-1 Today	TC9-1-1 Next Generation 9-1-1
Virtually all calls are voice callers via telephones using analog lines to access the 9-1-1 call center	Voice, text, or video information from many types of communication devices, sent natively over IP networks
Most information is transferred via voice, with very limited data capability	Advanced data sharing is automatically performed
Callers routed through legacy selective routers, limit forwarding/backup ability	The physical location of the 9-1-1 call center is no longer a limitation, and callers are routed automatically based on geographic location, enhanced backup, and resiliency
Limited backup options, with the only possibility of a local or neighboring 9-1-1 call centers	Multiple backup options with connections to other 9-1-1 call centers within the state
Limited ability to handle overflow situations, callers could receive a busy signal	9-1-1 call centers can control call congestion treatment, including dynamically rerouting callers (helps small centers with low staffing or unique local emergency situations)

Next Generation 9-1-1 Costs

Next 3 Years

Details	Expected Cost \$
Network (NG9-1-1 ESInet)	3,124,301.00
9-1-1 Call Routing & Location	1,000,000.00
Geographic Information System (GIS)	1,093,000.00
Next Generation 9-1-1 Core Services (NGCS)	12,113,460.00
PSAP 9-1-1 Call Handling Systems and Applications	6,250,000.00
Security	275,010.00
Operations	5,250,000.00
Operational Planning	1,048,280.00
Total	\$ 30,154,051.00

Next Generation 9-1-1 Costs

- ARPA funds available to the District - \$12 million.
- Remaining \$18 million to be covered by normal District funding source (9-1-1 service fees).
- All ARPA funds must be used by end of 2024.
- Texas PUC mandating migration to NG9-1-1 by September 2025.

TC9-1-1 Assistance Funds

In 2010, the District worked with the BOM to give back to our Public Safety Answering Points initiating the PSAP Assistance Program.

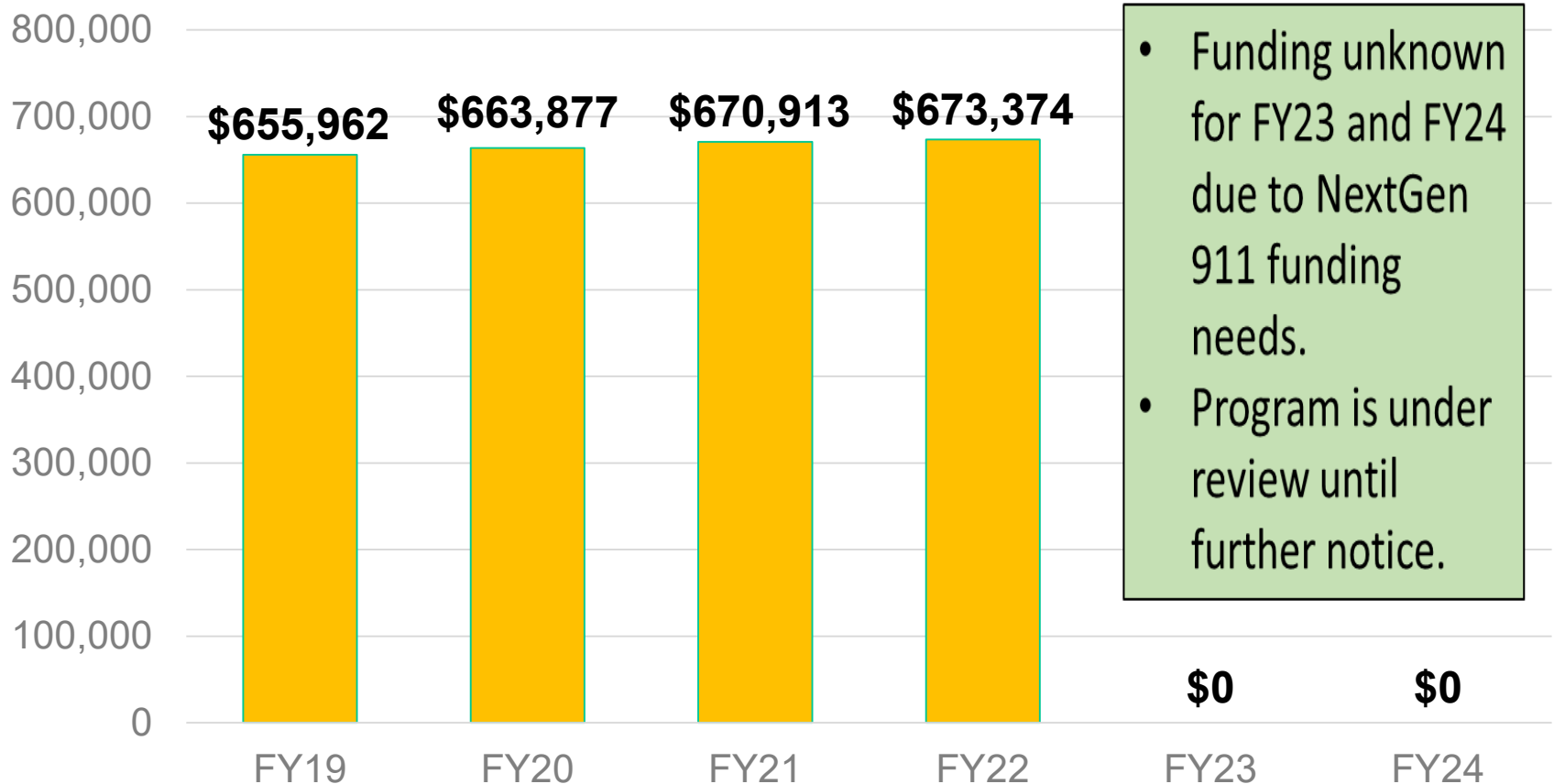
In 2014, the BOM voted to assist agencies with interoperability, maintaining an equal level of service throughout the District by initiating the Interoperability Program (Radio).

Both programs were dependent on available funds and set to end in 2017.

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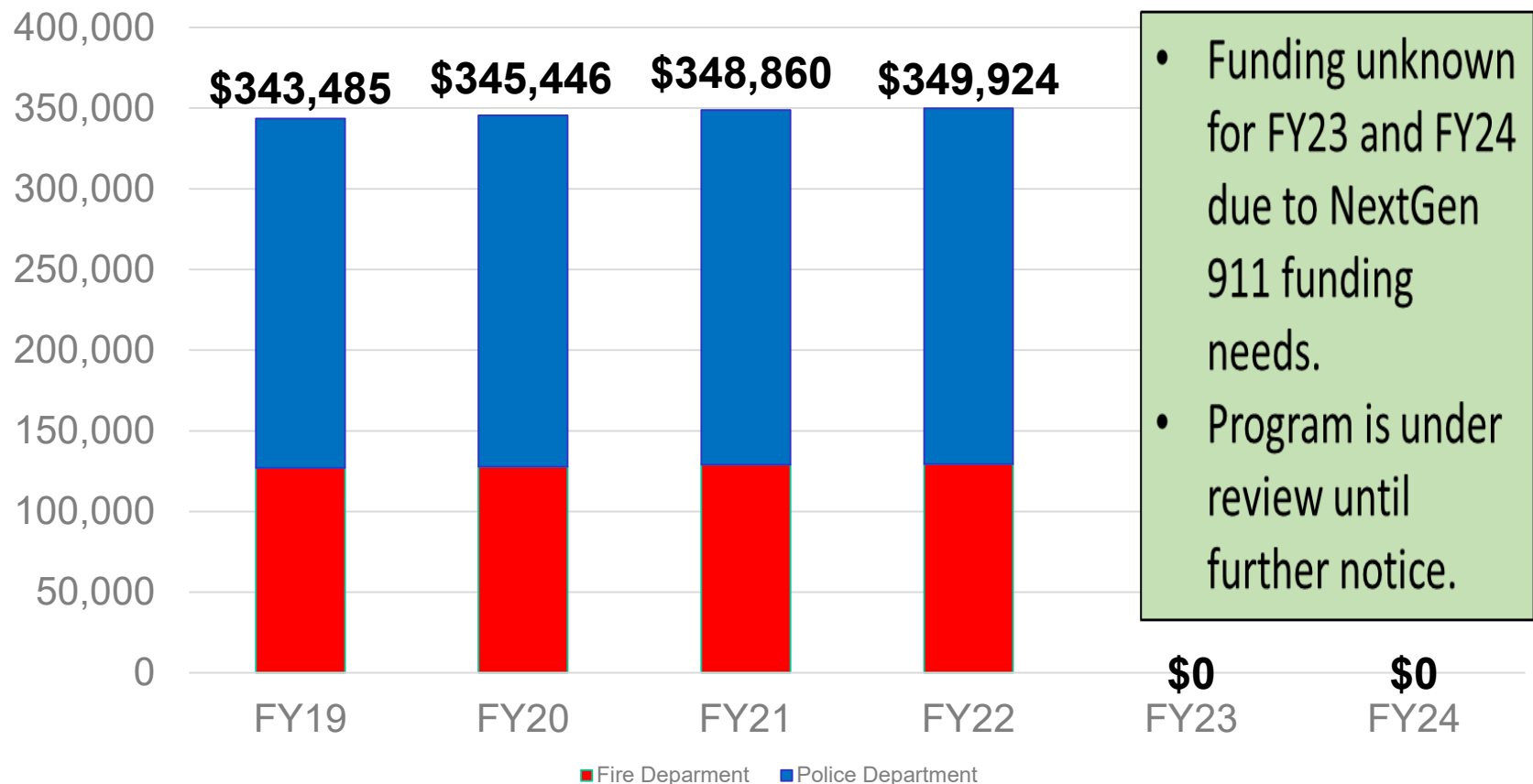
Tarrant County 9-1-1 District Radio Assistance Program

CFW Information Technology Services
Radio Assistance Program Funding
FY19-FY22 - \$2,664,126



Tarrant County 9-1-1 District Public Safety Answering Points Assistance Program

CFW Fire and Police
Public Safety Answering Points Program
FY19-FY22 - \$1,387,715



Tarrant County 9-1-1 District Approval of Budget via Resolution

- Resolution approving the Tarrant County 9-1-1 District's FY22/FY23 Budget will appear on the **October 11th** council agenda.
 - FY23 budget includes reductions to the Radio Assistance and Public Safety Answering Points programs.
 - Reductions due to NextGen 911 implementation.

TC9-1-1 Next Gen 9-1-1

Questions?