

Van Zandt County, Texas

P25 Trunked Radio System RFP

RFP ADDENDUM NUMBER 2

Date: May 27, 2022

Pursuant to Section 1.6.2 of the P25 Trunked Radio System RFP (released on 05/11/2022), this document is intended as an Addendum to the RFP. Respondents are reminded that only information contained in the RFP and in official addenda should be considered in preparation of proposals. No verbal communications with the County and/or its agents shall be binding.

The following questions were submitted in writing prior to release of this addendum. Associated response to these questions follow.

Questions are in black, answers are in *red italics*.

Q1: 3.8.2.2 Preferred Site Locations

Can the County provide any structural information for the “planned” Pruitt Baptist site in Van referenced in Section 3.8.2.2?

Answer: The tower is planned as a self-support 190’ structure. No other specific information is known at this time. The tower will be designed to include the P25 requirements if the site is utilized.

Q2: 3.19.5 Control Station Radios

This section mentions Fire Station Alerting. Is there a requirement for Fire Station Alerting integration? If yes, can you please provide details, quantities, and desired features for the Fire Station Alerting system?

Answer: There is not a requirement in the RFP for integration of existing Fire Station Alerting. Section 3.19.5 (Control Station Radios) denotes that the Class 2 control station will be utilized for public safety applications and shall include display, menu system, programmable soft keys, and full keypad. This unit shall also support outputs/interfaces capable to connectivity with common Fire Station Alerting controllers.

Q3: 3.4 System Configuration Concept / 3.20.4 Additional User Licenses

Section 3.4 references “Licensing for a minimum of 1000 users” and Section 3.20.4 of references “The system shall include licensing for a minimum of 1,500 P25 user radios”. Please clarify how many radio user licenses are required? Are the additional subscriber radio licenses mentioned in Section 3.20.4 associated with the Smartphone Gateway in Section 3.20.3 or licenses for additional P25 users?

Answer: 1500 P25 user licenses are required. These users are for the P25 radio system and not for the Smartphone Gateway that is discussed in Section 3.20.3. Please note in the System Options section of the Pricing Sheet (Attachment 1) the cost associated with adding additional P25 user licenses is requested. Proposers shall describe their licensing structure and associated cost for additional P25 licenses over and above 1500 users.

Q4: 3.7.2.3 Global In-Building Coverage Reliability / 3.7.3 Mandatory Buildings / 3.7.4 Desired Buildings

In reference to the coverage requirements for in-building, are the following areas such as garages, tunnels, elevators, basements, etc. included in those requirements?

Answer: Tunnels, elevators and underground parking are not included, with the exception of the County Courthouse. Coverage in the basement of the County Courthouse is required. In addition, coverage in above ground parking garages, if applicable, is also required.

Q5: 2.53 Detailed Design Review

Please clarify the design review requirements. Section 2.53 refers to Section 3.21 which defines two design reviews, a Preliminary Design Review (PDR, due within 90 days) and a Final Design Review (FDR, timeline not specified). Is the Detailed Design Review meeting expected to be a presentation of the Preliminary Design Review? The County will provide review of the PDR within 14 days. When will the FDR meeting be required? *Answer: The Vendor may elect to omit the PDR and only conduct a single design review. The design review shall be conducted no later than 90 days from execution of the purchase agreement with the selected vendor.*

Q6: 3.10.4 Physical and Environmental (Dispatch Console Requirements)

Section 3.10.4 paragraph 2 states that the “County will provide UPS- protected power circuits and backup power at the Dispatch Center.” However, the first paragraph states, “The Contractor shall provide UPS equipment with a run time of not less than 10 minutes.” Please clearly state the delineation of who is responsible for the UPS.

Answer: UPS hardware requirements will be removed for the Dispatch Center through a forthcoming Addendum that will address various Dispatch Center topics. The Dispatch UPS is currently being addressed and purchased by the County due to the new Dispatch Center, new dispatch console furniture and ETCOG grant deadline.

Q7: 3.13.6 UPS & DC Power Plant (System Protection Features)

Section 3.13.6 states that either AC or DC power may be used. However, Section 4.3 (Base Station Equipment) states DC power only. Please clarify.

Answer: UPS or DC power plants are allowed for all fixed-site equipment provided by the Contractor.

Q8: 3.17.2 Backhaul Configuration

This section mentions fiber that will be used as redundant backhaul. Can you please provide information on the type of fiber that will be used and a diagram of the connections?

Answer: Fiber details are not currently known. For Greenfield sites, the fiber has not been installed. Fiber details to be provided to the selected vendor, when available and applicable.

Q9: 3.19.6 Quantities and Pricing

Does the quantity of control stations listed in Table 7 of Section 3.19.6 include the control stations for dispatch backup and interoperability or are these control stations in addition to the control stations needed for dispatch backup and interoperability?

Answer: The quantity of control stations listed in Table 7 of Section 3.19.6 are for users (fire stations) and do not include the control stations for Dispatch backup radios (Section 3.10.7 Backup Radios) or the control stations for interoperability gateways (Section 3.15 Control Station Gateways).

Q10: 1.6.4 Federal Grant Funds Requirements

Of the ARPA requirements in the bulleted list within Section 1.6.4, which forms/certifications are required for the proposal submission and which forms/certifications will only be required if a contract is awarded??

Answer: All forms, except for Form 1295, must be submitted with your Proposal. Form 1295 is required by the awarded vendor at the time of contract execution. Please note that before a contract is executed, the certification that the firm or a firm principal is not debarred or suspended by the Excluded Parties List System (EPLS) in SAM will be reanalyzed.

Q11: 3.7.7.4 Mandatory Buildings DAQ Test Methodology

Section 3.7.7.4 references “Voice testing within buildings shall be performed and scored per NFPA 1221, International Building Code, and International Fire Code.” Could the County please clarify which code and which versions of the code they will utilize?

Answer: The required methodology for DAQ testing is described in Section 3.7.7.4. The outlined procedures are based upon the County’s interpretation of 2019 NFPA 1221, 2018 International Building Code, and 2018 International Fire Code. The County and Vendor will mutually agree upon the final test procedures.

Q12: 1.7 Pre-Proposal Conference

Can the County provide the attendee list for the Mandatory Pre-Proposal Conference?

Answer: Yes. The list is attached hereto.

Q13: 1.7 Pre-Proposal Conference

Can the County provide a copy of the slide deck that was presented during the Mandatory Pre-Proposal Conference?

Answer: Yes. The information is attached hereto. Please note that all information presented during the Conference was intended as a high-level review and was provided as a courtesy to attendees. No information delivered in the presentation or conference is binding. Only the RFP itself or as modified through addenda shall be considered as official RFP content.

Van Zandt County
Pre-Proposal Conference
May 26, 2022

Attendee Sign-In Sheet

| Name | Organization / Department |
|-------------------|-----------------------------------|
| Barry Black | Trott Communications Group, Inc |
| Keith Whitt | Trott Communications Group, Inc |
| William Bass | GrantWorks |
| Matt Jackson | Stolz Telecom |
| Harry Maddox | L3Harris |
| Peter Abraham | L3Harris |
| Kenneth Clouse | American Communications |
| Rob Bondurant | JVCKenwood |
| Lisa Wheelock | The Cambridge Group |
| Bruce Hale | Motorola Solutions |
| Karl Kamar | Motorola Solutions |
| Jennifer Ewing | VZC Dispatch |
| Joe Maddox | VZC Sheriff's Office / Lieutenant |
| Sandy Hill | VZC Auditor |
| Scott Slaton | VZC IT |
| Virgil Melton | VZC Commissioner Pct. 2 |
| Chad LaPrade | VZC Commissioner Pct. 1 |
| Andy Reese | VZC Judge Elect |
| Collin Wetzell | Motorola Solutions |
| Rahul Ravindran | Motorola |
| Chris Hamilton | Mobile Communications America |
| Shawn Scott | MCA |
| Craig Sikes | MCA |
| Kirstin Hallbauer | MCA |
| Brian Felden | MCA |
| Joe Carter | VZC Sheriff's Office / Sheriff |

Van Zandt County P25 Trunked Radio System RFP Mandatory Pre-Proposal Conference



Conference Agenda

- Procurement Information
- RFP Requirements / Specifications
 - Technical Overview
 - Coverage (Outdoor, In-Building, Testing)
 - System Protection Features
 - Microwave Backhaul System
 - Sites
 - Spectrum & Capacity
 - User Equipment
 - System Options
 - Acceptance
- Answers to Submitted Questions (Preview)
- Forthcoming Addendums
- Next Steps...
- Questions
- Dispatch Center Tour



County Representatives

RFP Manager

- Sandy Hill - VZC Auditor
- Single Point of Contact

P25 Radio Project - Lead VZC Commissioner

- Commissioner Chad LaPrade, Precinct 1

American Rescue Plan Act (ARPA) Grant Advisor

- William Bass - GrantWorks

Radio Project Consultants

- Barry Black - Trott Communications Group, Inc.
- Keith Whitt - Trott Communications Group, Inc.

Rules of Engagement

Intention of the P25 RFP

- Completely fair process, Not restrictive, Open to all competition

Information Presented Today

- Informal, Non-Binding

Submit All Questions in Writing

- §1.6.1 - RFP Procedural & Content Questions
- Q&A Posted as Addendums
- VZC P25 RFP Webpage:
 - <https://www.vanzandtcounty.org/page/vanzandt.P25.RFP>
- RFP Manager - Single Point of Contact
- **NO DIRECT QUESTIONS TO THE COUNTY OR CONSULTANTS!**

Only the RFP & Addendums Are Official!!!

Key Dates

Mandatory Pre-Proposal Conference & Dispatch Center Tour

- **Thursday May 26, 2022 (Today)**

Deadline for Questions

- **14 days prior to the published submission deadline**
- **Tuesday June 7, 2022**

Deadline for Proposals

- **June 21, 2022, 4:00pm local time**
- **No Extensions & No Exceptions**

Proposal Submissions

- 1 Original Copy of RFP
- 5 Hardcopies of the RFP
- 1 Electronic Copy / PDF Format / USB Drive
- Proposal Contents (RFP §1.11)
 - Cover Letter, SAM Active Cert. & Record Search, Various Forms, Respondent Profile, Technical Proposal, Cost Proposal, and Project Schedule
- No Fax / No Email
- DO NOT BE LATE!

Terms & Conditions

- Read the T&Cs Carefully (RFP §2.0)
- Proposal (Bid) Bond / Surety Bond
- Insurance Requirements
- Performance Bond
- Use of ARPA Grant Fund Requirements

Technical Overview

- Protocol: APCO P25 Phase 1 and Phase 2 Trunked
- Frequency Band: 700 MHz and/or 800 MHz
- Multisite Configuration: Simulcast
- Site Count: Approximately 5 (TBD by Proposer's Design)
- Optional Fill Sites: As recommended by the Proposer
- P25 Channels: 5 minimum
- P25 User Count: Licensing for a minimum of 1500 users
- Microwave Backhaul System (Ring Design, 99.999%)
- Digital Logging Recorder
- Mobiles: 197, Portables: 356, CSRs: 17, P25 Pagers: 240 (optional)
- Frequency Coordination & FCC Licensing
- Warranty: 3 Years "Bumper-to-Bumper"

Technical Overview

Dispatch Equipment

- 3 Dispatch Consoles, 4th Optional Console
- Console Controller / Backup Control Stations / Voice Logging Recorder
- New Dispatch Center - VZC Justice Center / Sheriff's Office
- New Xybix Consoles & Carpet, 3 Consoles, Separate RFP, Installed by late July/Early August 2022
- New Master UPS (Addendum forthcoming)

ETCOG Grant Funds

- Funds must be "Obligated" by August 31, 2022
- Funds must be "Expended" by November 29, 2022
- Proposers must commit to provide associated Dispatch Infrastructure by the ETCOG deadlines!!!

Integration with existing VZC radio systems:

- VHF - Grand Saline SO, Wills Point SO, Van SO
- VHF - Rolling Oaks Fire, Edom Fire, Canton Fire
- VHF - Commissioner's 1, Commissioner's 2
- Panic Button Systems

Coverage

Coverage – Most Important “Feature” of the Radio System

Countywide Coverage Goals (RFP §3.7.2.4)

- Mobile Radio Coverage - 95%
- Portable Radio Outdoor Coverage - 95%
- Portable Radio In-Building (6dB margin) - 90%

Portable Radio In-Building (15 dB margin) - 90 %

- 15dB: Canton, Wills Point, Grand Saline & Van City Boundaries

Mandatory Buildings (13 total)

- Must cover with radio system or building treatment
- Basements and elevators excluded

Desired Buildings (57 total)

- Provide evaluation if covered by radio system
- Provide option for building treatment (if likely required)



Coverage

Bounded Area Reliability

- County
- City Limits (Canton, Wills Point, Grand Saline, Van)

Southeast corner may be challenging.

If Southeast corner requires “targeted site”:

- Cost & Benefit of the targeted site
- % Guarantee with & without vs. Cost
- Creative solutions:
 - Taller Site (SE)
 - Optional Fill Site
 - Use of P25 Standards-based ISSI



Coverage

Coverage Testing Requirements

- Outdoor - Drive Test
- Global In-Building - Attenuated Drive Test
- Mandatory Buildings - DAQ Voice Test
- Desired Buildings - DAQ Voice Test*
- DAQ Voice Test Methodology (§3.7.7.4)

*Any Desired Buildings (see §3.7.4) that have been treated as an exercised option through this procurement shall fully comply with the coverage and testing requirements for Mandatory Buildings.

System Protection Features

- Redundant Control Equipment
- RF Channel Fault Detection
- Status Alarms & Reporting
- Interference Protection
- System Failure Modes
- UPS or DC Power Plants
- Generator Power (County-Provided)
- Dispatch Backup Control Stations
- Ring Design Microwave Backhaul



Backhaul System

- Licensed Microwave
- Loop / Ring Protected Design
- Dispatch Center must be part of the Loop Design
- Fiber backup - available at some or all of the primary sites and at Dispatch Center
- See RFP §3.17, §4.7-4.9 for Microwave details and technical specifications
- Reliability - 99.999% (five 9's)
- MPLS or SD-WAN technology required

Sites

List of Sites Provided in RFP (§3.8.2)

- Preferred & Candidates - Existing, Available & Greenfield

The final “site selection” is solely the responsibility of each Proposer.

- Coverage requirements must be met or exceeded!
- Proposer must guarantee coverage design
- Final Acceptance is contingent upon successful coverage testing

Site Improvements

- Not part of this RFP’s scope
- Separate RFP for Tower Infrastructure & Site Upgrades
- IMPORTANT DETAILS >>> Proposer will be required to provide specific requirements for each tower site included in their design
 - AC power, HVAC, grounding, tower height, antenna heights, tower loading, equipment space, generator, etc.



Spectrum & Capacity

- Proposals shall included a traffic analysis and a recommendation for the number of RF channels required
- Assumed 5 channels minimum
- Traffic analysis based on typical public safety usage patterns, the specified # of County users, and 25% user growth.
- Conduct all FCC licensing and coordination
 - 700/800 P25
 - Licensed Microwave Backhaul
- County will support the FCC licensing efforts, as needed

User Equipment / Subscribers

- Portables, Mobiles, Control Station Radios (CSR)
- Counts provided for each subscriber type
- Counts provided by Class designation
 - Portable (6 Classes)
 - Mobile (5 Classes)
 - CSR (2 Classes)

| Type | Class | QTY |
|-----------------|-------|-----|
| Portable | 1 | 64 |
| Portable | 2 | 104 |
| Portable | 3 | 1 |
| Portable | 4 | 8 |
| Portable | 5 | 180 |
| Portable | 6 | 1 |
| Mobile | 1 | 7 |
| Mobile | 2 | 1 |
| Mobile | 3 | 186 |
| Mobile | 4 | 4 |
| Mobile | 5 | 1 |
| Control Station | 1 | 1 |
| Control Station | 2 | 17 |

System Options

- **Additional Console Position (at Dispatch Center)**
- **Smartphone Gateway Equipment & User Licensees**
- **Additional P25 Users**
- **ISSI Connections (Equipment & Services)**
- **Fill Site - Simulcast Cell**
- **Fill Site - Lower Density Standalone**
- **P25 Data & GPS Location Mapping**
- **P25 Pagers**
- **Extended Maintenance & Support (Years 4-15)**
- **System Monitoring (Years 1-3 and Years 4-15)**

Acceptance

- Acceptance Requirements (RFP §5.6 & §5.10)
- System Installation Compliance
- Equipment Tests
- System Operational / Functional Performance Tests
- Coverage Verification Tests
- 30 Day Performance Test - Fully loaded, no major failures
- Punch List
- Training
- Documentation
- **PLEASE READ ACCEPTANCE REQUIREMENTS CAREFULLY!**

Answers to Submitted Questions (Preview)

- Q1. Can the County provide any structural information for the “planned” Pruitt Baptist site in Van referenced in section 3.8.2.2? **A1: No details available at this time. Greenfield currently. Proposed 190’ tower. Plans will include P25 requirements if the site is utilized.**
- Q2. Could the County provide floor plans (Preferably CAD or PDF format) for the mandatory buildings from Section 3.7.3? **A2: No floor plans are available. Responders can visit locations on their own. County can facilitate access if needed.**
- Q3. Section 3.19.5 Control Station Radios - This section mentions Fire Station Alerting. Is there a requirement for Fire Station Alerting integration? If yes, can you please provide details, quantities, and desired features for the Fire Station Alerting system? **A3: There is not a requirement for integration of existing Fire Station Alerting.**
- Q4. Section 3.4 references “Licensing for a minimum of 1000 users” and section 3.20.4 references “The system shall include licensing for a minimum of 1,500 P25 user radios”. Please clarify how many radio user licenses are required? **A4: 1500 P25 user licenses required.**
- Q5. Section 3.20.4 Additional Users Licenses - Are the additional subscriber radio licenses mentioned in Section 3.20.4 associated with the Smartphone Gateway in Section 3.20.3 or licenses for additional P25 users? **A5: The additional users are for the P25 radio system.**

Answers to Submitted Questions (Preview)

- Q6. In reference to the coverage, requirements for in-building are the following areas such as garage, tunnel, basements, etc. Included in those requirements? **A6: Tunnels, elevators and underground parking are not included. However, above ground parking garages, if applicable, are included.**
- Q7. Section 2.53 Detailed Design Review - Please clarify the design review requirements. Section 2.53 refers to section 3.21 which defines two design reviews, a Preliminary Design Review (PDR, due within 90 days) and a Final Design Review (FDR, timeline not specified). Is the Detailed Design Review meeting expected to be a presentation of the Preliminary Design Review? The County will provide review of the PDR within 14 days. When will the FDR meeting be required? **A7: The PDR can be combined with the FDR. Two separate Design Reviews are not required. The FDR shall be conducted no later than 90 days from execution of the purchase agreement.**
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Answers to Submitted Questions (Preview)

- Q9. Section 3.13.6 states that either AC or DC power may be used. However, section 4.3 (Base Station Equip.) states DC power only. Please clarify. **A9: UPS or DC power plants are allowed. Addendum forthcoming.**
- Q10. Section 3.17.2 Backhaul Configuration - This section mentions fiber that will be used as redundant backhaul. Can you please provide information on the type of fiber that will be used and a diagram of the connections? **A10: Fiber details are not currently known. For Greenfield site, the fiber has not been installed. Fiber details to be provided, when available, to the selected Vendor.**
- Q11. Section 3.19.6 Quantities and Pricing - Does the quantity of control stations listed in Table 7 of section 3.19.6 include the control stations for dispatch backup and interoperability? Or are these control stations in addition to the control stations needed for dispatch backup and interoperability? **A11: The quality of control stations listed in Table 7 of Section 3.19.6 are for users (fire stations) and do not include the control stations for Dispatch backup radios (Section 3.10.7) or the control stations for interoperability gateways (Section 3.15).**
- Q12. Section 1.6.4 Federal Grant Funds Requirements - Of the ARPA requirements in the bulleted list, which forms/certifications are required for the proposal submission and which forms/certifications will only be required if a contract is awarded?? **A12: All forms, except for Form 1295, must be submitted with your Proposal. Form 1295 is required for the awarded vendor at the time of contract execution.**

Forthcoming Addendums

- **Addendum “X” - Dispatch Center**
 - **Remove 27” LCD monitor for each console position
(County purchasing 6 new monitors per console position)**
 - **Remove Dispatch Center UPS / DC Power Plant
(County performing upgrades now to Dispatch Center)**
 - **Provide details on the new console furniture / provider**
 - **Provide Dispatch Center layout drawing**

- **Addendum “X” - Answers to Submitted Questions**
- **Deadline for Questions is Tuesday June 7, 2022**

Next Steps...

- Prepare answers to submitted questions
- Publish associated addendums
- Receive proposals
- Review and evaluate proposals
- Vendor presentations (short-listed firms)
- Best and Final Offers (BAFOs)
- Vendor selection
- Execute contract
- **Vendor immediately places order for Dispatch Infrastructure that will be purchased by VZC using the ETCOG grant funds!**



Questions?

Dispatch Center Tour

Van Zandt County Sheriff's Office

1220 West Dallas Street, Canton, Texas 75103

Meet outside
near the front door
and we will enter
the building
all together.

