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City of Memphis/Shelby County
RFP #27927
800 MHz P25 Public Safety Radio Network
Responses to Vendor Questions

RFP #27927
800 MHz P25 Public Safety Radio Network
Questions & Answers
Addendum #3

Question #	RFP Item	Question	Response
1	1.9 1.10.4.1 G 1.11.4 D	A conflict appears between these sections for whom is providing secure storage of equipment. Will the City/Council provide storage or the Vendor?	Section 1.10.4.1 G will be removed from the RFP to resolve any wording conflict.
2	1.3.2.A.1 3.5.C.2	Can the City provide a list of the buildings they require 20 dB coverage within or provide a map via shape file/polygon of the geographic areas within which they require 20 dB building coverage within?	Section 3.5.C.2 will be modified to provide clarity regarding the desired level of portable coverage.
3	8.A.1	How many Maintenance Technicians require training?	A total of 12
4	8.A.2	How many System Managers require training?	At least 6, no more than 12
5	8.A.3	How many Console Supervisors and Operators require training?	County: 7 Supervisors and 59 Dispatchers City: 18 Supervisors and 12 Senior Trainers
6	8.A.3	How many consoles will be dedicated for training?	This will be discussed with the selected vendor. Respondents should explain any related assumptions that drive their training offering. The option of respondents providing a temporary number of training consoles can also be included in your response.

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7	8.A.4 11.5	A conflict appears between these sections. Please confirm which specifications respondents should follow.	Section 8.A.4 does not speak to the method of training (individual, train-the-trainer, on-line) but rather describes training content that is required. The city does request that respondents include the cost to develop and coordinate an on-line training course for radio end users as an additional training option.
8	11.5 B.2	How many Train-the-Trainer students require Subscriber training?	The City will determine the number of students and the type of training selected after respondent training options and costs are reviewed. Please provide the required training offering information to include class sizes.
9	11.4.1.3.B	Can a definition of what a Type 1 radio is be provided? We interpret this to mean a Model 1 radio as defined in 11.4.1.C	A Type 1 radio is referring to a Model 1 radio as defined in 11.4.1.C
10	6.1F	What magnitude quake should be considered to address the "survivability" stipulation?	No specific magnitude quake information will be provided. Respondents should use industry best practices and relevant code requirements to determine a reasonable survivability standard.

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11	4.2.1.K.1	The RFP states "Microwave antennas shall be compatible with the radio frequency bands and conform to applicable FCC requirements. Solid parabolic-type, Category "A" antennas shall be used in accordance with FCC Part 101.115" A Category A antenna requirement is typically meant for transmitting antennas. In a space diverse antenna configuration where the diversity antenna is "recieve only", the usage of Category A for the recieve-only antenna is typically not required. Will Memphis/Shelby allow non-transmitting diversity antennas to be Category B?	Category A antennas will be required for all micro wave antenna's.
12	4.2.1.K.4	Will Memphis/Shelby allow for the re-use of existing dehydrators, waveguide and/or antennas?	No re-use of existing dehydrators, waveguide and/or antenna's is acceptable.
13	4.1.D	The RFP specifically calls out the need for the new microwave system to support both TDM and Ethernet because the existing two-way radio system operates with native T1 circuits. Is the hybrid microwave system required to support the T1s in a native manner as the current microwave system is doing today?	The hybrid system will be required to support native TDM traffic.

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<p style="text-align: center;">14</p>		<p>Microwave radios are available in “all indoor” as well as “split-mount” varieties. All indoor radios are designed to be directly mounted in 19” racks. Split-mount radios are designed to be placed with the antenna. All indoor radios are typically more expensive, but provide much easier accessibility when maintenance/troubleshooting is needed. All of the current microwave radios in the Memphis/Shelby network are mounted indoors. Are “all indoor” microwave radios preferred and/or required for this project?</p>	<p>All indoor radios are required. However, Respondents may propose an option for split-mount microwave radios at building locations. This additional information should be proposed with a listing of difference in equipment needed as well as difference in price.</p>
<p style="text-align: center;">15</p>	<p style="text-align: center;">4.2.1.H.1</p>	<p>The RFP states “The current microwave system is licensed as constructed in the 6 GHz spectrum block. It is anticipated that the current spectrum will be reused if the path points are unchanged in a Respondent’s system design.” Because the backhaul migration plan is very important, the project may benefit by the obtainment of new frequency pairs for paths that remain same. Is it acceptable to pursue new frequency pairs for paths that remain same?</p>	<p>Yes, it is acceptable to pursue new frequency pairs for paths.</p>
<p style="text-align: center;">16</p>		<p>During the site tours, reference was made to some paths that Memphis and Shelby would prefer configured as space-diverse (assuming they will be used in the proposed configuration). Can you please list paths that, if used, are preferred to be space-diverse based on your history with the current paths?</p>	<p>Proposers must determine which paths require space diversity to meet required performance.</p>

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17	1.2.G	How many of the 3,000 radios used by neighboring jurisdictions and other users within the county are currently used on Subsystem A? And how many on Subsystem B?	Almost all of the 3000 neighboring jurisdiction users are Public Safety radio users. Although these users primarily use Subsystem A, they are capable of using Subsystem B. In addition, there are twelve Event talk groups for mutual aid that are split equally between the two subsystems.
18	1.2.G	What percentage of the radios on A & B are Phase 1 and Phase 2 capable radios?	Approximately 80% of the radios are Phase 1 capable and approximately 5% of the radios are Phase 2 capable.
19	1.3.2.A.	Is the 95% portable coverage on street requirement for the simulcast system only or for the combined simulcast system + Locke multi-site?	The coverage requirements are for the combined coverage of the simulcast and the Locke site.
20	1.3.2.A.1 3.5.C.2	Is there a defined area where 20 dB in-building coverage is required? If so, please provide a GIS boundary in a standard format such as an ESRI Shapefile or KML. Or, do we only need to show where there is 20 dB coverage on the supplied coverage maps?	Section 3.5.C.2 will be modified to provide clarity regarding the desired level of portable coverage.
21	3.2.2.	For ISSI, please provide the number of interoperability talk paths required for each connected system. Should this ISSI pricing be included in the base price or as an option?	Respondents should propose a minimum of ten talk paths per connected system. Cost for additional capacity should be provided, also. This additional cost should include any hardware, software, and licensing required.

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22	3.1.E.3	<p>Should the system be GPS/AVL capable or will the new system use GPS/AVL data? If the new system will use GPS/AVL data, please describe where and how will the GPS/AVL data be used? If GPS coordinates are to be used, please provide trigger intervals for time and distance. Does Dispatch control the reporting rates? Do the GPS/AVL/location servers require equipment redundancy? What quantity or percentage of users will be reporting GPS information?</p>	<p>The system should be GPS and AVL capable and the cost of enabling these features on the system and radios should be included as an option.</p>
23	3.3.1	<p>Redundancy and Survivability: Please clarify what "high degree of redundancy" means so that vendors can propose a sufficient level of redundancy and survivability to meet the City's requirement. High level system redundancy such as geo-separated cores, multiple simulcast control points etc are understood. What is not clear: Are redundant routers and switches required for all network items (connections to sites, dispatch locations etc)?</p>	<p>Redundant site routers and switches are required in addition to redundant core elements.</p>
24	3.3.3	<p>Please provide the current channel combining scheme used at each site and indicate which channels (frequencies) are currently on Subsystem A and which on Subsystem B. Additionally, please indicate which two channels are being moved from Subsystem A to Subsystem B as currently Subsystem A has 22 channels and will have 20 in the new system.</p>	<p>Please contact Eric Mayse from Procurement to request this information.</p>

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25	3.5.1.E	Showing DAQ 2.0 On Maps: While the definition for DAQ 2.0 audio quality is included in TSB-88.1D Table 3, there are no informative CPC parameters listed in TSB-88.1D Table A.1 for DAQ 2.0 audio quality in a faded environment. Can DAQ 3.0 be shown on the map instead? If DAQ 2.0 is required we propose applicants use 14 dB of faded carrier to interference plus noise for DAQ 2.0 for P25 Phase 2 downlink; and 16.3 dB of faded carrier to interference plus noise for DAQ 2.0 for P25 Phase 2 uplink.	3.5.1.E will be amended to change DAQ 2.0 to DAQ 3.0
26	3.7.5.A.3	How is the 700 MHz TACN system currently integrated? What level of integration is necessary with the new system? How many talkpaths does the TACN system have that need to be integrated?	There is currently one(1) control station on the TACN that is patched to a talkgroup on the Memphis/Shelby system.
27	3.7.7	For sizing the new logging recorders, Please provide the number of 911 and administrative lines that need to be recorded by each entity (Shelby County Fire, Shelby Sheriff's Office, Memphis Fire, Memphis Police and Office of Emergency Management). Please list any other entities that require 911 or administrative line recording and the number of lines to be recorded.	Information will be provided in the RFP addendum that provides revised language for Section 3.7.7.
28	3.7.8.1	For the personal computers at the dispatch operator positions, are redundant NICs necessary? (Network Interface Cards)	Redundant NICs are required.

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29	4.1.E	In order to design the microwave system to support the legacy radio system, please provide the existing microwave's T1 channel plan.	Please contact Eric Mayse from Procurement to request this information.
30	9.2	Please clarify the services required under the 'extended warranty' .	All services that are provided under the initial warranty should be included in the extended warranty offering.
31	9.3.1	If the City and County plan to supplement maintenance, please clarify which specific services are requested and to be priced.	The City and County desire the opportunity to review what a vendor provided maintenance option would include and cost. Respondents should include enough detail so that the City could consider selected vendor services and offerings.
32	9.3.1 C	Please clarify the need for various lists of maintenance plans as the RFP indicates that the City of Memphis and Shelby County will be self-maintained.	The City and County desire the opportunity to review what a vendor provided maintenance option would include and cost.
33	9.6	Please provide more detail regarding the 15-year cost of ownership requirement to provide vendors with the customer's vision and expectations? As written, this requirement is open to interpretation.	The City and County desire to review what the vendors anticipate these costs would normally be based on vendor experience with similar systems.
34	9.6	Please provide the evaluation criteria for the 15-year cost of ownership requirement?	Evaluation elements will include the amount of completeness and detail in the response and the reasonableness of cost estimates. Respondent experience and recommendations as to what costs would be likely over a 15 year life cycle will be reviewed and compared.

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35	11.4	For the radios in each jurisdiction, please clarify if the following radio features are "radio-capable" (radio could add this feature later for a fee) or "radio-enabled" (radio delivered with this feature licensed On) : GPS, Wi-Fi and data.	The radios should be data enabled, and GPS and Wi-Fi capable, with those features optionally priced.
36	11.4.3.1	Memphis Control Stations: Please specify the location, configuration and quantity of control stations for Memphis dispatch locations (in a similar fashion to the Shelby County list in the RFP).	<p>Section 11.4.3.1 is referring to Memphis consolettes. Specific location information for Memphis consolettes will be provided the successful respondent. The configuration information provided in section 11.4.3.1 can be assumed for all Memphis consolettes.</p> <p>There are nine locations with one(1) consolette each, five locations with two(2) consolettes each, two locations with three(3) consolettes each, one location with four(4) consolettes, and one location with six(6) consolettes. In addition, the radio shop has two(2) consolettes for monitoring and seven(7) for spares.</p>
37	Appendix C	Please provide the existing antenna types, heights and azimuths.	A new table containing the information that we have regarding antenna's will be provided as additional information for Appendix C of the RFP.
38	Fire Alerting (not a section in RFP)	Do the city and county require that their existing FSA system be integrated with the new P25 system? If so, please provide additional information about the functionality of the existing FSA system and the names and addresses of the fire stations that receive alerting.	The RFP will be amended by adding Section 3.7.5.D to request information on how proposers will interface their console offering with the existing Location Fire Alerting systems.