



**State of Oklahoma
Department of Central Services
Central Purchasing**

Amendment of Solicitation

Date of Issuance: 11/15/2011

Solicitation No. ITSW004 Connect Oklahoma

Requisition No. _____

Amendment No. One

Hour and date specified for receipt of offers is changed: No Yes, to: 12/08/2011 3.00 PM CST/CDT

Pursuant to OAC 580:15-4-5(c)(5), this document shall serve as official notice of amendment to the Solicitation identified above. Such notice is being provided to all suppliers to which the original solicitation was sent.

Suppliers submitting bids or quotations shall acknowledge receipt of this solicitation amendment prior to the hour and date specified in the solicitation as follows:

- (1) Sign and return a copy of this amendment with the solicitation response being submitted; or,
- (2) If the supplier has already submitted a response, this acknowledgement must be signed and returned prior to the solicitation deadline. All amendment acknowledgements submitted separately shall have the solicitation number and bid opening date printed clearly on the front of the envelope.

ISSUED BY and RETURN TO:

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Description of Amendment:

a. This is to incorporate the following:

ITSW004 Connect Oklahoma

Questions and Answers

- 1. Page 18 C.1.1 What are the applicable NIST standards?

Answer: The NIST standards include all of the standards and testing for the Public Safety 700 MHz Broadband Network by the Public Safety Communications Research lab at NIST.

- 2. Page 18 C.1.1 Please provide specific FCC references for interoperability and functional requirements for which the State requires compliance.

Answer: FCC DA-10-2342 and DA-10-923A1

b. All other terms and conditions remain unchanged.

Supplier Company Name (**PRINT**) _____
Date

Authorized Representative Name (**PRINT**) _____
Authorized Representative Signature

Description of Amendment - continuing

3. Page18 C.2 In section C2 it is stated that 'Public Safety entities will always have priority over commercial network customers'. Is it the State's intention to offer data services to the public on this LTE deployment? A private system deployment using Band Class 14 700Mhz spectrum is only available to first responders and possibly secondary users involved with protection of life and property, and is not intended for general consumer access.

Answer: Current guidelines call for a shared wireless broadband network on the D Block portion of the spectrum.

4. Page18 C.2 Is it correct that the State intends the LTE network to support 31,704 subscribers on this network and grow to 51,000 over six years? Are all of these subscribers Public Safety agency users and other authorized users for the Band Class 14 700Mhz private spectrum? Does the state have a distribution of these subscribers across the state? Roughly how many of these users primarily vehicle-based, or portable users requiring some sort of handheld or USB style modem?

Answer: The number of users is based on existing users and projections in the State of Oklahoma's legacy Public Safety LMR radio system. The majority of the users are located in the Oklahoma City – Tulsa I-44 corridor.

5. Page19 C.2.2 Does the State want respondents to quote 24x7x365 support? Are primarily vehicle based?

Answer: The State is requiring 24x7x365 support.

6. Page23 D.4.f We interpret that the State is looking for 95% LTE coverage of the total state geographical footprint, and also 95% coverage reliability within this 95% of the state's total area. Is this correct?

Answer: D.4.f is seeking 95% of the total state geographical footprint. Area coverage reliability should be based on the FCC minimum coverage requirements as detailed in DA-10-2342.

7. Page 23D4.f Is the state interested in phased implementation for specific areas, or vehicle/portable scenarios? If so, can you please describe specific design requirements for Phase 1? Geographic boundaries? Priorities? Expected user count and tower locations? What time frame do you anticipate implementation of this phase.

Answer: The State is asking for a phased buildout. The initial phase will consist of the Core, NOC and the infrastructure to provide service to the Oklahoma City – Tulsa I-44 corridor. Design requirements for Phase 1 must meet the requirement set forth in the RFP. The nature of Phase 1 requires the entire phase to be a high priority. It is anticipated that Phase will provide service to 80% of the total system users. Existing tower sites can be found in attachment 1. The Phase 1 should be completed in year 1 of the project.

8. Page 23D4.f Can the vendor foresee to use antenna gains and cable losses allowing for solution flexibility to minimize cost and meet specific vehicle use case scenarios?

Answer: Yes.

9. Page 25D.7.4 Why are various types of TDM synchronization required to be supported? If so, what are they?

Answer: The network will be used to support the States legacy LMR radio networks and various other TDM based services that are currently in use.

10. Page 25D.7 Can the State provide specific interface, performance or reliability requirements?

Answer: The State is asking, in D.7, for examples of MPLS network deployments from the Respondents. Examples of interfaces must be provided by the Respondent. Performance and reliability must meet Public Safety Mission Critical standards.

11. Page 28D.9.4 Is a billing solution required by the State? Prepay? At agency or user level?

Answer: Yes. Prepay may be an option. The billing solution must be able to provide a master bill to the agency or jurisdiction that can provide a level of detail that includes the work unit and the individual user.

Description of Amendment - continuing

12. Page 28D.9 Is there a requirement that the LTE O&M solution be integrated with the Project 25 O&M solution?

Answer: This RFP is intended for the LTE O&M. However Respondents may address benefits of integrating the States legacy radio system O&M as part of this offering.

13. Page 28D.9.5 a Please describe how the State will define "Virtual Network Operator" and what that role means in the context of overall O&M, device management and provisioning, etc.

Answer: They State will offer services to agencies or jurisdictions that do not have ownership in the network. As an example, a jurisdiction may be the provider of service within its geographical area and wish to provide and resale service to its end users without owning the network. The context is to determine how individual jurisdictions or "user groups" subscriber data can be partitioned.

14. Page28 D.9.5 a How is this partitioning intended to be accomplished - accessed via authenticated roles, VPNs, server partitioning?

Answer: Partitioning will be accomplished by the methods defined by the 700 MHz Public Safety Broadband Task Force, NIST and the FCC.

15. Page28 D.9.5 Describe the extent of the required provisioning - subscriber provisioning on the network, provisioning of applications - and if so, which applications?

Answer: The subscriber provisioning must provide support for multiple agencies and jurisdictions each with a unique mission. The minimum applications should be those defined by the 700 MHz Public Safety Broadband Task Force.

16. Page31 D.12.1 a Please define what is meant by "mobility or public safety application subsystem" and in what way they are to be "fully integrated".

Answer: This is the architectural framework for delivering application services to the user. This section of the RFP is not defining in what way they are to be "fully integrated".

17. The State has not received a FCC waiver to use the 700 MHz spectrum to deploy this LTE system. How does the State plan to get this waiver or deploy without one?

Answer: The State has been communicating with the FCC and PSST about its intentions and is actively working to secure the waiver.

18. Is it planned to utilize commercial level PTT voice operation (LTE Release 10) for mission critical Public Safety communications to replace current Public Safety LMR systems?

Answer: Not at this time however as devices are devolped it may be a future consideration.

19. During the formal Mississippi RFP process, 3 months was provided by the customer to create a statewide LTE proposal. Motorola anticipates State of Oklahoma's system design to be larger and require at least the same preparation time if not more. To provide a more accurate expected project cost, would the State be willing to extend the RFP deadline by at least 3 months?

Answer: No. The closing date has been extended to 12/08/2011.

20. Please provide additional information on how the proposals will be evaluated. Points/Percentages? How will technical advantages be compared to price? Will public safety organizations such as the State Police be involved in the final evaluations?

Answer: The proposals will be evaluated on the best value to the State. The members or make of the selection committee cannot be released at this time.

21. Has there been a formal vendor kickoff meeting? If not, will there be?

Answer: No. No.

22. Can you provide a list of tower sites owned by the State or public entities that the State would prefer to use?

Description of Amendment - continuing

Answer: See attachment 1

23. Is Homeland Security or BTOP Grant funding going to be used for this project? If yes, please provide your grant application.

Answer: The State has not applied for a grant(s) for the funding of this project. However the State may apply for grants in the future to provide funding for this project.

24. Has the state of Oklahoma received approval from the FCC for spectrum usage? Please provide copy of waiver.

Answer: The State has been communicating with the FCC and PSST about its intentions and is actively working to secure the waiver.

25. Does the State expect to apply for Federal funding to assist with paying for this project? If so will it be ARRA/BTOP funds?

Answer: The State has not applied for a grant(s) for the funding of this project. However the State may apply for grants in the future to provide funding for this project.

26. What are the current cities/locations of the 80 existing towers that may be replaced?

Answer: The 80 existing towers that may need to be replaced are located throughout Oklahoma. See Attachment 1. Whether a tower needs replacing will be determined by the state and the contractor.

27. Section D.17 Cost reduction - requests "detailed information identifying Cost Reduction opportunities for State." What are current State expenses incurred to keep current radio/microwave network operational, tower expenses, backhaul connectivity and personnel?

Answer: It is estimated that current operating cost of the States legacy radio networks is \$2,814,140.59.

28. Section D.16 Revenue Creation - What conceptual ideas does the state believe are options?

Answer: The State will consider all conceptual ideas for revenue creation.

29. What is your definition of co-sourcing?

Answer: A strategic collaboration on the development of the Connect Oklahoma network.

30. What is the State's intent for usage of this LTE network for non public safety agencies? Will the state move all state mobility devices to this network? Will all public safety responders statewide be on this LTE network? (Section C.2.1. 1)

Answer: At this time the FCC stipulates that the Public Safety 700 MHz Broadband LTE network is for the use of first responders. The FCC is currently considering the addition of secondary responder. The State will make a determination to allow additional user classes as the FCC rules allow.

31. What are the locations of the current LMR network towers? What is the configuration of the LMR network? What capacity does it have today? Will this network merge with the LTE network? (Section C2.2. 3)

Answer: For locations see attachment 1. There are 2 legacy LMR networks, both are TDM based, one is networked to a single switch the second uses a distributed architecture with a switch at each site. The existing legacy LMR networks will be required to interface with the LTE network.

32. In section D.1 - what does EPC charge mean?

Answer: There is not a reference to "EPC charge" in section D.1

33. Due to engineering requirements and the detail requested for this very complex RFP, also the holiday that is embedded in the current time to respond, will an extension of 6 weeks be granted, with a due date of January 14, 2012?

Answer: The closing date has been extended to 12/08/2011.

34. Does the State plan to move all data and voice communications to the LTE network?

Description of Amendment - continuing

Answer: The State will consider proposals to do so.

35. Does the State plan to use OneNet for the LTE network backhaul?

Answer: The State plans to leverage all State owned infrastructure.

36. Does the State plan to use OCAN for the LTE network backhaul?

Answer: The State plans to leverage all State owned infrastructure.

37. What is the state's expectation for a sustainability plan for the LTE network? How will outdated/EOL hardware/software be replaced?

Answer: The State would like to see the LTE network fully sustainable with a plan to replace outdated and EOL hardware and software.

38. Are there state facilities available to house a NOC? If yes, will the state provided space be for a fee? If so, how much?

Answer: Yes, space and fee would be negotiated.