

June 14, 2016

Mr. Erik Viel Director, Radio Services Milwaukee County Office of Emergency Management Milwaukee County Courthouse, Room 308 901 N 9th St, Milwaukee, WI 53233

RE: Amendment No. 1 to Project Scope and Quotation for Milwaukee County OASIS Public Safety Radio System (Project WO614) Project Management Services

Director Viel,

As the individual authorized to contractually obligate and negotiate for CDX Wireless, I am pleased to present this Amendment No. 1 to our previously contracted project scope and quotation for project management services for the OASIS Public Safety Radio System (Project WO614).

If you have any questions please feel free to contact me through the contact information listed below. Respectfully,

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1 Project Staffing

There are no changes to the previously agreed-to Staffing Plan for this project.

2 Place of Performance

There are no changes to the previously agreed-to Place of Performance for this project.

3 Scope of Work

3.1 Background

The implementation of OASIS and the transition of user agencies to it has been delayed due to unforeseen events outside the control of Milwaukee County and CDX Wireless and CDX Wireless has assumed additional project-related responsibilities beyond those included in the original Scope of Work and Professional Services Contract. The accompanying term of the Professional Services Contract to which this Scope of Work is appended will be changed to end on December 31, 2016.

Therefore, CDX Wireless offers this amended Scope of Work to accommodate a prolonged project implementation schedule of 5 months and to define responsibilities for tasks that were not covered by the original Scope of Work.

Additional labor hours will be added to the previously agreed-to quantities for the following tasks. The original and additional quantities of labor hours for these tasks are listed in Section 4.1, below, and the justification for the additional hours are included directly below.

- Project Administration
 - Additional hours are needed to accommodate additional 5 months of contract term, however, there is no change in the expected activities and responsibilities of CDX Wireless.
- Governance Development and Maintenance
 - Additional hours are needed to accommodate additional 5 months of contract term, however, there is no change in the expected activities and responsibilities of CDX Wireless.
- Outreach Development and Delivery
 - Additional hours are needed to accommodate additional 5 months of contract term, however, there is no change in the expected activities and responsibilities of CDX Wireless.
- Fleetmap
 - Additional hours needed to accommodate CDX Wireless' leadership, not support, role in completing this task.
- Civil Work Site Development
 - Additional hours needed to accommodate change orders that were executed between Milwaukee County and the system vendor, Motorola Solutions, Inc., which therefore increased the overall scope of civil work at sites. There is no change in the expected activities and responsibilities of CDX Wireless.
- Cutover



 Additional hours are needed to accommodate additional 5 months of contract term, however, there is no change in the expected activities and responsibilities of CDX Wireless.

The following tasks new tasks will be added to the Scope of Work. The quantities of labor hours for these tasks are also listed in Section 4.1, below, and descriptions of the activities and responsibilities of CDX Wireless along with the expected activities and responsibilities of Milwaukee County and Motorola are included in the table that immediately follows the list of new tasks.

- Project Financial Tracking
- MCTS Project Management (previously listed as "Optional")
- In-Building Coverage Enhancements
- ISSI Planning and Implementation
- User Agency Programming Template Review

Project Task	Activities & Responsibilities	Activities & Responsibilities	Activities & Responsibilities
	of CDX Wireless	of Motorola	of Milwaukee County
Tracking	Prepare and provide monthly project financial reports to include details and summaries of project funds spent and encumbered as well as a spend-plan for the remaining available funds.	n/a	Provide financial data ("CapFin") to support tracking. Arrange for monthly review meetings. Identify cash and bond expenditures. Open Purchase Orders and pay invoices to vendors.



Project Task	Activities & Responsibilities of CDX Wireless	Activities & Responsibilities of Motorola	Activities & Responsibilities of Milwaukee County
Fleetmap	Gather required contents for a fleetmap from Motorola. Assemble draft of fleetmap to include: • List of talkgroups • Naming conventions • Talkgroup ID plan • Talkgroup system parameters • Radio ID plan • Subscriber talkgroup layout • Subscriber programming parameters • Other items necessary to configure system and subscribers Assist the County in arranging meetings with user agencies to review and edit the contracts of the draft fleetmap. Participate in those meetings. Finalized fleetmap contents and share with Motorola and subscriber-programming organizations (shops).	Identify the required contents of a fleetmap. Provide technical information to Milwaukee County and CDX Wireless, in order to assemble draft of fleetmap to include: • List of talkgroups • Naming conventions • Talkgroup ID plan • Talkgroup system parameters • Radio ID plan • Subscriber talkgroup layout • Subscriber programming parameters • Other items necessary to configure system and subscribers Review final fleetmap contents. Use fleetmap results to program system.	Provide assistance to assemble draft of fleetmap to include: • List of talkgroups • Naming conventions • Talkgroup ID plan • Talkgroup system parameters • Radio ID plan • Subscriber talkgroup layout • Subscriber programming parameters • Other items necessary to configure system and subscribers Arrange for meetings with user agencies to review and edit the contracts of the draft fleetmap. Review finalized fleetmap contents
Installation: Antennas/Line	As necessary, observe installation of antennas and lines. Review completion of Motorola's tasks regarding Antenna and Line Installation and provide comments to Milwaukee County.	Install antennas and lines as contracted (see Statement of Work from Contract for Service #1332 for site-by-site details).	Ensure Motorola has access to sites. Observe installation of antennas and lines. Approve completion of Motorola's tasks regarding Antenna and Line Installation.



Project Task	Activities & Responsibilities of CDX Wireless	Activities & Responsibilities of Motorola	Activities & Responsibilities of Milwaukee County
MCTS Deployment Coordination	Assist MCTS in the integration of MCTS' computer aided dispatch (CAD), new dispatch consoles, and in-bus integrated vehicle logic unit (IVLU) equipment to the new OASIS radio system. Assist MCTS with the logistics and provision of buses for programming, upgrades, and installations of software or hardware to operate on the new OASIS radio system.	Provide technical assistance as needed to integrate MCTS' computer aided dispatch (CAD) and in-bus integrated vehicle logic unit (IVLU) equipment to the new OASIS radio system. Deliver voice logging system, dispatch consoles, and radio upgrades as contracted.	Contract with the vendors of MCTS' computer aided dispatch (CAD) and in-bus integrated vehicle logic unit (IVLU) equipment for the necessary hardware, software, and services to interface to the new OASIS radio system. Manage the integration of those vendors and coordinate the logistics regarding the deployment of new equipment and software.
In Building Coverage Enhancements	Assist County in the evaluation of coverage issues in buildings, in the development of solutions for those issues, and in the oversight of the implementation of those solutions	Provide quotations and, if approved and executed, solutions for identified in- building coverage issues.	Cooperate with CDX Wireless and Motorola on these activities to jointly identify issues, develop solutions, and oversee implementation.
ISSI Planning and Implementation	Work with representatives of County, other user agencies of OASIS, and agencies that own/operate radio systems to which OASIS will interconnect via Inter RF SubSystem Interface. Assist the County in the preparation of ISSI interconnections plans and agreements to establish technical and operational plans for intersystem connections.	Provide guidance on ISSI technical and operational issues. Deliver ISSI functionality as contracted.	Cooperate with CDX Wireless and Motorola on these activities to prepare and execute ISSI Implementation Plans.
User Agency Programming Template Review	Work with representatives of OASIS user agencies and with the organizations that create and program their user-radio templates. Help all parties identify and resolve programming issues.	Provide guidance on subscriber programming options and related technical details to CDX Wireless, programming organizations, and Milwaukee County.	Cooperate with CDX Wireless to help agencies and programming organizations identify and resolve such issues.



3.2 Term and Schedule of Work

The work to be completed as described in this Addendum will be completed by March 31, 2017. The following graphic summarizes the expected schedule for the OASIS public safety radio system project.

Task	May 2016	Jun 2016	Jul 2016	Aug 2016	Sep 2016	Oct 2016	Nov 2016	Dec 2016	Jan 2017	Feb 2017	Mar 2017
Configure & Optimize Subsystem & Shared Core											
Test Subsystem & Shared Core											
Train Users (Radio & Dispatch Console Users)											
Prepare Dispatch Centers for Transition											
Transition County & Municipal Dispatch Centers											
Program and Prepare User Radios for Migration											
Begin OASIS Operation for Users				\star							
User Radio Migration											
Evaluate In-Building Coverage Enhancements											
Configure and Test ISSI											
Decommission and Remove Existing System											



4 Price Quotation

4.1 Quotation Basis

The following Amended price quotation is based on the provision of staffing according to the Project Staffing, Place of Performance, and Scope of Work (including Schedule of Work) as described above. Work Breakdown and Labor Quotation

CDX Wireless has developed the following work breakdown to list the total number of hours of labor required to complete the Scope of Work described above. These quantities of hours of labor, and the corresponding labor costs, are quoted as not-to-exceed amounts. CDX Wireless shall invoice Milwaukee County, and Milwaukee County shall pay CDX Wireless, only for those hours actually expended by CDX Wireless. CDX Wireless shall not invoice Milwaukee County, and Milwaukee County shall not pay CDX Wireless, for hours of labor beyond those listed in the following work breakdown unless both parties agree to revise the work breakdown based on a change to the required level of staffing, the scope of project tasks, or the duration of the project schedule that has occurred for reasons outside of the control of CDX Wireless. CDX Wireless shall not invoice Milwaukee County, and Milwaukee County shall not pay CDX Wireless. CDX Wireless shall not invoice Milwaukee County, and Milwaukee County shall not pay CDX Wireless.

The following work breakdown and price quotation is exclusive of those tasks identified as "Optional".

Project Task	# of Labor Hours in Original SoW	# of Labor Hours in This Amendment	Total Number of Labor Hours	Cost Per Hour	Total Cost for All Labor (Original and Additional)
Project Administration	224 hours	80 hours	304 hours	\$135.00	\$41,040
Governance Development & Maintenance	112 hours	40 hours	152 hours	\$135.00	\$20,520
Outreach Development & Delivery	112 hours	40 hours	152 hours	\$135.00	\$20,520
Site Acquisition	24 hours	0 hours	24 hours	\$135.00	\$3,240
Licensing	n/a	n/a	n/a	\$135.00	\$0
Fleetmap	40 hours	40 hours	80 hours	\$135.00	\$10,800
Subscriber Flash Inventory	40 hours	0 hours	40 hours	\$135.00	\$5,400
Civil Work Site Development	16 hours	16 hours	32 hours	\$135.00	\$4,320



Project Task	# of Labor Hours in Original SoW	# of Labor Hours in This Amendment	Total Number of Labor Hours	Cost Per Hour	Total Cost for All Labor (Original and Additional)
Installation: Antennas/Line	16 hours	0 hours	16 hours	\$135.00	\$2,160
Installation: Fixed Network Equipment	16 hours	0 hours	16 hours	\$135.00	\$2,160
Console Installation – For County Departments ¹	64 hours	0 hours	64 hours	\$135.00	\$8,640
Console Installation – For Municipal Agencies	40 hours	0 hours	40 hours	\$135.00	\$5,400
Control Station Installation	8 hours	0 hours	8 hours	\$135.00	\$1,080
System Optimization	32 hours	0 hours	32 hours	\$135.00	\$4,320
Training	64 hours	0 hours	64 hours	\$135.00	\$8,640
Site Audit	16 hours	0 hours	16 hours	\$135.00	\$2,160
Acceptance Testing: Functional	64 hours	0 hours	64 hours	\$135.00	\$8,640
Acceptance Testing: Coverage	80 hours	0 hours	80 hours	\$135.00	\$10,800
Cutover	96 hours	90 hours	186 hours	\$135.00	\$25,110
Finalize	16 hours	0 hours	16 hours	\$135.00	\$2,160
Project Financial Tracking	0 hours	40 hours	40 hours	\$135.00	\$5,400
In-Building Coverage Enhancements	0 hours	24 hours	24 hours	\$135.00	\$3,240
MCTS Implementation Assistance	0 hours	64 hours	64 hours	\$135.00	\$8,640
ISSI Planning and Implementation	0 hours	24 hours	24 hours	\$135.00	\$3,240

¹ This scope of work is only inclusive of Motorola-provided voice dispatch consoles to the Milwaukee County 9-1-1 Center, the Milwaukee County Emergency Medical Service Telecommunicator's Center, and the Milwaukee County Transit System's (MCTS') Dispatch Center.



Project Task	# of Labor Hours in Original SoW	# of Labor Total Hours in Number of This Labor Amendment Hours		Cost Per Hour	Total Cost for All Labor (Original and Additional)
User Agency Programming Template Review	00 Hours	20 Hours	20 Hours	\$135.00	\$2,700
Labor Total	1,080 hours	478 hours	1,558 hours	\$135.00	\$210,330

4.2 Travel and Other Expenses

The original not-to-exceed amount of \$22,400 for out-of-pocket expenses, including travel and other approved costs, shall be increased by an amount of \$8,000 to a total not-to-exceed amount of \$30,400.

4.3 Amendment Price Total

As shown in the following table, the increase in labor costs of \$64,530.00 (for 478 hours at rate of \$135.00 per hour) and not-to-exceed expense costs of \$8,000 equate to an Amendment total price of \$72,530.00 and bring the total contract value to a not-to-exceed amount of \$240,730.00.

	Hours	Rate	Labor Total	Expenses	Contract/Amendment Total (NTE)					
Original Contract										
Labor	1080	\$135	\$145,800		¢169.200					
Expenses				\$22,400	\$168,200					
Amendment #1	to Contract									
Labor	478	\$135	\$64,530		¢72 F20					
Expenses				\$8 <i>,</i> 000	\$72,530					
Total of Original and Amendment #1										
		Totals	\$210,330	\$30,400	\$240,730					