



CITY COUNCIL ACTION REPORT

Date: August 21, 2013

To: Brian Kischnick, City Manager

From: MaryBeth Murz, Purchasing Manager
Gert Paraskevin, Director of Information Technology
Gary G. Mayer, Chief of Police
William S. Nelson, Chief of Fire

Subject: Standard Purchasing Resolution 4 – Cooperative Contracts
REMC Purchasing Contract - Mobile Data Computers (MDC's)
GSA Purchasing Contract - Modems and Wireless Data Service

History

1. Mobile Data Computers (Police Department)

- On January 28, 2008 Troy City Council approved Resolution #2008-01-023-F-4a for the City of Troy Police Department to expend funds to purchase current Mobile Data Computers (MDC's).
- The City's MDC's use Oakland County - CLEMIS (Courts and Law Enforcement Management Information System); to access Computer Aided Dispatch (CAD), Records Management System (RMS), the Law Enforcement Information Network (LEIN), Michigan Secretary of State (SOS), and the National Crime Information Network (NCIC).
- Since 1997, officers have been doing more work in their vehicles such as writing computer-generated reports, receiving dispatched call for service through CAD, and accessing information such as drivers' license photos and arrest photos through CLEMIS. These enhancements have provided officers with more time in the field and required less time at the station.
- The current MDC's are outdated and are no longer supported through a Motorola warranty.
- CLEMIS conducted an evaluation of mobile workstations and has mandated that any new purchases of MDC's shall be Dell ATG laptops.

2. Mobile Data Computer Modems & Wireless Data Service

- CLEMIS has provided wireless data service for MDC's through AT & T for approximately the last 10 years.
- Troy Police officers have experienced sporadic, recurring connectivity issues with MDC's depending on their locations within the city.
- CLEMIS personnel have worked extensively with AT & T engineers in an attempt to resolve the connectivity issues - to no avail. Attempts to resolve issues have included engineering studies, software compatibility studies, and modem replacements.
- Troy Police officers participated in an extensive test of Verizon Wireless modems and wireless data service. The Verizon wireless modems and data service performed superbly when tested.



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- AT & T service was provided through CLEMIS participation fees at the cost of approximately \$37.00 per unit / per month. Through a data sharing plan, Verizon Wireless service will cost the City of Troy approximately \$27.00 per unit / per month; saving the City \$10.00 per month. CLEMIS has agreed to subtract the difference in costs from the City's quarterly CLEMIS participation fees.
- CLEMIS is supportive and has offered to assist the City in the migration from AT & T to Verizon Wireless.

3. Mobile Data Computers (Fire Department)

- The Troy Fire Department has had MDC's in 13 vehicles for the past 12 years in a standalone mode with no network connectivity when units are out of the fire stations.
- Verizon 4G connectivity through wireless modems is needed in six (6) of the fire engines, one assigned to each station, which will permit Fire Department laptop computers to access Fire Department and City databases while out of the fire stations.
- Wireless modems for the Fire Department will be equipped with an 802.11 interface allowing one Sierra modem to provide network connectivity for multiple computers at the same incident.

Purchasing

Pricing for this project was based on the following cooperative contracts:

- City staff is authorized to purchase goods and services through the Regional Education Media Center Association of Michigan (REMC) program when appropriate (Resolution #2002-10-548-E12). MDC's are eligible for purchase through the program, which are provided by Dell.
- On March 3, 2008 Troy City Council authorized the use of NIPA contracts (Resolution #2008-03-086-F-4c). Havis mounts are eligible for purchase through this program, which will be provided by CDW-G.
- In addition, on January 9, 2012 Troy City Council authorized the use of the GSA contract #GS-35F-0119p (Resolution #2012-01-003) when appropriate. Wireless service plans are eligible for purchase through the program, which is provided by Verizon.
- In July of 2012 a GSA contract was competitively bid by the US General Services Administration and awarded to DH Wireless, which included modems, routers, antennas and IT accessories. The modems, antennas and accessories are eligible for purchase through this contract provided by DH Wireless.
- The standard purchasing three quote process for items under \$10,000 will be used for miscellaneous accessories required for the install of the MDC's.

Financial Considerations

- Funds for purchasing forty (40) Mobile Data Computers (MDC's), mounting hardware, modems, accessories, and installation charges, to replace current Police Department MDC's are budgeted in the current FY 2013-2014 and are available in the Police Department Capital budget.
- Funds for Verizon Wireless service to support the MDC modems are available in the Police Department Operating budget.



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- Funds for purchasing 6 modems and wireless service for the Fire Department vehicles are available in the Fire Department Operating budget.

Recommendation

- City management and the Troy Police Department recommend the purchase of forty (40) MDC's, including modems, WLAN antennas, mounting hardware, and installation through the REMC cooperative contract with Dell, the NIPA contract with CDW-G and the GSA cooperative contract with DH Wireless for a total estimated cost of \$219,828.44.
- City management and the Troy Fire Department recommend the purchase of six (6) modems, antennas, mounting hardware and installation through the GSA cooperative contract with DH Wireless for an estimated cost of \$5,123.46.
- Costs for this project utilized the approved purchasing process and are outlined in Attachment A.



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ATTACHMENT A

Detailed Costs

Police Department:

Vendor	Contract	Item	QTY	Unit Price	#/Cars	Car Price	Total
DH Wireless Solutions	GSA	GX440 Modem	40	\$ 668.18	1	\$ 668.18	\$ 26,727.20
DH Wireless Solutions	GSA	Tri-Mode Antenna	80	\$ 93.85	2	\$ 187.70	\$ 7,508.00
DH Wireless Solutions		Modem Provisioning	35	\$ 28.00	1	\$ 28.00	\$ 980.00
DH Wireless Solutions		AirLink Devices Managed	40	\$ 12.00	1	\$ 12.00	\$ 480.00
DH Wireless Solutions		Modem Power Adapters	40	\$ 8.50	1	\$ 8.50	\$ 340.00
Dell	REMC	Dell E6430ATG	40	\$ 2,693.45	1	\$ 2,693.45	\$ 107,738.00
CDW-G	NIPA	Havis Mounts	40	\$ 969.00	1	\$ 969.00	\$ 38,760.00
TBD		Bluetooth Adapters	40	\$ 100.00	1	\$ 100.00	\$ 4,000.00
Motor Pool		Motor Pool Install MDCs	40	\$ 800.00	1	\$ 800.00	\$ 32,000.00
Tessco		Laird Tech. - 3/4" Hole Saw	2	\$ 73.33		\$ 3.67	\$ 146.66
Tessco		Replacement blades for above	2	\$ 94.29		\$ 4.71	\$ 188.58
Advanced Wireless		GPS Antenna Adapters AWT	40	\$ 24.00	1	\$ 24.00	\$ 960.00
		TOTAL				\$5,499.21	\$ 219,828.44

Fire Department:

Vendor	Contract	Item	Description	Quantity	Unit Price	Total Price
DH Wireless	GSA	Modem, Airlink	GX440 WiFi LTE/EVDO	6	\$751.81	\$4,510.86
		Antenna	SW Dipole (LTE) - SMA	12	\$22.50	\$270.00
		Antenna	SW WiFi 2.4GHz Dipole (RP) - SMA	6	\$17.10	\$102.60
		Modem Provisioning	Activation and Pre-Deployment Bench Testing Services	6	\$28.00	\$168.00
		AVMS	Airlink devices Managed 12 months	6	\$12.00	\$72.00
						\$5,123.46