

Rapid City Police Department
Memo

TO: CIP Committee
FROM: Karl Jegeris, Asst. Chief *KJ*
DATE: 3-20-14
SUBJECT: Funding Request – Public Safety Infrastructure

In 2008 we conducted a joint purchase of a state of the art in-car video system with the PCSO. The attached memo from Lt. Hedrick outlines the need to replace the server and access points at the recommendation of city IT staff. This is required infrastructure replacement to ensure the operability of this system in the future. We have made arrangements again to share the cost of this with the PCSO to ensure savings to both entities.

The request for funding from the CIP fund to cover the city's portion is \$17,262. Please see attached memo and quotes for further information.

I intend to be present at the April CIP Committee meeting on April 25th, 10:00am to answer any questions, and I am inviting IT to have a representative there also.

Rapid City Police Department
Memo

TO: Assistant Chief Jegeris

FROM: Don Hedrick

DATE: 2-21-14

SUBJECT: L3 Server and System

In February of 2013 Media Specialist Dave Stucke contacted me with concerns regarding our current L3 System (purchased in 2008). Through research with other agencies, Stucke identified that most L3 systems typically have a 5 year life expectancy. In 2013, Stucke's primary concern was the in-car cameras and DVRs as these were original and starting to fail (these units live a difficult life bouncing around in patrol cars, extreme temps, etc.). In 2013/2014 The RCPD purchased 9 new camera/DVR units to replace some of the original 27 in-car units (purchased in 2008) that were starting to fail. It should be noted these 9 cameras are the new upgraded version: Flashback 3. The 27 original cameras from 2008 were all Flashback 2. Stucke's memo is attached for further reference.

Shortly after identifying the problems with our system, Stucke left the department. His departure left a gap as he was previously the L3 "expert" for the RCPD and we were forced to reevaluate the responsibility involved with the maintenance of this highly technical system. Senior Officer Akers and Media Specialist Tim Appel are able to install the in-car systems but they are unable to fix issues with the server, access points (for downloading), replacing hard drives, etc. In 2013, City IT was contacted and agreed to assist with some of the more technical aspects of the system.

A continual complaint from the Patrol Division in 2013 was the slowing of video downloading speed. Officers coming into the station had to wait 45 minutes at times for their videos to download. This was a new problem and through investigation, City IT staff was able to determine two of the "access points" were no longer functioning. Access points are wireless systems that download videos from the cars and into our server. It was discovered there are currently 5 access points at the PSB:

- One on Kansas City Street on the outside of the jail annex sally port **(no longer functional)**
- One on the inside of the jail annex sally port
- One inside the jail law enforcement parking garage
- One on St. Joseph St. near the road where officers park **(functions sometimes)**
- One inside the St. Joseph St. sally port

To address the failing access points, the RCPD and PCSO jointly purchased two new access points in an effort to help assist with download speed. City IT is currently working on locating the best placement for these items.

Rapid City Police Department Memo

While becoming more involved with the L3 system, City IT has started to echo some of the statements made by Stucke last year. IT staff is concerned we are operating with a system that is outdated and well beyond the 5 year life expectancy. In 2013 Stucke advised we have replaced 10 of our 40 hard drives and he advised if were to have three hard drives go down at once we would lose data (also, these hard drives are out of warranty). Additionally, IT firmly believes that if the server were to crash, L3 would not fix it due to the age of the system. Furthermore, the L3 system has not received the continual maintenance that it requires to function properly; adding to the concern for the system. According to IT, the server will wear out at some point; it is just a matter of how soon. Lastly, IT was concerned about the way our current backup system is being maintained by the Evidence Section (apparently our current practice of backing up data on DVDs is outdated).

IT staff has advised we consider the following upgrades as this will make our system more efficient:

- Upgrade the server. This would include the backup system, installation, and onsite training: \$23,088.00
- Upgrade our access points to allow of more/faster downloads: \$11,436.00
- **Total: \$34,524.00 (or \$17,262.00 per agency)**

In working with L3, I learned the two upgrades (above) could be immediately installed without changing any of our in-car camera systems. Simply upgrading these two items could save us from problems down the road and increase our video download time. Another option does exist to upgrade our cameras, DVR, and antennas to the most current system. This will increase download time and it will need to be done someday; but it could be implemented in increments (for example, purchasing a few upgraded camera systems every year). If we wanted to immediately upgrade all RCPD/PCSO in-camera systems at once it would cost roughly: \$110,785.90 (or \$55,392.95 per agency).

The quotes above are based on upgrades given to us by L3 (see attached). Other videos systems do exist and this would be a good time to investigate other options. However, it should be noted that a different system might render our current camera systems useless as they would not be compatible. L3 advised they would be willing to send a rep out in March, 2014 if we wanted to meet with them to discuss all options further.



Mobile-Vision, Inc.

QUOTE

90 Fanny Rd, Boonton, NJ 07005
T. 800-336-8475 F. 973-257-3024

Number 31964247
Date February 18, 2014

Sold To

Rapid City Police Department

Tim Appel
300 Kansas City St.
Rapid City, SD 57701

Phone 605-390-7478
Fax 605-394-6854

Ship To

Rapid City Police Department

Tim Appel
300 Kansas City St.
Rapid City, SD 57701

Phone 605-390-7478
Fax 605-394-6854

Salesperson	P.O. Number	Ship Via	Terms
Jeff Parker		None	

Line	Qty	SKU	Description	Unit Price	Ext. Price	Comments
1	1	LSMVDR617	Server, Rack Rails, 17TB RAID 6 DASD, 8 Core Xeon Processors, 16GB RAM, DVM Server, Storage & Distribution System, Rack Configuration, Dual 2.4 GHz Quad Core Processors 16GB RAM, 17TB RAID 6 DASD Red Hat v5 Enterprise Linux OS/PostgreSql Database DVD-ROM, Monitor, Keyboard, Mouse, CF Card Reader 8 port 10/100/1000 Base T Switch	\$10,793.00	\$10,793.00	
2	1	LSMVDDVDBR2540	Rimage DVD Burner, w/two Blu-Ray Drives, with external "restore" drive and Media, 1 Year Rapid Exchange Warranty	\$8,495.00	\$8,495.00	
3	1	MVD-DES-BTO-EOL	Installation of Operating System and DES Application on End of Life Servers	\$750.00	\$750.00	
4	1	MVD-DET-BT1	1 Day On-Site Installation (full day of install and 2 hour quick training)	\$2,950.00	\$2,950.00	

End of Life Server Quotation.
Includes 100 disc capacity DVD/Blu Ray burner.

Signing below is in lieu of a formal Purchase Order.
Your signature will authorize acceptance of both pricing and product:

Signed: _____ Dated: _____

SubTotal	22,988.00
Tax	TBD
S&H	100.00
Total	23,088.00

L-3 Shipping Terms are FOB Boonton, NJ. By signing below you agree to waive your shipping terms and ship this order FOB Boonton, NJ.

Signed: _____ Dated: _____

Quotation is valid for 60 days from date issued. These commodities, technology or software were exported from the United States in accordance with the Export Administration regulations. Diversion contrary to US law is prohibited.
State/local Fees and Taxes are not included.



Mobile-Vision, Inc.

QUOTE

90 Fanny Rd, Boonton, NJ 07005
T. 800-336-8475 F. 973-257-3024

Number 99006992
Date February 18, 2014

Sold To

Rapid City Police Department
Gerri Johnston
129 Saint Joseph Street
Rapid City, SD 57701

Phone 605-716-1017
Fax 605-394-6854

Ship To

Rapid City Police Department
Gerri Johnston
129 Saint Joseph Street
Rapid City, SD 57701

Phone 605-716-1017
Fax 605-394-6854

Salesperson	P.O. Number	Ship Via	Terms
Mike Ries		None	

Line	Qty	SKU	Description	Unit Price	Ext. Price	Comments
1	3	MVD-AP-OUTDR-N	Assembly, Access Point, Outdoor 802.11n, 3 Radios w/10' cables, Arrestors & Antennas	\$3,197.00	\$9,591.00	
2	2	MVD-AP-N-US-6	Assembly, Access Point, Indoor, 802.11n, 1 Radio w/6' cable and Antenna	\$895.00	\$1,790.00	

Installation of wireless access points is not included on this quote but can be quoted should you request pricing.

Signing below is in lieu of a formal Purchase Order.
Your signature will authorize acceptance of both pricing and product:

Signed: _____ Dated: _____

SubTotal	11,381.00
Tax	TBD
S&H	55.00
Total	11,436.00

L-3 Shipping Terms are FOB Boonton, NJ. By signing below you agree to waive your shipping terms and ship this order FOB Boonton, NJ.

Signed: _____ Dated: _____

Quotation is valid for 60 days from date issued. These commodities, technology or software were exported from the United States in accordance with the Export Administration regulations. Diversion contrary to US law is prohibited.
State/Local Fees and Taxes are not included