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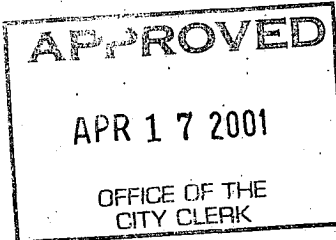
DEPARTMENT OF
POLICE

ARTURO VENEGAS, JR.
CHIEF OF POLICE

CITY OF SACRAMENTO
CALIFORNIA

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April 2, 2001



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City Council
Sacramento, California

Honorable Members In Session:

SUBJECT: Update on Police Automated Information System Project and Purchase of Mobile Data Computers

LOCATION AND COUNCIL DISTRICT:

City-wide.

STAFF RECOMMENDATION:

It is recommended that the City Council adopt the attached resolution authorizing the purchase of 210 Mobile Data Computers from Compaq Computer Corporation in the amount of \$1,738,742.

CONTACT PERSON:

Captain Scott LaCosse
Data Services Section, Police Department
(916) 264-7313

FOR COUNCIL MEETING OF: April 17, 2001

SUMMARY:

The City received a Federal Grant to assist in the replacement and upgrade of the Police Department's aging automated systems. This report is an update on the Police Department's progress to date, its implementation plan for this project, and a request to use Federal Grant Funds to replace failing Mobile Data Terminals with more capable Mobile Data Computers.

BACKGROUND:

Existing Systems

The Police Department's Computer Aided Dispatch (CAD), Records Management Systems (RMS) and Mobile Data Terminals (MDTs) were installed in the mid 1980s. These systems have

The mission of the Sacramento Police Department is to work in partnership with the Community to protect life and property; solve neighborhood problems, and enhance the quality of life in our City.

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served the Department well beyond their intended life span and are in need of replacement. The central processing equipment for RMS and CAD is no longer being manufactured, nor are replacement parts. The hardware vendor expects to be able to support this equipment for a few more years with its remaining stock of parts, but the software vendor has recommended moving to newer equipment. The size of the RMS database has exceeded its design capacity and frequent corrections are needed to prevent the loss of historical Police Department data.

The existing fleet of MDTs is in poor condition and replacements are no longer available either as new equipment, or as used equipment from other agencies that have upgraded their systems. MDTs are the mobile equivalent of "dumb" mainframe terminals, are an outdated technology and are being replaced by much more capable Mobile Data Computers. Inoperative MDTs cause police vehicles to be "deadlined", resulting in vehicle shortages for patrol. This situation will worsen as the MDTs continue to age.

Project History

Fortunately, the Police Department was awarded a COPS MORE grant for the implementation of a new Police Automated Information System. This project includes the replacement of the Department's existing automated systems, installation of a digital mug shot system and implementation of a "paperless" Mobile Report Entry (MRE) system that includes Automated Workflow and Case Management.

On accepting the grant funds, Council approved a resolution suspending formal competitive bidding for this project. Following an evaluation and selection process for a software vendor, Council approved a contract with Digital Equipment Corporation (now Compaq Computer Corporation) to assist the Police Department with an evaluation and load testing of the selected software vendors. It was determined that the first two software vendors selected were not prepared to adequately install a system of this complexity in an agency of this size. This time and effort was well spent in that it prevented the City from entering into an implementation contract for a large automated system with a problematic vendor.

Following the suspension of work with the second vendor, the Police Department re-examined the public safety software marketplace to determine if any significant changes had taken place while the evaluation efforts were underway. The City's Chief Information Officer, Sally Nagy, had received information regarding Versaterm, Inc. a Canadian software company that had begun installing systems for large police agencies in the U.S.

Police Department staff conducted phone and on-site interviews with several of Versaterm's U.S. and Canadian clients and found them to be extremely satisfied with the firm's products and services. Having seen the products installed and operating well in jurisdictions larger than Sacramento, and having found virtually no substantive complaints regarding the vendor, Police Department staff have a high level of confidence that Versaterm will be able to adequately provide

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the software and services needed to replace our current systems and satisfy the conditions of our Federal grant.

Implementation Plan

The Police Department plans to implement this project in phases. The project phases and their components are as follows:

Phase I - Evaluation of vendors, installation of mug shot system, installation of wireless data infrastructure, evaluation of in-car equipment including MDCs - expected completion 2nd quarter 2001

Phase II - Replacement of MDTs with MDCs - expected completion 4th quarter 2001

Phase III - Installation of new RMS, mobile report entry (MRE) system and Automated Work Flow and Case Management - expected completion 3rd quarter 2002

Phase IV - Installation of new CAD system - expected completion 1st quarter 2003

Phase I of the project is nearly complete. A digital mug shot system has been successfully installed and is saving significant staff time for both Patrol Officers and Detectives. Acceptance testing of the wireless data network is in progress, as are upgrades to the Department's traditional network infrastructure.

The first contract for Phase II is the purchase of the MDCs being requested in this report. The second, to be presented to Council in several weeks, is a contract with Versaterm to connect the new MDCs to our existing CAD system. Other smaller contracts for mounting equipment and installation of hardware will also be presented for Council's consideration. Assuming approval of these required contracts by June of this year, installation of all new MDCs and associated training should be complete by year's end. This approach will allow the MDCs to be introduced at a controlled rate, avoiding the need to change out the entire fleet at once.

An additional contract with Versaterm, for the balance of the software and services required for the project, will be presented to Council later in the year after experience has been gained with Versaterm through Phase II, and after outside legal review of the larger contract. Work on each successive phase will begin at completion of the preceding phase.

Project Benefits

The benefits of this project are more comprehensive than merely the replacement of failing equipment. Numerous components of the new system will increase the operational efficiency of Police Department staff in a more cost effective manner than could be realized by simply hiring additional staff. All authorized staff will have online access to all police reports from their desks.

or in their vehicles, eliminating the need for the massive duplication of paper documents that currently occurs. An automated workflow and case management system will make it possible for field officers to electronically route reports directly to their supervisors and then to RMS, where they will then be electronically routed to the appropriate investigative supervisor for assignment saving additional staff time. Officers will be able to retrieve color mug shot photos in their cars or at fixed terminals, making field identifications much more rapid and dependable. Previously, staff had to drive to the Police Annex building downtown to retrieve any mug shots. Thousands of staff hours have already been saved through the implementation of the mug shot system, additional time will be saved when the images are available from MDCs. Access to warrant information from terminals in the field will result in the elimination of waits associated with making warrant and records requests by voice radio to records clerks. The wait for a response to these requests can be as much as 15 minutes on busy shifts.

Staff estimates that a minimum of 2 hours per shift will be saved by patrol officers alone as a result of this system. This equates to a 20% increase in productivity or the addition of 49 patrol officers. Such an increase in patrol staff would normally cost \$3,360,000 annually, not including equipment and vehicles. Additional efficiencies will occur in other areas of the Department as well. These efficiencies will continue for the life of the system and their value will exceed the system's acquisition and maintenance costs.

The Police Department believes that time savings realized through the implementation of this system may enable staff reallocations in some areas of the agency. Unfortunately, no reallocations will be possible initially due to the increased workload associated with running both the old and new systems during transition, and due to the initial training required for the new system. Police Department staff will work with the CIO and Budget office to ensure any staffing adjustments are consistent with the City's IT Strategic Plan prior to their presentation to Council.

Mobile Data Computers

The MDCs the Police Department is requesting authorization to purchase have been thoroughly tested and represent the "state of the art" in PC based mobile data computers. Each unit has a touchscreen enabled display that will be mounted on the dashboard as close to eye level as possible. This will result in an enhanced level of safety as operator attention is not diverted down into the vehicle as is the case with the current MDTs. The equipment is manufactured to military specifications by the Litton Corporation, a defense contractor. Police Department staff field tested this equipment last summer and found it capable of tolerating outdoor temperatures in excess of 105 degrees which resulted in measured dashboard temperatures in excess of 160 degrees. These devices have been deployed by agencies throughout the State and country and are operating well. The equipment is manufactured in a non-proprietary fashion and can run any standard Windows based application, or be connected to any Windows compatible peripheral. Police Department staff also tested equipment from three competing vendors and found the competing units to be adversely affected by high temperatures, proprietary in their hardware

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components and inferior to the Litton in the quality of their displays.

FINANCIAL CONSIDERATIONS:

The purchase price for 210 Litton MDCs and associated in-car mounting equipment and sales tax is \$1,738,742. This purchase will be funded through the Police Departments' COPS MORE 96 grant.

ENVIRONMENTAL CONSIDERATIONS:

This proposal does not constitute a "project" and is therefore exempt from the California Environmental Quality Act according to CEQA guidelines Section 15061(b)(1) and 15378(b)(3).

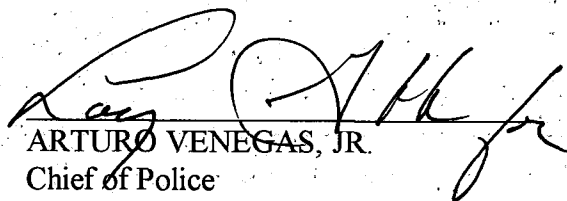
POLICY CONSIDERATIONS:

The recommendations in this report are consistent with the requirements of City Code Chapter 3.56 for the purchase of supplies and services and Chapter 3.64 for contracts for professional services. The City Council previously suspended formal competitive bidding (Resoulution No, 96-632) for the purchase of supplies and services to support the implementation of the Police Automated Information System Project.

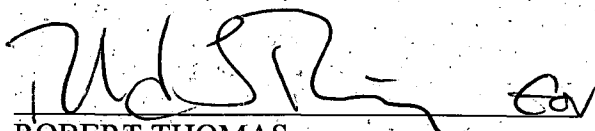
ESBD/SBE EFFORTS:

Neither Litton or Compaq qualify as ESBD/SBE vendors.

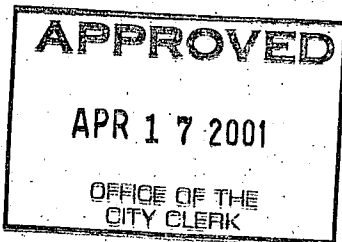
Respectfully Submitted,


ARTURO VENEGAS, JR.
Chief of Police

RECOMMENDATION APPROVED:


ROBERT THOMAS
City Manager

SL:gl
Ref 04-07



RESOLUTION NO. 2001-020

ADOPTED BY THE SACRAMENTO CITY COUNCIL

ON DATE OF _____

**RESOLUTION AUTHORIZING THE CITY MANAGER TO
PURCHASE LITTON MOBILE DATA COMPUTERS
FROM COMPAQ COMPUTER CORPORATION
IN THE AMOUNT OF \$1,738,742**

WHEREAS the Police Department was awarded a COPS MORE grant for the implementation of a new Police Automated Information System, which includes the replacement of the MDTs and

WHEREAS Council adopted Resolution no. 96-632, suspending formal competitive bidding for the establishment of contracts for supplies and services necessary for the implementation of the Automated Information System Project and

WHEREAS the Police Department has thoroughly tested Mobile Data Computers (MDC) from four competing vendors and found that the Litton Corporation's MDCs represent the best choice for Police Department requirements.

NOW THEREFORE, be it resolved by the City Council of the City of Sacramento that:

1. The City Council reaffirms Resolution No. 96-632 suspending formal competitive bidding for the establishment of contracts for supplies and services necessary for the implementation of the Automated Information System Project.
2. The City Manager, or a designated representative is hereby authorized to purchase 210 Litton MDCs and the associated in-car mounting equipment from Compaq Computer Corporation in the amount of \$1,738,742, and
3. The City Manager is hereby authorized to issue the necessary purchase order to Compaq Computer Corporation for current requirements consisting of the installation of the Litton Corporation MDCs.

ATTEST:

CITY CLERK

MAYOR

FOR CITY CLERK USE ONLY

RESOLUTION NO.: _____

DATE ADOPTED: _____

RESOLUTION NO.

ADOPTED BY THE SACRAMENTO CITY COUNCIL

ON DATE OF _____

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FOR CITY CLERK USE ONLY

RESOLUTION NO.: _____

DATE ADOPTED: _____

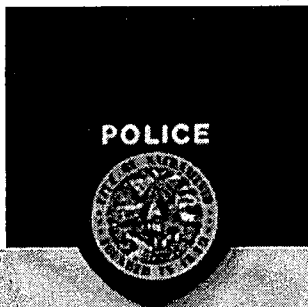
AIS Project

Solution Overview

Sacramento Police Department

Officer Paul Freeman

(916) 264-7315



Phased Implementation

- Phase 1: Evaluation & Purchase
- Phase 2: MDC Installation, CJIS (County)
- Phase 3: RMS, Field Report Writing, Mugshot
- Phase 4: CAD

Benefits for the Officer:

■ Increased Productivity via Information Access:

Current MDT:

- *4" Monochrome Display
- *State/Federal Warrant Access
- *Circa 1987

Future MDC:

- *12.1" Touch Screen Display
- *County Access (2)
- *Mugshot Photo Access (3)
- *Cal-Photo Access
- *Report Writing Capability (3)
- *Mapping (1,3)



Benefits for the Dispatcher

- Mapping - GPS & AVL (Phase 3)

Dispatcher can send the closest unit to any priority call for service

In an emergency situation, dispatcher is always aware of where the officers are



In Car Camera System

- MDC will integrate with the ICC System



Video Down-Link

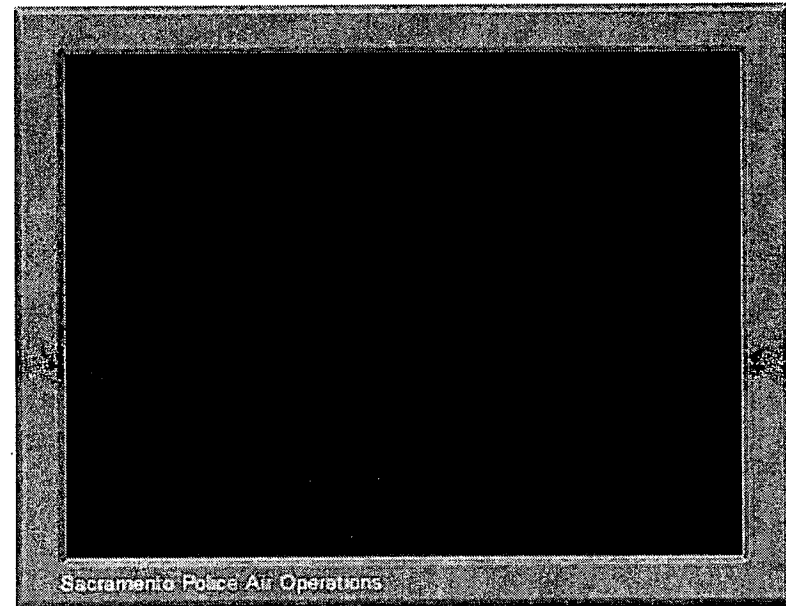
- MDC will integrate with Video Down-Link System:
 - Air Ops Unit can provide video down-link to ground based locations such as:
 - Microwave Receiver (Mobile Command Center)
 - Supervisor's Display Screen
 - Olympic Trials



Benefits for the Supervisor

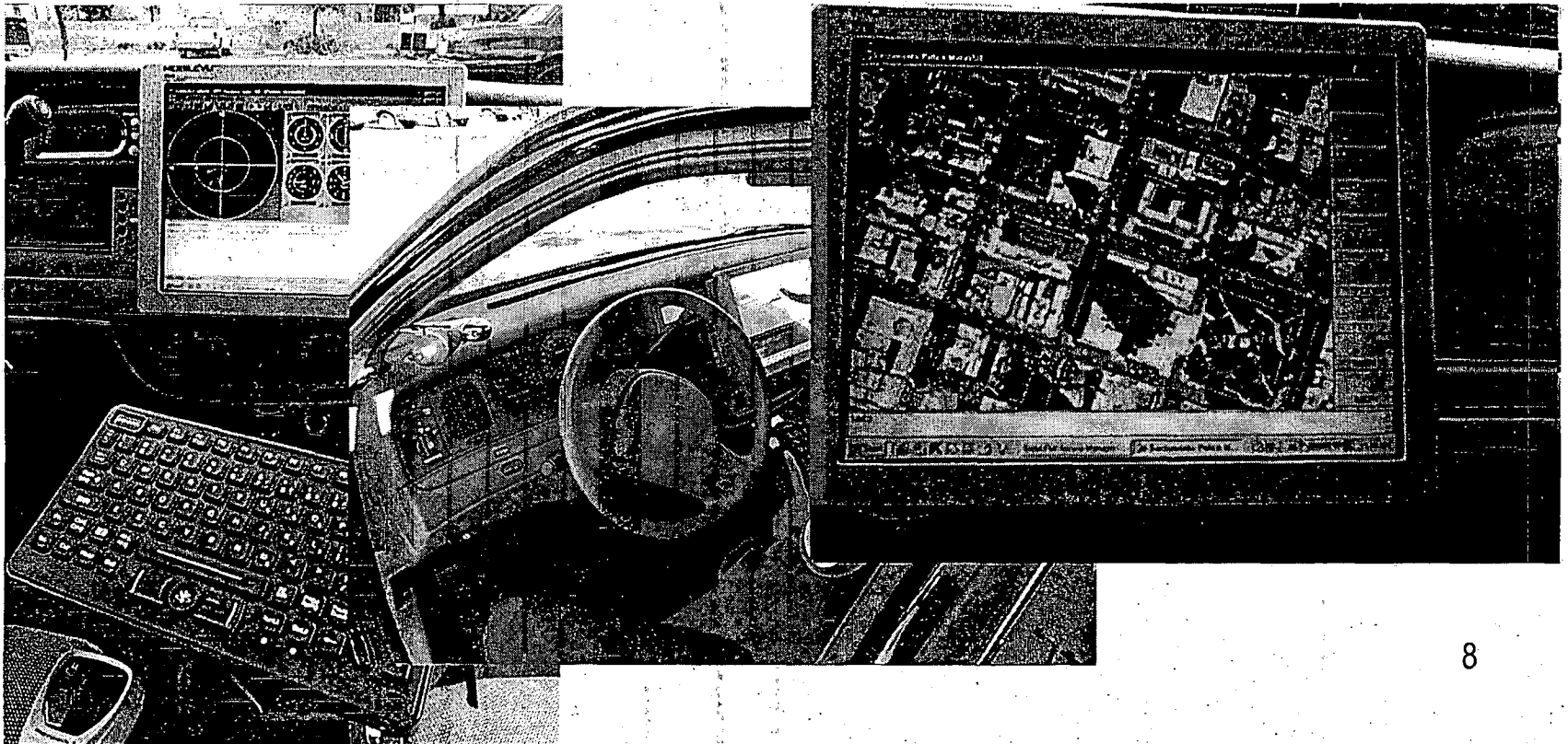
■ Critical Incident Management

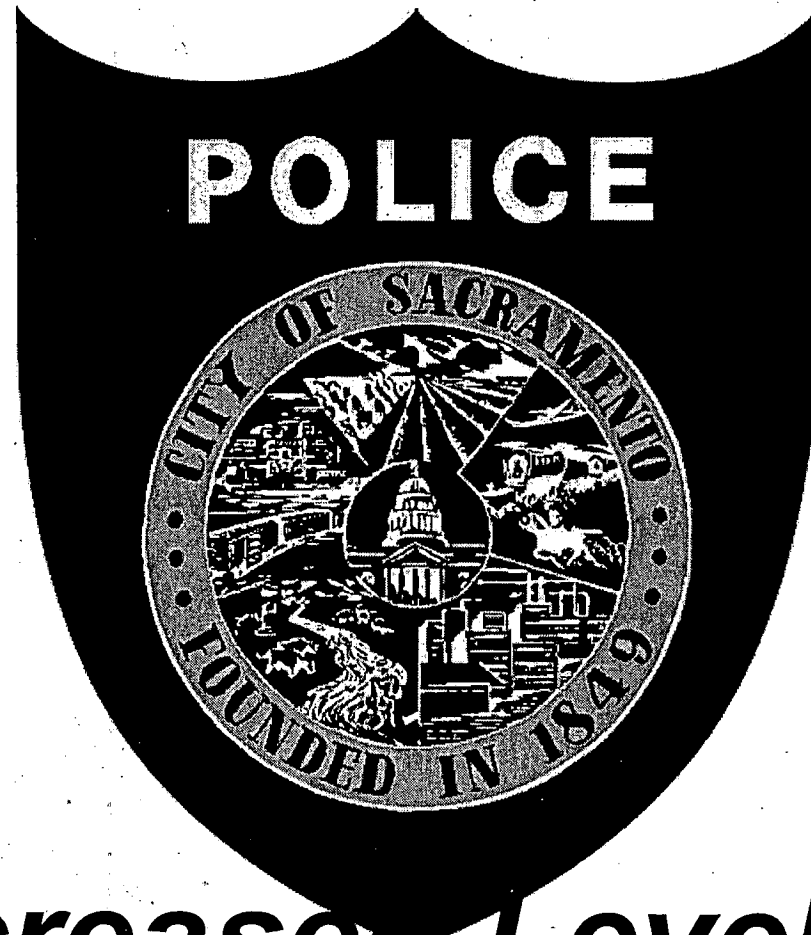
- **Allows** active management of an in-progress situation
- **Benefits** Incident Commander by providing the big picture view



What Does It All Mean? *“Opportunity...”*

- To replace outdated equipment
- To increase productivity via time-savings
- To increase the safety of our officers





***Increased Level of
Public Safety Service***