CITY OF OAKLAND

AGENDA REPORT

FILED
OFFICE OF THE CITY CLERK
OAKLAND

2008 MAY 15 PM 6:43

To: Office of the City Administrator
Attn: Deborah Edgerly
From: Department of Information Technology and Police Department
Date: May 27, 2008

Re: **A Joint Informational Status Report From The Department Of Information Technology And The Oakland Police Department On Technological Programs And Projects Specifically Related To Crime. This Report Includes Any Problems With Implementation, Operational Challenges, Technological Issues, And Delays In Dates Of Implementation. This Report Also Includes Current Initiatives And Projects To Provide Better Capabilities And Enhanced Features For Public Accessibility To Crime Data**

SUMMARY

As requested by the Rules and Legislation Committee on Thursday April 10, 2008 this informational report outlines the Police Department's current information technology (IT) Projects and Programs, and details the progress of on-going maintenance efforts as well as new technology projects managed by the Department of Information Technology (DIT) for the Oakland Police Department. This report also presents the implementation challenges, organizational governance, and delays in project launches. The report will provide an overview of the current crime reporting methods, reasons of various report differences, and future needs of crime reporting.

FISCAL IMPACT

This is a status report which outlines the current technology programs implemented by DIT and OPD, and the on-going project implementation status update. While there are identified fiscal implications noted, a separate report will be prepared with specific funding requests for each of the projects.

BACKGROUND

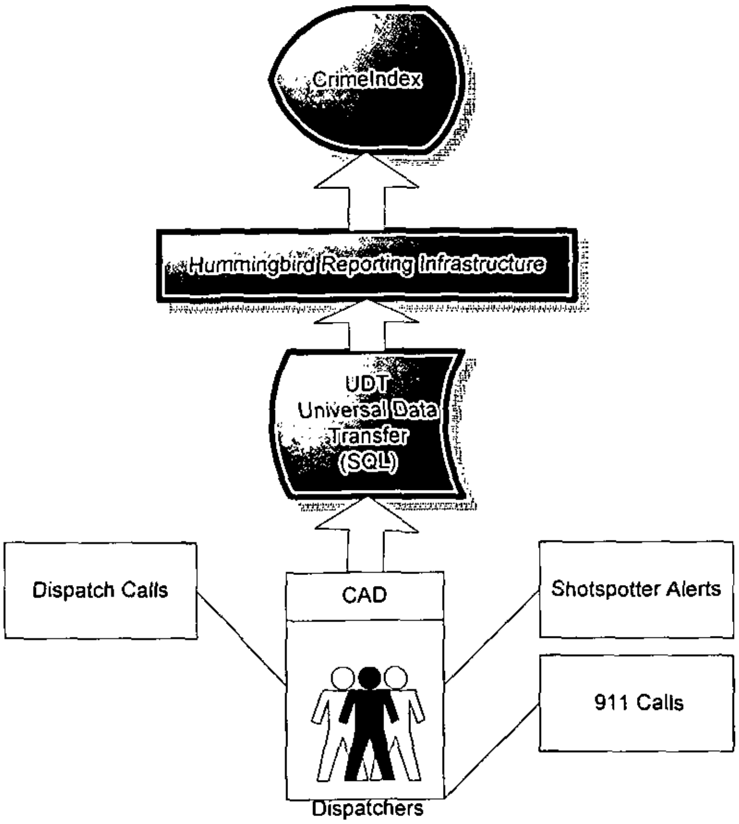
The *new* Department of Information Technology (DIT) was created in July 2007 as continuation and consolidation of the City's Information Technology services. DIT and OPD's IT Unit work very closely in identifying the needs of various technologies that will bring efficiencies in crime fighting strategies to enhance the effectiveness of policing in Oakland. DIT provides the technical, strategic resources that are required within the Police Department to further enhance the technological infrastructure, improve project delivery, and quick delivery of technical support.

KEY ISSUES AND IMPACTS

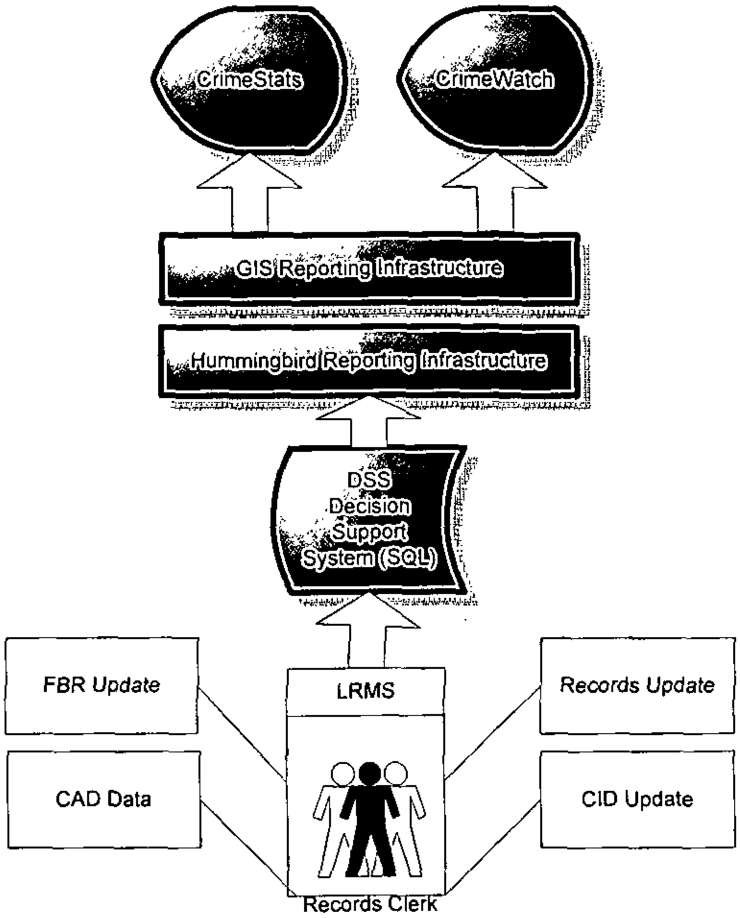
Identified in attachment "A" is the current status of the Police Department's programs and projects. The information provides insight on the current technology environment and provides background on the various initiatives planned, completed, or in progress. This report looks at how technology is serving and will continue to serve the police department and residents of Oakland.

Crime Data Reports

The Integrated Public Safety System (IPSS) provides a framework for various applications to share data and allow various types of reports to be available for various users. There are two different reporting databases used for analyzing and reporting crimes, the first reporting database is called Crime Index reports. The Crime Index report is based on 911Computer Aided Dispatch (CAD) calls and associated calls for service information, reported through the Department's emergency dispatch center. The Crime Index database identifies the number of calls reported in a particular beat. From this information, area commanders can adjust staffing levels on the particular beat to match calls for service volume. The Crime Index database report was designed for internal use only and is used to tactically plan the use of resources in combating criminal activity. The following diagram depicts the data flow from CAD to Crime Index database report.


CrimeIndex
Hummingbird Reporting Infrastructure
UDT
Universal Data
Transfer
(SQL)
Dispatch Calls
CAD
Shotspotter Alerts
911 Calls
Dispatchers

The second database reporting system is called Law Records Management System (LRMS), which is used by various OPD reporting applications. The LRMS system is also used to generate Uniformed Crime Reporting (UCR) information, which is submitted to the Department of Justice (DOJ) on a regular basis for FBI based public crime reports. In Oakland, the publicly accessible CrimeWatch website also uses the LRMS data. CrimeWatch gets an update every 24 hours from the LRMS system to reflect the most current status of any incident, which includes the final disposition of cases that have been investigated. CrimeWatch is an accurate assessment of the actual crimes in the City, and it was designed for public use. The following diagram depicts the data flow from the LRMS database to various Geographic Information System (GIS) as well as analytical crime reporting.


CrimeStats
CrimeWatch
GIS Reporting Infrastructure
Hummingbird Reporting Infrastructure
DSS
Decision
Support
System (SQL)
FBR Update
CAD Data
LRMS
Records Clerk
Records Update
CID Update

Hummingbird Infrastructure

Hummingbird is a commercial off the shelf (COTS) analytical reporting software used to query various databases. The application runs on a dedicated server accessible to OPD staff. This reporting infrastructure was developed and deployed by DIT in 2006 as a secure web based enterprise reporting platform for PD, only available to achieve the following goals:.

1. Enterprise Reporting – Across the entire OPD Agency deployment of secure web based *reporting for tactical operations reporting and trends analysis reports based on CAD and LRMS.*

2. Cube Analysis – Using the analytic processing, the application will give slice-and-dice analysis of limited data sets, targeted at Crime Analysis group and PSA Command staff for strategic planning and basic data exploration within a limited range of data.

3. Ad Hoc Query and Analysis – Full investigative query into all data, as well as automated slice-and-dice analysis of the entire database – down to the transaction level of detail if necessary.

4. Statistical Analysis and Data Mining – Full mathematical, and statistical analysis of data for purposes of correlation analysis, trend analysis, variations and projections.

5. Alerting and Report Delivery – Proactive report delivery and alerting to very large populations based on schedules or event triggers in the database.

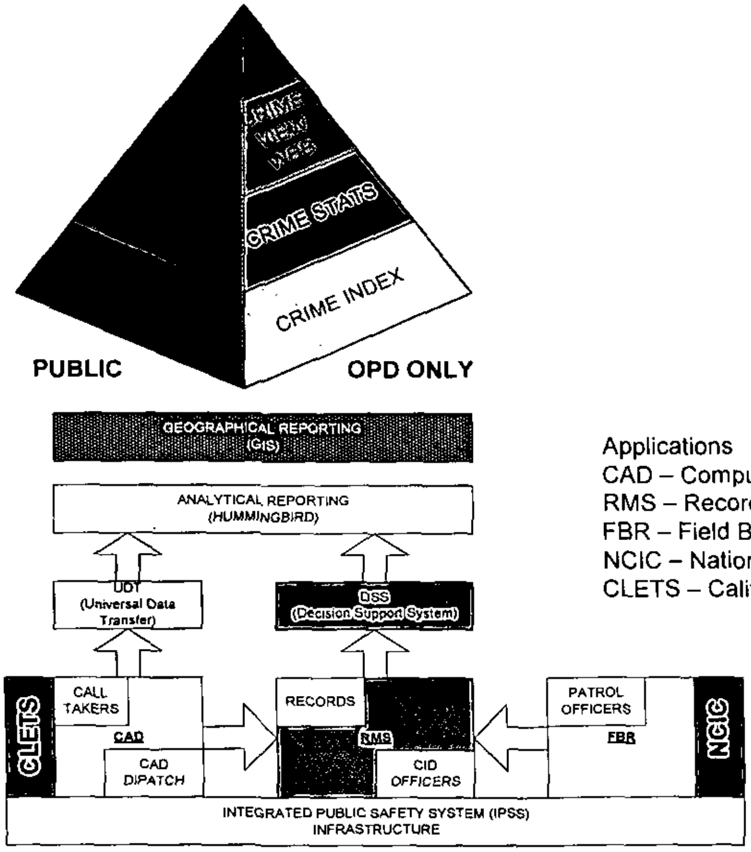
GIS Reporting Infrastructure

The GIS reporting infrastructure is based on the Omega Consulting software suite of CrimeView. Historically, crime mapping reports were only available on a case by case basis to specific OPD personnel. Oakland citizens were able to view certain major crime categories that were updated weekly through CrimeWatch I. A manual extraction process was required to make the data available to these two different systems.

The GIS reporting infrastructure has automated the update process and enable Oakland residents, OPD personnel, and City staff to have access to specific crime mapping reports updated daily. This solution puts the tools for community policing into the hands of Oakland residents, OPD, and City staff. This solution also provides a subscription service that allows the user to sign up for e-mail alerts of crimes in their area of interest.

The following diagram depicts the current reporting infrastructure and tools used for public and OPD reports, when the IPSS and the LMRS databases are combined.

OPD Current Reporting Platform
May, 2008


CRIME VIEW WEB
CRIME STATS
CRIME INDEX
PUBLIC
OPD ONLY
GEOGRAPHICAL REPORTING (GIS)
ANALYTICAL REPORTING (HUMMINGBIRD)
UDT (Universal Data Transfer)
DSS (Decision Support System)
CLETS
CALL TAKERS
CAD
CAD DIPATCH
RECORDS
RMS
CID OFFICERS
PATROL OFFICERS
FBR
NCIC
INTEGRATED PUBLIC SAFETY SYSTEM (IPSS) INFRASTRUCTURE

Applications
CAD – Computer Aided Dispatch
RMS – Records Management System
FBR – Field Based Reporting
NCIC – National Crime Information Center
CLETS – California Law Enforcement Telecom System

Crimespotting is developed by some of the Oakland residents who used the crime data, published by DIT on the City website.

The Oakland Police Department is in a dire need of a sophisticated data warehouse system to bring efficiencies and speedy access to the collected criminal data for time effective crime fighting. This data warehouse would provide the City of Oakland with critical management decision-making capability, and significant improved operational capabilities. The data warehouse will ensure a timely, seamless flow of accurate information, and it will allow the OPD to achieve faster data processing, eliminate redundant data entry, and enhance decision support and long-term planning. Building a Department-wide data warehouse is critically needed and requires time and dedicated resources. In OPD, there are more than two dozen smaller and standalone application databases in operation, storing some of the very critical pieces of data which could be used for enhanced crime fighting if they were linked together. These application databases have been created by various individuals out of urgent need and serve their specific needs. However, this poses the challenge of data duplication, data quality, training, system maintenance, and expensive data integration. These databases need to be cleaned, standardized, inter-connected and consolidated into a one normalized data repository.

PROGRAM AND PROJECT DESCRIPTION

The following is a brief overview of current and future efforts to provide the City, the Department, and the citizens of Oakland the best police services through improved technology. The projects are divided into three major categories of Infrastructure, Hardware, and Software projects.

Infrastructure

The Integrated Public Safety System was implemented five years ago; in this time period the architecture has since become outdated and requires a technology refresh and additional components to meet the Department's needs. This includes new hardware to encrypt transmissions so the Department can access both the internet and Department of Justice information on the same computer.

The Department's current private data network is too slow, and the bandwidth too low to send and receive information in a timely manner. As a result, the Department applied for and was awarded a COPS 2007 grant to build a new private network to replace the existing network. The new network will serve as the Department's primary network and integrate with regional systems in the event of a large scale operation. OPD has been working with DIT to determine which technology will meet both agencies' needs and integrate with the regional agencies. DIT and the OPD are in the process of identifying the specific system. Once that is done, DIT and OPD will acquire and implement the technology. It is anticipated that the Department will need additional funds to complete the project, depending on the scope and analysis.

The OPD worked with DIT and identified the Evolution Data Optimized system (EVDO), provided by Sprint Data link, as the best way to bridge the gap between the current antiquated data system and the new data system, Each mobile computer will be equipped with the EVDO card to provide a high-speed cellular data connection that is 10 times faster than the speed of the current private data network. However, the Department must identify a source of funding to fully implement (the monthly recurring charges for 300 EVDO cards cost approximately $15,000 per month). This high speed connection would allow officers to remain connected at all times, allow sending and receiving of time critical data, and submit field based reports. This data connection also enables officers to view mug shots, photos and video in their vehicles. This is something they could not do with the antiquated private data network. The Department anticipates switching from the cellular EVDO based system, to the new City owned private regional network system in late 2009.

The re-banding of the Department's radio network recently started. The re-banding will allow interoperability with all Project 25 compliant communication[1] devices utilizing OPD frequencies when in the City of Oakland. In the event of a major incident, Department personnel leaving the City, or other emergency personnel entering the City with Project 25 compliant communication devices, will also be able to communicate with each other.

The Department is exploring the possibility of building a Citywide camera network to enhance the Department's ability to respond to and investigate crimes. Camera's used for viewing in public areas will provide valuable information when officers are responding or when investigating an incident after a crime has occurred. Cameras in high crime public places have proven to reduce crime by their mere presence. There is a growing trend in law enforcement to utilize cameras to provide additional presence in communities where staffing is limited.

The tentative plan is to build a camera system which utilizes the Port of Oakland cameras, Community and Economic Development Agency (CEDA) cameras and OPD cameras. The Port of Oakland cameras monitor intersections and freeway traffic, which will allow the Department to locate wanted vehicles or evaluate traffic conditions during response to emergencies. The OPD cameras will be both static and dynamic, allowing for response to crime trends while maintaining observation of high crime areas. For cameras to operate on the IPSS network, a major design overhaul is needed to support the video traffic. Officers will be able to monitor cameras from the field, desktop computers, and at the designated monitoring area. The system will have the ability to be placed in specific areas for short periods of time to monitor specific activities (i.e., Sideshow). The Department will seek grants to finance this project, and will need additional personnel if the cameras are to be monitored on a regular basis. Individual businesses will be asked to sponsor cameras in and around their business, which will allow police personnel to view the scene in real time.

OPD is working with DIT to identify costs and funding to upgrade the wiring in the Police Administration Building and deploy Voice Over Internet Protocol (VoIP) for the Oakland Police Department.

The majority of phone and data wiring in the Police Administration Building (PAB) is at least 25 years old and in need of replacement. The current phone system has been in service for over 15 years and needs considerable repairs and maintenance. Replacement of both the wiring and phones will allow the Department to utilize some of the latest technologies in data processing, video and voice communications, and data sharing.

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[1] Project 25 compliant communication devices are able to communicate with each other. Currently, the Department does not have this capability

Hardware

The new Dell laptop computer rollout, and replacement of existing fixed Mobile Data Terminals (MDTs), is approximately ninety percent (90%) complete. The new laptop installations were delayed because of Dell's inability to provide the docking stations and other equipment on time. Note: The number of officers in the field has increased without a matching increase in funds for technology equipment. The Department will need funding for additional laptops and software licenses as the authorized staffing level of 803 officers is achieved.

In June 2007, the City contracted with Integrian to install the In-Car Video System (ICVS). To date, they have installed the equipment into 101 police vehicles. The vehicle installation is complete but the overall system has not been activated due to the following reasons:

- The vendor has offered repeated new software versions but has been unable to correct all the problems. The problems include reliability of video upload and video retrieval from the storage cluster servers at the 911 Center.
- The reliable transfer of the video files from the PAB to the communications center has not been established. The system in its current state is unreliable and unacceptable.

DIT and OPD are attempting to work out the problems with the vendor. If the vendor cannot resolve the situation soon, legal action may be required.

An inventory of the Department's desktop computers revealed that 30% of the existing computers should be replaced with newer computers. This would make staff more efficient and effective when completing administrative tasks.

The Field Based Reporting Server (FBR) is due for replacement during the next fiscal year. This will ensure that the system remains stable and does not fail during a critical situation.

The Radio IP server license, which provides encrypted connection over the wireless network, will need to be increased due to the increase in staff that utilizes the mobile technology.

Four (4) License Plate Recognition (LPR) systems were deployed in the end of 2006. The LPR system has been vital to the recovery of stolen vehicles and to the investigation of numerous crimes. The Department plans on deploying nine (9) more vehicles equipped with LPR technology by the end of 2008. In addition, the Department is investigating the use of a static LPR for the main thoroughfares in Oakland.

There are currently 10 Shotspotter vehicles in the field, evenly distributed throughout the City. The Department is evaluating the effectiveness of the system in identifying crimes in progress, improving response time to the crimes in progress, and providing evidence to convict suspects. OPD is looking into extending the Shotspotter network, and replacing the phone line based sensors with wireless based sensors to reduce the monthly phone line bills.

Software Applications

As mentioned above, the FBR Server is scheduled to be replaced; the FBR software is scheduled for an upgrade in 2008. The upgrade will provide several enhancements the Department has sought at no additional charge. Since the inception of the system in 2006, there are over 65,000 reports residing on the server.

The Department has completed its old Legacy Records Management System database conversion from its proprietary data format. This will allow the Department to extract data from the open database and run reports by using the current reporting tools. The Department is also interested in upgrading the current Records Management System to provide PDF copies of reports to investigators. This would eliminate the need to check both LRMS and FBR for details of reports. Staff will need to locate funding for this enhancement.

The Telestaff Scheduling software[2] was purchased in August 2006, but has not been fully operational. The application requires dedicated personnel in the Department to operate and maintain the Telestaff system. The vendor, Principal Decision Systems International (PDSI), is releasing an upgrade to the product later this month to enhance the software. The Department will evaluate the enhancement to determine if the software can be utilized. If necessary, the Department will look for another program that meets its needs.

E-Citation Software will automate the issuing of citations by the Police Department's sworn personnel and improve operational efficiency. It will enable electronic citations issued in the field to interface with the City's LRMS, transfer citation data to the California Superior Court system (CASP and Soft File), and electronically capture racial profiling data to help maintain compliance with the Negotiated Settlement Agreement (NSA) for the reporting, collection and analysis of this data.

The Department is 'beta' testing a new crime analysis software program developed by the Bishop Rock Software Company. It is hoped that this software will provide accurate information that can be used to develop crime reduction strategies to address emerging trends. Should this technology test successfully, the Department will integrate data from the currently used databases into one application.

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[2] TeleStaff Scheduling Software is designed to simplify the process of scheduling throughout the Department. It can be used to track personnel on duty, schedule work hours, training, and other appointment dates and times.

The Internal Personnel Assessment System (i-PAS) was created and implemented by the DIT to meet the requirements of the NSA. The i-PAS system will eventually be integrated with the Motorola's EVALIS product. DIT and OPD are in negotiations with Motorola to enhance the EVALIS application to meet the needs of the Department.

The Department is implementing online citizen reporting and hopes that citizens will take advantage of this application to report minor crimes that need to be reported for insurance purposes or for property crimes with no suspect information. The Department expects full implementation within the next few months.

The attachments listed below outlines the status of programs and projects undertaken by DIT and OPD:

- **IT Project Status Report: April 2008 (Attachment A)**
    - Projects DIT is involved in and their current status. The list also includes requests received that are currently being evaluated.
- **IT Programs Portfolio Presentation: April 2008 (Attachment B)**
    - Outlines accomplishments of the Department for deploying and managing the various missions critical IT programs during the last five years.

Organizational Efficiencies

The Department is making great strides toward the reengineering its business processes (through the assistance of DIT) in the deployment of new technologies. Although the Department is working hard to resolve several issues as it moves toward the future of technology within OPD, the primary issue for both DIT and OPD is the critical need for additional staffing.

The OPD IT Unit has one sergeant and one officer assigned to determine business needs, document business processes, develop policies, coordinate with DIT, and provide training on most of the technology projects within the Department. The IT Unit is understaffed to accomplish all the tasks needed to assist DIT in successfully rolling out IT projects. The IT Unit needs to work with the various Subject Matter Experts from other OPD Bureaus in performing analysis of products and keep the focus on effectiveness in crime fighting.

DIT needs an additional business process analyst to focus on the following:

- Perform Business Process Analysis
- Business Process Mapping
- Creating User Needs Documents
- Map the business needs with the achieved goals

The business process analyst resource will work with OPD IT Unit to identify the process efficiencies, policies documentation, and custom reports development.

Enterprise Project Management Application

With the establishment of a centralized Project Management Office in DIT, the need to have an enterprise application is becoming critically vital. The manner in which projects are planned, executed, and controlled can vary widely from organization to organization within the City. The Enterprise Project Management application will enable DIT to address the unique challenges facing the most project-centric requirements. The City therefore needs to invest in a project management solution that not only serves IT projects, but projects unique to construction, engineering and economic development.

Additionally, this enterprise Project Management application will allow the continued use of MicroSoft Project software, which users are most familiar with project planning, scheduling, and resource allocation. Moreover, this Enterprise Project Management software will allow the import and export of MS Project plans, schedules, and resources as necessary to accomplish Program and Portfolio management, and collaboration of all projects Citywide (IT and others). Seamless integration and flexibility to complete end-to-end business processes on a Citywide basis has long been the primary objective for investing in an Enterprise Resource Planning (ERP) solution (i.e., Oracle's E-Business Suite). This Enterprise Project Management is an essential component for achieving this objective and shall therefore be on the front burner for implementation.

SUSTAINABLE OPPORTUNITIES

Economic: DIT promotes local businesses in the purchase of equipment and services, and offers technology internship programs to local students. The intern program has enhanced the marketable skills of high school and college students, resulting in employment with City and regional businesses.

Enhanced technology assists the Oakland Police Department to more effectively carry out its duties of providing police services quickly and efficiently, which results in a safer community, creating an environment for economic growth.

Environmental: DIT has promoted the Oakland Technology Exchange West (OTX); with the donation of over 300 obsolete, surplus City computers. In 2007 OTX was able to convert those computers into working units for Oakland youth. DIT also launched a program to identify approximately 25 surplus computers and (with the use of local interns) recycle these refurbished computers to City Departments at a fraction of the cost of a new unit cost. In addition, DIT has donated 25 refurbished computers to local Oakland charities, in cooperation with Microsoft's refurbishing program.

Social Equity: Through programs that provide surplus computers for refurbishment, the City enhances social equity by providing computers and training to families and organizations that could not otherwise afford such a unit.

DISABILITY AND SENIOR CITIZEN ACCESS

DIT is actively working to provide greater exposure of technology at senior centers and has made it one of the its goals for 2008. In addition, the redesign of the City of Oakland website (oaklandnet.com) and the integration of City applications on the web, affords seniors and those with disabilities greater access to City services.

RECOMMENDATION/ACTION REQUESTED OF THE COUNCIL

This is an informational report; therefore no action is requested of the City Council. Staff recommends acceptance of this report.

Respectfully submitted,

(For Bob Glaze)

Bob Glaze, Director
Department of Information Technology

Prepared by:
Ahsan Baig
Division Manager, DIT

Respectfully submitted,

Wayne G. Tucker
Chief of Police

Prepared by:
Edward Poulson
Captain of Police, Bureau of Administration

APPROVED AND FORWARDED TO THE
PUBLIC SAFETY COMMITTEE:

William

Office of the City Administrator

Attachments:

A. IT Project Status Report: April 2008
B. IT Programs Portfolio Presentation: April 2008

Attachment A

Department of Information Technology
OPD Project Status Report – April 2008

Project Name	Crime Reports for Public	**Project ID**	N/A
Agency/Department	Oakland Police Department		
Business Goals	Provide on-line Crime Reports thru City of Oakland Web Site. The current CrimeWatch provides crime maps with basic reports; however the new application will provide detail statistics and historical trends to major crime categories. This new CrimeReports application will also allow the users to compare the Oakland crime data with other Bay Area cities.		
Impact on Oakland Residents	Available thru City of Oakland Web Site		
Public Accessible	Yes		
Council Approval Date	N/A	**Contract Signing**	TBD
Kick Off Meeting	TBD	**Project Start Date**	TBD
Project End Date	TBD	**Target Completion**	TBD
Project Sponsor	Deputy Chief Israel		
Budget $	$2400/Yr.	**Funding Source**	TBD
Scope and Project Description	Deploy the CrimeReports.com by using the Global Justice XML Data Model (Global JXDM), effectively "receiving" data from Oakland LRMS/CAD systems through a secure connection.		
Stage	Initiation and Technology Evaluation		
Issue and Challenges	1. New Crime data presentation model		
Status	Evaluating the crime data subscription model, working with the vendor to deploy a pilot in Oakland.		

Project Name	In-Car Video Management System	**Project ID**	N/A
Agency/Department	Oakland Police Department		
Business Goals	Protect Officers from fabricated allegations and false complaints, save city from lawsuits by providing video evidence. Also use video as a training tool.		
Impact on Oakland Residents	No Direct Impact on the residents		
Public Accessible	No		
Council Approval Date	September, 2006	**Contract Signing**	February, 2007
Kick Off Meeting	February, 2007	**Project Start Date**	August, 2007
Project End Date	June, 2008	**Target Completion**	September, 2008
Project Sponsor	Capt. Cy Vierra & Capt. Ed Poulson		
Budget $	$1.9M	**Funding Source**	Various Grants
Scope and Project Description	Install In-Car Video Camera system in 101 OPD cars, install a video archive Storage Area Network (SAN), install new ICVMS network, deploy 2 remote video uploading sites, and deploy the backhaul communication using the 4.9GHz network.		
Stage	Execution		
Issue and Challenges	1. Changes in scope by the city, i.e, network architecture, laptops instead of MDTs, installation priority for OPD vehicles. 2. Technology changes and version upgrades by the vendor. 3. Application Performance in Oakland network environment.		
Status	Training and performance testing in 6 new cars is underway. Most of the backend Hardware/Software installation is complete. Currently the Digital Video Recorders (DVR) and Cameras are installed in 101 Patrol/SAC cars. However the new client software version needs to be installed in all the cars. Main video servers and storage area network is installed at the 911 data center. Only one uploading site (PAB) is connected to the main (911) server site.		

Project Name	Laptop Computer	**Project ID**	N/A
Agency/Department	Oakland Police Department		
Business Goals	Replace the existing MDTs from vehicles, and provide laptops to the officers for mobility and flexibility for field operations.		
Impact on Oakland Residents	No Direct Impact on the residents		
Public Accessible	No		
Council Approval Date	February, 2007	**Contract Signing**	June, 2007
Kick Off Meeting	July, 2007	**Project Start Date**	August, 2007
Project End Date	December, 2007	**Target Completion**	June, 2008
Project Sponsor	Chief Tucker and Debra Taylor Johnson		
Budget $	$2.0M	**Funding Source**	Various Grants
Scope and Project Description	Procurement, installation, configuration and provisioning of 400+ laptops, with the install of new trays, center console, keyboard, antennas, monitor and cabling.		
Stage	Execution		
Issue and Challenges	1. Delayed delivery of trays and center consoles 2. Technology changes and version upgrades by the vendor.		
Status	90% of the laptops including the software and configuration are completed.		

Project Name	Web Based Crime Reporting for Oakland Residents	**Project ID**	N/A
Agency/Department	Oakland Police Department		
Business Goals	To make the crime reporting process easy and automated for the Oakland Residents		
Impact on Oakland Residents	Oakland Residents, with an email account, will be able to submit a non-emergency crime report thru any Internet connected computer.		
Public Accessible	Yes		
Council Approval Date	N/A	**Contract Signing**	August, 2006
Kick Off Meeting	February, 2007	**Project Start Date**	March, 2007
Project End Date	April, 2008	**Target Completion**	June, 2008
Project Sponsor	Deputy Chief Jeffrey Loman		
Budget $	$50K	**Funding Source**	Various Grants
Scope and Project Description	The system is designed to gather information on crimes from general public (resident) via secure connection. The application will issue a temporary report number to the user and place the temporary report into an administrative holding area for review and modification by appropriate administrator. An email is generated to the user that the report has been submitted. This application includes an interface to the Law Records Management System (LRMS) as part of the program.		
Stage	Execution		
Issue and Challenges	1. Business Processes Streamlining		
Status	System is operational. Pending Police policies and procedures.		

Project Name	Legacy Records Management System Data Conversion	**Project ID**	N/A
Agency/Department	Oakland Police Department		
Business Goals	Protect Officers from allegations and false complaints, save city from lawsuits by providing video evidence. Also use video as a training tool.		
Impact on Oakland Residents	No Direct Impact on the residents		
Public Accessible	No		
Council Approval Date	September, 2006	**Contract Signing**	February, 2007
Kick Off Meeting	February, 2007	**Project Start Date**	August, 2007
Project End Date	June, 2008	**Target Completion**	September, 2008
Project Sponsor	Debbie Fallehy and Capt. Ed Poulson		
Budget $	$25K	**Funding Source**	OPD Internal
Scope and Project Description	Convert the Legacy data into a SQL database queriable by a variety of fields, such as name, location of crime, type of crime (statute or UCR category), etc.		
Stage	Final Testing		
Issue and Challenges	1. Resources Availability		
Status	Final Phase of conversion is completed. End Users testing the data.		

Project Name	i-PAS (Internal Personnel Assessment)	**Project ID**	N/A
Agency/Department	Oakland Police Department		
Business Goals	Assisting OPD in identifying at risk police officers and provides commanders, managers and supervisors a single source to view statistical and detailed information about their subordinates		
Impact on Oakland Residents	No Direct Impact on the residents		
Public Accessible	No		
Council Approval Date	N/A	**Contract Signing**	N/A
Kick Off Meeting	May, 2006	**Project Start Date**	June, 2006
Project End Date	January, 2007	**Target Completion**	On-going enhancements
Project Sponsor	Debra Taylor Johnson and Capt. Paul Figueroa		
Budget $	TBD	**Funding Source**	Internal Staff
Scope and Project Description	Deployment and making enhancements to Internal Personnel Assessment System. Mandated by court order, a requirement of the Riders' Negotiated Settlement Agreement, this system performs many tasks among them: Assisting OPD in identifying at risk police officers and provides commanders, managers and supervisors a single source to view statistical and detailed information about their subordinates; Early intervention; Monitoring officer activity and behavior.		
Stage	Production		
Issue and Challenges	1. Resources Availability		
Status	On-going maintenance and enhancements.		

Project Name	Personnel Information Management System (EVALIS Software)	**Project ID**	N/A
Agency/Department	Oakland Police Department		
Business Goals	To comply with the Negotiated Settlement Agreement (NSA) by providing the computerized relational database management system to identify at-risk behavior activities		
Impact on Oakland Residents	No Direct Impact on the residents		
Public Accessible	No		
Council Approval Date	September, 2005	**Contract Signing**	December, 2005
Kick Off Meeting	February, 2006	**Project Start Date**	March, 2006
Project End Date	December, 2006	**Target Completion**	September, 2008
Project Sponsor	Deputy Chief Israel and Debra Taylor Johnson		
Budget $	$325K	**Funding Source**	Various Grants
Scope and Project Description	The hardware and software components of this system will provide OPD with a computerized relational database required by the Negotiated Settlement Agreement (NSA). The entire solution is provided by Motorola.		
Stage	Execution		
Issue and Challenges	1. Product Roadmap changes 2. OPD Internal changes and scope creep 3. Technology changes and version upgrades by the vendor		
Status	Due to various changes in the OPD personnel, project requirements, and EVALIS versions we are in the process of revising the project timeline.		

Project Name	TeleStaff	**Project ID**	N/A
Agency/Department	Oakland Police Department		
Business Goals	Provide time scheduling and resources allocation capabilities for resources visibility		
Impact on Oakland Residents	No Direct Impact on the residents		
Public Accessible	No		
Council Approval Date	February, 2006	**Contract Signing**	August, 2006
Kick Off Meeting	August, 2006	**Project Start Date**	September, 2006
Project End Date	June, 2007	**Target Completion**	September, 2008
Project Sponsor	Debra Taylor Johnson and Deputy Chief Kozicki		
Budget $	$325K	**Funding Source**	Various Grants
Scope and Project Description	Install the new TeleStaff application for OPD staff. The TeleStaff is an innovative, constant staffing, overtime management and notification software program.		
Stage	Execution		
Issue and Challenges	1. Product Adaptability 2. Changes in Business Processes 3. Technology changes and version upgrades by the vendor.		
Status	Communications Division is using the application as part of the pilot testing. OPD wide rollout date will be determined later. All the modules of the system, Phone, Web, Client/Server, and Database are up and running for 1100 personnel.		

Project Name	Data Interoperability	**Project ID**	N/A
Agency/Department	Oakland Police Department		
Business Goals	Upgrade existing RF Data Radio Network to a High-Speed System for Police and Fire. This will enable Oakland to establish the data interoperability in the Bay Area region.		
Impact on Oakland Residents	No Direct Impact on the residents		
Public Accessible	No		
Council Approval Date	*December, 2007*	***Contract Signing***	TBD
Kick Off Meeting	TBD	**Project Start Date**	TBD
Project End Date	December, 2011	**Target Completion**	TBD
Project Sponsor	Debra Taylor Johnson		
Budget $	$1.3M	**Funding Source**	DOJ Grant with 25% local match
Scope and Project Description	RF Data Radio system upgrade and Data Sharing with other Regional PDs. Replace the existing RF DataTac system with the High Performance Data (HPD) solution.		
Stage	Initiation		
Issue and Challenges	1. Legacy System operations 2. Technology changes and version upgrades by the vendor. 3. Lack of Standardization		
Status	In process of establishing project start and end dates.		

Project Name	E-Citation	**Project ID**	N/A
Agency/Department	Oakland Police Department		
Business Goals	This new application will automate the issuing of citations by the Police Department sworn personnel in order to improve their operational efficiency.		
Impact on Oakland Residents	No Direct Impact on the residents		
Public Accessible	No		
Council Approval Date	December, 2007	**Contract Signing**	April, 2008
Kick Off Meeting	February, 2007	**Project Start Date**	August, 2007
Project End Date	June, 2008	**Target Completion**	September, 2008
Project Sponsor	Deputy Chief Kozicki		
Budget $	$150K	**Funding Source**	Various Grants
Scope and Project Description	This new application will automate the issuing of citations by the Police Department sworn personnel in order to improve their operational efficiency. It will enable electronic citations issued in the field to interface with City's LRMS; transfer citation data to the California Superior Court system (CASP and SoftFile); electronically capture racial profiling data to help to achieve compliance with the Negotiated Settlement Agreement for the reporting, collection and analysis.		
Stage	Initiation		
Issue and Challenges	1. New Interfaces 2. Technology changes and version upgrades by the vendor		
Status	In the planning stages and getting ready for deployment		

Attachment A

Project Name	Crime Reporting Portal by Bishop Rock Software	**Project ID**	N/A
Agency/Department	Oakland Police Department		
Business Goals	Organize the crime data for reporting and trend analysis by connecting the various disparate databases and application in OPD		
Impact on Oakland Residents	N/A		
Public Accessible	No		
Council Approval Date	TBD	**Contract Signing**	TBD
Kick Off Meeting	TBD	**Project Start Date**	TBD
Project End Date	TBD	**Target Completion**	TBD
Project Sponsor	Deputy Chief Jeffrey Israel		
Budget $	$55K	**Funding Source**	Various Grants
Scope and Project Description	Crime data integration, reporting and analysis. This application software will organize and rapidly analyze the vast quantities of structured and seemingly unrelated data, currently housed in various incompatible databases and record management systems, over a highly secure intranet-based platform.		
Stage	Initiation		
Issue and Challenges	1. Technology changes and version upgrades by the vendor.		
Status	In process of establishing project start and end dates.		

Project Name	Radio Interoperability	**Project ID**	N/A
Agency/Department	Oakland Police Department		
Business Goals	Achieve Voice Interoperability in the Bay Area region by deploying/upgrading to a Project 25 standards based radio system		
Impact on Oakland Residents	N/A		
Public Accessible	No		
Council Approval Date	N/A	**Contract Signing**	N/A
Kick Off Meeting	TBD	**Project Start Date**	TBD
Project End Date	TBD	**Target Completion**	TBD
Project Sponsor	Bob Glaze		
Budget $	$3M	**Funding Source**	Grants/CIP
Scope and Project Description	Developed the Regional Interoperability and Data Sharing System based on the Department of Homeland Security (DHS) and Department of Justice (DOJ) Guidelines		
Stage	Planning		
Issue and Challenges	1. Political challenges 2. MOUs 3. Technology changes and version upgrades by the vendor.		
Status	In process of establishing project start and end dates.		

Project Name	DOJ Network Upgrade	**Project ID**	N/A
Agency/Department	Oakland Police Department		
Business Goals	Improve security and comply to the California Department of Justice requirements		
Impact on Oakland Residents	N/A		
Public Accessible	N/A		
Council Approval Date	N/A	**Contract Signing**	N/A
Kick Off Meeting	N/A	**Project Start Date**	August, 2007
Project End Date	June, 2008	**Target Completion**	September, 2008
Project Sponsor	Lt. Michael Johnson		
Budget $	TBD	**Funding Source**	Various Grants
Scope and Project Description	The new Microwave solution provides end-to-end encryption and tunneling for police and fire applications.		
Stage	Planning		
Issue and Challenges	1. Changes in the operational system 2. DOJ Policies are under development		
Status	Evaluating various solutions		

Project Name	On-Line Policies, Publishing, and Tracing System	**Project ID**	N/A
Agency/Department	Oakland Police Department		
Business Goals	Provide Police Officers to access policies, procedures and training. Provide Supervisors easy access to track the policies compliance.		
Impact on Oakland Residents	No Direct Impact on the residents		
Public Accessible	No		
Council Approval Date	N/A	**Contract Signing**	N/A
Kick Off Meeting	TBD	**Project Start Date**	January, 2008
Project End Date	June, 2008	**Target Completion**	TBD
Project Sponsor	Capt. Paul Figueroa		
Budget $	$30K	**Funding Source**	Various Grants
Scope and Project Description	Implement a Management Software program to allow for the paperless distribution, organization and maintenance of all written directives; i.e. Negotiated Settlement Agreement (NSA) related documents and updated Departmental policy and procedures.		
Stage	Execution		
Issue and Challenges	1. Technology changes and version upgrades by the vendor.		
Status	In process of establishing project start and end dates.		

Project Name	EVDO Install in Laptops	**Project ID**	N/A
Agency/Department	Oakland Police Department		
Business Goals	Provide High Speed Network access to the Officers in the field.		
Impact on Oakland Residents	No Direct Impact on the residents		
Public Accessible	No		
Council Approval Date	N/A	**Contract Signing**	February, 2007
Kick Off Meeting	February, 2007	**Project Start Date**	August, 2007
Project End Date	June, 2008	**Target Completion**	June, 2008
Project Sponsor	Debra Taylor Johnson		
Budget $	$15K/Month	**Funding Source**	OPD Internal
Scope and Project Description	Install EVDO cards in each laptop.		
Stage	Execution		
Issue and Challenges	1. Technology changes and version upgrades by the vendor. 2. Lack of standardization 3. Reliance on Cell Phone company for mission critical public safety usage		
Status	Most of the laptops are in operations using the EVDO connection. Installation and configuration is in progress.		

Project Name	West Oakland Video Surveillance	**Project ID**	N/A
Agency/Department	Oakland Police Department		
Business Goals	Use video surveillance technology to deter crimes in the West Oakland area		
Impact on Oakland Residents	No Direct Impact on the residents		
Public Accessible	No		
Council Approval Date	September, 2006	**Contract Signing**	February, 2007
Kick Off Meeting	February, 2007	**Project Start Date**	August, 2007
Project End Date	June, 2008	**Target Completion**	September, 2008
Project Sponsor	Deputy Chief Dave Kozicki		
Budget $	$200K	**Funding Source**	CIP
Scope and Project Description	Work with CEDA in installing the surveillance cameras in Oakland West OPD would like to view these cameras.		
Stage	Initiation		
Issue and Challenges	1. Technology changes and version upgrades by the vendor.		
Status	In process of establishing project start and end dates.		

Project Name	Video Sharing with the Port	**Project ID**	N/A
Agency/Department	Oakland Police Department		
Business Goals	Provide access to the 12 Video Stations installed by Oakland Port in Oakland. OPD would like view these cameras at viewing stations at the 911 center, and possibly in the patrol cars.		
Impact on Oakland Residents	No Direct Impact on the residents		
Public Accessible	No		
Council Approval Date	N/A	**Contract Signing**	N/A
Kick Off Meeting	N/A	**Project Start Date**	TBD
Project End Date	TBD	**Target Completion**	TBD
Project Sponsor	Deputy Chief Dave Kozicki		
Budget $	TBD	**Funding Source**	Various Grants
Scope and Project Description	Provide access to the 12 Video Stations installed by Oakland Port in Oakland. OPD would like view these cameras at viewing stations at the 911 center, and possibly in the patrol cars.		
Stage	Initiation		
Issue and Challenges	1. Technology changes and version upgrades by the vendor. 2. Application Performance in Oakland network environment.		
Status	Waiting for an update from the vendor for a bug fix		

Project Name	OPD Staff Move	**Project ID**	N/A
Agency/Department	Oakland Police Department		
Business Goals	OPD Staff Move - Police Administration Building (PAB) to Eastmont		
Impact on Oakland Residents	No Direct Impact on the residents		
Public Accessible	No		
Council Approval Date	N/A	**Contract Signing**	N/A
Kick Off Meeting	N/A	**Project Start Date**	January, 2008
Project End Date	March, 2008	**Target Completion**	April, 2008
Project Sponsor	Deputy Chief Kozicki		
Budget $	TBD	**Funding Source**	OPD Internal
Scope and Project Description	OPD staff will be moving to the Eastmont Precinct after the first of the year. As such, computers will need to be connected, phone lines updated or moved, and any other IT functions required for staff transitioning to Eastmont. Also, some existing staff at Eastmont will be moving to new workstations within that precinct.		
Stage	Closing		
Issue and Challenges	1. High priority project with short time frame		
Status	Closing		

Project Name	OPD Staff Move	**Project ID**	N/A
Agency/Department	Oakland Police Department		
Business Goals	Family Justice Center to PAB		
Impact on Oakland Residents	No Direct Impact on the residents		
Public Accessible	No		
Council Approval Date	N/A	***Contract Signing***	N/A
Kick Off Meeting	N/A	**Project Start Date**	January, 2008
Project End Date	March, 2008	**Target Completion**	April, 2008
Project Sponsor	Deputy Chief Kozicki		
Budget $	TBD	**Funding Source**	OPD Internal
Scope and Project Description	We need phone lines and computers moved from the Family Justice Center to the PAB/4th Floor - a detailed assignment of phones and works stations has already been drafted and presented to OPD.		
Stage	Closing		
Issue and Challenges	1. High priority project with short time frame		
Status	Closing		

Project Name	i-PAS (Internal Personnel Assessment) Access for Independent Monitoring Team (IMT)	**Project ID**	N/A
Agency/Department	Oakland Police Department		
Business Goals	Establish secure network connection between i-PAS Access and to SuperViewer for the Court Monitors		
Impact on Oakland Residents	No Direct Impact on the residents		
Public Accessible	No		
Council Approval Date	N/A	**Contract Signing**	N/A
Kick Off Meeting	N/A	**Project Start Date**	January, 2008
Project End Date	April, 2008	**Target Completion**	TBD
Project Sponsor	Capt. Paul Figueroa		
Budget $	TBD	**Funding Source**	Various Grants
Scope and Project Description	Provide access via the dedicated connection to the IMT office to i-PAS application. A computer will be provided with the SuperViewer application, but is prevented from accessing the Internet.		
Stage	Execution		
Issue and Challenges	1. Cabling installation at a non-City building		
Status	Waiting for an update from AT&T for the T1 install		

Attachment A

Project Name	VoIP at Eastmont and PAB	**Project ID**	N/A
Agency/Department	Oakland Police Department		
Business Goals	Provide VoIP phones at Eastmont and an estimate for PAB building		
Impact on Oakland Residents	No Direct Impact on the residents		
Public Accessible	No		
Council Approval Date	N/A	**Contract Signing**	N/A
Kick Off Meeting	*April, 2008*	***Project Start Date***	*April, 2008*
Project End Date	TBD	**Target Completion**	TBD
Project Sponsor	Debra Taylor Johnson		
Budget $	$150K	**Funding Source**	OPD Internal Funds
Scope and Project Description	Deploy a VoIP system at Eastmont. Also, provide cost and labor estimate for Voice Over IP Telephone system at PAB. This will require the upgrade of networking infrastructure and cabling.		
Stage	Initiation		
Issue and Challenges	1. Cabling infrastructure		
Status	Waiting for an estimate to secure the additional funding for PAB.		

Attachment B

Oakland Police
IT Projects Portfolio

INFORMATION TECHNOLOGY
OAKLAND
Growing for Over 150 Years

911 Police & Fire CAD

Vendors

- 911 Police & Fire CAD deployed Fall 2004
- Core Users - Oakland Police and Fire Departments
- Description of Application
  - Allows 911 dispatchers to quickly and efficiently handle emergency incident information, 24x7x365
  - Ability to deploy police and fire personnel efficiently for calls for service
  - Provides historical data on calls for service for Police & Fire (location, vehicle number, time & date, incident type, priority, emergency personnel dispatched, etc.)
  - Open system architecture allows data interfaces with existing and future public safety applications
- Technology Deployed
  - 500+ Users utilize Motorola's Premier CAD, Physically Redundant HP Tandem Non-Stop Servers, ESRI GIS and Microsoft Windows software
  - CAD to CAD interface, MOSCAD, 911 switch interface for ANI/ALI
  - AVL/ATM for Location Services, ESRI GIS interactive mapping for best path routing
  - Highly Secure VLANs based architecture
- Benefits to the City
  - Deployed based on an open-architecture platform to communicate and share information with the public safety systems of other local, county and federal agencies
  - Increase safety of police and fire personnel at incident locations
  - Provides the city public safety officials with critical management decision-making capability

Police Records Management System

- Police RMS deployed Fall 2004
- Core Users - Oakland Police Department
- Description of Application
  - Capability to share information extracted from the 911 CAD application
  - Manages the recording, indexing, and tracking of criminal and non-criminal related incidents and events
  - Provides end users with a full range of entry and retrieval capabilities for case management, crime analysis, incident tracking, reporting and strategic planning
  - Allows reports to be stored electronically, accelerating the retrieval and routing process and eliminating endless paper trails
- Technology Deployed
  - Client Sever technology based on TCP/IP network
  - 300+ Users utilize Motorola Law Records Management System throughout the city
  - Microsoft Cluster Servers running on HP servers attached to Storage Area Network (SAN)
  - Microsoft Windows Server, Microsoft SQL Server
- Benefits to the City
  - Enables access of crime data for Police officers in the field
  - The open-system relational database ensures easy access to data, not only from LRMS applications, but also from off-the-shelf third party products.
  - Decrease in administrative costs to retrieve information for crime analysis and statistics

INFORMATION TECHNOLOGY
OAKLAND
Growing for Over 150 Years

OAKLAND POLICE

Vendors

hp

Microsoft

cisco

Police Mobile & Field Based Reporting (FBR)

- Police Mobile Data & FBR deployed Spring 2006
- Core Users - Oakland Police Department
- Description of Application
  - 500+ Users. Allows Officers in their vehicles to send and receive large amount of data by having a high speed connection with the Mobile/FBR application server through Motorola RDLAP System and WiFi Hotspots
  - 30+ Users. Allows Officers on Motorcycles to connect to the software application in the Public Safety Network thru Sprint EVDO cellular network
- Technology Deployed
  - VisionTek Frontline Client/Server Technology
  - XML, VPN, WEP, 802.1x, WPA
  - Juniper firewall technology with Aruba WiFi Access Points
  - RADIUS MAC Authentication
  - EVDO (Evolution Data Optimized) provides fast wireless broadband (3G) Internet service directly to laptops
  - Afaria (Sybase) software for Wireless patch and inventory management
  - Radio IP for Session Persistence and continuous wireless connectivity across various wireless mediums
- Benefits to the City
  - Critical police Information from the field is exchanged wirelessly at remote locations, thus reducing officer's time to travel and update reports at the Police Administration Building, Eastmont and other precincts
  - Delivers direct access to database information on local, state, and national levels, and facilitates more efficient field reporting and investigation

Vendors

VISIONTEK
CONNECTING FIRST RESPONDERS
Sprint ahead
ARUBA networks
Juniper NETWORKS
SYBASE iAnywhere
Radio IP

Police License Plate Recognition (LPR)

INFORMATION TECHNOLOGY
OAKLAND
Growing for Over 150 Years

- LPR deployed Fall 2006
- Core Users - Oakland Police Department
- Description of Application
  - Deployed in 4 Cars. Provides high volume license plate capture and accurate license plate recognition for vehicles moving at speeds up to 100 mph
  - Instantly checks each captured plate against one or more databases of interest with immediate user alert of any "hit" against a database
  - Provides administrative and data analysis functions for both mobile and fixed deployments of LPR, and serves as a central repository where all data may reside and be used for crime analysis

OAKLAND POLICE

- Technology Deployed
  - PIPS BOSS (Back Office System Server) provides administrative and data analysis
  - PIPS PAGIS (Police ALPR Graphical Interface System) is a patrol-car based license plate recognition system improving officer safety and effectiveness
  - Wireless technology from patrol cars and data upload to a central server
- Benefits to the City
  - Provides significant officer productivity improvements as compared to traditional manual license plate searches
  - Provides data mining capability which allows officers to locate and map hits based on a wide range of criteria including partial plates, street address, GPS coordinates, time and date

Vendors

PIPS TECHNOLOGY
A Federal Signal Company

ARUBA networks

PC Professional

hp

Microsoft

Juniper NETWORKS

Police Shotspotter

- Shotspotter deployed Fall 2006
- Core Users - Oakland Police Department
- Description of Application
    - Provides a system that consistently detects 80% more incidents of gunfire than are reported by the public
    - Ability to sense and detect gunshots up to a mile away
    - Designed to send an audible alert to an Officer in the car or the CAD dispatcher within 10-15 seconds. The dispatcher can also listen to the audio and/or view the waveform
    - Forensic Data is detected and located events are saved in a secure, unchangeable database, including an 8 second snippet of audio
- Technology Deployed
    - AT&T Dial-up Telephone Network
    - Advanced Spatial Filtering and Echo Reduction provide accurate results
    - Microsoft SQL data repository
    - Integrates with available GIS aerial maps, parcel and street data to provide a comprehensive visual display
- Benefits to the City
    - Can help reduce crime rates, and restore community pride and property values
    - Sends critical data and enabling the OPD to arrive on the scene of a gunshot event far more quickly than with any other method

Vendors

ShotSpotter

Microsoft

hp

at&t Your world. Delivered

ESRI

Police i-PAS
(Internal Personnel Assessment System)

- •iPAS deployed Spring 2006
- •Core Users - Oakland Police Department
- •Description of Application
  - •i-PAS is a Client/Server data retrieving, storing, and reporting computer system. It consists of three parts:
  - •The i-PAS integration framework is the Extraction, Transformation, and Loading (ETL) process which connects the various OPD existing applications and pulls the required data, needed for the i-PAS operations, analysis, and reporting.
  - •The i-PAS database repository system connects to and pulls data from various OPD operational databases and application sources. In this way, it provides a centralize data view from different OPD databases and computer applications and works as a repository of critical data for i-PAS.
  - •The other component of the i-PAS system is the SuperViewer reporting portal. The SuperViewer is a secure, web-based intranet application for providing the detail reports to the OPD Supervisors. In addition, Threshold reports are available for the PAS Admin group only.
- •Technology Deployed
  - •Microsoft SQL Server, Microsoft IIS, Windows 2003 Server, Visual Studio 2005, ASP.NET Framework, Microsoft Certificate Authority, XML
- •Benefits to the City
  - •Allows a consolidated data repository framework drawn from existing, fragmented OPD software applications

Vendors

Microsoft

hp

PC Professional

Police TeleStaff and Webstaff

- TeleStaff deployed in Summer 2007 (in progress)
- Core Users – Oakland Police Department
- Description of Application
  - Creates staff schedule based upon labor business rules (MOUs) and constraints inherent in public safety jurisdictions
  - 1100+ Users. Manage and plan complex staffing requirements for supervisors
  - Allows users the flexibility to access appropriate information and administrators to make certain staffing decisions from any internet-enabled web browser
- Technology Deployed
  - Client/Server, Web based, Intel Computer Telephony Integration (CTI)
  - TeleStaff and WebStaff technologies
  - Sybase data repository
  - Microsoft Windows 2003 Server, Microsoft IIS, SSL
  - Data sharing with ERP/Oracle
- Benefits to the City
  - Allows users will have visual access to their calendar and other staffing data from anywhere, thru Intranet as well as Internet
  - Cost and time savings in generating rosters, approving requests, vacancies and labor analysis
  - Allows users to dial-in for scheduling purposes

Vendors

TeleStaff

intel Leap ahead

PC Professional

hp

Microsoft

GIS Based Crime Reporting

- Deployed in Spring 2006
  - CrimeView Web & CrimeView Community
- Core Users - Oakland Police Department
- Description of Application
  - Web based near real-time information delivery with the GIS component
  - CrimeView Web allows police staff throughout the department to access crime data through the existing internal network, wired as well as wireless (Intranet)
  - CrimeView Community allows public to access crime data through the existing public website (Internet)
  - Open system architecture allows data interfaces with existing and future public safety applications
- Technology Deployed
  - Utilizes ESRI GIS, Microsoft SQL Server and Microsoft IIS Server
- Benefits to the City
  - CrimeView Web can be accessed with a browser, wired as well as wireless, at any computer on the Intranet, eliminating the need for data or mapping software at individual workstations
  - CrimeView® Community provides an important public service by giving citizens access to information that they may ordinarily request from the City staff

Vendors

THE OMEGA GROUP

CRIMEVIEW

hp

Microsoft

ESRI

CityWatch - Emergency Notification

Vendors

- CityWatch deployed in Fall 2006
- *Core Users - Oakland Fire and Police Departments*
- Description of Application
  - Enterprise alerting and paging system for emergency notification and messaging for the citizens via email, phone, fax, pagers, text messages, etc
  - Application integrates the 911 data with GIS maps for more precise emergency notification
  - Open system architecture allows data interfaces with existing and future public safety applications
- Technology Deployed
  - HP Servers and Intel CTI Technology for multiple T1s
  - Utilizes ESRI GIS and Microsoft SQL Server
- Benefits to the City

  It will allow Emergency Personnel *to communicate critical events in a timely and* managed fashion

  - With this application, personnel can easily create and send personalized notifications to thousands when time is critical
  - Literally thousands of call lists can be created with unlimited contacts per list
  - Comprehensive reports automatically delivered to user via e-mail or view from any web browser

CityWatch

intel Leap ahead

hp

Microsoft

ESRI

In Car Video Management System (ICVMS)

- ICVMS deployed in Summer 2007 by Integrian (in process)
- Core Users - Oakland Police Department
- Description of Application
  - Provides a tool for reducing the number of police misconduct allegations by offering evidence of complaints and encouraging professional conduct
  - Provides evidence of crimes or attacks against officers, streamline the truth-finding process by providing the best evidence, and encourage the humane treatment of suspects, and respect for civil rights and liberties
  - Provides a valuable training mechanism for improving officer safety tactics for rookie and veteran police officers, and incentive for officers to behave more professionally during public interaction
- Technology Deployed
  - 101 In-Car Digital Video Recorder Systems with 100GB of local storage
  - Multiple Remotes locations for High-Speed Data Transfer (Wired & Wireless)
  - 100 Terabytes of Video Storage & Retrieval System using NexSAN
  - 4.9GHz of Backhaul Communication Network for Video Transfer
- Benefits to the City
  - Provide visual evidence of incidents and public interaction that occur while officers are on patrol throughout the City
  - ICVMS has the potential to add a layer of accountability and trust between the police and the public

Vendors

INTEGRIAN

PC Professional

hp

Microsoft

nexsan

Juniper Networks

enterasys Secure Networks

Exalt

InterVision systems technologies inc.