



Courts and Law Enforcement Management Information Systems

What is it?
What is it?

Revised November, 2008



Information Technology



CLEMIS **Courts & Law Enforcement** **Management Information Systems**

PROBLEM:
Courts and Law Enforcement agencies unable to share data with one another in a timely manner.

SOLUTION:
Regional data sharing of innovative technology and applications to apprehend, solve, and ultimately reduce crime

Our mission statement ...
To provide state of the art computer technology and related services to criminal justice and public safety agencies . . .

CLEMIS provides solutions through a cooperative effort that are affordable.

CLEMIS applications and technologies save officers a tremendous amount of time spent in the office writing reports - this allows them more time "on the streets" to protect the citizens.

CLEMIS agencies share data and use advanced technology that improves homeland security, identifies suspects, and solves crime.

CLEMIS is a multi-faceted, regional law enforcement management information system and more. The key principle of CLEMIS is the sharing of data between law enforcement agencies in a County-operated and maintained regional database.

Data is extracted from CLEMIS by law enforcement agencies for required federal and State crime reporting, analyzing criminal activity, resource allocation, incident reporting, and other legal purposes.

Police and Public Safety agencies from all cities, villages, and townships located within Oakland County provide law enforcement information to the CLEMIS database and enjoy the benefits received in having access to this data. Additional agencies surrounding Oakland County's borders from Genesee, Macomb, Livingston, Washtenaw, and Wayne County's are full CLEMIS members and enjoy use of the regional law enforcement data as well.

CLEMIS is more than just one system. CLEMIS provides:

- Enhanced 911 (E-911 Call-Taking)
- Computer Aided Dispatch (CAD)
- Records Management System (RMS)
- Mobile Data Computers (MDC)
- Field-Based Reporting (FBR)
- Law Enforcement Information Network (LEIN) access via WebLEIN
- Reporting Tool (InfoView)
- Crime Mapping
- Electronic Facial Images (Mugshot)
- Electronic Fingerprints (Livescan)
- Video Arraignments (OakVideo)
- Jail Management System (JMS)
- Radio (voice) Communication System
- Community Policing Websites (CrimeWatch)
- Fire Records Management System (FRMS)



CLEMIS

Enhanced 9-1-1 (E9-1-1)

PROBLEM:
911 system outdated,
unable to purchase parts
or upgrade existing
system.

SOLUTION:
Provide an enhanced 911
state-of-the-art system
that will interface with
other CLEMIS
applications.

Our mission statement ...
To provide state of the art
computer technology and
related services to
criminal justice and public
safety agencies . . .

*CLEMIS E9-1-1 is used
to dispatch public safety
and medical responders
to emergency situations.*

*E9-1-1 routes emergency
calls to the proper public
safety agency.*

*The new E9-1-1 system
interfaces with CLEMIS
CAD.*

*CLEMIS Enhanced 9-1-1
utilizes state-of-the-art
equipment and supports
wireless technology as
well.*

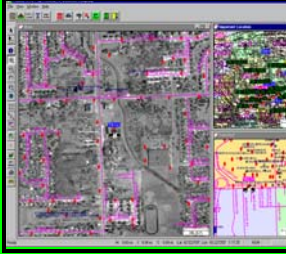
CLEMIS serves as the Oakland County Coordinator for twenty-nine local Public Safety Answering Points, or PSAPs, within Oakland County that receive and process 9-1-1 calls and dispatch public safety responders to emergencies.

9-1-1 is far more than a telephone number. It is a complex system of database servers, network connections, and call-taking equipment at the PSAPs. Enhanced 9-1-1, or E9-1-1, provides selective routing of 9-1-1 calls to the correct PSAP for the caller's location through an intricate, yet almost instantaneous process that identifies the caller's telephone number, searches a database, and routes the call.

When 9-1-1 was originally implemented in Oakland County in 1986, most callers accessed 9-1-1 via wireline telephones, and the 9-1-1 network provided the caller's exact name, location, and call back number to the PSAP. The call-taking equipment that was utilized at the PSAPs provided the display of this information, but could not be upgraded as needs and technology changed. With the increasing use of other types of telephones, including wireless telephones and Voice over Internet, the type of information displayed at the PSAP changed dramatically, as did the supporting network and databases.

In order to meet changing technology and provide the best emergency service to the citizens of Oakland County, CLEMIS facilitated and funded the selection, purchase, and installation of replacement 9-1-1 call-taking equipment at the local PSAPs. This enabled the PSAPs to receive state-of-the-art call-taking equipment, standardize training, and easily interface with other CLEMIS systems, such as Computer Aided Dispatch (CAD) to process emergency calls as efficiently as possible.

CLEMIS has also developed the extensive database that supports wireless 9-1-1 in Oakland County, and has coordinated the documentation and testing of these calls. The PSAPs now receive the wireless 9-1-1 caller's call back number and the location of the cellular tower that processed the call. By the end of 2005, the second phase of the wireless implementation will allow the PSAPs to receive the latitude and longitude of the caller's location, which the CAD system will display on a map. Wireless 9-1-1 callers who may not be able to state their location will then be able to receive emergency help.



CLEMIS

Computer Aided Dispatch (CAD)

PROBLEM:
Need an efficient way for Police, Fire, and medical agencies to track and manage incoming calls for service.

SOLUTION:
CLEMIS Printrak / Motorola Computer Aided Dispatch allows fast, reliable means for tracking and managing calls for service.

Our mission statement ...
To provide state of the art computer technology and related services to criminal justice and public safety agencies ...

CLEMIS CAD is used for public safety agencies.

The CLEMIS CAD System has a failover backup.

Users can choose how the data is displayed on the screen.

CAD feeds data into LRMS, E-911, and MDC systems.

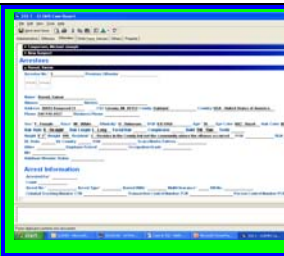
CLEMIS Computer Aided Dispatch (CAD) is a state of the art dispatching program that allows users to create, update, track, and manage all public safety calls for service.

CAD is based on a Geographical Information System (GIS) that allows users to plot calls for service on a map and recommend the correct units to send on the call. Dispatchers have many ways of determining which units to send on a call for service. Units sent on a call may be based on primary patrol area or through use of Automatic Vehicle Locator (AVL) that can send the closest unit regardless of primary area of responsibility.

The CAD server and network connections are totally redundant. It is designed in such a fashion that one central processing unit (CPU) or disk drive can go down and be replaced without the user ever knowing or without any loss of functionality. Network connections are set so that the primary connection could be lost and the communication center would fail over to an ISDN (Integrated Services Digital Network) line and keep functioning.

CAD allows users different methods of updating and creating calls for service. Users of all skill levels will be able to perform basic functions. Users can use a command line, syntax-based commands, forms, or drag and drop functionality. Dispatchers and other law enforcement personnel can select the method best suited for themselves to produce desired results. CAD also allows user to change the way they view calls by simply changing window sets.

CAD interfaces with other programs such as Law Records Management System (LRMS), E-911, and Mobile Data Computers (MDC) to further enhance usability. The data entered into CAD will import into the LRMS to eliminate redundant data entry. Calls for service assigned to units with MDC's will receive any and all comments entered by dispatchers or other units assigned to the call for service. E-911 information is automatically entered into the call for service without user intervention.



CLEMIS

Records Management System (NetRMS)

PROBLEM:

Public Safety agencies are not able to share criminal information because they use different applications.

SOLUTION:

Provide a multi-tasked Records Management System to share data with all participating members.

Our mission statement ...

To provide state of the art computer technology and related services to criminal justice and public safety agencies ...

CLEMIS NetRMS is affordable

NetRMS provides:

Field Based Reporting (in car reporting), Case Management, Records Management for reporting crime, animal licensing, citizen complaints, emergency contact listing for business owners, handling and processing of evidence, photo lineups, pawnshop, firearm dealers, Department Bulletins, neighborhood watch, press releases, perform searches on People, Entity, Contacts, Property Inventory, Personnel Management

CLEMIS NetRMS is a complete records management system as easy to use as the internet. The CLEMIS NetRMS Police Records Management System is a web-based records management system designed to be accessed from anywhere. It provides all the tools an agency needs to properly record, store, and retrieve departmental and criminal records. NetRMS combines intelligent document management with a sound relational database structure to provide an extremely intuitive and highly functional records management system. By utilizing the most up-to-date and technologically advanced tools available, the CLEMIS NetRMS system can be leveraged by the law enforcement agency in infinite ways.

Benefits of CLEMIS NetRMS

NetRMS is a true intranet application for storage, retrieval and analysis of data collected by law enforcement personnel. CLEMIS NetRMS provides your department benefits such as:

- Ease of use with minimal training required. The design makes your users more productive in less time. Functions are found in the same place they would be in a physical department.
- Quick response – Based on the Microsoft SQL Server and Internet Information Server, CLEMIS NetRMS serves up millions of records at mainframe speed, saving your staff time while making more information available to the field where it is most needed.
- Simplified tasks – NetRMS solves the problem of producing FBI-compliant NIBRS statistics while also automating the Michigan Incident Crime Reporting (MICR) submission.



CLEMIS

Mobile Data Computers (MDC)

PROBLEM:

Police officers are unable to communicate privately with Dispatch Center and other officers.

SOLUTION:

Mobile Data Computers that wirelessly transmit information that cannot be intercepted by the public.

Our mission statement ...

To provide state of the art computer technology and related services to criminal justice and public safety agencies . . .

CLEMIS MDC's replaced old MDT technology in 1999.

There are over 1,500 units on the CLEMIS MDC System.

CLEMIS MDC's communicate on a wireless network, and have access to State, and Federal law enforcement databases.

Officers are able to communicate with Dispatch and one another while on the road via CLEMIS MDC's.

CLEMIS Mobile Data Computers (MDC's) were known as Mobile Data Terminals (MDT's) in 1989 when the first private county-wide mobile data system was deployed for CLEMIS public safety agencies. At the time, there were approximately 40 agencies participating and approximately 500 units on the system. Although those devices were useful, they had limited capabilities.

In late 1999, CLEMIS upgraded the mobile data system to take full advantage of the new Cellular Digital Packet Data (CDPD) technology. New MDC's were purchased which provided a much wider range of functionality to the agencies. To date, we have deployed over 1,500 devices on the mobile network, with 86 Police and Fire agencies participating, across six counties.

CLEMIS MDC's are now communicating wirelessly with Dispatch, and are able to receive and initiate dispatch incidents and update information in CLEMIS CAD. As part of the CAD initiative, Automated Vehicle Locator (AVL) was also added to public safety vehicles so that Dispatch can see where the vehicles are at all times.

CLEMIS MDC's can communicate with State (LEIN, SOS, and CMIS) and Federal (NCIC and NLETS) law enforcement databases. The ability to access these databases helps keep our officers safe, because they are able to find out if the vehicle they are stopping is stolen, or if the individuals in the car have outstanding warrants against them. CLEMIS MDC's can also communicate with any other mobile unit on the network.

In the near future, officers will be able to run fingerprints, receive mugshot images, the State of Michigan's digital driver's license photos, and check local databases from the vehicles.



CLEMIS

Field-Based Reporting (FBR)

PROBLEM:
Police officers spend too much time in the station writing reports.

SOLUTION:
Provide technology and software to give officers the ability to write reports while on the scene.

Our mission statement ...
To provide state of the art computer technology and related services to criminal justice and public safety agencies . . .

CLEMIS Field-Based Reports are electronically transmitted to supervisor for approval.

Field-Based reporting information feeds into the CLEMIS Records Management System.

Further enhancements to the CLEMIS FBR are under development.

CLEMIS Field-Based Reporting (FBR) is a software designed for use on mobile data computers, or ruggedized laptops. Developed in 2000, the CLEMIS Field-Based Reporting System provides officers the ability to write incident reports from their vehicle while still on the scene of the incident, which increases the accuracy of the data collection process.

The biggest time saver for the officers, is the ability to import information received from State and Federal databases directly into the reports, which increases the accuracy of the information and eliminates the need for officers to write down the information, and then transmit it into the report. Once the report is complete, it can be electronically transmitted to supervisory staff for approval, or if necessary, the report can be returned for correction. This dramatically cuts down the time it takes for a report to be processed.

Once the report has been approved by supervisory staff, it is electronically transmitted to the CLEMIS Records Management System. This eliminates the need for officers to write a report by hand, and then have Records staff type it into the Records Management System. CLEMIS FBR is a step closer to a "paperless system".

CLEMIS FBR is continuing to evolve, and in the very near future, will further reduce officer's time spent writing reports as the system will be taking full advantage of faster technologies used in wireless communication networks. Enhanced features will speed up the data collection process, and increase the amount of time the officers can spend on the street protecting our communities and assisting citizens.



CLEMIS

WebLEIN

PROBLEM:

Criminal history data is not easily accessible to the officer in the field.

SOLUTION:

Use today's technology to provide an interface to criminal data via the web.

Our mission statement ...

To provide state of the art computer technology and related services to criminal justice and public safety agencies . . .

CLEMIS members have access to several criminal databases.

CLEMIS hosts, updates, and maintains the central system.

Secretary of State images are now available to CLEMIS members.

Soon this data will be available on hand held (PDA) devices.

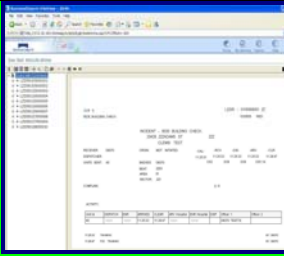
CLEMIS WebLEIN provides an interface between local law enforcement to the state, federal, and various local criminal justice databases. These databases include:

- Michigan Secretary of State driving records and images.
- The State of Michigan Corrections System prisoner information.
- FBI criminal and stolen property databases.
- Databases belonging to local police agencies around the State of Michigan.
- LEIN – The state “Law Enforcement Information Network” which contains criminal, wanted persons, officer safety cautions, and vehicle information.

CLEMIS WebLEIN software is easy to use, and responses from the different databases return to the user very quickly. CLEMIS hosts, updates, and maintains the central system allowing the police agencies to focus on criminal justice. When a program update is performed on the central system, the users have access to the improved functions at their next sign-on without additional system work.

Recent access was acquired to the Secretary of State image files. CLEMIS WebLEIN users can access images from driver licenses for identification purposes of suspects, injured citizens, or for other law enforcement use. In the past, it was very time consuming to get access to the images.

Future uses of the system will include a wireless hand held device. This device will allow officers in different environments access to the system. Officers on foot patrol, horseback, motorcycle, bicycle patrol, or boat patrol will have access to this valuable tool in areas where it has never been available before.



CLEMIS

InfoView

PROBLEM:
Agencies need an efficient way to produce reports from various CLEMIS applications.

SOLUTION:
Provide users with an easy and intuitive way to access data from various CLEMIS applications.

Our mission statement ...
To provide state of the art computer technology and related services to criminal justice and public safety agencies . . .

Navigate, Create, and Interact easily - access the web-based portal for CLEMIS information to create powerful document.

Personalize your viewing experience.

CLEMIS data provides answers - - - InfoView offers a set of analytic engines designed to provide insight into solving your public safety problems.

CLEMIS InfoView is a quick and easy way to access documents and information, used to make timely and accurate decisions. This web-based tool simplifies information access and understanding, and helps users be more productive.

Because CLEMIS InfoView is a central web environment, it allows users to find documents and information they need easily. Users can navigate using an integrated search facility as well as a folder navigation tree. Within the InfoView zero-client web environment, ad hoc queries and powerful, interactive documents can be created. In addition, users can personalize their experience by customizing the folder or document they want to view when they login, and the level of interaction for different information. Some users—such as crime analysts—may choose interactive views of information, while others—such as police chiefs or command officers—might prefer a more static summary view using the "My InfoView" feature that allows for the creation of a personalized starting page.

CLEMIS staff has customized this off-the-shelf application to suit our consortium's needs. Most agencies access CLEMIS InfoView to retrieve reports based on CLEMIS CAD and CLEMIS RMS mainframe data. Some agencies utilize pre-designed reports that were created to access approved Field-Based Reports, jail information, mugshot data, as well as various other data sources.

In addition, CLEMIS has created a module that will automatically push reports thru email to users on a daily, weekly, or monthly basis.

CLEMIS InfoView is the best way for our members to navigate, create, and interact with public safety information.



CLEMIS

Auto Impound Management System

PROBLEM:
Agencies need an efficient way to manage their auto impounds.

SOLUTION:
Provide users with an easy to use interface to manage and track all impounds.

Our mission statement ...
To provide state of the art computer technology and related services to criminal justice and public safety agencies . . .

Written in-house from the ground up

Easy to use simplistic interface.

Works with existing CLEMIS systems.

*CLEMIS data provides answers - - -
Auto Impound offers a complete solution for private property, arrest and abandoned vehicle impounds.*

CLEMIS Auto Impound Management System

will track all auto impounds a police department performs (private property, arrest, abandoned autos) The tracking starts from the time the vehicle is entered into records management (NetRMS) through when it is released, disposed, or auctioned. This tracking will show who entered the vehicle into the system and all movements (activity). Transfers will show who completed the transfer and where it was transferred to, with date and time. Returns will show who returned it and where it is held with date and time. Officer in charge of the vehicle can be changed/updated as needed. The system can track vehicle owner contact information. Agencies can create custom reports relating to any vehicles entered into the system. Attachments can be added to the vehicle record (letters, release forms, and photos). The Auto Impound system provides a complete chain of custody record for all vehicles. The system will allow agencies to do a complete audit of all vehicle items entered into the system.

Bar codes and scanning provide end users with a simple, error free way of tracking and tagging vehicles.

CLEMIS staff has custom written the Auto Impound system from the ground up. To gather requirements for the system, CLEMIS staff worked with several subject matter experts to find out how a property room should be run. These experts combined with several years of experience, makes the system the best it can be.

In addition, CLEMIS determined this will save officers, dispatchers, and impound officers from re-entering the same information up to five times over.

CLEMIS Auto Impound Management System is the best way for agencies to electronically maintain their vehicle impounds.



CLEMIS

Evidence & Property Management System

PROBLEM:
Agencies need an efficient way to manage their property and evidence.

SOLUTION:
Provide users with an easy to use interface to manage and track all property and evidence.

Our mission statement ...
To provide state of the art computer technology and related services to criminal justice and public safety agencies . . .

Written in-house from the ground up

Easy to use simplistic interface.

Works with existing CLEMIS systems.

CLEMIS data provides answers - - - Evidence and Property Management offers a complete solution for evidence and property management.

CLEMIS Evidence & Property Management

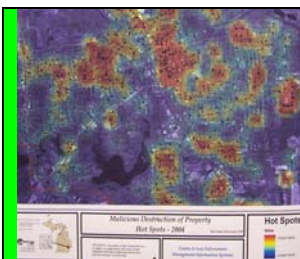
will track all property that comes through a police department (Property, Found or Safekeeping, Etc.) The tracking starts from the time it is entered into a report (NetRMS) through when it is disposed of. This tracking will show who entered the item into the system and all movements (activity). Transfers will show who completed the transfer and where it was transferred to, with date and time. Returns will show who returned it and where it is held in the department with date and time. Officer in charge of items can be changed/updated as needed. The system can send letters to the owners of items, provides complete tracking of how and when property was disposed of. Agencies can create custom letters and reports relating to any property entered into the system. Attachments can be added to the property record (letters, release forms, and photos). The Property Room will provide a complete chain of custody record for all property items. The system will allow agencies to do a complete audit of all property items entered into the system.

Bar codes and scanning provide end users with a simple, error free way of tracking and tagging property.

CLEMIS staff has custom written the Property Room system from the ground up. To gather requirements for the system, CLEMIS staff worked with several subject matter experts to find out how a property room should be run. These experts combined with several years of experience, makes the system the best it can be.

In addition, CLEMIS determined this will save officers and property room clerks from re-entering the same information up to five times over.

CLEMIS Evidence and Property Management system is the best way for agencies to electronically maintain their property rooms.



CLEMIS

Crime Mapping and Analysis

PROBLEM:

Police agencies unable to predict hotspots and trends in crimes across jurisdictional boundaries.

SOLUTION:

Use available GIS tools to identify hotspots of crime and reallocate resources to those areas.

Our mission statement ...

To provide state of the art computer technology and related services to criminal justice and public safety agencies . . .

Crime Mapping demonstrates where crime is occurring so police agencies can reallocate resources to those locations.

Data is extracted from the CLEMIS Records Management System and placed on a map for crime analysis.

GIS applications based on level of expertise allowing both low-end users and high-end users to identify and analyze crime.

CLEMIS Crime Mapping and Analysis is the process of displaying incident data on a map, determining trends, hotspots, or crime sprees based on location and time. This process (formerly known as pin mapping) is now computerized making it more efficient, consequently, widely used among police agencies. These systems are known as Geographical Information Systems (GIS).

The advantage of Crime Mapping in a consortium such as CLEMIS is the sharing of data across jurisdictional boundaries. CLEMIS agencies inputting data into the CLEMIS records management system (RMS) have access to analyze neighboring community data as well as their own.

Currently, data is extracted from the RMS and geocoded to a street centerline file. Incidents are placed on a map and, using GIS tools, users query incidents based on criteria such as crime type, time of day, and specific dates and time ranges within defined areas.

After the process is completed, incidents meeting the criteria are placed on the map. Reports, charts, and maps are created for hard copy output or digital format for presentations.

Police agencies have access to additional spatial data such as censuses information, parcels, schools, parks, waterways, and more. The ability of bringing more data into a single environment helps in advanced analytical processes analyst could not achieve in the past.

CLEMIS has defined two levels of users and has expanded the crime mapping and analysis program to fit both groups. A simplistic application that runs in a browser environment will be completed in 2005 for the low-end user who wants a simple picture of what has happened in their community recently. The high-end analyst has access to a thick client application with advanced capabilities.



CLEMIS

Biometric Imaging System (Mugshot)

PROBLEM:

How to share facial images, data and biometric technology with multiple agencies across a broad range of platforms

SOLUTION:

The CLEMIS imaging system is capable of being accessed via a LAN connection, or the World Wide Web. Images and data can be retrieved to the desktop, the patrol vehicle, and to handheld devices such as PDAs and Blackberrys.

Our mission statement ...

To provide state of the art computer technology and related services to criminal justice and public safety agencies . . .

CLEMIS Mugshot is a robust imaging system for the law enforcement community.

Mugshot will empower the officer to make decisions based upon access to biometric identification information.

CLEMIS Mugshot provides the public safety community with immediate access to mugshot images and data through a wide variety of means. Working in partnership with Dynamic Imaging Inc., CLEMIS members have access to the following biometric imaging functionality:

- access to mugshot images and data from the desktop, patrol vehicle, or wireless PDA device.
- ability to share suspect images and data via the Internet.
- search database records using any combination of data elements for investigative purposes.
- create suspect line up sessions and transmit the results from the desktop to the patrol vehicle.
- access to state of the art “facial recognition” technology. Relying solely on the image of an unknown suspect, the entire CLEMIS database searches for matching images. Once found, the data set associated with the matching records is displayed for the officer.
- the officer receives suspect image records linked by fingerprint identification.



CLEMIS

Biometric Fingerprint Identification (Livescan)

PROBLEM:

How to provide officers with a biometric means of identifying person arrested for crimes.

SOLUTION:

Live Scan technology electronically digitizes the person's fingerprint images, and transmits them to the State and Federal systems for biometric identification.

Our mission statement ...

To provide state of the art computer technology and related services to criminal justice and public safety agencies . . .

To provide the law enforcement community with real time biometric identification of persons taken into custody.

To provide the law enforcement community with a means of identifying persons involved in unsolved crimes.

To reduce the time frame for the recording of arrest and charge information.

CLEMIS Livescan, technically referred to as a Biometric Fingerprint Identification System, was implemented in 1995 with a handful of Oakland County agencies. CLEMIS Livescan has grown to over 70 participating agencies in six counties in Southeastern Michigan. This system provides CLEMIS law enforcement agencies with the following functionality:

- Provides the officer with the ability to electronically capture and transmit accurate, reliable fingerprint images to the Michigan State Police and FBI for identification purposes.
- Provides the officer with instantaneous identification of a suspect based upon biometric technology. No longer is the officer forced to rely solely on suspect supplied demographic information.
- Provides the officer with a means of immediately transmitting arrest information to the State Police for Criminal History Information recording; a process which used to take weeks or months, now takes minutes.
- Provides the officers with a means of electronically submitting suspect fingerprints for comparison against unsolved crimes throughout the State of Michigan. If a fingerprint "match" is located, the agency submitting the crime scene fingerprints and the agency submitting the suspect fingerprints are immediately notified.
- Provides the Oakland and Macomb County Prosecutor's office with an electronic and reliable means for submitting charge information to the State.



CLEMIS

Video Conferencing (OakVideo)

PROBLEM:

High costs and travel time for police transporting prisoners and obtaining warrants.

SOLUTION:

Use a video system to save officers time and taxpayers money.

Our mission statement ...

To provide state of the art computer technology and related services to criminal justice and public safety agencies . . .

CLEMIS video conferencing equipment connects courts, prosecutor's office, jail and police departments.

OakVideo automates paper flow and replaces aging equipment with state-of-the-art technology.

CLEMIS OakVideo provides more time for officers to be on the road to protect the citizens of the community.

CLEMIS OakVideo implements video conferencing equipment to connect district and circuit courts, the prosecutor's office, jail booking facilities, and law enforcement agencies. The effect is to minimize offender transport, thereby improving court security and mitigating law enforcement time and costs.

OakVideo automates much of the paper flow that traditionally occurs via fax machines between law enforcement agencies, the prosecutor, and the courts. It replaces rapidly aging warrant teleconferencing equipment with state-of-the-art technology using Oakland County's fiber optic, gigabit OakNET network.

CLEMIS OakVideo enables law enforcement agencies to prepare booking documents and create case files on a central server. When an agency transfers files to the folder, the case is immediately "queued" to the county prosecutor. The prosecutor may initiate a video conference with the police agency to discuss the case, view, and remotely photograph evidence.

Once warrants are created and saved to the case folder, the detective is queued that the warrants are ready to be served and the court of jurisdiction is queued that a "Warrant Swear To" is requested. The first available judge or magistrate calls the detective, and a video conference "Swear To" can be conducted.

During video conference, the officer and judge can digitally sign the warrants, add them to the case folder, and print them. Once the warrants are served, the court is queued that they are ready for an arraignment. The first available judge or magistrate selects the case and is immediately connected to the detective, prosecutor, and holding cell locations. Before or during the arraignment, the judge can view the case files as well. Felony cases are immediately queued to the higher court, and the next arraignment is conducted. During normal business hours, the booking and arraignment process can be completed in hours rather than days.



CLEMIS

Jail Management System (JMS)

PROBLEM:
Need to track the whereabouts of inmates throughout Oakland County correctional facilities.

SOLUTION:
Develop a Jail Management System providing real-time tracking of inmate activities.

Our mission statement ...
To provide state of the art computer technology and related services to criminal justice and public safety agencies . . .

CLEMIS has provided the Oakland County Sheriff's Office an in-house jail management system for over 20 years.

Oakland County Correctional Facilities use the CLEMIS Livescan and Mugshot Systems in conjunction with the Jail Management System.

A new CLEMIS Jail Management System will be implemented in 2006 for Oakland County.

CLEMIS Jail Management System (JMS) has assisted the Oakland County Sheriff's Office in the development and maintenance of the Jail Management System that provides them the ability to manage an ever-growing inmate population. A CLEMIS mainframe system was designed, which has evolved over the course of the last 20 years to meet the ever-changing needs of the Sheriff's Office.

Because of the nature of the inmate population, a substantial amount of jail staff's time is expended dealing with day-to-day management of over 2,000 incarcerated individuals.

Inmate activities and movements are tracked from the time the inmates enter the back door of the facility, until the time they are released from the custody of the Oakland County Sheriff's Office. The Deputy's that work in Oakland County correctional facilities know where an individual is at any time of the day or night.

To better identify inmates as they are booked into custody, the CLEMIS Livescan System is utilized in the event that an incorrect identification was presented to officers at the time of arrest. An electronic fingerprint of the inmate is recorded and checked against several databases to verify proper identity.

The regional-wide CLEMIS Mugshot System is used in conjunction with the CLEMIS Jail Management System to take high quality photos of the inmates, and these photos are printed on wristbands worn by the inmates during the entire period of incarceration. The photos may also be used in creating "line up" sessions.

As part of the continuing effort to keep up with evolving technologies, a new CLEMIS Jail Management System has been selected and is due to be deployed in 2006.



CLEMIS

Radio Communication System (voice)

PROBLEM:
Police, Fire, and EMS are unable to communicate with one another.

SOLUTION:
Provide an interoperable radio system with a high level of coverage in Oakland County.

Our mission statement ...
To provide state of the art computer technology and related services to criminal justice and public safety agencies . . .

The new CLEMIS radio system is a state-of-the-art digital VoIP 800Mhz system.

The new radio system will provide coverage inside buildings.

Thirty-six transmitter sites are located throughout Oakland County for the new CLEMIS radio system.

CLEMIS is implementing a state-of-the-art county-wide, interoperable voice radio communication system for public safety.

In the mid-1990's, several emergency situations occurred in which multiple police, fire, and EMS agencies needed to communicate with one another. One of the most publicized situations was the shooting by a disgruntled employee at a plant in Wixom, during which many law enforcement agencies had to work together to locate and subdue the gunman, but were hampered because they could not communicate with each other. The public safety agencies in Oakland County use disparate radio frequencies, manufacturers, and technologies that do not allow their radios to "talk" to each other.

A committee from the CLEMIS leadership and membership was formed to obtain funding and frequencies for a radio system that would allow them to work independently for day-to-day situations, with the ability to communicate seamlessly during multi-agency emergencies.

Specifications were drafted for a digital 800 MHz system that would provide not only interoperability, but also a high level of capacity and coverage. The Oakland County public safety community identified a need for radio communications that would work not only from the emergency vehicles out-of-doors, but also from hand held radios while inside large buildings.

The CLEMIS voice radio system is designed to meet all of the requirements identified by the public safety officials of Oakland County. It is a state-of-the-art digital Voice over Internet Protocol 800 MHz system that will provide both interoperability and sufficient coverage inside of buildings, achieved by deploying thirty-six transmitter sites throughout the county. It will replace or supplement all of the existing disparate radio systems with new equipment, including mobile radios, hand-held radios, and dispatch center consoles for the participating agencies.

The CLEMIS voice radio project is a complex endeavor. Approximately six thousand law enforcement, fire service, and emergency medical service mobile and portable radios will utilize the system, as well as the dispatch centers and hospitals within Oakland County.



CLEMIS

Community Policing Web Sites (CrimeWatch)

PROBLEM:
Need a way to increase communication with communities, internal staff, and across jurisdictional boundaries in a timely manner.

SOLUTION:
Develop secure websites for internal and external communication.

Our mission statement ...
To provide state of the art computer technology and related services to criminal justice and public safety agencies . . .

Provides police departments access to web based tools for updating their community oriented policing web sites or for sharing data with other police agencies.

Provides a secure police agency intranet for departmental communication.

CLEMISLink allows for sharing of information across jurisdictional boundaries.

CrimeWatch produces a series of interactive maps for public or secured uses.

CLEMIS Community Crime Watch provides CLEMIS member agencies with web site hosting, templates, and content management tools to assist with their Community Oriented Policing (COPS) programs.

The primary goals of this project are to:

- Provide improved channels of communication within and among police departments and the communities they serve.
- Give police department's access to web content management tools, allowing them to create and manage web sites for both public and private (secure) audiences.
- Enhance Community Oriented Policing (COP) programs and publish information using web technology.
- Provide police departments a way to increase public awareness of community oriented policing through access to crime mapping data, crime trends and hotspots, and general public safety information via the World Wide Web.

Additionally, police agencies can maintain a departmental intranet where agency information can be posted to a central location.

The third tier is a CLEMIS consortium wide secured intranet where participating police agencies can share information with one another. CLEMISLink allows authorized users the ability to post information for other authorized users.

Finally, a series of CrimeWatch dynamic map services will be set up for internal and external use. CrimeWatch participants will put links on their web sites for publication of these maps to their communities. Projected map services will be anything from parolees, convicted sexual offenders, computer-aided dispatched data (CAD), automatic vehicle locator (AVL), and others.



CLEMIS

Fire Records Management System (FRMS)

PROBLEM:
Fire Service Agencies lack the infrastructure to provide a cost effective Records Management System which integrates with a Computer Aided Dispatch System.

SOLUTION:
Provide cost effective network connectivity among fire stations and standard software applications to meet federal reporting requirements.

Our mission statement ...
To provide state of the art computer technology and related services to criminal justice and public safety agencies . . .

CLEMIS FRMS provides innovative and cost effective technology for fire departments.

FRMS agencies meet monthly Federal and local medical control reporting requirements easily and efficiently.

CLEMIS Fire Records Management System (FRMS)

provides integrated technology systems which can be built on for future enhancements to a consortium of fire departments.

Oakland County Fire Departments benefit from a reliable high speed network which interconnects fire stations allowing access to the County for a centralized and standardized reporting and emergency information system. Through a cooperative relationship with the County, participating fire departments receive a variety of cost-effective technology solutions.

Fire agencies automatically receive real-time emergency incident data from their dispatch center. Fire records data is collected county-wide as well as providing a platform for individual fire departments to meet their monthly Federal reporting requirements.

FRMS records management system includes:

- Fire and EMS Incident Records
- Personnel Records Management
- Daily Roster Assignments
- Training Records
- Equipment & Vehicles Maintenance and Inventory
- Hydrants Management
- Daily Activities Log
- Customized Reports
- Digital Photos and Floor Plan Attachments

Other FRMS technologies may include:

- GIS Analysis of Fire Data
- Instant Incident Paging
- Station Tear and Run Incident Data
- Field-Based Reporting Program