



*Information Sharing
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***HOW TO SHIELD OUR COMMUNITY
AND THE LAW ENFORCEMENT OFFICERS
WHO PROTECT US WITH
“ELECTRONIC BODY ARMOR”™.***

THE POWER OF INFORMATION:

***USING A NEW AND ADVANCED MOBILE TECHNOLOGY TO CAPTURE
AND DISTRIBUTE LIFE-SAVING INFORMATION AND INTELLIGENCE
IN REAL-TIME, WHILE SUBSTANTIALLY LOWERING
OVERHEAD COSTS AND INEFFICIENCIES.***

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Background

Two successful information technology (IT) professionals who were also Law Enforcement Officers in their small community often patrolled together. They frequently discussed their mutual desire to use their dual experience in IT and Law Enforcement to create a much-needed solution for officers in the field. They were experiencing first hand the need for timely information about the vehicle, locations, and individuals they encountered in the course of patrol activities. They also saw the need for more efficient technology – technology that would minimize frustrating redundancies of manually completed paperwork – technology that would maximize patrol time and patrol effectiveness. It was a frequent discussion for them, but time kept moving.

Their IT Company became very successful, and was sold to a well-known Internet entity, eBay, Inc. However, prior to the sale closing, they experienced the loss of a Law Enforcement comrade - and friend - in the line of duty.

It Starts With Tragedy

On a sunny mid-week summer morning an officer made a traffic stop in a semi-rural area. The driver (and only occupant) immediately and deliberately exited the vehicle, rifle in hand, and began shooting at the officer. The assailant, who will be aliased as Jones, continued his forward assault toward the officer who was crouched behind the protection of his patrol car.

Jones, after finishing his deadly assault, oddly reached across the officer's mortally wounded body and grabbed the police radio microphone. Jones began calling for emergency assistance, stating that he had just shot this officer who needed immediate emergency care. Jones then proceeded to the front of the patrol car where he stood and waited for the emergency assistance for which he had just summoned. Jones, in his mid-seventies, looked more like a Good Samaritan offering assistance, not the deranged murderer he actually was. The first responding officer to arrive at the scene *walked right up to Jones*, not even registering he was the assailant. That officer was fortunate to be able to back away and behind the cover of a patrol car. More officers arrived, Jones was subdued and arrested.



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The Agonizing Factor of the Tragedy

Weeks prior, a uniformed officer went to Jones' house in the country to inquire about hunting on Jones' property. As Jones came to the door, the officer noticed Jones holding his hand on an object just out of sight behind the doorframe. Jones violently asked if the officer was there to arrest him for not wearing a seatbelt. The officer suspiciously replied no, stating that he was there to inquire about hunting on Jones' property. Jones then took his hand off of the object (the officer was able to detect that it was a rifle) and joined the officer on the front porch. Jones continued his rage toward the officer about having to wear a seat belt. Absent of criminal elements to arrest Jones the officer left. He immediately filed a report of this obvious threat. You already know the heart-wrenching conclusion. *The slain officer didn't benefit from that "Officer Safety" alert, because it was part of the inefficient and archaic paper system. The written report wound up in a stack with many others – not readily (electronically) available for the next officer (who wound up being our friend) who would encounter Jones. This was absolutely not the fault of the reporting officer. That officer dutifully and precisely followed procedure to report the threat. For that particular agency, however, paper was the only means by which a report of this nature was filed. Real-time electronic access was not available for the officers in the field to warn them about Jones and his potential for violence. No access at all.*

COPsync Was Created from This Tragedy

The whole community was devastated by the loss. It was reported to be the largest funeral and procession the community had ever seen. The two IT professionals who were personally devastated by the loss saw the calling to act upon their frequent discussions. They made it their livelihood, devoting 100% of their resources to create COPsync - the solution that could have saved their friend - the solution that *will* save other officers from the same travesty. They surrounded themselves with other Law Enforcement officers from various backgrounds and two attorneys (one an assistant district attorney). With this team they compiled over 100 plus years of Law Enforcement experience to build a powerful technology, a technology to *fulfill two desperate needs of field officers and agents today:*

- 1) Immediate real-time access, *in the field*, to critical information and intelligence. Immediate information is power. Conversely, latent information is dangerous and deadly.
- 2) Simple and streamlined technology to eliminate time consuming steps and other inefficiencies that prevent officers from being the most effective in serving their communities.



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After three years of focused, exclusive and dedicated effort, COPsync was launched “*for officers by officers*”.

Purpose

This paper addresses the benefits of using a new and powerful mobile technology to increase safety and improve the effectiveness of Law Enforcement Officers and agents in the field. This new technology enables officers to stay in the field (in our neighborhoods) to give us that additional hedge of protection. With this technology officers no longer have to go to command centers and field office computer rooms to write and process police reports. It will easily save many agencies hundreds of thousands of dollars per year from increased efficiencies. It also arms officers with the power of *real-time* access to crucial life-saving information that will protect us, the community, *and* the officers who serve us. We call it ‘electronic body armor’, because it is truly as effective as the bulletproof vest. Now, instead of just the bulletproof vest, we add a second layer of protection using the power of information to stop dangerous and deadly actions. How is it done? Put a computer terminal in every patrol car in the U.S. to give these field officers real-time, dynamic data exchange between officers and agencies. This real-time access along with a suite of field law enforcement process technology is championed by COPsync.

The Problem We Seek to Solve

COPsync’s first mission is to protect the officers, cloaking them with information that will act as electronic body armor. With its real-time bi-directional information sharing officers will now have immediate access to life saving information. One of the most celebrated features of COPsync is its electronic Be-On-the-Look-Out (BOLO) and Attempt to Locate (ATL) section. While it can be initiated from dispatch, BOLOs can also be created and broadcast from the field *saving priceless seconds*. COPsync’s technology will revolutionize and standardize the inefficient ATL/BOLO process used today. It could have saved the life of the officer in the tragic incident described above. When the officer entered the license plate of the vehicle, COPsync would have immediately alerted the officer both visually and audibly that Jones was a deadly threat to law enforcement officers. The officer would have known to put a safe distance between him and Jones and call for additional back-up. With COPsync’s Auto Vehicle Locator (AVL), nearby patrol vehicles would have been automatically notified without action required from dispatch that a fellow Officer has stopped a dangerous person, alerting them that their assistance might be necessary.



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COPsync was also created to eliminate the expensive, inefficient, time consuming and dangerous paper chase used by Law Enforcement today. Many law enforcement agencies across our country are woefully behind in technology and dependent on the manual paper process. This manual process plagues the back offices of many agencies. Out-dated and expensive tablet style forms are still the mainstay of reports and citations across the country, even seen in agencies with significant investments in computerized records management systems. We have seen agencies with as much as *14% of their total staffing assigned to clerical positions* dedicated exclusively to transcribing, filing and logging this paper reporting behemoth. Worse, this system seems to stay chronically behind, sometimes as much as six to nine months *and longer*. The latent entry and recording of this vital information not only endangers officers and the community they serve; it also hampers the process of solving, clearing and prosecuting cases.

THIS ABSOLUTELY IS NOT a criticism or indictment of any agency. Prior to 9/11 *we the taxpayers pulled tightly on the purse strings of the public safety sector.* However, 9/11, and later Hurricane Katrina made us more aware of our inefficiencies in domestic intelligence mechanisms and crisis management. Our country has been growing increasingly vulnerable. 9/11 and Hurricane Katrina just made it more visible. With heightened awareness and concern, the taxpayer is now endorsing Federal, State and Local governments to make swift, sizable and desperately needed investments in modernizing the means of protecting our citizens from both foreign *and domestic* evil. Grants are being allocated to begin the counter-attack against our vulnerability.

Specific attention has been focused on capturing and distributing vital information and intelligence. In the immediate hours following the 9/11 tragedies, the shortfalls and vulnerabilities of existing radio and cellular communications were realized. Without voice communications, mostly blacked-out by the crisis, our country's copper and fiber data network became the communication fallback. From this we learned two important benefits of data communications:

- 1) It self-healed around a communications-dead hole/disaster (in this example the wide area around the World Trade Center).
- 2) It alleviated some of the crowding and blackout conditions that occur on voice radio and cellular networks during a crisis.

Of greater importance, we learned that had more effective mechanisms been in place to collect and distribute Local, State, and Federal Law Enforcement



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intelligence we could have known more about the terrorist cells that were planning and conspiring for seven years prior to the attack.

Inaccessible Data

We all acknowledge that information is power. Many Law Enforcement agencies, however, are suffering from the absence of that power, starving for critical criminal information and intelligence. It is driven from two shortcomings:

- 1) The inability to capture information quickly, easily and efficiently.
- 2) The inability to make that information immediately and widely accessible and bi-directionally “shareable”.

Agencies across the country have stepped up efforts to modernize their systems investing in Mobile Data Terminals/Computers (MDT/MDC), Computer Aided Dispatch (CAD), Records Management Systems (RMS), and Jail Management Systems (JMS). These databases house criminal and Law Enforcement related data. It’s great. It’s progress. It’s momentum. But we still have a problem. We are still challenged to:

- 1) Capture the information faster and more efficiently at the point of incident.
- 2) Make the information available unilaterally to all agencies. Globally. *Real-Time*.
- 3) Quickly feed and extract information from these databases efficiently without redundant and costly manual entry.

Most of this crucial information is “stored” in multitudes of agencies across the country, but *access* to that information is limited internally to that agency collecting the data. There are some small regional multi-agency pockets of information sharing. For the most part, however, critical life-saving information is inaccessible to agencies outside of the original “storing” agency. Sometimes it is even inaccessible division to division *within* an agency. Large disparate houses of crucial data exist without effective means to get access to them *from the field*.

How Does COPsync Solve This?

COPsync is the ultimate in-car system or MDT (MDC) with the newest state of the art mobile information technology available, *created to solve the data-sharing crisis*. While MDC is a Law Enforcement term representing computers in patrol cars, COPsync is actually much more. COPsync is a Mobile Technology System that dramatically simplifies field Law



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Enforcement, resulting in a more efficient and effective officer. It significantly simplifies and speeds up report writing, citations, crash reporting, arrest processing, etc. and automates the process of capturing information and reporting Law Enforcement incident data. It puts the interaction of Law Enforcement information into warp speed. It uses *the* most advanced technology to send and retrieve information, *real-time*, to make it immediately and globally available to all agencies and officers utilizing the technology.

COPsync is built to be fully compliant and interactive with the Global Justice XML Data Model (Global JXDM). GJXDM, sponsored by the U.S. Department of Justice (DOJ) Office of Justice Programs (OJP), is developed and supported by the Global Justice Information Sharing Initiative's (Global) XML Structure Task Force (GXSTF). It is *THE* data reference model for the exchange of information within the justice and public safety sectors in the United States. In the second quarter of 2007, GJXDM became the justice domain of the National Information Exchange Model (NIEM). Going one step further, COPsync is written to interact with even the simplest legacy tab or comma delimited data schemas. The founders and developers knew the critical importance of information distribution. COPsync was therefore created in the most open and flexible architecture that not only facilitates but also *DRIVES* collaborative information sharing.

As its name implies, COPsync keeps officers in-sync, real-time, with critical law enforcement information and intelligence. This real-time in-sync information distribution is not limited to sharing only within an individual agency. COPsync's Global architecture is open and intentionally designed to distribute data to any subscribing agency, to include Local, State, and Federal Law Enforcement databases. The information, if so designated by the Federal Government, can even be shared internationally with agencies such as Interpol, etc. It is very important to note that while the information/data can be shared nationwide or worldwide, *each COPsync subscribing agency 'owns' their own information and can chose to limit visibility, partially or totally, should they feel that certain information is highly sensitive or classified.*

When COPsync is adopted, paper goes away. The 8 minutes it took to complete a paper citation becomes 4-5 minutes. The Offense report that took 2 hours is now 1 hour, or less. Paper becomes totally unnecessary for data capture and reporting. Error plagued handwritten reports and the expensive transcribing processes become unnecessary. Officers can process and submit their reports *from the field - at the point of incident*. Each subscribing agency will define their specific approval hierarchy. When the



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officer submits a report, it goes to the designated approving supervisor (if approval is required). Two things occur simultaneously when a field report is approved:

- 1) The report is automatically integrated into the agencies respective RMS.
- 2) The information in the report can now immediately be shared with other patrol officers of any agency on the COPsync system.

This new, highly efficient methodology dramatically reduces the time and effort associated with report writing. It keeps officers in service for longer periods of time. *The 14% clerical staffing dedicated to supporting the paper system is no longer necessary.* Each agency will obviously treat these liberated positions differently. While some agencies will use the opportunity to re-capture budget others have and will take advantage of the opportunity to re-deploy the clerical positions into uniformed enforcement slots. Some slots may go to Information Technology (IT) positions as the computer age has made IT an important asset to the Law Enforcement profession. Many agencies have and will convert these clerical spots to crime analysts as agencies continue to discover how effective analyst are at solving and even forecasting crime. COPsync with its simple and robust information management will generate enormous amounts of critical data points for these crime analysts. Crimes will be detected and solved affecting budgets in ways that will more than pay for those analysts. We will be able to detect the movements and activities of criminal and terrorist elements, for the first time in history, *REAL TIME.*

Computerizing data collection and distribution is extremely valuable at the street or “boots on the ground” level:

Scenario: Officer Adams of ABC Police Department uses COPsync to issue Driver Dave a warning for a broken headlight. Only minutes later Officer Smith of XYZ Sheriff’s Department stops Driver Dave again for the same broken headlight. Officer Smith, who also uses COPsync, benefits from the immediate information sharing by seeing everything on the warning issued by Officer Adams only minutes before.

The above is not an exciting crime stopping scenario *until you hear the rest of the story.* Officers with ABC Police were called to a vehicular manslaughter at an apartment complex. A teenager was struck and killed in the apartment parking lot by a hit-and-run driver. Witnesses saw the vehicle, and identified it as a black Ford truck driven by a Caucasian male. The officer at the scene, using COPsync, immediately sends out an electronic BOLO for the black



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truck and Caucasian driver. Guess who received the BOLO as she stopped the vehicle with the broken headlight? The officer with XYZ Sheriff's Department. The BOLO popped up on their screen as they stopped the black truck, driven by the white Caucasian male. Blood traces were found on the broken headlight. The driver was arrested. The jury found the driver guilty, timing and locations of the two traffic stops were key elements. The paper system would have never caught this person this quickly, if at all. In fact, most electronic systems existing today would not have caught this individual – because these web and browser based systems do not have real-time *information sharing*. Yes, some can share information, but not immediately and real-time. Those systems will share but only with officers in their agency; and hours, if not days later. COPsync with its in-house created mobile data engine called CACHEsync™, shares instantly.

COPsync is not restricted to the patrol car, field computer or laptop. All personal settings and profiles (email, messaging, screen colors, etc.) are resident in the COPsync server, not at the client (laptop or PC). That allows the officer using DOJ encryption standards to log on to any computer that has COPsync installed, whether at the command center or other field office. If allowed by their respective agency, officers can log on from a home computer. A dedicated State Patrol Sergeant was very pleased with this feature. He was spending many hours away from his family because he had to go to his patrol office every weekend, a forty-minute one-way drive to approve reports. He was grateful that COPsync gives precious time with his family back to him.

What COPsync IS NOT

COPsync is not CAD, RMS, or JMS nor is it the typical in-car system. COPsync is a comprehensive technology suite *specifically* created to enhance *in-field Law Enforcement*. This technology was developed to send and receive *real-time* Law Enforcement information and intelligence *in the field, in the patrol car*. It was created to integrate with existing RMS, JMS and CAD systems that already house historical information. It is important to re-emphasize that COPsync was developed *for officers by officers*, focused on enhancing field Law Enforcement by providing *real-time data collection and real-time data access sharing*.

RMS/JMS/CAD serves an important function for the agencies that acquire them. COPsync does not suggest an agency cancel or change their existing systems. COPsync was designed to functionally partner as a simple and effective augmentation to existing systems. How? Subscribing agencies have access to information from all other COPsync subscribers. Most



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existing RMS systems only capture in-house data, limited to that agency. Imagine linking hundreds, even thousands of patrol cars from multiple agencies and jurisdictions across the country. Each of these patrol units would be capturing criminal or offense data real-time in an electronic format. With COPsync this information can now be shared real-time – and it gets better. Mega data warehouses with sophisticated search engines have recently entered the market to facilitate information sharing as an overlay across these existing RMS/JMS/Court systems. COPsync was created to flood these massive data buckets with real-time criminal information collected at and transmitted from the point of incident:

Scenario: A detective is looking for a suspect who is a known active child sexual predator. The detective can submit a standing query for the predator into one of these mega-warehouses being fed by COPsync and RMS/JMS systems across the country. With access to just the RMS/JMS data the detective will be notified when that subject is arrested and/or incarcerated. With COPsync *feeding real-time information to these systems the detective will be notified when any officer subscribing to the system identifies the suspect. Any type of officer contact, where a subject is identified, will feed personal identifiers to the COPsync database, even something as simple as the issuance of a warning citation.* When do you think the detective would like to be notified?

Productive, Efficient, Effective Patrol Activity

COPsync significantly increases the productivity and effectiveness of the officer in the field. Handwritten reports and citations are replaced with much faster electronic data entry. To be of value information has to be easily retrieved. Anything handwritten has to be transcribed into an electronic format and manually put into an agency's database. With COPsync that step is totally eliminated. The officer now captures the information electronically in the field, and via the latest technology in mobile connection management data is distributed to COPsync officers in the field AND electronically transmitted to their in-house RMS and JMS systems.

More efficiency is also achieved by automating data collection. Using electronic card scanning, driver's license information is captured quickly and effortlessly. If the barcode is corrupt data entry is still quick and simple with easy-entry standardized information fields.

For safety and efficiency reasons all of the COPsync screens are designed with a standardized layout to make it easier and faster for the officer to glance at the screen. No more busy and cluttered data returns that are



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nearly impossible to read. Fonts are large and only the specific requested data is displayed.

Virtual Office Suite of Law Enforcement Tools

For day-to-day patrol activity COPsync contains a comprehensive suite of Law Enforcement modules. COPsync becomes a virtual office with everything field officers, field agents, and supervisors need to be effective and efficient. It all but eliminates the costly time spent at command centers or field offices. Some of the included components are:

- Offense Report
- Arrest Report
- eTicket Writer
- Crash Report (with electronic diagramming)
- Dedicated DUI/DWI Report
- Incident Report
- Email (COPsync subscribers only, no spam)
- Instant Messenger (COPsync subscribers only)
- Calendar (Training, Vacation, Court, Evaluations, etc.)
- Photo, Audio, Video Import into Reports
- Multiple State and Federal Crime Data Base Access
- Warrant Database
- APB, ATL, BOLO Alerts
- Civil Process Database
- Electronic Law Library
- Hourly/Daily/Weekly/Monthly Activity Reports



All of COPsync's components are interlaced. Identifiers such as person, location, offense type, case number, vehicle information etc. are captured *once*. Information captured once is available for use throughout the entire suite of forms and reports. Imagine the myriad of forms required for arresting and booking (tow release, tow inventory, sobriety test form, state forms, local forms, jail forms, complaint forms, affidavits, etc.). Repetitive information may be required on the various forms. With COPsync all



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repetitive information required on additional forms is auto-populated. Local jurisdictional information such as judges and courts are stored for easy drop down access. For agencies that participate in special traffic enforcement programs or officers patrolling frequent problem violation zones, location information and related court information is stored for recurring use eliminating inefficient continuous re-entry.

Crisis Notification Accelerated by COPsync

A crisis situation, whether act of man or nature, requires swift and immediate broadcast to as many officers as possible. For the purpose of illustration most are familiar with the Amber Alert, the federal system established to notify the *general public* of a missing or abducted child. Without *instant* information distribution the critical nature of this type of incident compounds extensively with each passing minute. Using the old system that is still mainstay today, the officer collects the offense information at the scene (manually), generating a paper report at the close of the incident. The report is then hand delivered to the command center. At the command center or dispatch center the information is quasi-automated into a teletype broadcast to other command centers (not the patrol cars). Receiving command centers pass along the information to their officers usually by radio broadcast and manually processed BOLO or ATL alerts. The information is distributed via paper handouts, sometimes as late as the next shift roll-call, and sometimes worse, thumb-tacked to a bulletin board. In the mean time agency administrators work to establish the criteria required to meet the qualifications of posting an Amber Alert. The lost time *and* information in this process is substantial. Failure to get this information disseminated immediately, real-time, can be catastrophic, even deadly.

Using COPsync the officer gathers the critical offense information. The BOLO or ATL is immediately broadcast *from the scene* to all officers and agencies in the immediate area and those along the path of the likely direction of travel. These broadcast messages can take place in precious minutes – in a time frame increasing the likelihood of the quick capture of the abductor and recovering the victim. Digital photos of the victim and/or abductor obtained by the officer can be attached to the broadcast message, enhancing and accelerating search and rescue efforts.

Using a crude formula of 1 hour = 50 miles, calculate how far an abductor can travel with his victim in the hours it takes the current officer notification method to work.



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Example:

1 hour = 50 miles.

Notification* time is 4 hours (at best).

$4 \times 50 = 200$ mile escape radius.

What if?

Notification* time is 12 hours.

$12 \times 50 = 600$ mile escape radius.

Or, Notification* time is next day (24 hours).

$24 \times 50 = 1200$ mile escape radius.

(*Communication to surrounding officers and agencies limited to voice (police radio) communications)

Let's look from a different perspective. In a one hundred mile (or two hour) radius there can be as many as 2000 plus officers from multiple agencies and jurisdictions. COPsync can immediately alert ALL of these officers, engaging them as part of a search and rescue 'army'. It also shrinks the radius of the 'escape zone' because of the significantly accelerated notification speed.

Example:

1 hour = 50 miles

Notification* time is 5 minutes.

$0.083 \text{ hours} \times 50 = 4.17$ mile escape radius

If it were a friend or family member - your spouse, your child - which notification system would you want the police to use?

What Real-Time Does for Investigation

In the paper reporting process detectives receive written reports that are at best hours old. In most cases offense and incident reports are received by investigations days or weeks after the initial report was taken. In contrast, COPsync makes these reports available to investigators immediately, from the point of incident. Since all data is captured electronically in COPsync, investigators can perform multiple queries to help them analyze, prioritize and focus investigative efforts.



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COPsync provides investigators with more comprehensive and accurate reports. COPsync prompts field officers to collect pertinent details while on scene rather than relying on follow-up contact and investigations. The quick and easy capture of information using card swipes (readers) gives officers in the field *significantly* more time to perform broader, on-scene investigation. An example of efficiency is the collection of witness information. During most emergency situations or incidents (fire, crash, crime scene, etc.) the capture of witness information suffers. Its priority is diminished when first aid, scene management, preservation, etc. are required. With COPsync the time necessary for collecting information is greatly reduced allowing the field officer to manage the scene and still collect as much information as possible for investigators.

The inefficient paper process contributes to lost or incomplete information as well as information change. As hours, days or weeks pass information becomes less reliable. With COPsync all information is available for immediate investigation. Key witnesses no longer get away, stories are less likely to be corroborated, and details and clarifications can be obtained or made immediately while an incident is still fresh in the minds of those involved. Even if the officer is unable to conduct the entire field interview of the witnesses, their identifications are still in COPsync attached to that specific incident report for further review and investigation.

Scenario: At a structure fire in City A, all witness information is electronically captured by COPsync. About a month later, at a structure fire in City B, all witness information is electronically captured by COPsync. An officer on scene at the City B fire notices that one of the current witnesses WAS ALSO A WITNESS to the fire in City A. What did the officer find? Considering that most arsonists like to watch the fruits of their labors, that officer found a very strong suspect for arson. The officer has the ability to react swiftly with the possibility of immediately capturing key evidence tying him to the fire. With the paper process, and even most electronic systems, the officer would have NEVER known about the fire in City A, much less have access to information about witnesses at the scene that pointed to the suspect. Again, COPsync with its real-time capture and distribution makes information immediately available, potentially resulting in an arrest before the fire is even out.

COPsync also simplifies the reporting process of multi-agency, multi-jurisdictional incidents through a process we call CASEsync™. At a fire, as in the scenario above, or at any other major incident where multi-jurisdictional Law Enforcement agencies are working together, the report of this incident stays electronically intact. Each officer completes their own supplement. The supplement references the



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master case file number, regardless of the owning agency, and attaches itself electronically. No lost paperwork. No need for officers to go to other agencies to file supplemental reports of their involvement with the incident.

Intelligence

Law Enforcement Agencies across the nation are re-evaluating their organizational structures and missions to adjust to the changing needs of our post 9/11 world. Most agree that more efforts need to be directed towards counterterrorism. Instead of costly over-fortification of specialized and operationally vertical intelligence and counterterrorism divisions, agencies are looking to their uniformed personnel to play a major role in counterterrorism *as a course of their normal patrol activities*. Government reports state that four of the nineteen 9/11 hijackers were stopped by patrol officers, issued citations, and were involved in other Law Enforcement controlled events.

Commissioning patrol officers to take on a proactive role in intelligence and other counter-terrorism activities can truly be effective and cost efficient with COPsync. With its nearly effortless ability to capture, deliver and analyze critical data, counter-terrorism intelligence will be a direct by-product of the normal day to day capture of *criminal* intelligence. But first let's consider how the current inefficient paper system and even inefficient electronic systems make this nearly impossible. Because the paper system is so time consuming and inefficient, how frequently have officers made arrests but didn't have the time to identify and log those who accompany the person arrested? More specifically, how often has a driver of an automobile been arrested and the passengers released without capturing their information and associating them with that arrest? Birds of a feather flock together. Who were the passengers? Were they criminals? Gangs? Part of a terror cell? Did that officer just release a drug dealer? Is one of the released passengers a missing or runaway teen? Or a rogue confidential informant (CI)? Could one of those passengers be recruited as a potential CI? Sometimes officers do record the identification of these passengers in their personal notebooks. But is that information computerized so it is available for all to see and analyze? Of course not.

All of this captured information and intelligence gathers valuable points of data for analysts to track the travels of criminal elements; detecting, solving and preventing crime. With its incredibly convenient and efficient means of capturing information COPsync can be a substantial contributor to the intelligence effort, not just in raw data, but mug shots and field intelligence photos as well. What about field interviews (FI) with individuals that aren't



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arrested? What about documenting gang members, their tattoos, their colors, activity, etc? Now with the simple and convenient in-field capture of photos by COPsync, investigators don't have to be limited to drivers' license photos and booking mug shots. Imagine investigators being able to link associates, gangs, gang insignias and other criminal activity with field intelligence photos. Imagine the ability to view the photos *in the field*. *Armed with COPsync, the flood of intelligence that can pour in from thousands of patrol cars from a multitude of agencies will be enormous.*

Public service activities such as traffic warnings, motorist assist, citizen assist etc. also become intelligence data points. With COPsync what once were non-tracked activities can now be points of data leveraged to solve or prevent criminal activity. These points of data can be used for public relations, even manpower evaluations. Officers are always serving the public, helping citizens, and issuing public safety and traffic *warnings*, but seldom is that information captured for statistical purposes. With access to these stats from COPsync, Chiefs and Sheriffs can favorably publish these public service activities. They can demonstrate the service efforts performed by their officers – far beyond issuing the ever-so unpopular and sometimes politically unfavorable tickets.

Another effective use of these statistics would be for officer placement. Using these crime stats, shift commanders could strategically position officers today based on offenses that occurred yesterday.

A Powerful Investigative and Analysis Tool

Without COPsync, drivers' license, vehicle, and location queries return little and limited information. With volumes of easily captured information and intelligence from COPsync, analysts and investigators now have substantial crime analysis and detection capabilities.

In non-COPsync systems a driver's license query might likely return only conviction and adjudication data. What about the endless arrests that still haven't been adjudicated? What about arrests without convictions? What about traffic stops that produce valuable intelligence information? What about field contacts that produce valuable intelligence? What about updated photos/mug shots, or photos of suspect individuals? COPsync easily captures each of these for intelligence value. Right now without COPsync this information is *rarely* captured. With COPsync the driver's license query returns the minimum State captured information and the comprehensive COPsync history of every Law Enforcement contact that the individual has been associated with.



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A normal vehicle query from most motor vehicle databases will only return vehicle make, model, owner and if the vehicle is wanted or stolen. A vehicle query ran through COPsync shows a complete COPsync History of all activities associated to that vehicle such as traffic stops, citations, warnings, arrests, accidents, and even times when the registration was checked but the vehicle was not stopped or approached. The same is true for any location, be it address, intersection, etc. A COPsync query of a specific address or location will return a COPsync History of all police actions associated to that location.

Using COPsync to PREVENT Crime and Harm

For this example, let's examine one of the most heinous criminals; the child sexual predator. These predators are multiple offenders, according to the National Alert Registry (www.nationalalertregistry.com):

- Over 2,000 children are reported missing each day.
- Girls have a 1 in 3 chance of being molested by a sex offender.
- Boys have a 1 in 6 chance of being molested by a sex offender.

Most sexual predators continue their heinous acts, even after arrest and conviction. Predators are published in a Sex Offender Database made public by Local, State and Federal agencies. Yet they still perform their unthinkable acts. If you ask officers how many times they have stopped a Registered Sex Offender during normal patrol activities, *they can't tell you*. Officers across the country routinely write citations, warnings, investigate car crashes and have other contact with sex offenders that have their victims present at time of contact. Without immediate access to these criminal databases officers never know about them. They will unknowingly release them to continue their heinous acts. With COPsync's real-time access to many crime databases, officers will be immediately alerted when they have stopped a sexual predator. They will be able to take the appropriate action to rescue these victims, preventing more harm and emotional damage suffrage. Information is power - power to prevent.

COPsync Will EASILY Pay For Itself

COPsync is a simple and easy system to install. The impact of incorporating COPsync into your agency's day-to-day Law Enforcement operations is minimal. COPsync is a subscription-based system with no up front costs. Return on investment will be quickly realized.



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One obvious source of savings comes from the elimination of the manual, hand-written paper citations. Paper citation books are the method of choice across the country. An analysis of one of our client agencies found citation books, with 25 citations per book, cost \$8 per book or 32 cents per citation. With COPsync that same \$8 would purchase 500 citations or 0.016 cents per citation. If that agency wrote only 1000 citations or warnings per month, paper savings alone would be \$3648.00 per year.

What about the savings that comes from the effective use of human resources? Could some of the 14% staffing mentioned earlier be deployed to retrieve the fines buried in un-cleared warrants? How about overtime savings? Now that officers can complete reports in the field quickly and efficiently, how much report driven end-of-shift overtime is saved?

Report efficiency will be a source of some of the most significant savings. The drastic simplification that comes from electronic report entry will cut report writing time in half. An example is the DUI/DWI report. A DUI/DWI arrest can generate a mountain of forms (varying with state and local requirements):

- District Attorney Offense Report
- Arrest Report
- State Required Forms
- Tow sheet
- Vehicle inventory form
- Field sobriety test forms
- Breathalyzer forms
- Jail and booking forms
- Complaint and other Court forms

These types of arrests and manually processed reports take hours. Some agencies report as much as 3-4 hours of processing time. It is a known fact within the Law Enforcement community that DUI/DWI arrests are sometimes *avoided* (drivers being charged with public intoxication in lieu of being arrested for DWI/DUI) because the officer cannot be out of service for the length of time it takes to process the paperwork associated with a DUI/DWI arrest. For smaller agencies one officer out of service can be a costly and dangerous manpower reduction, especially during the prime times that officers are needed most.



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Veteran officers are hailing COPsync for its ability to cut DWI/DUI arrest processing time in *half or more*. If the arrest time is reduced by 1 hour, the results can be significant:

- 1) One less hour per DWI/DUI arrest, multiplied by how many DWI/DUI arrests made by your department? How many of those arrests cost your department overtime?
- 2) One more hour of patrol to prevent, detect, interrupt, and solve other criminal activity.
- 3) One more hour to arrest another DUI/DWI.
- 4) One more hour to serve warrants.
- 5) One more hour spent on traffic enforcement efforts

It is very easy to recognize the advantages an officer can possess by gaining the extra hour. When you multiply this by the number of officers employed by an agency, this can represent hundreds of extra man-hours per department.

Warrants – Re-Capturing Budget

Warrants accumulate quickly. How many dollars can be recuperated from an effective warrants management system? In a non-COPsync world, most warrants are kept in-house mostly because of the absence of an efficient means of making warrant information accurately available. A local news station did a story about a city that had over \$4 Million in uncollected parking violations and related warrants. Their dilemma was getting the information out to their field patrol officers (over 1500). The officers would have to carry a *book* of all of the names of the violators. Even armed with that *book*, it was impossible to reconcile the cleared warrants. COPsync mitigates this issue in *two* ways:

- 1) Officers with COPsync will be notified of outstanding warrants as part of a person query search. Without COPsync, these direct to the officer warrant notifications do not exist.
- 2) Officers from all agencies can help each other clear warrants.

While some agencies are reluctant to clear other agencies' misdemeanor warrants, patrol officers still need to be notified that these warrants exist. Fearing arrest, many individuals with outstanding warrants are a threat to the safety of the officer. And, if an agency chooses not to arrest and clear warrants issued by outside agencies, the officer, as a public courtesy, will be able to notify the subject about the existence of the warrant. It also tells the



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public that law enforcement *does* keep track of warrants across all jurisdictions. Without COPsync that is seldom if ever the case, *and the public knows it.*

A couple of judges in our travels pointed out that many people will come in the same day or next day to pay their fines. Paper tickets can take several days to process and reach the courts. With COPsync the courts get the information immediately, allowing them to accommodate those who wish to pay their fines early. Both of the judges commented that the people who showed up the first day to immediately take care of the fine frequently became failure to appear warrants because they were turned away until the paperwork could be processed and delivered to the judge.

Dreaded Reports – COPsync’s Answer

Ask *any* officer, weekly reports are at the top of the list of job dissatisfaction. As officers perform their normal patrol duties, COPsync automatically and seamlessly records their activities as they occur. The manual log is no longer necessary. The time consuming and irritating weekly, monthly, quarterly reports, etc. can be totally eliminated. Command Officers and supervisors can pull reports REAL-TIME. Critical information needed for planning, budgeting, staffing etc. is now available any time.

Another strong benefit of the activity log is to protect officers from erroneous and slanderous false accusations. How often are officers falsely accused of misconduct? Daily logs will provide defense to these ill-founded complaints with factual, confirmable, detailed information.

Other Government mandated reports such as Racial Profiling and Unified Crime Reports (UCR) are compiled automatically by COPsync. Vital statistical information sought in these reports will now be available real-time. Agencies will be able to leverage this information to correct weaknesses within their jurisdictions at any time.

Real-Time Information - How?

Immediate information availability is achieved from a custom built connectivity monitoring system in COPsync. We call it CACHEsync™. The system continuously monitors connectivity. As the system detects connectivity information is sent to the centralized database. Should the officer momentarily drive out from under wireless coverage, the system caches information locally in the car computer until a signal is re-established and the information is sent.



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COPsync is connection agnostic. It will work with a hard-wired Ethernet connection or through a wireless connection. It is also airwave or wireless network agnostic. It can take advantage of just about any mobile data environment including but not limited to cellular 'air card' data networks, 4.9 GHz Government Spectrum, and self-healing WiFi Mesh networks.

When there is no signal or connection, most other applications cannot perform their normal functions. As web or browser based applications, many can only operate in continuous connectivity environments. No signal, no information, and no report. COPsync, on the other hand, works in *either* environment. It is based upon a multi-threaded, thin-client n-tier architecture using the latest Microsoft .NET technologies. It allows the officer in the field to create reports, citations, crash reports and other patrol related tasks *even while there is no connection*. The report is written and submitted regardless of connectivity. It caches into the background allowing the officer to work on the next report, citation, or respond to another call, etc. When connectivity returns the report is automatically transmitted (in the background, seamlessly).

As it constantly monitors connectivity, COPsync *automatically* transmits and receives anything the officer has submitted or requested. The ability to work disconnected is a crucial and distinguishing feature of COPsync. While officers, for the most part, will have connectivity, even the best wireless networks have dead spots. Nonetheless, the officer can drive in and out of coverage with the information spring loaded, *ready to be sent and ready to be shared REAL TIME*.

What Software Was Used To Develop COPsync?

COPsync was created using the latest Microsoft Technologies, including C#, SQL Server, and the .NET Framework. It is a distributed mobile computing solution that stores data in a centralized SQL Server Database making the immediate and real-time information sharing possible. COPsync installation takes only minutes using an industry standard installation wizard. Updates are done automatically in the background, insuring all COPsync users are up-to-date with the latest releases and versions. COPsync will run on just about any device that is capable of supporting Windows XP. Specialized or proprietary Mobile Data Terminals are not required. COPsync is a stand-alone application that is agnostic to the hardware that it operates on. It does not require any third party software to be purchased or licensed.



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COPsync is built on an open .NET architecture facilitating and even expediting integration with RMS, CAD, JMS and other Legacy systems. The recommended system requirements for COPsync are:

- 1 GHz 32-bit (x86) Processor
- Minimum of 512MB of RAM, with 1GB of RAM recommended
- 40GB of hard drive free space (80GB drive recommended)
- Windows XP with Service Pack 2 and all of the latest security updates
- Internet Access (Mobile Internet Access if being installed on a mobile Laptop or PC)
- Laptops equipped with Touch Screens are recommended
- USB Serial Magnetic Stripe Reader Recommended (MagTek P/N 21040102 or Equivalent)

The Summary – And The Challenge:

COPsync technology is incredibly powerful. COPsync can be quickly and easily implemented without disrupting the operation of the entire department. Nothing has to be discontinued or displaced, as COPsync was built to functionally partner with existing RMS, JMS and CAD systems. The community and Law Enforcement have the responsibility to execute. Otherwise, implementation of life saving technology gets put off for another year, two, three and on. More lives are lost and more crimes go unsolved or even undetected. Law enforcement agencies and the communities they serve MUST get a sense of urgency about capturing more crime information, and unilaterally sharing the information. This information must be real-time to effectively protect officers. It is truly a second layer of body armor, not just for officers but for citizens too. You read in this paper what this ‘electronic body armor’ could have done for an officer that encountered the psychologically deranged Jones. You *will* read about what COPsync will do to save other officers in the future.

We must diligently and persistently pursue the opportunity to take advantage of the technology that exists in COPsync to make Law Enforcement more efficient. Grants are available to make this technology available to *all* cities and counties, not just those with a lucrative economic tax base. Every patrol car in the country should have COPsync in it. Whether used stand-alone or used to feed and seed existing RMS and JMS systems, the power of immediate information can be exploited to make Law Enforcement more efficient and effective. The effectiveness of COPsync will *more* than replace the budget used to acquire it.



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COPsync will frustrate the efforts of sexual predators. It will immediately alert officers when they have identified an individual with sex offender history. If these sex offenders are in contact with children, teenagers or women, the officer will *now* know to conduct additional investigation. COPsync officers will now be alerted to these heinous criminals, separating them from their prey.

The mountain of data that COPsync will provide will also help the Law Enforcement intelligence community track and monitor the travels and intentions of terror cells, gangs, narcotics and other criminal elements that threaten our safety and livelihoods.

Imagine how many officer-hours can be recovered by reducing time spent completing DUI/DWI, Offense Reports, Crash Reports and other similar time-consuming reports. Imagine the warrants that can be cleared because warrant data is now widely available to all. Imagine the warrants that can be cleared, if officers simply had knowledge of the warrants existence. Imagine your department now having access to ALL officers nationwide. The crime fighting opportunities of a Law Enforcement agency linked to every officer on the street is unlimited.

Meet COPsync in Person

We welcome the opportunity for you to allow us to send one of our representatives to visit you personally. This will give you first hand knowledge of the power of COPsync. Experience what real-time information capture and global information sharing can do for your department and your community. Let us assist you in obtaining one of the information sharing grants. We welcome you to contact COPsync's parent company at:

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