CORRESPONDENCE

Arlington Heights Police Department

TO: Commander Petar Milutinovic #643

FROM: Sgt. Sean Edmondson #582

DATE: November 30, 2022

SUBJECT: FUSUS PROOF OF CONCEPT TEST

This correspondence is to recommend the department initiate a thirty-day (free) proof of concept test of the FususONE software platform to better serve the people of the Village of Arlington Heights and the Officers of this department.

The FususONE platform is a Google map-based interface integrating private and public video streams into a single feed to expedite intelligence gathering and inform responses to critical incidents and every day calls for service. Through the Fusus platform, license plate readers, geo-location data, building floor plans and live surveillance footage from public and private sector sources are combined and accessible through a mobile application and computer software for dispatch, police personnel, traffic and incident management.

FususONE combines surveillance footage regardless of the operating system, into a common platform, allowing the real time review of developing incidents. Through the deployment of a Fusus Core a small piece of hardware applied to a chosen network, any location's surveillance cameras can be up-linked for direct and immediate access by the department through approved computers and the Fusus cellphone application. This flexibility allows the integration of surveillance cameras as prioritized by our agency for problem areas/locations such as the Red Roof Inn or to improve emergency response capabilities for schools and critical infrastructure.

The FususONE program is designed to work in conjunction with the established Computer Aided Dispatch (CAD) system to identify surveillance systems located in close proximity to dispatched calls for service. Once identified, live surveillance footage is automatically relayed to responding personnel, along with a mapped depiction of the location and orientation of the camera being reviewed. Access to this footage allows officers to develop a strategic response, verify or discredit claims, review footage of potential suspects and witnesses rather than rely on eye witness accounts and determine the potential hazards posed by a given approach. By uploading the floor plans of critical infrastructure to FususONE such as Northwest Community Hospital and our local schools, officers can use the mobile phone application as they travel to understand the floor layout of a location while reviewing live camera feeds of the dangers hidden behind each door and around each corner. Through a messaging feature of the program, a text/image thread can be created for specific incidents for officers to relay pertinent intelligence. In an active threat situation, this real-time intelligence is critical for the safety of officers and their capability to expediently eliminate a threat and mitigate danger posed to the public.

In addition to real-time capabilities, the program provides approved department personnel the capability of retroactively reviewing surveillance footage to capture still images of pertinent subjects which can be immediately disseminated to personnel through the mobile application. In critical incidents, disinformation often clouds an already chaotic, complex

situation. Reports of multiple offenders, contradictory suspect descriptions and inaccurate accounting of events challenge the judgment of responding officers. Given the exposure of the incident to an extension of the surveillance network, clarity can be found through the rapid collection and dissemination of intelligence. Through artificial intelligence, the program is capable of conducting a search through recently archived footage for specific vehicles by type, make, model and color. This allows officers to identify vehicles related to a given crime and their route of travel for rapid dissemination to department personnel and surrounding jurisdictions. During major incidents, personnel throughout the police department, to include detectives seated at their desks can contribute to the response effort through the proactive review of pertinent footage and immediate dissemination of intelligence.

For detectives, upon being assigned a case they can immediately review any pertinent footage retained through the surveillance network and upload it directly to evidence.com. To expedite video canvassing, the program contains a community registry, allowing residents to register their cameras, location and contact information directly with the police department. Once these cameras are registered, requests for footage can be disseminated by highlighting a geographic area. Residents can upload the footage through the Fusus system where it is uploaded into a vault for access at a later time.

The strength of the program lies within the reach of the network of incorporated surveillance cameras. This will take time and considerable community outreach efforts to establish. [redacted] emergency operations center during major events can make informed decisions related to resource deployment and traffic management. The system is capable of incorporating traffic monitoring cameras through FLOCK, or even live feed only Department of Transportation (DOT) cameras.

The system was designed to work in collaboration with any software, but was formed to specifically work in conjunction with Axon products. The program has full integration with Axon Body Worn Cameras (BWC) to capture officer location, BWC recording status and access to BWC live streaming video. Other public safety cameras software programs such as drone, robot or even plane/helicopter cameras can quickly be added/removed from the network given operational need.

To review a real-world application of the FususONE program, Det. Pacyga and I traveled to Orlando and St. Cloud (Florida) Police Department's to review their real-time crime centers. Both of these police department's employ intelligence units consisting of full-time personnel to assist in response efforts and proactively detect and enforce certain targeted criminal activity.

Orlando Police Department's Intelligence Unit consists of four assigned Detectives, a Captain and eight full time analysts. The FususONE program is displayed on large monitors throughout the intelligence center. Through different work stations, Detectives actively assist with response to calls for service or by monitoring problematic areas. While we were present, we observed the function of the system as a license plate reader

transmitted a "hit" on a stolen car. Within minutes the analysts reviewed the initial report, identified a suspect and transferred the information to the Detectives as they monitored the vehicle's travels through their town. Through the FususONE platform, this information was relayed to officers in the area of the vehicle within minutes. A few moments later Orlando PD Officers engaged in a foot pursuit of a suspect wanted for a violent crime. Instantly, the Detectives assigned to the intelligence unit accessed the officer's body worn cameras and a map of their location from their body cameras, providing suspect information and directions to set up a perimeter. The Captain of the unit, Jay Draisin, informed us the "Electric Daisy Carnival" was scheduled for Camping World Stadium, a venue holding 65,000 people. Draisin advised the incident would be managed as a special event through FususONE. He explained the program allows users to create a separate event window, allowing a team to concentrate their efforts on traffic, response, monitoring. To manage this, the Orlando Police Department hired back four employees to work within their intelligence center focused only on this event.

The Orlando Police Department consists of over 800 sworn officers and 150 civilians to serve population of around 300,000 people over an area of approximately 119 square miles. Their intelligence center was impressive, but is not comparable to the needs of our agency. To better understand how smaller agencies incorporated the program, we traveled to St. Cloud Police Department. St. Cloud has a population of approximately 58,000 residents and 100 sworn officers. Pacyga and I traveled to St. Cloud and met with Crime Analyst Erica McKinnon to review their operation. McKinnon provided us with an overview of their intelligence center, which consists of four computer work stations and approximately fifteen different large screen televisions set to actively monitor different social media application feeds, local news, weather patterns, department/village hall and area traffic cameras. Four of these monitors were dedicated to FususONE. These televisions displayed showing the location of every officer, squad car, ambulance, fire truck and camera within their town overlayed on a Google Earth map. McKinnon demonstrated the camera and floor plan function of the program by showing us the layout of their local high school and accessing various cameras throughout the building. McKinnon demonstrated the function of each aspect of the FususONE program and offered no complaints. She indicated the agencies surrounding St. Cloud were in the process of adopting the program. Once on board, she anticipated each town being able to share information and utilize the platform for resource management in the case of a multi-jurisdictional response.

Locally in the Chicagoland area the Oak Lawn Police Department was the first to implement the program. Currently, several jurisdictions to include Cicero and Orland Park Police Department are conducting proof of concept testing to assess the effectiveness of the program. Proof of concept testing consists of a thirty-day free trial period. This includes the installation of five FususCORE pro appliances, Floorplan integration, access to software and training of users and the integration of the Department's CAD into FususONE. I recommend the command staff assess the viability of this software for the safety of our officers and our ability to serve and protect the citizens of Arlington Heights.

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Criminal Investigation Bureau