



NUCLEUS
RESEARCH

Benefit Case Study: Cellebrite Inseyets at Police Department

ANALYST

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The Bottom Line

A police department deployed Cellebrite's Inseyets platform to take advantage of modern features for data extraction, parsing, and forensic lab automation. Previously using a combination of solutions, including a legacy version of Cellebrite Physical Analyzer and a lab automation tool from a different vendor, the agency decided to upgrade to Cellebrite Inseyets to take advantage of new features while maintaining tight integration across its digital forensics technology ecosystem. Nucleus found that upon rolling out Inseyets, the agency was able to accelerate its data extraction process on seized devices by an average of 15 percent, saving \$105,807 annually. Automation capabilities within Inseyets also saved examiner time spent processing reports, translating to more than \$122,800 in reduced annual overtime costs and improved employee well-being.

The Agency

This Division of Police has more than 1,800 officers and 300 civilian employees. It covers more than 15 precincts, serving more than 900,000 residents. The agency's primary focus is the safety of those it serves while treating residents with respect, dignity, and fairness.

The Division of Police serves more than 900,000 residents.

The Challenge

Prior to the deployment of Cellebrite Inseyets, the division's digital forensics unit had multiple products in place, including a legacy version of Cellebrite Physical Analyzer 7 for digital data examination, which it used for more than 95 percent of its phone examinations. The agency needed to upgrade its instance of Physical Analyzer and wanted to take advantage of automation capabilities through an Inseyets add-on called Autonomy. While the agency had deployed a competitor's automation solution previously, examiners still needed to spend hours each weekend creating Cellebrite Reader reports from extracted data, prompting the need to seek out a new solution.

The Strategy

At this time, a digital forensics detective for the agency was part of a working group that focused on implementing Inseyets Physical Analyzer. From there, the unit started to use the solution and, through this, was introduced to Inseyets Autonomy, which would enable the agency to automatically create a Cellebrite Reader report with data from Physical Analyzer.

"A competitor's automation product wasn't as good [as Autonomy]."

- Detective

Cellebrite products were already popular among detectives and prosecutors in surrounding agencies, which along with the agency's experience using other Cellebrite tools, solidified the decision to upgrade to Inseyets. The three key products leaders looked to take advantage of within the suite include Inseyets UFED, which extracts data from a phone; Inseyets Physical Analyzer, which parses the data; and Inseyets Autonomy for lab automation. The agency noted a quick upgrade time for Inseyets UFED and Physical Analyzer, with the bulk of implementation work surrounding the Autonomy deployment. For example, Cellebrite adapters needed to be purchased to connect the tool to the database, and a digital forensics detective built a virtual machine to support the solution.

The Inseyets suite, including Autonomy, officially rolled out in August 2024, with the full upgrade completed by the end of 2024. While the

agency already used a version of Physical Analyzer previously, it used a “train the trainer” approach for any inquiries about new features. Training on Autonomy also presented a minimal learning curve, especially for the seasoned examiners within the unit. A one-page Word document was created to introduce the features of the product and how to use it. Overall, leaders reported little to no time spent on ongoing maintenance, noting the Inseyets solutions as being “self-sustaining” once up and running.

Primary Benefits

The deployment of Cellebrite Inseyets delivered several benefits, including faster evidence extraction from new features available in the upgraded version of Physical Analyzer. Additionally, Autonomy enabled examiners to spend less time creating reports, leading to reduced overtime and improved well-being.

Faster evidence extraction

The Inseyets upgrade enabled the agency to transition from the legacy version of Cellebrite’s Physical Analyzer to an updated version that includes the latest technology advancements with Inseyets. Across various data sizes, the agency increased the speed of evidence extraction by an average of 15 percent. Processing approximately 2,400 devices annually, this acceleration led to approximately \$105,807 in annual benefits.

Reduced overtime

Prior to the deployment of Cellebrite Autonomy through the Inseyets upgrade, the agency’s detectives and Sergeant had to spend six hours of overtime creating Cellebrite Reader reports each week. This was mostly comprised of time spent visiting the office over the course of a weekend completing the reports. Now, with Autonomy in place, employees can upload data to the tool, which automatically creates a report. Nucleus found that by automating this process, approximately four hours of overtime was eliminated for each examiner, leading to approximately \$122,822 in annual cost savings for the division. Time previously spent creating Reader reports can now be entirely reallocated to deeper analysis.

Improved employee wellbeing

By eliminating the need to spend extra time at the Police Department, especially on weekends, the upgrade to Cellebrite Inseyets has significantly improved satisfaction among the division’s forensic

A 15% acceleration of Evidence extraction through the upgraded Physical Analyzer translated to \$105,807 in annual cost savings for the division.

Autonomy, a product within the Inseyets suite, drove a \$122,822 annual reduction in overtime costs while improving employee well-being.

examiners. Specifically, the addition of Autonomy led to lower hours required for the same amount of work output. This has led to substantial mental health and well-being improvements within the division.

Lessons Learned

This project highlights the importance of having modern capabilities in place for digital forensic examination. One leader noted that digital forensics is unlike any other assignment in law enforcement due to how quickly the technology evolves and the crucial part it plays in solving crimes. Not only did the agency's upgrade to Cellebrite Inseyets and subsequent rollout of Autonomy meet the stated goal of adding efficiency to these operations, but it also had a positive effect on the work-life balance of its examiners, leading to higher employee satisfaction. The project also serves as a substantial proof-of-concept, with savings realized within a short timeframe of approximately three months.

"If I can put something in [Autonomy] Friday and know that it will be ready on Monday, I don't have to explain to my family that I have to go into the office on the weekend"

- Detective