



IJIS Institute

TECHNOLOGY ASSISTANCE ENGAGEMENT REPORT ABSTRACT

MILWAUKEE POLICE DEPARTMENT

Client Agency

Milwaukee (Wisconsin) Police Department (MPD)

Participating IJIS Institute Staff

Don Gabbin, *Engagement Manager*

Participating IJIS Institute Consultants and Firms

Bob Kaelin, *MTG Management Consultants*

Bob Slaski, *Open Networks*

Dates Services Provided

Site Visit – 4-5 March 2015

Overview of TA Request

Through the Frontline Initiative, MPD has sought to create sustained, long-term reductions in high crime areas by distilling more information from the independent technologies supporting the frontline officer. The MPD currently uses:

- ATF National Integrated Ballistics Information Network (NIBIN) and eTrace databases.
- Shot Spotter Technologies (SST).
- Bair Analytic Software – ATAC Workstation.
- Relational Databases.

The Milwaukee Police Department has expanded their existing technology framework to accept, integrate, clean, and enable visualizations as well as reporting information from new data sources. As part of this expansion, Milwaukee users developed a user interface dashboard and federated search capability from a suite of currently disparate databases that are used to analyze, investigate, and prevent gun crime. The IJIS Institute will provide TA services to the Milwaukee PD and its project partners to determine how they may maximize the benefits of the program by the use of Global standards and information sharing best practices.

Specifically, the MPD has requested that the TA Team focus on the following areas:

1. Identification of the integral components of an information sharing plan and strategy for Milwaukee PD and Frontline.
2. Performing and assessment of the current systems in place to support Frontline.
3. Identification of potential new data sources to feed Frontline.
4. Identification of desired sharing partners for Frontline data, access, and information.
5. Determining how Global Standards including the National Information Exchange Model (NIEM), Global Reference Architecture (GRA), and Global Federated Identity and Privilege Management (GFIPM) can be used to support MPD needs.
6. Discussion on the desired To-Be environment with a focus on where Global standards can be used to ensure that solutions are scalable and reusable.
7. Review and assess existing security and access procedures.
8. Review current plans for future Frontline phases and any plans to upgrade or enhance existing hardware and software.
9. Providing information on how differing architectural designs for system interoperability produce corresponding risks and benefits, including how specific designs impact data ownership and stakeholder input into system operations.
10. Review of methods for determining sufficiency of existing network infrastructure (versus need for enhancement), as well as hardware and software applications of legacy data systems—in preparation for interoperability and information sharing requirements with desired sharing partners.
11. Providing suggestions for effective governance between Milwaukee PD and desired sharing partners to manage and coordinate project and sharing activities.

Type of TA Services Provided

The IJIS Institute's TA team performed a site visit on 4-6 March 2015 in Milwaukee, Wisconsin, and conducted meetings with key management, operational, and technical staff from both the Milwaukee Police Department (MPD) and the City of Milwaukee. Specific activities performed by the TA team included fact-finding interviews and reviews of documentation provided by the MPD. The TA team also met with the IT contractor's working with the MPD and briefed the Milwaukee Homicide Review Commission. Specific onsite activities that were performed by the TA Team included:

- Problem Definition:
 - Review major Milwaukee PD concerns and issues relating to Frontline information sharing and determine the priorities for each area of concern.
 - Review of relevant current and planned system enhancement objectives.
 - Review of relevant current and planned information sharing objectives.
- Current Situation Assessment:
 - Gather information and documentation on all current Frontline operations, systems, and infrastructure.
 - Gather information and documentation on current requirements for information sharing.
 - Review of current use of best practices for national information sharing standards.
- Needs Analysis:

- Determine any IT (technology, infrastructure, hardware, software, etc.) required to meet information sharing needs.
- Identify the computer technology applicable to facilitate the continuation of real-time information sharing.
- Determine if there are any training needs (such as system, IT, National Information Exchange Model).
- Recommendations:
 - Develop general and specific recommendations relevant to the design, development, implementation, and operation of information sharing using the Frontline initiative and determine expected features and capabilities.
 - Develop recommendations for potential improvement of information sharing processes.
 - Provide specific recommendations about where Global standards can assist in bridging identified needs and gaps.
 - Identify successful existing models, architectures, case studies, and approaches that can be leveraged for Milwaukee PD and Frontline purposes.
- Actions and Initiatives
 - Define short-term actions.
 - Define long-term initiatives.

Overview of Observations and Recommendations

As observed by the TA Team, the MPD has successfully developed and implemented much of the Frontline initiative. It was clear that the Frontline model for information sharing holds considerable promise, but to fully realize its potential for replication and expansion, the MPD needs to adopt a standards-based approach that leverages components of the Global Standards Package, such as NIEM and GRA. It was also evident to the TA Team that the MPD and the team responsible for Frontline has embraced information sharing as a key objective for the coming years that will drive operations, business processes, and governance.

The list of recommendations, found in the full TA report, address the major needs and concerns as identified and understood by the TA Team. Additionally, some of the TA assessments addressed concerns in collateral areas beyond that which was specifically requested.

Contact Information

Don Gabbin
Engagement Manager
donald.gabbin@ijis.org
703.726.3647

IJIS Institute
<http://www.ijis.org>
info@ijis.org
703.726.3697