



FBI N-DEX

Sharing Critical Information to Fight Crime and Terrorism



Key Features and Benefits

- Enables federal, state, local and tribal law enforcement agencies to share information to respond quickly to threats
- Manages ingest and correlation of law enforcement data from across the country
- Allows various levels of control over access and use of data to ensure security and to protect privacy
- Provides a flexible, scalable service-oriented architecture based solution
- Combines technology, rules and processes to relate massive amounts of data into useful information

“N-DEX highlights the ability of the FBI, Raytheon and the law enforcement community to work together to improve criminal investigations nationwide”

Kevin Reid, FBI N-DEX Program Manager

Raytheon is helping the Federal Bureau of Investigation's Criminal Justice Information Services Division to put powerful, yet simple-to-use, information sharing capabilities in the hands of law enforcement agencies nationwide. Dramatically enhancing public safety, the National Data Exchange (N-DEX) system will enable federal, state, local and tribal agencies across the country to effectively work together with actionable information to help fight crime and prevent terrorism. From incident reports to incarceration data, N-DEX gives users an easy way to search, link, analyze and share criminal justice data on a national basis in ways never before possible.

As the prime contractor and systems integrator, our support for N-DEX includes the design, development, engineering and implementation of the N-DEX system, as well as user support, operations and maintenance. When complete, the system will enable up to 200,000 investigators in 18,000 federal, state, local and tribal enforcement agencies to collect and share incident and investigative information. Users are estimated to make about 6 million queries a day through the system — moving key investigative information across disparate systems and jurisdiction boundaries, and into the hands of those who need to know.

Raytheon

FBI N-DEx: Enhancing the Nation's Ability to Fight Crime and Terrorism

A Nationwide Partnership to Fight Crime

The September 11 attacks drove home the importance of information sharing in law enforcement and national security. The deployment of N-DEx marks the first time in U.S. history that federal, state, local and tribal criminal data has been openly shared.

Although law enforcement is the initial focus, N-DEx future iterations will incorporate the larger criminal justice community such as courts, probation agencies, parole boards, and prisons. The FBI's ultimate goal is to transform all available criminal justice data into knowledge for the entire justice community. The foundation of the N-DEx solution supports the long-term vision of information sharing across a wider set of agencies and boundaries. This vision will evolve as N-DEx is implemented, but it establishes a larger framework within which to explore a broader law enforcement information sharing strategy. Our open, scalable, standards-based architecture provides a flexible and expandable N-DEx system that meets the long-term requirements necessary for FBI to provide efficient, cost-effective support for the law enforcement community now and in the future.

Working together with the FBI and the end user community, Raytheon is developing and deploying N-DEx to provide a nationwide capability to share critical criminal data, and provide new investigative tools that enhance the Nation's ability to fight crime and terrorism. Our architecture solution will give the law-enforcement community intuitive ways to rapidly search and visualize data, new insights into the data's non-obvious relationships, and easy ways to collaborate as virtual investigative teams. While supporting the information sharing needs of all levels of law enforcement, N-DEx will ensure security and protect privacy in

the handling, storing and sharing of sensitive incident-based information.

The N-DEx system is being developed and deployed incrementally consistent with functional, operational and technical priorities. Each phase results in a unique, discernable service, or capability. Our approach is driven by the desire to offer as much capability as possible without added risk, and to engage the law enforcement user community throughout the development process to ensure N-DEx meets their information sharing needs.

Increment 1	Raytheon successfully completed and deployed Increment 1 in March 2008, establishing a single point of integration and discovery for national criminal justice information. Up to 50,000 users will be able to capture case data and conduct entity resolution on incidents and arrest data, correlating the data to result in the identification of candidates for consideration.
Increment 2	This increment will provide subscription and notification, geovisualization and collaboration capabilities and will include additional data sources. Increment 2 increases users of the system to 100,000, by integrating additional law enforcement agencies, including additional federal agencies.
Increment 3	The final increment will provide a completed system for 200,000 users, with a comprehensive set of web services to facilitate navigation and usability. Enhancements to the correlation and visualization tools help users detect crime networks, patterns, and trends. This phase completes the N-DEx vision by giving ubiquitous and seamless access to the entire law enforcement community.

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