



## Sypherlink National Information Exchange (NIE) Gateway™ Solution

The proven NIEM conformant data management infrastructure

### Key Benefits

- Accelerates implementation of – and participation with – data sharing and intelligence efforts
- Speeds conformance to National Information Exchange Model (NIEM) standard
- Enables access to current and future federal grant funding
- Protects investments made in existing standards, systems and infrastructure
- Enables management and control of data and systems

Law enforcement, criminal justice and homeland security organizations must be able to share and exchange data cost-effectively, securely and accurately across jurisdictional and technological boundaries. But today, it's a laborious agency-by-agency, mostly manual approach to information sharing that is often cost-prohibitive.

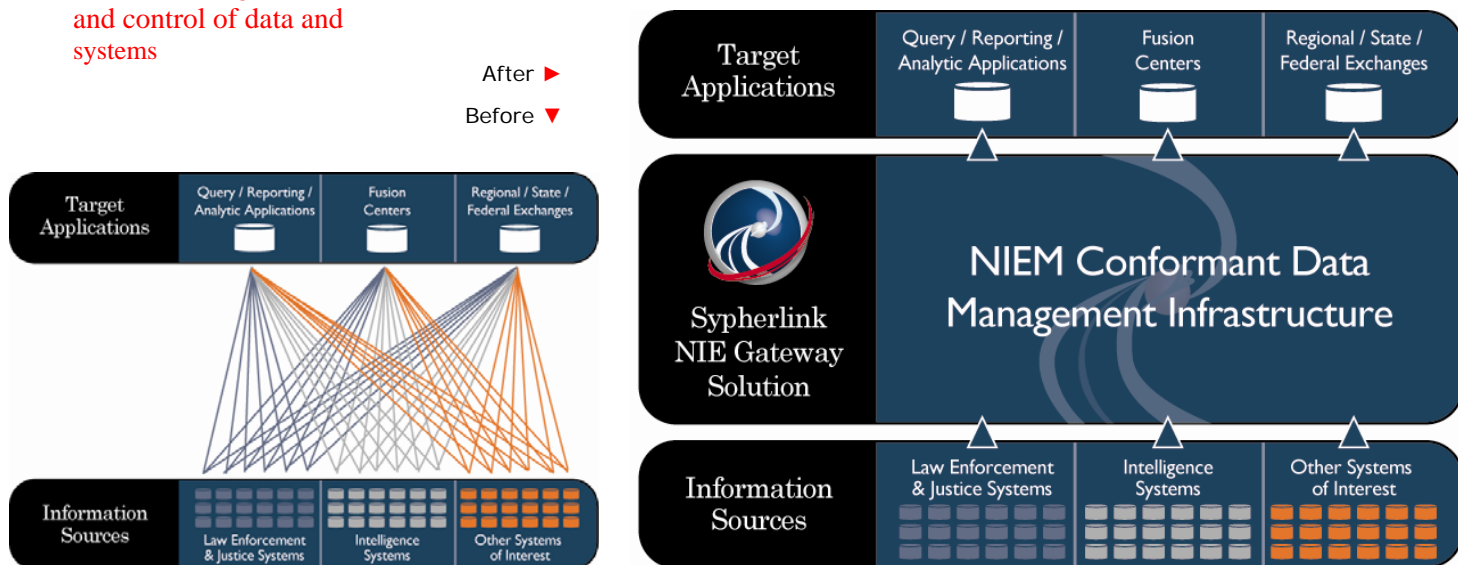
The Sypherlink National Information Exchange (NIE) Gateway solution overcomes these hurdles, accelerating government information sharing and intelligence efforts. By combining patented technology, rich data sources and applications, and services into a single, best-of-breed infrastructure, the NIE Gateway provides, for the first time, automated, intelligent linkage across disparate data sources and much richer information to make better decisions.

### Key Features

The NIE Gateway solution consists of one or all of the following integration design and production components, depending on an organization's specific needs:

#### **AUTOMATED DISCOVERY & MAPPING TECHNOLOGY – to replace costly, manual processes**

Sypherlink's unique data discovery and mapping technology – Sypherlink Harvester™ – utilizes a form of artificial intelligence and probability-based matching algorithms to automate the traditionally manual and time-consuming mapping process. Using Harvester, government organizations can accelerate and automate this cumbersome process, and reduce the time, effort and cost associated with it.



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*“Law enforcement officials and intelligence analysts often work from outdated or incomplete data, putting them at an obvious disadvantage. The NIE Gateway solution offers a more complete picture, by combining identity resolution across both internal agency and Axiom and D&B commercial databases. The more background information investigators and analysts have, the better equipped they are to do their jobs.”*

*Wesley Wong, a former FBI senior executive who set up the Bureau’s New York fusion center post-9/11 and is now a director of business development at counterterrorism-software provider Harbinger Technologies, an Axiom company*

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#### **REFERENCE KNOWLEDGEBASE – to accelerate data conversions**

Sypherlink has worked with and built custom interfaces to dozens of the nation’s leading records, case- and law-enforcement management systems. These interfaces enable agencies to export their data mappings to the next step in the data integration process, thereby jump-starting their participation in regional, state, or federal data sharing initiatives. Sypherlink will also build new adapters to additional agency and in-house applications. Once complete, these adapters become part of the Reference Knowledgebase library.

#### **NIEM REFERENCE HUB – to facilitate federal standards compliance**

The NIEM Reference Hub contains a fully-relational data model which conforms to the National Information Exchange Model (NIEM) framework set forth by the U.S. Departments of Homeland Security and Justice. This relational model enables agencies to quickly and easily embrace the canonical NIEM standard.

The NIEM Reference Hub also serves as a staging area for data before it is moved into the production integration environment.

#### **INTERFACES TO RICH INFORMATION SOURCES – for a more complete picture**

The NIE Gateway also offers pre-built interfaces to rich information sources such as D&B’s commercial database of more than 110 million commercial business records and Axiom’s Risk Mitigation data of several billion consumer records. By incorporating this information, law enforcement officials and intelligence analysts have access to a more complete picture. Information immediately accessible through the NIE Gateway includes directory information, professional license directories, property/personal asset information, financial data, and commercial business information.

#### **PRODUCTION DATA INTEGRATION COMPONENTS – designed to easily and cost-effectively accelerate government data sharing programs**

**Sypherlink NIEM Harmonizer™:** This out-of-the-box component enables law enforcement agencies to quickly and cost-effectively share data while conforming to the national NIEM standard. Sypherlink works with the agency or application vendor to configure this component to work behind-the-scenes to provide NIEM standardization and validation, as well as to generate the simple or complex XML required by the receiving application.

**Sypherlink Data Mover™:** This lightweight and economical Extract, Transform and Load (ETL) tool provides a way to move data from one relational application to another. Sypherlink Data Mover provides change data capture of source data and can be used to create staging areas for agency production systems.

**Sypherlink Federation Hub™:** This production-ready data federation platform enables the ability to access existing, disparate data sources virtually, securely and non-invasively, as if from a single repository. Sypherlink Federation Hub then combines, abstracts and simplifies this complex data, and delivers it via data services. This platform includes a robust GUI-based interface for data modeling, data services building, services management, and security configuration.

The NIE Gateway provides all of the critical components necessary to jump-start data sharing initiatives, enrich analyst views, and increase participation in data sharing initiatives. **For more information, visit [www.sypherlink.com/gateway](http://www.sypherlink.com/gateway)**