



NATIONWIDE HEALTH INFORMATION NETWORK (NHIN) IMPLEMENTATION SUPPORT

EDMOND SCIENTIFIC COMPANY
We Engineer Solutions.

Purpose:

To facilitate data sharing and protection within Health Information Exchanges (HIEs) and the Nationwide Health Information Network (NHIN) through Integration Engineering.

Applications:

- Clinical Data Exchanges
- Health Data Repositories
- Health Enterprise/Health Provider network data integration
- Population Searching
- NHIN integration

Results:

- Reduced time to sharing of data through HIE/NHIN architectures
- Improved governance and oversight over existing contractor efforts
- Improved ability to develop business plans for investment decisions
- Higher litigation readiness

Exchanging Health Information through the NHIN

Exchanging health data through Regional Health Information Exchanges (RHIOs) requires participating organizations to become components of a “network of networks”, that is the Nationwide Health Information Network (NHIN). These participants must combine data from distinct organizational governance and trust relationships, provider organizations and competing healthcare markets, consumer applications and participating consumers, and existing health exchange activities. Yet, not all participants are at the same level of technical sophistication, and must meet a set of seven “*convergence criteria*”© before sharing data without elevating risk. These seven convergence criteria that define the strategic technology roadmap—the “*Road to RHIO*”© for participating organizations are:

1. Supplying health data from local systems
2. Consuming data from other HIE and NHIN systems
3. Patient identification and matching
4. Privacy and Authorization mechanisms
5. Litigation readiness©/discovery/risk management
6. Social Security disability claims
7. Public health reporting/Biosurveillance

Edmond’s Integration Engineering Solution

We support our clients by executing a robust systems engineering methodology specifically crafted to support enterprise integration for HIE/NHIN participation. We begin with a brief assessment of the participating organization either at the enterprise (health provider), cross-enterprise (HIE), or cross-community (NHIN) tiers, and produce a strategic roadmap for the seven convergence areas for each organization which would be addressed by a business plan. Technical recommendations are made for investments to be made by the organizations at each of the three integration tiers. When funding becomes available, we support the execution of the roadmap with skilled and experienced programmers and architects.

Edmond’s Experience

Edmond’s data architects and enterprise engineering (*e*²) professionals are involved in supporting the development of HITSP and OASIS standards for health data exchange, as well as being principle architects involved in both federal (DOD, Veterans Affairs, and Health and Human Services) and federal-civil health information exchanges. Edmond’s staff includes professionals experienced from the NHIN Trial Implementation, other federal health data exchanges, and unique expertise in implementing security and privacy solutions for clinician asserted rights, purpose-based access, flexible-extensible policy management, and patient determined privacy preferences/consent directives..

Having developed integrated data solutions, Edmond leads the effort to both supply and consume health data—including imagery—across the federated enterprise in a manner consistent with service oriented architectures (SOA) and evolving standards. Our capabilities also include the implementation of records management solutions to support health litigation/risk management in an HIE/NHIN setting.

For more information, please contact Mary O’Donnell at 703-896-7681 or email at modonnell@edmondsci.com