

DATA INTEGRATION

Planning and implementing methods and tools to integrate data.

EAI. ETL. Schema Validation. Data Mapping. HIPAA De-identification. Vocabulary Harmonization. Rules Filtering.



Emergint provides clinical data harmonization and integration, systems design and development, and workflow management services. Our engagements require us to study current business processes, and provide support and improvements on sophisticated data and records flow. We help organizations identify and solve critical factors that may impact success for integration efforts of any size.

Services & Expertise

- ◆ Data Integration Architecture
 - Coupling requirements & implementation
 - Assessment & evaluation
 - EAI
 - ETL/ELT
- ◆ Standards Development & Application
 - Legacy reengineering
 - Validation & compliance
 - Schema integration
- ◆ Software Development
 - Assessment & evaluation
 - Architecture & design
 - Development & integration
 - Implementation & tuning
 - Support & monitoring
- ◆ Data Enhancement
 - Message & data transformations
 - Vocabularies management, validation, standardization & harmonization
 - Geo-coding
- ◆ Data Profiling & Reengineering
 - De-duplication and matching
 - Identity management (MPI)
 - Metadata management
- ◆ Data Surveillance
 - Rules filtering
 - Notification & alerting
- ◆ Real-time Messaging
 - Metrics collection and reporting
 - Message store & transaction log
 - Platform implementation
- ◆ Health Information Exchange
 - HIPAA de-identification & minimum data set
 - Longitudinal patient identification
 - HL7

Emergint DCTS (Data Collection and Transformation System)

Emergint's Data Collection and Transformation System is commercial off-the-shelf (COTS) software that enables interoperability by providing common components for collecting, harmonizing, and integrating disparate software systems. More information is available at <http://www.emergint.com>.

Experience

Client: Centers for Disease Control & Prevention (subcontract to SAIC)
Project: BioSense
Location: Atlanta, Georgia

BioSense is an enterprise system for the early detection and response to bio-terrorist activities. Emergint provided messaging and data integration expertise, in addition to the following services:

- ◆ Customized and implemented Emergint DCTS to provide data integration services to enable numerous national batch data feeds to be loaded into CDC warehouses
- ◆ Collaborated with BioSense partners to understand and document requirements
- ◆ Developed Symphonia mappings for multiple data source feeds
- ◆ Provided vocabulary and dictionary management services for mapping and harmonizing clinical data
- ◆ Provided operational monitoring and 24x7 second and third tier technical support

Client: Centers for Disease Control & Prevention
Project: NEDSS Messaging Subscription Service (MSS)
Location: Louisville, Kentucky & Atlanta, Georgia

Emergint designed and developed the NEDSS Messaging Subscription Service (MSS), which utilizes Emergint Plug-Ins to enhance a commercial EAI. MSS allows users to subscribe to receive copies of messages which contain topics of interest.

Client: EPA (subcontract to CSC)
Project: Contamination Warning System
Location: Cincinnati, Ohio

Emergint performed capabilities assessments to define system architecture for the WaterSentinel project, which will provide real-time surveillance of our nation's water supply.

Emergint has been involved exclusively in Public Health Surveillance-related activities for the pilot implementation; these activities include data integration support (analysis, design, and implementation) between early-warning data streams (9-1-1 call center and emergency medical services) and the overall WaterSentinel pilot.



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