

# CDC SOLUTIONS



Below are applications created by the CDC, often in collaboration with state / local health departments.

See specific fact sheets for detailed information about these solutions. To provide feedback on any of these areas, visit [www.cdc.gov/phin](http://www.cdc.gov/phin) to discuss and share resources in our forum.

## NEDDS

National Electronic Disease Surveillance System (NEDSS) is an Internet-based infrastructure for public health surveillance and data exchange that uses specific PHIN and NEDSS Data Standards.

NEDSS is not a single system, but a system of interoperable subsystems, components, and systems modules that include software applications developed and implemented by the CDC, those developed and implemented by State and Local health departments, and those created by commercial services and vendors.

## NEDDS Messaging Solution

The NEDSS Messaging Solution (NMS) is a CDC-sponsored project whose goal is to establish a self-sustaining network of stakeholders dedicated to the adoption of electronic messaging between public health partners (commercial entities, local, state, and federal).

The NEDSS NMS vision is to consume electronic messages in any format and convert these data into standard or customized representations by performing a series of validation and translation tasks.

## BioSense

BioSense is the national, human health surveillance system designed to improve the nation's capabilities for disease detection, monitoring, and real-time health situational awareness.

BioSense will enable cross-jurisdictional views of real-time health data for public health decision-making.

## CRA

The Countermeasure and Response Administration (CRA) program is composed of two systems: Countermeasure Administration Tracking (CAT) and Countermeasure Inventory Tracking (CIT). CAT is a Web-based application deployed centrally at CDC that manages countermeasure and response administration activities within jurisdictions. CIT will provide the quantities and location of selected critical pharmaceuticals and medical materials within the commercial market.

## PHIN Messaging Services

The PHIN Messaging Team works with relevant standards organizations such as Health Level Seven (HL7) and Healthcare Information Technology Standards Panel (HITSP) to extend and harmonize message use case requirements and information models to produce message specifications and mapping guides that support specific public health business needs.

## PHIN XForms Question Framework

The purpose of the PHIN XForms Question Framework project is to create a framework to facilitate the definition and distribution of standardized forms for public health practices based on a library of reusable, standard encoded questions.

Questions and Question Sets are arranged within a user interface to represent a sectioned form. That representation is transformed into an XForms for distribution and use as a data collection instrument.

## PHIN Vocabulary Services

PHIN Vocabulary Services strives to enable the consistent and accurate representation of information by encouraging and supporting the use of vocabulary standards to promote semantic interoperability among public health systems.

PHIN VADS is a Web-based enterprise vocabulary system for accessing, searching, and distributing vocabularies used within the PHIN.

## LRN Results Messenger

The Laboratory Response Network (LRN) is a coordinated network of public health and other laboratories for which CDC provides standard assays and protocols for testing biological and chemical terrorism agents.

LRN Results Messenger provides basic laboratory data management, including the ability to enter and share sample and results data.

