

DRAFT UT-NEDSS Roadmap Details

Last Updated: 09-APR-2008

Fundamentals

- NEDSS Compatible
- Help System
- System Administration Functionality
- Data
 1. Integrated Data Repository
 2. Data Dictionary
 3. Data Exchange Standards
 - a) Use as appropriate (e.g., PHIN MS)
- Security
 1. Role, jurisdiction, and disease based rights management
 2. PHIN Compliance
 3. HIPPA (Security but not Privacy)
- Geocoding
- Smart Forms
- Flex Forms (configurable form fields, edit form prose)
 1. Universal need in Public Health

Release 1 - Confidential Morbidity Report (CMR)

- Create, View, Update, Delete, Search CMR data
- Basic CMR Reporting
- Duplicate reduction through search
- CMR Data Export
- Users with role and jurisdiction assignment

Release 2 - Case Investigation

- Disease specific Form Builder

- Create and modify disease specific forms
- Allow for Create, View, Update, and Soft Delete, of disease specific data
- Support jurisdiction specific enhancements
- Ability to add questions to diseases in the case of an outbreak
- Enhanced support for core data elements across disease investigation forms
 - Entering multiple doctors, labs, treatments, etc.
- Enhanced security to support new functionality
 - Additional Administration privileges
 - Additional privileges to allow for case routing
 - Additional privileges to allow for (disease specific) data privacy
- CMR and Case Routing
 - CMR and Investigation Assignment and Status Tracking
 - Privilege-based routing
- Soft Delete
- Initial Basic Dashboard
- Basic Notes

Release 3 - Export Data / Systems Integration for Analysis

- IBIS
 - <http://ibis.health.utah.gov/>
- As appropriate make automatic (integrated)

Release 4 - Report to CDC

- Transmit de-identified case report data weekly to CDC
 - NETSS requirements and supplemental fields
- Reconcile at end of year

Release 5 - De-duplication

- Merge, Purge, and duplicate check People and CMR
- Enhancements to duplicate prevention

Release 6 Import minimum NETSS Data

- Basic demographic and disease information for each case
- Data enables historical comparison

Release 7 - Case Investigation

- Ensure that the right info is captured
- Case meets CDC confirmed case requirements (lab, clinical information)
- Nurse notes

Note: UDOH can totally retire NETSS after Release 7.

Release 8 - Case Management Tools

- Ensure that the right steps are taken
- Status tracking
 - Examples: Investigation Initiated, Reviewed, Assigned a Case Status, Person Contacted, Completed Interview, Contacted Susceptible Contacts, Final Case Definition Sign-off (LHD and State level)
- Letter generation
- Links to provide reference information and some decision support information to a case manager (e.g., links to appropriate places in disease plans, links to reference information, more sophisticated decision support reference information)
- Reporting

Release 9 - Longitudinal Data

- View a person over time with a disease
- Revisit Registries
 - Hepatitis B and C registries exist in NETSS
 - Determine best approach given new system and available technology
- Tools to efficiently add information to case record as new laboratory results (e.g, CD4, hepatitis serology, TB CXRs, syphilis serology) are received

Release 10 - Contact Management

- Who is related to a case

Release 11 - Case Load Management & Assurance

- Work load balancing
 - Example: Balance open investigations per Nurse
- Work assignment
 - Based on load balancing
- Notification and Reminder
- Dashboard

Release 12 - ELR (Electronic Lab Reporting)

- Receive labs electronically (receive HL7 messages) and create a case
- Integrate RT-CEND data with UT NEDSS
- ELR Work flow
 - Create case if have enough data, put in work queue if not and walk user through work flow for CMR and Case Investigation forms
- Approximately 100 labs report to Utah focus on top labs
- *Note: Needs working group with state & labs*

Release 13 - LHD Private Data (It seems that this was specified as part of release 2)

- Ability for LHDs to store LHD specific data
- Special version of Flex Forms

Release 14 - Analysis & Visualization

- Frequency of cases by demographics, place, time
- Data warehouse

Release 15 - Collaboration Tool Integration

- Wiki
 - Structured / Unstructured data lineage
 - Nursing notes (example)
- Web Ex

- Enormously useful to state and local
- Replace Utah Epi X

Release 16 - Import Legacy Data

- Various data will need to be imported to the system

Release 17 - Outbreak Management & Investigation

- Clusters
- Linking together cases
- Collecting specimens
- Controls for case level studies
- Links to environmental investigation information
 - Possible integration with environmental investigation data systems

Release 18 - Off-line Client

- Disconnected client that uploads to central system when connected

Release 19 - Clinician Reporting

- Clinician can be authenticated and can initiate a report
 - Hospital Infectious Control Practitioners & others
- Line list

Release 20 - Electronic Notification

- Initiate CMR upon receipt of data from integration points
- Interface with Public Health Clinic
- Interface with Environmental Health Tracking
- Interface with hospital

Release 21 - GIS

- Assign Geocode to person, event, noun
- GIS interface

Release 22 - Integration with Syndromic Data

- RODS database

Release 23 - Replace HARS

- All forms in system
- Case management
- Longitudinal features
- Stringent Security requirements
- Standard reports