

Public Health Laboratory Interoperability Project Roadmap to Connectivity

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From Where We Were To Where We Are Going

- **NEDSS to PHIN**
- **Laboratory Information Management Systems**
- **Vocabulary, LOINC, SNOMED, HL-7**
- **Electronic Laboratory Reporting**
- **LITS plus**
- **Automated Instrument Interfaces**

Base for Progress

- **Informatics Committee**
- **State PHL Informatics capability survey**
- **PHL Information system requirements**
- **PHI- Batteries not included**
- **Open Source development**
- **CDC - LIMS Critical infrastructure**

PHL Interoperability Goals

- **State-CDC Laboratory test ordering and reporting**
- **State to State test ordering and reporting for mutual assistance/surge capacity**
- **Collaborative innovation and development**
- **Harmonized vocabulary code sets**
- **Adopt system-wide messaging protocols and architecture**
- **LIMS user groups**

Contributing to the National Laboratory System

- **Web portal: APHL/CDC based (APHL Sharepoint)**
- **Uniform vocabulary**
 1. **Notifiable (Reportable) diseases**
 2. **PHL test menu**
 3. **Commercial test menu**
- **Message validation service**
- **Information exchange manual**
- **OID database**
- **Laboratory data exchange services**

PHLIP Strategy

- Team approach
- Laboratory subject matter experts (SME's)
- Informatics specialists
- Iterative development process
- Focus on essentials
- Plan on version 2 (its never finished)

Vocabulary and Structure

- **HL7 2.3.1 and 2.5**
- **Laboratory identification**
- **Messaging process, PHIN MS/alternatives**
- **Certificates and security**
- **DMB, LRN Messenger 2**
- **Firewall, servers, routers**

APHL/CDC Cooperative Agreement

- **Six states: rationale**
- **Organization: Charter, Steering Committee, Executive Committee**
- **Program support (\$100K)**
- **Pilot process, address shortcomings**
- **Plan for future architecture , ie V2.0**

LIMS Subcommittees User Groups

- STARLiMS
- Labware
- Open source
- Other LIMS
 - Chemlab
 - Misys
 - Epic
 - Others in planning

Planning for 50 States

- **Current structure not expandable**
- **Certificate/security system cumbersome**
- **Version 2 development**
- **Potential sources for expansion**
 - **ELC grants (lab vocabulary expert)**
 - **Pandemic Influenza preparedness competitive funds**
 - **Foundation sources**

Laboratory of the future

- Focus on customer
- Outreach and leadership
- Active surveillance, appropriate and effective
- Delivering information in timely fashion
- Converting data to knowledge

Acknowledgements



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