

Florida Department of Health

Florida Newborn Screening (NBS)
Interoperability Implementation
Activities

The logo is a circular graphic with a teal border. Inside the circle is a photograph of a sunset over the ocean. The sun is low on the horizon, creating a bright orange and yellow glow that reflects on the water. The sky is filled with dark, silhouetted clouds.

Florida
HEALTH

Presenters

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Presentation Outline

- Self and readiness assessments
- NBS Electronic Testing Orders and Results (ETOR)
- NBS Data Quality – data matching with Florida Vital Stats

Self and Readiness Assessment

- Staff interviews
- Provider and trading partner focus groups
- Mapping of current process (As Is)
 - Workflow
 - Dataflow
- Identify existing interoperability

Interoperability Plan

- Identify opportunities for interoperability and/or modernization
- Workflow and data flow “to-be” recommendations
- Match program/lab goals with
 - Leading standards
 - Modernization tools

Planning

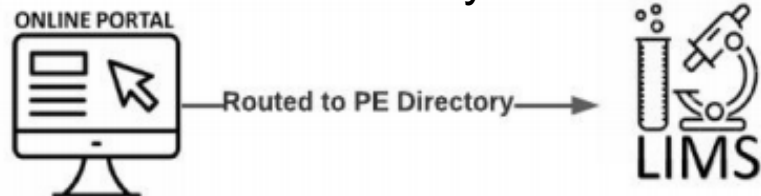
- Identifying key stakeholders
- Requirements gathering
- Project planning
- Training

NBS ETOR – Development and Implementation

- Infrastructure
- Requirements
- Design
- Coordination
- Pilot

As-IS Data Flow Mapping

Web Order System



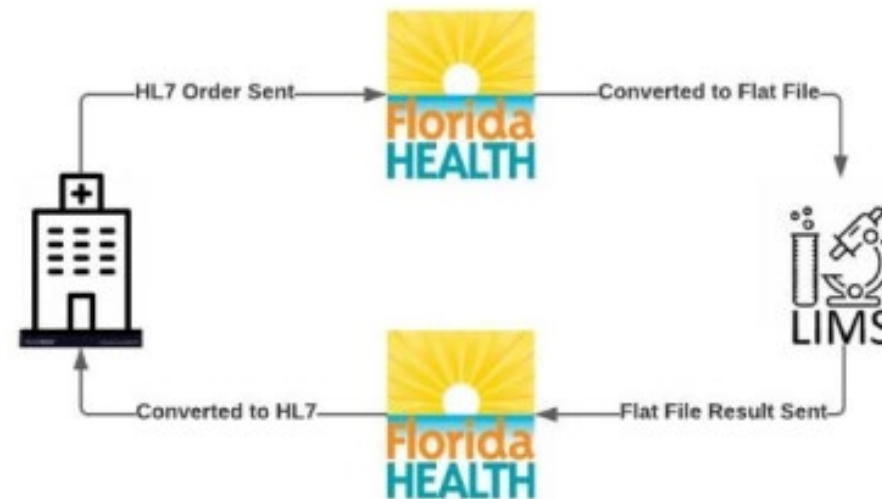
Flat File Orders



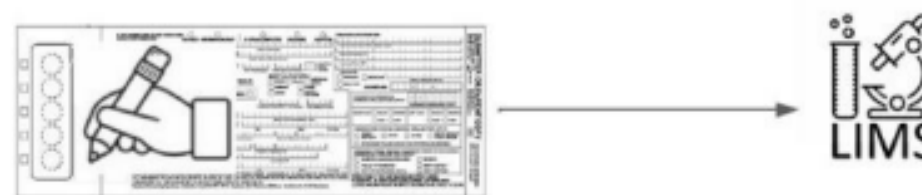
AutoFax and MoveIT Results



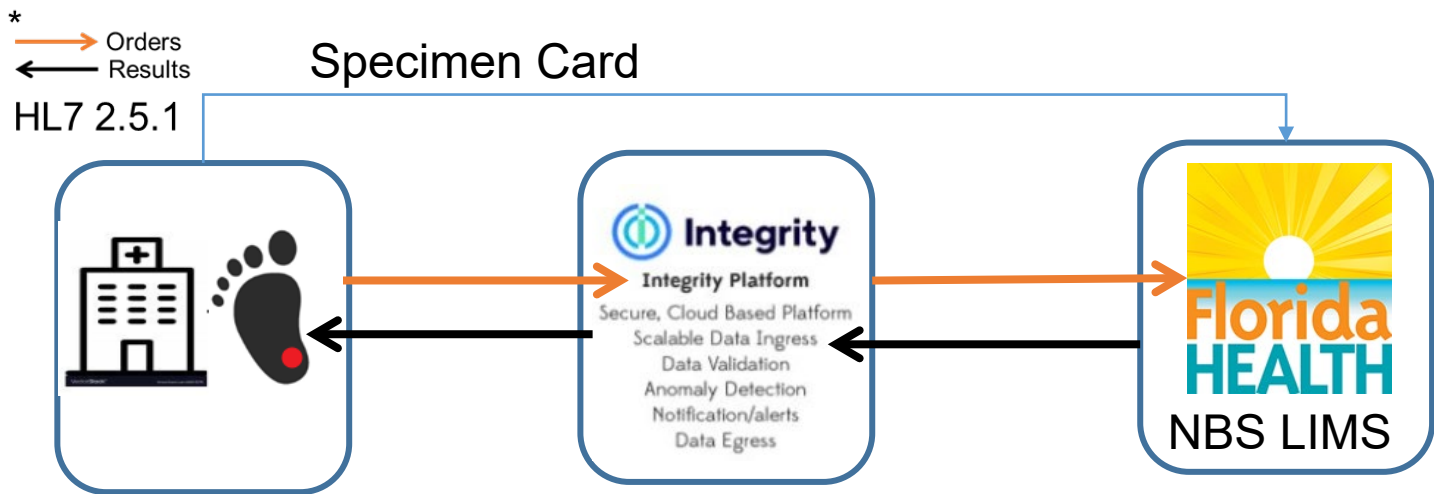
HL7 Electronic NBS Orders and Results



Manual Specimen Card Orders



NBS ETOR (Modernization)



Intelligent Message Processing

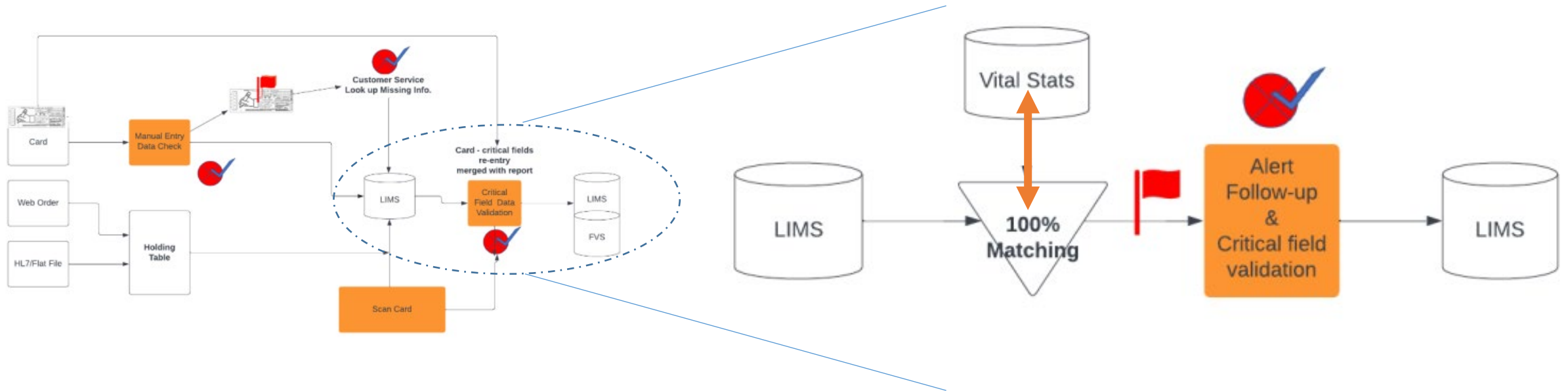
- **Cloud-based, secure** web application
- **Scalable data ingress** - highly scalable data intake from diverse data sources
- **Data validation + quality assessment** - continual evaluation of incoming data to ensure quality prior to intake and data processing
- **Visibility** - of data flow, validation, data quality, and anomaly detection in a single application
- **Anomaly detection** - pattern monitoring across data sources to identify and address irregularities
- **Data egress** - highly scalable service to make data available to connected applications
- **Systems monitoring and notification**

[Ruvos.com](https://www.ruvos.com)

Data Quality – NBS/VS Data Matching Implementation

- Requirements
 - 100 Matching of newborn screening record with and Florida Vital Stats birth records
 - Birth Date and Time
 - Medical Record Number (MRN)
 - Mother's Address
 - Birth Hospital
 - Bi-directional matching of missing record
- Identify key stakeholders
- Design

NBS LIMS and Vitals Stats Matching



Contact Information



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