Agenda

• Welcome
  • Mentimeter: How it works! Poll: who is attending?
  • Goals
• Background on AART
• AART User Group Series: Overview
• Future Topics for User Group
• Tour of AART
Polling

• We are using Mentimeter to capture your feedback and ideas on plans for future meetings

• In future sessions, we will use Mentimeter to capture questions and poll the group in real-time to guide the discussion and make sessions interactive

1. Take out your smartphone
2. Using your browser, go here: www.mentimeter.com, enter code 46 47 89
Goals

1) Increase the use of AART to:
   ✓ identify areas for improvement,
   ✓ prioritize IIS enhancements,
   ✓ test new IIS functionality,
   ✓ and reflect on accomplishments.

2) Support your use of AART by convening a group of engaged users to share and learn from one another
Background

AART is... the Aggregate Analysis Reporting Tool

AART was developed to visualize and compile the testing results and information on community-driven measures and tests related to Functional Standards

Did you know...
1. AART has been testing with IIS since 2015
2. There are over 6 million test cases in AART
3. You can view test results for your peer IIS at the content area level, and at the test case level
The IIS Measurement and Improvement (M&I) Initiative began in 2015 as an effort to:

- Test IIS alignment with standards
- Provide IIS with information and assistance to improve

All testing is conducted by AIRA staff, in large part through:

- Connecting with test or pre-production systems
- Submitting test messages
- Analyzing returned messages
Who is Supporting This Process Along with AIRA?

**MACAW**

The Measurement for Assessment and Certification Advisory Workgroup, made up of IIS, Immunization Program Managers, Vendors, and Federal Partners

**CDC**

Centers for Disease Control and Prevention, our funders, supporters, and collaborators

**NIST**

National Institute of Standards and Technology, who collaborate with AIRA to develop tooling to support measurement

**IIS and Imm Programs**

IIS and Immunization Programs do the heavy lifting of analysis, planning, funding and implementation

**IIS Vendors**

IIS Vendors support IIS and Immunization Programs in planning and implementation
Thank You For Engaging With Us!

- Participation is strong and results are being reviewed and acted upon.
- Partners are publicly recognizing improvements in standardization across IIS.
- We are seeing progress in all areas of quarterly measurement.
AART Clinics

- In person, @ AIRA National Meeting
  ✓ Sign up now for your spot for AIRA 2020

- In person, @ NIC
  ✓ Sign up coming soon!

- Virtually, via online meeting tools

- Request a clinic or follow up clinic anytime!
AART User Group Mini-Series
Goals

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2) Support your use of AART by convening a group of engaged users to share and learn from one another
This is your User Group.

As participants, you will:
✓ drive the content, set the pace
✓ present your challenges and successes,
✓ ask questions of the community and your peers, and more.
Expectations

What can you expect?

• Opportunity to spend dedicated time thinking about what AART can do for your IIS and how you can use it more effectively.

• Learn from your peers about successes they’ve had and how they’ve leveraged testing results to prioritize and implement enhancements.

• Help us improve AART; what’s working well? What could work better? What new functionality would help you in your work?
AART User Group Mini-Series

• Who: Immunization program managers, IIS managers, IIS teams, HL7 analysts, data exchange/quality analysts, existing AART users

• Schedule: February thru July
• 4th Wednesday of the month, 4:00 – 5:00 pm ET
AART User Group Mini-Series

Session 1: Introduction to Series, polling for future topics
Session 2: HL7 Discovery & Assessment Reports
Session 3: Clinical Decision Support
Session 4: User Experience – HL7 Assessment
Session 5: User Experience – Clinical Decision Support
Session 6: topic TBD
What topics are you interested in?

- **High-Level:**
  For those who provide direction but don’t need the technical details.

- Validation Program
- Assessment Program
- Discovery Program
- Participation and Sharing
- Prioritizing Changes
- History and My Peers
What topics are you interested in?

- **Mid-Level:**
  For those who want to understand more details about specific topics.

- **HL7 Discovery**
- **Transport Assessment**
- **Submission & Acknowledgment Assessment**
- **Query & Response Assessment**
- **CDS Discovery**
- **CDS Assessment**
- **Future Areas to be Tested**
What topics are you interested in?

- **Detail-Level:**
  For those who understand the technical details and want to hear specifics.

  - How HL7 message testing works
  - How CDS testing works
  - How AART connects to IIS for testing purposes
  - Recent / future changes in AART software
  - Integration with NIST tooling that supports HL7 message testing
  - Integration with NIST tooling that supports CDS testing (FITS)
What have we missed?

• What additional topics, features, challenges, are you interested in working on through the User Group?
What do you want to share/present on?

• What are you interested in sharing with the User Group in a future session? What ways have you used AART to evaluate your system and/or prioritized enhancements?
AART Tour

• AART login page
• Register here
  • Forgot your password
• AART Updates

Reminder! If you haven’t registered yet you can do that today!
AART Tour

AART Dashboard
- Assessment Reports
- Validation Reports
- Link to Discovery Reports
AART Tour

Click through the Assessment Report to get into deeper levels of detail.
AART Tour

• Summary Notes for this Assessment Report
• History, My Peers
# AART Tour

## List of Measures for Submission & Acknowledgment

<table>
<thead>
<tr>
<th>Measure</th>
<th>Measure Title</th>
<th>Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>The IIS processes an administered vaccine for a patient.</td>
<td>Meets</td>
</tr>
<tr>
<td>2</td>
<td>The IIS processes a historical vaccine for a patient.</td>
<td>Meets</td>
</tr>
<tr>
<td>3</td>
<td>The IIS processes the submission of a full immunization record for a patient.</td>
<td>Meets</td>
</tr>
<tr>
<td>4</td>
<td>The IIS processes an update to a previously submitted vaccination event.</td>
<td>Meets</td>
</tr>
<tr>
<td>5</td>
<td>The IIS processes a delete to a previously submitted vaccination event.</td>
<td>Meets</td>
</tr>
<tr>
<td>6</td>
<td>The IIS processes a submission where the patient does not give consent (i.e., patient data is protected) to share data.</td>
<td>Meets</td>
</tr>
<tr>
<td>7</td>
<td>The IIS processes a refusal of a vaccination.</td>
<td>Meets</td>
</tr>
<tr>
<td>8</td>
<td>The IIS processes an adverse event.</td>
<td>Meets</td>
</tr>
<tr>
<td>9</td>
<td>The IIS processes an observation about a patient which results in a contraindication or immunity to a vaccine preventable disease.</td>
<td>Meets</td>
</tr>
<tr>
<td>10</td>
<td>The IIS processes messages in accordance with the HL7 2.5.1, release 1.5 guide.</td>
<td>Meets</td>
</tr>
<tr>
<td>11</td>
<td>The IIS processes both complete and incomplete/partially administered doses.</td>
<td>Meets</td>
</tr>
<tr>
<td>12</td>
<td>The IIS responds to a correctly formatted message with no errors.</td>
<td>Meets</td>
</tr>
<tr>
<td>13</td>
<td>The IIS responds to a submission that has an error.</td>
<td>Does Not Meet</td>
</tr>
<tr>
<td>14</td>
<td>The IIS responds to a submission with an ACK within 5 seconds or less for 95% of the records submitted.</td>
<td>Meets</td>
</tr>
</tbody>
</table>
AART Tour

Drill down from Measure 13 to test cases 13.1 and 13.2

13: The IIS responds to a submission that has an error.

Purpose

The purpose of this measure is to validate the conformance of the ACK message when a problematic VXU message is submitted to the IIS.

Functional Standards

This measure is supported by the following version 4.0 functional standards:

- **Functional Standard 8.2:** The IIS receives submissions and returns acknowledgements consistent with the current CDC-endorsed HL7 Implementation Guide.

Test Outcome

<table>
<thead>
<tr>
<th>Test Case</th>
<th>Test Case Title</th>
<th>Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>13.1</td>
<td>ACK conformance validation on message with data quality issue</td>
<td>Does Not Meet</td>
</tr>
<tr>
<td>13.2</td>
<td>ACK conformance Validation on missing critical data element</td>
<td>Meets</td>
</tr>
</tbody>
</table>
AART Tour

View the test case details, the VXU submitted and the ACK returned by the IIS
Preview of Session 2

HL7 Discovery & Assessment Reports

• History of HL7 V2 Testing
• Testing Process
• Intro “Pentagon” Report
• Assessment Reports
• Making Improvements
Join Us Next Month!

• Wednesday, March 25
  • 4:00 – 5:00 pm, ET
Contact Information

If you have any questions or comments:

- Tracy Little  tlittle@immregistries.org
- Nathan Bunker  nbunker@immregistries.org

Thank you!