33rd Annual Plenary & Working Group Meeting

Atlanta, GA

September 14 - 20, 2019
Monday

Closing Comments

Calvin Beebe
Chair, HL7 Board of Directors
Wireless Access

- Connect to – **HL7SEP2019**
- Password – **HealthLevel7**
- Yes, the password is case sensitive
Evaluations

- Please take time to complete the Plenary evaluation
- Those who take the survey will be entered to win a $500 HL7 gift certificate!

https://www.surveymonkey.com/r/swgm2019

OR

HL7.me/etingSurvey (case sensitive)
Co-Chair Elections
Monday – Wednesday

- Anesthesia
- Arden Syntax
- Biomedical Research and Regulation
- Clinical Decision Support
- Clinical Interoperability Council
- Conformance
- Emergency Care
- FHIR Infrastructure
- Financial Management
- Imaging Integration
- Learning Health Systems
- Modeling and Methodology
- Orders and Observations
- Patient Care
- Pharmacy
- Public Health
- Publishing
- Structured Documents
There were many Parlor room changes made for the week. Please be sure to check the boards and the mobi app for the most up to date room information.
Luncheon/Meeting Today

- Education Luncheon/Meeting is 12:30 pm today in M101
Co-Chairs Dinner/Meeting begins at 5:15 pm tonight in Imperial Salon B
The HL7 Nurses Group started in 2009 during the WGM in Atlanta, Georgia

The group meets Tuesday at 7:00 am for a breakfast working session in M103

Listserv: HL7 Nursing Group
Tuesday Morning at breakfast!
33rd Annual Plenary & Working Group Meeting

Atlanta, GA

Monday, September 16, 2019
33rd Annual Plenary & Working Group Meeting

Atlanta, GA

Tuesday, September 17, 2019
Tuesday

- CTO Report
- TSC Report
- International Council Report
- Sydney WGM
- Accelerator Status Reports
- Housekeeping Announcements
CTO Report
Wayne Kubick
HL7 CTO
Wayne Kubick, HL7 CTO
9/17/2019
Connectathon Participation Over Time
Confluence and JIRA
<table>
<thead>
<tr>
<th>Title</th>
<th>Description</th>
<th>Ballot Status</th>
<th>Work Group</th>
<th>Product Type</th>
<th>Topic</th>
<th>Stakeholder</th>
<th>Current State</th>
<th>Realm</th>
</tr>
</thead>
<tbody>
<tr>
<td>All Versions</td>
<td></td>
<td></td>
<td></td>
<td>Access, Tools</td>
<td>Access, Upgrading</td>
<td></td>
<td>Stable</td>
<td>Universal</td>
</tr>
<tr>
<td>Access Database</td>
<td></td>
<td></td>
<td></td>
<td>Access</td>
<td>ANSI-approved, Encoding, Syntax</td>
<td></td>
<td>Stable</td>
<td>Universal</td>
</tr>
<tr>
<td>Database Upgrade</td>
<td></td>
<td></td>
<td></td>
<td>Access</td>
<td>ANSI-approved, Encoding, Syntax</td>
<td></td>
<td>Stable</td>
<td>Universal</td>
</tr>
<tr>
<td>Arden Syntax v2.0</td>
<td></td>
<td>Normative</td>
<td>Arden</td>
<td>Access</td>
<td>ANSI-approved, Encoding, Syntax</td>
<td></td>
<td>Retired</td>
<td>Universal</td>
</tr>
<tr>
<td>Arden Syntax v2.1</td>
<td></td>
<td>Normative</td>
<td>Arden</td>
<td>Access</td>
<td>ANSI-approved, Encoding, Syntax</td>
<td></td>
<td>Retired</td>
<td>Universal</td>
</tr>
<tr>
<td>Arden Syntax v2.1 - Pocket Guide</td>
<td></td>
<td>Normative</td>
<td>Arden</td>
<td>Access</td>
<td>ANSI-approved, Encoding, Syntax</td>
<td></td>
<td>Retired</td>
<td>Universal</td>
</tr>
<tr>
<td>Arden Syntax v2.10 (Health Level Seven)</td>
<td>The Arden Syntax for Medical Logic Systems Version 2.10 is the latest version of a formalism for clinical knowledge</td>
<td>Normative</td>
<td>Arden</td>
<td>Access, Tools</td>
<td>Access, Upgrading</td>
<td></td>
<td>Retired</td>
<td>Universal</td>
</tr>
<tr>
<td>Clinical Decision Support Systems</td>
<td></td>
<td></td>
<td></td>
<td>ANSI</td>
<td>Clinical Decision Support Systems</td>
<td></td>
<td>Retired</td>
<td>Universal</td>
</tr>
</tbody>
</table>
Coming Attractions

• FHIR Transition to JIRA Tracking Q4 2019
• Simplified Handbook, tip sheets, checklists Q4 2019
• Unified Terminology Governance Q1-2 2020
• JIRA Balloting Q2 2020
• Expanded capabilities to support implementers 2020
• C-CDA & CDA Web Specs 2020
Critical Challenge: Capacity & Scalability
"Gimme My Damn Data"

Medicine 2.0
September 18, 2009
New at DevDays: Patient Innovator Track

Patient Innovators telling their stories about how they used their personal health data to get control of their health and treatment

www.devdays.com/amsterdam/patient-track
Wayne Kubick, HL7 CTO
9/17/2019
Tuesday

- CTO Report
- TSC Report
- International Council Report
- Sydney WGM
- Accelerator Status Reports
- Housekeeping Announcements
TSC Report
Austin Kreisler
TSC Chair
TSC Chair Report

September 17, 2019
Atlanta
TSC Updates

- Reminder: Co-chair Elections in 2020
  - Starting in 2020, Co-chair elections happen once a year alongside the Board and TSC elections
  - New terms will start Jan 1st, 2021

- New TSC Task force to look at the impact of the Accelerator Programs on work groups and HL7 Process
The Standards grid has been revamped (thanks to Lynn)
All the top level standards found in the grid have been assigned a “Current State”
  - Active, Stable, Retired
Work Groups and Management Groups need to review the various standards they are responsible for and determine if they agree with the Current State associated with their standards
TSC & HL7 Terminology Authority (HTA)

- As the amount of Implementation Guide development, particularly in FHIR continues to grow, the need to use new externally defined vocabularies continues to grow.
- The HTA is a Board level committee tasked with managing HL7’s interactions with external terminologies.
- Not surprisingly, this has implications for how we use those terminologies within our standards.
- The TSC and HTA are working closely to better integrated HTA with HL7’s standards development and balloting processes.
US Realm Steering Committee (USR-SC)

- The TSC, working with the USR-SC Leadership has reconstituted to committee in accordance with the GOM

  - Chair: Steve Posnack
  - Co-Chair: Brett Marquard
  - Chair Emeritus: Ed Hammond
  - Ex-Officio: CTO (Wayne Kubick), TSC Chair (Austin Kreisler), ArB representative (Identified by ArB)
  - Steering Division Representatives: Hans Buitendijk, Bryn Rhodes, Ioana Singureanu, Sandy Stuart
  - Ad-Hoc & At-Large Members: Christol Green, Chris Shawn, Danielle Friend, Jenni Syed, and Rob McClure
  - One open At-Large position for International Representative
Product Quality Planning Steps

- Basic quality planning steps for HL7 groups shall include the following recommended approaches:
  - Methodology groups establish the quality criteria
  - Management groups develop a quality checklist based on the criteria, plus other family-specific management requirements
  - Sponsoring WGs are required to complete the checklist for each product.
  - Note: WGs that produce products that are not within a product family are expected to follow these basic principles.
Product Quality Planning Steps

- Work Groups and Management Groups have a year to implement this
- In a year, the TSC will start requiring the Quality Checklists along with ballot submissions and publication requests
- Work Groups and Management Groups can start this earlier if they are ready.
Administrative Steering Division

Co-Chairs: Mary Kay McDaniel, Riki Merrick

Work Group Members:

<table>
<thead>
<tr>
<th>Electronic Health Record (EHR)</th>
<th>Orders and Observations (O&amp;O)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Financial Management (FM)</td>
<td>Patient Administration (PA)</td>
</tr>
<tr>
<td>Imaging Integration (II)</td>
<td>Payer/Provider Information Exchange (PPIE)</td>
</tr>
</tbody>
</table>

🌟 = among “Healthiest” WGs for 2019Sep
### Clinical Steering Division

**Co-Chairs:** Melva Peters, Floyd Eisenberg

**Work Group Members:**

<table>
<thead>
<tr>
<th>Work Group</th>
<th>Healthiest WGs for 2019Sep</th>
</tr>
</thead>
<tbody>
<tr>
<td>Anesthesia (GAS)</td>
<td></td>
</tr>
<tr>
<td>Emergency Care</td>
<td></td>
</tr>
<tr>
<td>Biomedical Research &amp; Regulation</td>
<td></td>
</tr>
<tr>
<td>Health Care Devices (DEV)</td>
<td></td>
</tr>
<tr>
<td>Clinical Decision Support</td>
<td></td>
</tr>
<tr>
<td>Learning Health Systems</td>
<td></td>
</tr>
<tr>
<td>Clinical Genomics (CG)</td>
<td></td>
</tr>
<tr>
<td>Patient Care (PCWG)</td>
<td></td>
</tr>
<tr>
<td>Clinical Interoperability Council (CIC)</td>
<td></td>
</tr>
<tr>
<td>Pharmacy</td>
<td></td>
</tr>
<tr>
<td>Clinical Quality Information (CQI)</td>
<td></td>
</tr>
<tr>
<td>Public Health</td>
<td></td>
</tr>
<tr>
<td>Community Based Care and Privacy (CBCP)</td>
<td></td>
</tr>
</tbody>
</table>

= among “Healthiest” WGs for 2019Sep
# Infrastructure Steering Division

Co-Chairs: Paul Knapp, Rob McClure

Work Group Members:

<table>
<thead>
<tr>
<th>Work Group</th>
<th>Star Icon</th>
</tr>
</thead>
<tbody>
<tr>
<td>Arden Syntax</td>
<td><img src="https://via.placeholder.com/15" alt="Star" /></td>
</tr>
<tr>
<td>Modeling and Methodology (MnM)</td>
<td><img src="https://via.placeholder.com/15" alt="Star" /></td>
</tr>
<tr>
<td>CIMI</td>
<td><img src="https://via.placeholder.com/15" alt="Star" /></td>
</tr>
<tr>
<td>Security (SEC)</td>
<td><img src="https://via.placeholder.com/15" alt="Star" /></td>
</tr>
<tr>
<td>Conformance</td>
<td><img src="https://via.placeholder.com/15" alt="Star" /></td>
</tr>
<tr>
<td>Service Oriented Architecture (SOA)</td>
<td><img src="https://via.placeholder.com/15" alt="Star" /></td>
</tr>
<tr>
<td>FHIR Infrastructure</td>
<td><img src="https://via.placeholder.com/15" alt="Star" /></td>
</tr>
<tr>
<td>Structured Documents</td>
<td><img src="https://via.placeholder.com/15" alt="Star" /></td>
</tr>
<tr>
<td>Implementable Technology Specifications</td>
<td><img src="https://via.placeholder.com/15" alt="Star" /></td>
</tr>
<tr>
<td>Vocabulary</td>
<td><img src="https://via.placeholder.com/15" alt="Star" /></td>
</tr>
<tr>
<td>Infrastructure and Messaging (InM)</td>
<td><img src="https://via.placeholder.com/15" alt="Star" /></td>
</tr>
<tr>
<td>Mobile Health</td>
<td><img src="https://via.placeholder.com/15" alt="Star" /></td>
</tr>
</tbody>
</table>

= among “Healthiest” WGs for 2019Sep
Organizational Support  
Steering Division

Co-Chairs: Sandra Stuart, Virginia Lorenzi

Work Group Members:

<table>
<thead>
<tr>
<th>Electronic Services &amp; Tools (EST)</th>
<th>Project Services Work Group (PS)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Process Improvement Committee (PIC)</td>
<td>Publishing (V2 and V3)</td>
</tr>
</tbody>
</table>

= among “Healthiest” WGs for 2019Sep
Tuesday

- CTO Report
- TSC Report
- International Council Report
- Sydney WGM
- Accelerator Status Reports
- Housekeeping Announcements
International Council Report
Line Saele and Peter Jordan
Co-Chairs, International Council
International Council Report

Atlanta, US
September 17, 2019

Peter Jordan and Line Saele
HL7 International Council Co-Chairs
Leadership

- **Current Co-Chairs**
  - Peter Jordan
  - Melva Peters
  - Line Saele

- **HL7 International Board – Affiliate Directors**
  - Diego Kaminker
  - Line Saele
# 36 HL7 International Affiliates

<table>
<thead>
<tr>
<th>HL7 Country</th>
<th>Contact Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>HL7 Argentina</td>
<td>Fernando Campos</td>
</tr>
<tr>
<td>HL7 Australia</td>
<td>Jason Steen</td>
</tr>
<tr>
<td>HL7 Austria</td>
<td>Stefan Sabutsch</td>
</tr>
<tr>
<td>HL7 Bosnia and Herzegovina</td>
<td>Samir Dedovic</td>
</tr>
<tr>
<td>HL7 Brazil</td>
<td>Marivan Abrahão</td>
</tr>
<tr>
<td>HL7 Canada</td>
<td>Ron Parker</td>
</tr>
<tr>
<td>HL7 China</td>
<td>Li Baolu</td>
</tr>
<tr>
<td>HL7 Croatia</td>
<td>Miroslav Koncar</td>
</tr>
<tr>
<td>HL7 Czech Republic</td>
<td>Libor Seidl</td>
</tr>
<tr>
<td>HL7 Denmark</td>
<td>Sofia Stokholm</td>
</tr>
<tr>
<td>HL7 Finland</td>
<td>Juha Mykkanen</td>
</tr>
<tr>
<td>HL7 France</td>
<td>Francois Macary</td>
</tr>
<tr>
<td>HL7 Germany</td>
<td>Christof Gessner</td>
</tr>
<tr>
<td>HL7 Greece</td>
<td>Alexander Berler</td>
</tr>
<tr>
<td>HL7 Hong Kong</td>
<td>Chung Ping Ho</td>
</tr>
<tr>
<td>HL7 India</td>
<td>Naresh Yallapragada</td>
</tr>
<tr>
<td>HL7 Italy</td>
<td>Giorgio Cangioli</td>
</tr>
<tr>
<td>HL7 Japan</td>
<td>Michio Kimura</td>
</tr>
<tr>
<td>HL7 Korea</td>
<td>Byoung-Kee Yi</td>
</tr>
<tr>
<td>HL7 Netherlands</td>
<td>Bert Kabbes</td>
</tr>
<tr>
<td>HL7 New Zealand</td>
<td>Peter Jordan</td>
</tr>
<tr>
<td>HL7 Norway</td>
<td>Line Saele</td>
</tr>
<tr>
<td>HL7 Poland</td>
<td>Roman Radomski</td>
</tr>
<tr>
<td>HL7 Portugal</td>
<td>Paulo Alves</td>
</tr>
<tr>
<td>HL7 Romania</td>
<td>Florica Moldoveanu</td>
</tr>
<tr>
<td>HL7 Russia</td>
<td>Sergey Shvyrev</td>
</tr>
<tr>
<td>HL7 Saudi Arabia</td>
<td>Wael B. Al Dahhasi</td>
</tr>
<tr>
<td>HL7 Singapore</td>
<td>Adam Chee</td>
</tr>
<tr>
<td>HL7 Spain</td>
<td>Francisco Perez</td>
</tr>
<tr>
<td>HL7 Sweden</td>
<td>Mikael Wintell</td>
</tr>
<tr>
<td>HL7 Switzerland</td>
<td>Roeland Luykx</td>
</tr>
<tr>
<td>HL7 Taiwan</td>
<td>Yu-Ting Yeh</td>
</tr>
<tr>
<td>HL7 UK</td>
<td>Dunmail Hodgkinson</td>
</tr>
<tr>
<td>HL7 Ukraine</td>
<td>Leonid Stoyanov</td>
</tr>
<tr>
<td>US Rep</td>
<td>Ed Hammond</td>
</tr>
</tbody>
</table>
Pro. Li was a founder of Health IT in China, he introduced and promoted HL7 to hospital, region and government, let more and more young people to get devoted to this field.

He thought it was his duty to promote the process of hospital informatization, and achieve interoperability in China. He has been working on that during his whole life.

He has been fighting against cancer for many years, it is a long hard time for him, but he never gave up. His spirit will always with us.
Welcome to New Affiliate Chair

- Ben McAlister from UK
Attendance (as of September 16, 2019)

- Affiliates represented (in person and by proxy)
  - 18

- 40 Registered attendees for International Council meeting

- US – Non US Attendees
  - 778 Total registrants (480)
    - 666 US registrants (336)
    - 112 Non US registrants (144)
  - 26 Countries represented at this meeting (20)
Summary of Discussions

- Chair of the Board, Calvin Beebe
  - Fairly positive financial results
  - Our challenges - we still need more people to work even smarter to cover all the interest of FHIR

- CEO Charles Jaffe
  - FHIR Accelerator program
  - FHIR Community process
Summary of Discussions

- **FHIR Update – Grahame Grieve**
  - Continuing discussion of the FHIR Community Process and involvement of the Affiliates
  - Is the community ready for R5? Survey will be sent out.

- **Policy Advisory Committee**
  - Looking for input from IC for global policy review and for more participation, asking for a liaison from IC.
Summary of Discussions

- FHIR Versioning worldwide
  - What are the affiliates doing with all the different versioning of FHIR.
- Characteristics of Realm Transferable Standards Specifications IT (RTSS)
  - IC agreed in Montreal to co-sponsor this project from the ARB
Presentations

- All of the presentations will be posted on the International Council webpage
  - https://confluence.hl7.org/display/IC/September+2019+-+Atlanta
THANK YOU!
Tuesday

- CTO Report
- TSC Report
- International Council Report
- **Sydney WGM**
- Accelerator Status Reports
- Housekeeping Announcements
Sydney WGM
Jason Steen
HL7 Australia
Tuesday

- CTO Report
- TSC Report
- International Council Report
- Sydney WGM
- Accelerator Status Reports
- Housekeeping Announcements
Tuesday

Da Vinci and TNP Details

Jocelyn Keegan
HL7 Da Vinci Project Update
September 2019

Jocelyn Keegan, Program Manager
Point of Care Partners
• ANSI neither develops standards nor conducts certification programs but instead accredits standards developers and certification bodies under programs requiring adherence to principles of openness, voluntariness, due process and non-discrimination. ANSI, therefore, brings significant, procompetitive benefits to the standards and conformity assessment community.

• ANSI nevertheless recognizes that it must not be a vehicle for individuals or organizations to reach unlawful agreements regarding prices, terms of sale, customers, or markets or engage in other aspects of anti-competitive behavior. ANSI’s policy, therefore, is to take all appropriate measures to comply with U.S. antitrust laws and foreign competition laws and ANSI expects the same from its members and volunteers when acting on behalf of ANSI.

• Approved by the ANSI Board of Directors May 22, 2014
Use Case Focus Areas

Data Exchange for Quality Measures
- Clinical Data Exchange
- Payer Data Exchange
- Payer Data Exchange: Formulary
- Payer Data Exchange: Directory

Gaps in Care & Information
- Payer Coverage Decision Exchange
- Patient Cost Transparency

Coverage Requirements Discovery
- Risk Based Contract Member Identification
- Chronic Illness Documentation for Risk Adjustment

Documentation Templates and Rules
- Use Case Status
  - May ballot STU and for comment
  - In early September ballot (July) as STU
  - September ballot as STU
  - Currently targeted for early or regular January 2020 ballot
  - Use cases in discovery (some may be balloted in January 2020)

Quality Improvement
- Member Access
- Alerts / Notifications
- Clinical Data Exchange

Coverage / Burden Reduction
- Payer Data Exchange
- Clinical Data Exchange
- Patient Data Exchange
- Performing Laboratory Reporting

Prior-Authorization Support
- Use Case Focus Areas

Risk Based Contract Member Identification
- Chronic Illness Documentation for Risk Adjustment

Performing Laboratory Reporting
- Use Case Focus Areas
HL7 Tuesday Night Party
Max Lager’s Wood-Fired Grill and Brewery
September 17, 2019 from 5:30 to 7:30 pm

Max Lager’s is located about a 4-minute walk from the Atlanta Marriott Marquis hotel at:
320 Peachtree St NE
Atlanta, GA 30308
(404) 525-3651
Process Improvement
Summary

• Goal: Enable Payers and Providers to exchange information that identifies members of a patient population associated with a particular risk-based contract
  – Method for payers and providers to synchronize data from practice management and EHRs, and to enable providers and payer organization to validate enrollment in Value-Based Care (VBC) programs at the point of care and for population level program management
  – Information to be exchanged should be sufficient to identify a specific existing patient for inclusion in a risk-based contract or create such a patient in the PM/EHR if the patient does not already exist and the PM/EHR has the capability

• Scenarios
  – Share member attribution list
  – Update member attribution list
  – Opportunities to use the list in order to share data for the identified members

Status

<table>
<thead>
<tr>
<th>Stage</th>
<th>Planning/Discovery</th>
</tr>
</thead>
<tbody>
<tr>
<td>Implementation Guide</td>
<td>TBD</td>
</tr>
<tr>
<td>Reference Implementation</td>
<td>TBD</td>
</tr>
<tr>
<td>Confluence Artifacts</td>
<td>Risk Based Contract Member Identification</td>
</tr>
</tbody>
</table>
Producer

1. Producer/Consumer enter relationship and agree on attribution method and need for a list

2. Producer creates initial attribution list

3. Producer adjusts algorithm/ list

4. Producer starts sending list on agreed upon cadence

Consumer

1. Consumer receives list & historical information

2. Consumer reconciles list via their own attribution algorithm

3. Request Changes needed

4. No changes needed

Consumer loads data to various systems to support various use cases
Questions? & How to Get Involved

Summary View of Da Vinci Public Implementation Guides

Use Case Overviews

2019 Implementation Guide Schedule

Use Case Status
- In ballot: Processed through HL7
- Targeted for September ballot
- In Discovery: Targeted for 14.7 January ballot
- Use cases in discovery (some may be balloted in January 2020)

Project Process
- Define requirements (clinical, business, technical and testing)
- Create Implementation Guide (IG)
- Create and test Reference implementation (RI)
- Pilot the solution
- Deploy the solution

Da Vinci uses cases are interleaved, currently with three categories that have emerged: Quality Measure Collection, Clinical Data Exchange, and Pre Order Burden Reduction. Early use cases create building blocks and a framework upon which incremental improvements and additional content can be added over time.

Da Vinci adopts existing and emerging standards with broad support to create viable solutions, such as FHIR as the core, NODA HEDIS, CDS Hooks, and SMART on FHIR (layering in OAuth security). Existing profiles are adapted where possible (e.g., Argonaut, US-Core, Q-FCore).

Weekly Meeting Schedule

Conference Call Sign Up

HL7 Conference Call Center
Da Vinci Conference Call Sign Up Instructions

Sign Up
Da Vinci Program Manager:
Jocelyn Keegan, Point of Care Partners
jocelyn.keegan@pocp.com

Da Vinci Technical Lead:
Dr. Viet Nguyen, Stratametrics LLC
vietnguyen@stratametrics.com
Smarter Data for the Fight Against Cancer

http://www.hl7.org/CodeX
Most of the nearly 15 million individuals living with cancer in the U.S. have Electronic Health Records (EHRs).

Roughly 3% of adult cancer patients participate in clinical trials that gather high-quality data.

**EHR data challenges:**
- Significant variation
- Unstructured
- High Burden
- Difficult to access and share

© 2019 The MITRE Corporation. All rights reserved.
Minimal Common Oncology Data Elements

- Small set of critical data elements
- Applicable to all cancers
- Standardized for collection and sharing
- Leading to better cancer care and research

mCODE balloted in HL7 in Aug-Sep:
A New HL7 FHIR Accelerator

Building a community and platform for interoperable cancer data modeling and implementation, leading to better cancer care and research
**CodeX Domains of Interest**

Use cases, FHIR IGs, Implementations and Pilots will be shaped by CodeX members: Patients, Providers, Researchers, Payers, Regulators, Tech

1. Real World Data
2. Evidence-based Care
3. Patient Data Management
4. Payment Models
5. Registry Reporting
Birds of a Feather Meeting Tonight

**Smarter Data for the Fight Against Cancer**

**What:** Discussing the CodeX HL7 FHIR Accelerator

**Where:** M102

**When:** 5:15 – 6:00pm  (will stay after for Q&A)

**How To Get Involved:**
Interested in joining CodeX or learning more? Please attend or contact Steve Bratt sbratt@mitre.org
CARIN Alliance

Ryan Howells
Gravity

Evelyn Gallego
The HL7 Gravity Project Overview

September 17, 2019
Evelyn Gallego, MBA, MPH, CPHIMS
EMI Advisors, LLC
HL7 Gravity Project

- New HL7 FHIR Accelerator Project (announced August 2019).

- Seeks to identify coded data elements to represent social determinants of health (SDOH) data documented in EHRs across four clinical activities:
  - Screening
  - Diagnosis
  - Goal Setting (including care planning)
  - Interventions/Treatment

- Designed to rapidly integrate into existing and emerging FHIR accelerator projects to include Argonaut, DaVinci, and CARIN.
HL7 Gravity Project

- Facilitated as a public collaborative with over 720 participants from across the health ecosystem: clinical providers, community-based providers, payers, technology vendors, federal and state government, quality improvement.

- To learn more about the project and how you can participate, join us at the **Birds of a Feather session** TODAY:
  - Time: 5:15 to 6:30
  - Room: M103

[https://confluence.hl7.org/display/PC/Join+the+Gravity+Project](https://confluence.hl7.org/display/PC/Join+the+Gravity+Project)
Tuesday

- CTO Report
- TSC Report
- International Council Report
- Sydney WGM
- Accelerator Status Reports
- Housekeeping Announcements
Housekeeping Announcements

Mark McDougall
HL7 Executive Director
Meeting Schedule

- General sessions begin in this room at 8:00 am through Thursday.
- Day is broken into quarters:
  Q1: 9:00-10:30  Q2: 11:00-12:30
  Q3: 1:45-3:00  Q4: 3:30-5:00
- 30-minute breaks start at 10:30 am and 3:00 pm.
- Use the Onsite Guide or MobiApp to find the location of your desired meetings.
Lunches

- Lunch is at 12:30 pm each day
- If you have an allergy and have a Special Meals Ticket in your packet, please speak to a server; they may have a meal for you.
- If you registered for Friday and plan to attend the luncheon, please pick up your ticket by 12:00 pm today at the registration desk.
Wireless Access

- Connect to – HL7SEP2019
- Password – HealthLevel7
- Yes, the password is case sensitive
HL7 Mobile App

- To access our mobile app, follow this URL: http://eventmobi.com/swgm2019
- You can also scan the code at the registration desk.
- Stay up to date with event announcements, changes, view the site map, meeting agendas, and best of all, create your own schedule!
- If you experience any issues in your meeting rooms, send a message to the Reg Desk by using the Help Desk tab under WGM Information.
HL7 Mobile App

- If you do not have a smart phone, you can still access this information from your laptop.
- If your WiFi isn’t working well, you can enable the offline mode and still be kept up to date with any changes.
- Meeting room changes and cancellations will be posted on our boards, but you can also see them via the Alerts tab.
- If you have questions or need help with your app, please see the HL7 Staff.
Evaluations

- Evaluations are collected electronically. Those taking tutorials will be sent a link for their evaluations.
- Meeting attendee evaluation links were sent in your welcome letter and will also be sent after the meeting concludes.
- If you would like to be in our drawing on Wednesday, please complete the surveys via the link below by 8:15 am Wednesday.

http://hl7.me/etingSurvey
Co-Chair Elections
Monday – Wednesday

- Anesthesia
- Arden Syntax
- Biomedical Research and Regulation
- Clinical Decision Support
- Clinical Interoperability Council
- Conformance
- Emergency Care
- FHIR Infrastructure
- Financial Management

- Imaging Integration
- Learning Health Systems
- Modeling and Methodology
- Orders and Observations
- Patient Care
- Pharmacy
- Public Health
- Publishing
- Structured Documents
Co-Chair Election Voting

- Co-Chair elections are now conducted using Election Runner, an online voting application, for co-chair voting.

- You should receive an email from Karen Van Hentenryck.

- If you don’t receive an email and think you are eligible for voting, please contact Karen.
Board of Directors’ meeting begins at 9:00 am today in A601 and A602
Birds of a Feather Meetings

- There are seven tonight!
Birds of a Feather Meeting 1

Da Vinci Project

5:15 – 6:15 pm
in Imperial Salon A
Data Quality

5:15 – 6:15 pm

in M101
Birds of a Feather Meeting 3

CARIN Alliance

5:15 – 6:30 pm
in M104
Birds of a Feather Meeting 4

CodeX

5:15 – 6:30 pm
in M102
Gravity

5:15 – 6:30 pm

in M103
Birds of a Feather Meeting 6

Blockchain

5:15 – 6:45 pm
in M106 and M107
Discussion of CTSA (Clinical Translational Science Award) DAM

5:15 – 6:30 pm
in M105
Breakfast Meeting Tomorrow

Physicians Breakfast Meeting

Wednesday 7:00 – 8:00 am

in M103
GS1 Standards for Supply Chain meets HL7
GS1 Standards for Supply Chain meet HL7

- GS1 in hospitals
- UDI – EU specificities
- Considerations about IHE «Uniform Barcode Processing (UBP)» profile
- Q&A
GS1 Standards for Supply Chain Meets HL7

- GS1 in hospitals
- UDI – EU specificities
- Considerations about IHE «Uniform Barcode Processing (UBP)» profile
- Q&A
Thanks for joining us this week and best wishes for an enjoyable and productive day!
33rd Annual Plenary & Working Group Meeting
Atlanta, GA
Tuesday, September 17, 2019
33rd Annual Plenary & Working Group Meeting

Atlanta, GA

Wednesday, September 18, 2019
HL7 Working Group Meeting Attendee Survey

https://www.surveymonkey.com/r/swgm2019

or

HL7.me/etingSurvey (case sensitive)

Fill out the survey to be eligible for drawings!
Wednesday

- Annual Business Meeting
- Recognition of Key Individuals and Companies
- 2020FEB Sydney Connectathon and WGM
- Volunteer of the Year Award
- Announcements
Wednesday

- Annual Business Meeting
  - Secretary’s Report
  - Treasurer’s Report
  - Chair’s Report and Board Meeting Highlights
  - HL7 Fellows Class of 2019
Secretary’s Report

Melva Peters
2019 HL7 Board Election Results

All positions have two-year terms starting January 1, 2020

Treasurer: Floyd Eisenberg, MD

Affiliate Director: Peter Jordan

Director – Clinician: Julia Skapik, MD

Director – Implementers: Viet Nguyen, MD

Congratulations!
Treasurer’s Report
Russell Leftwich, MD
Noteworthy Highlights of 2019 Financials

- ORG memberships exceeding budget by $137k, or 5%, while IND memberships continue to decline by 17%

- 2019 HL7 FHIR DevDays net income of $379k exceeded budget by $119k

- Exceeding budgeted revenues for WGMs by $140k and distance learning by $88k

- Yearend forecast of net income of $498k which is $645k better than the budgeted loss of $147k, produces a yearend cash reserves of $6.3M

- Yearend cash balance as measured in months of operating expenses: 11.07 months

- 2019 has been a very good year for HL7’s financials
## Summary of HL7's 2019 Financials

<table>
<thead>
<tr>
<th></th>
<th>2019 Budget</th>
<th>2019 Yearend Forecast</th>
</tr>
</thead>
<tbody>
<tr>
<td>Revenues</td>
<td>6,647,525</td>
<td>7,336,763</td>
</tr>
<tr>
<td>Expenses</td>
<td>6,794,957</td>
<td>6,838,373</td>
</tr>
<tr>
<td>Net Income</td>
<td>-147,431</td>
<td>498,389</td>
</tr>
<tr>
<td>2019 Yearend Reserves</td>
<td>5,663,081</td>
<td>6,308,901</td>
</tr>
<tr>
<td>Reserves in months of operating expenses</td>
<td>10.00</td>
<td>11.07</td>
</tr>
</tbody>
</table>
Chair’s Report and Board Meeting Highlights
Calvin Beebe
Chairs Report – Board Meeting Highlights

- Approval of HL7’s Strategic Plan and Objectives
- HL7’s Implementer Strategy
- HL7 Business Model Committee Updates
- V2 Management Update
- FHIR Accelerator
HL7 International Strategic Plan*

Mission: To provide standards that empower global health data interoperability

Vision: A world in which everyone can securely access and use the right health data when and where they need it.

Core Strategic Goals

**Image**
Enhance the public image and achieve recognition by stakeholders as the leading SDO for worldwide health data interoperability standards

**Organizational Vitality**
Secure long-term sustainable revenue to realize the vision and improve customer experiences (internal and external)

**HL7 Standards**
Establish HL7 FHIR as the primary standard for global health data interoperability
Enhance and maintain quality of and accessibility to HL7 standards in current use

*Note: Board of Directors approved these goals and objectives on September 17, 2019.*
HL7 International Strategic Objectives

Image

A. Expand c-suite image/perception of HL7 from standards to solving problems and improving the bottom line (I)
B. Increase HL7 FHIR usage worldwide (I)
C. Improve relevance of HL7 International with key target audiences globally and establish/strengthen relationships with key stakeholders (M)
D. Enhance value of standards to target audiences globally (L)

Organizational Vitality

A. Protect existing revenue sources (I)
B. Increase the net capacity of staff and volunteer resources to meet growing demands, such as implementer support (I)
C. Increase sustainable, profitable revenue streams from existing and new sources such as implementers (M)
D. Develop and implement a profitable business model (M)

HL7 Standards

A. Implement strategic lifecycle tooling plan for standards (I)
B. Demonstrate the value of HL7 FHIR in enabling interoperability (M)
C. Ensure resources are most effectively prioritized (M)
D. Increase efficiency and effectiveness of standards update process (M)
E. Improve accessibility to standards (M)

Priority Key:
(I) - Immediate = Must begin objective in next fiscal year
(M) – Mid-term = May begin objective, if resources permit, in next fiscal year
(L) – Later = Begin objective in subsequent fiscal year
Definition of Implementers

Dave Shaver reported on the groups of HL7 users we might serve:

- 1k standards developers
  How do I build a standard? How do I Vote?

- 2k realm profilers ‘interpreting’ the standard
  Is the standard meeting our political and operational needs?

- 10k software developers (vendors) 'implementing' a given profile of standard
  How do I make my software implement the guidance given in a realm’s profile? Who answers questions about the base standard unanswered in the profile?

- 100k users 'integrating' the vendors’ implementation
  Does my vendor’s interface comply with the realm’s profile and standard? I have questions around specific workflows for my vendor’s interface
Report out from business model committees

- Membership - Jen, Mary Ann, Karen
- Products & Services - Diego, Calvin, Austin
- Internal Processes - Melva, Austin
- Affiliate Model - Line, Ed, Diego, Melva, Peter, Rik, Christof, Mark
- HL7 FHIR - Janet, Chuck Ken
- Administration - Dave, Line, Mark
Frank Oemig and Riki Merrick provided an update from the V2 Management Group. They noted that:

- V2.9 is done and ready for publication
- Conformance activities are ongoing.
- A couple of IGs have recently been published or are being worked on.
- V2+ Project
  - The primary goals is to update technical terminology, secondary goals include web-based, automated publications and web-based editing with FHIR server
  - Trying to have everything V2 available via FHIR technologies
Wayne shared an overview of the current and pending FHIR Accelerator projects.

Given the growth of the new projects:
- A joint TSC / Board taskforce is being pulled together to work on strategies to enable HL7 to support the FHIR Accelerator projects.
Wednesday

HL7 Fellows Class of 2019
Calvin Beebe
Congratulations to 2019 HL7 Fellows

- Marivan Abrahão, MD
- Catherine Chronaki
- Gora Datta
- Martin Entwistle
- Julie James
- Lenel James
- Robert Jenders, MD
- Brian Pech
- Francisco Perez
- Timo Tarhonen
Congratulations to 2019 HL7 Fellows

Not in attendance:

- Marivan Abrahão, MD
Wednesday

- Annual Business Meeting
- Recognition of Key Individuals and Companies
- Volunteer of the Year Award
- Announcements
Recognition of our valued tutorial speakers, who helped produce 23 tutorials this week
Recognition and thanks to our mentors, facilitators, TSC members and all co-chairs…

the *backbone* of HL7
…Will all people who have been HL7 members for less than 10 years please stand.
...If you have been an HL7 member for more than 10 years please stand
...If you have been an HL7 member for more than 20 years please stand
Recognition of Very Long Time Members

HL7 members for 25-29 years include:

- Hans Buitendijk
- Albert Edwards
- Ted Klein
- Virginia Lorenzi
- Clem McDonald, MD
- Charles Meyer
- Doug Pratt
- John Santmann
- Mead Walker
Recognition of Very Long Time Members

HL7 members for more than 30 years include:

Gary Dickinson and Ed Hammond
## Recognition of Long Time Affiliates

Affiliates for **more than 20 years** include:

<table>
<thead>
<tr>
<th>HL7 Australia</th>
<th>HL7 Japan</th>
</tr>
</thead>
<tbody>
<tr>
<td>HL7 Canada</td>
<td>HL7 Netherlands</td>
</tr>
<tr>
<td>HL7 Finland</td>
<td>HL7 New Zealand</td>
</tr>
<tr>
<td>HL7 Germany</td>
<td>HL7 UK</td>
</tr>
</tbody>
</table>
Recognizing our Sponsors at this week’s Working Group Meeting
Thank You to Our Sponsors
Recognizing our 2019 Benefactors
Thank You to Our Benefactors
Thank You to Our Benefactors

CRISP
PARTNERS HEALTHCARE
Department of Veterans Affairs
InterSystems
newwave
GUIDEWell
PHILIPS
HealthIT.gov
accenture
Recognizing our 2019 Gold Members
Thank You to Our Gold Members
Thank You to Our Gold Members
Thank You To Our Gold Members
Thank You to Our Gold Members
Thank You to Our Gold Members
Thank You to Our Gold Members
Thank You to Our Gold Members
Thank You to Our Gold Members
Thank You to Our Gold Members
Wednesday

- Annual Business Meeting
- Recognition of Key Individuals and Companies
- 2020FEB Sydney Connectathon and WGM
- Volunteer of the Year Award
- Announcements
LINKS

http://hl7.sydney

http://hotels.hl7.sydney

http://flights.hl7.sydney
QANTAS FREE FLIGHT RAFFLE

- Visit postcard.hl7.Sydney
- Before 4:30PM
- Use ATLHL7 – 20% off
- Accept Terms
- Drawn Thursday
Wednesday

- Annual Business Meeting
- Recognition of Key Individuals and Companies
- 2020FEB Sydney Connectathon and WGM
- Volunteer of the Year Award
- Announcements
Volunteer of the Year Award

Ed Hammond
Volunteer of the Year Award

Jean Duteau
Volunteer of the Year Award

Reed Gelzer, MD
Volunteer of the Year Award

Emma Jones
Volunteer of the Year Award

Jean Duteau
Reed Gelzer, MD
Emma Jones
Wednesday

- Annual Business Meeting
- Recognition of Key Individuals and Companies
- Volunteer of the Year Award
- Announcements
Reminder

- Co-Chairs – please let staff know if you will be leaving your room early or plan to join another work group
The Greening of Health IT

12:30 – 1:30 pm

in M102
The TSC Luncheon Meeting is today

Please grab your meal from the main buffet and bring it to M103
Co-Chair Elections close at 5:00 today

- Anesthesia
- Arden Syntax
- Biomedical Research and Regulation
- Clinical Decision Support
- Clinical Interoperability Council
- Conformance
- Emergency Care
- FHIR Infrastructure
- Financial Management
- Imaging Integration
- Learning Health Systems
- Modeling and Methodology
- Orders and Observations
- Patient Care
- Pharmacy
- Public Health
- Publishing
- Structured Documents
Co-Chair Election Voting

- Co-Chair elections are conducted using Election Runner, an online voting application, for co-chair voting.

- You should receive an email from Karen Van Hentenryck.

- If you don’t receive an email and think you are eligible for voting, please contact Karen at karennvan@HL7.org.
Board and TSC Elections

- Nominations – May 1 – June 15
- Elections – July 1 – 30
- Access the links under news and announcement on the HL7 website to enter the Board nominations pages.
Welcome to the ATL!

Our team at the Atlanta Marriott Marquis are grateful to have you as our guest during the 33rd Annual Plenary & Working Group Meeting. We hope that you have enjoyed your stay with our magnificent hosts these last five days, and that you find the hotel suitable to networking and learning.

It came to my attention that we were not properly prepared to host some of you during your luncheon Monday and Tuesday. We pride ourselves on being best-in-class in conventions so please accept our sincere apology. Therefore, the first hour of tonight’s reception will be hosted by the hotel. We hope you enjoy the open bar.

We hope this does not effect your overall impression of Health Level Seven International as we take full responsibility at the Atlanta Marriott Marquis.

Our goal is to ensure your complete satisfaction throughout your stay. If your experience with us has been anything less than magnificent, our team would love the opportunity to resolve it to make your stay brilliant. Do not hesitate to reach out to the manager on duty by dialing our At Your Service team by pressing “0” on the hotel phone.

We would not be here without valued guests such as you. Thank you for your business.

Sincerely,

Meinrad F. Long, III
Resident Manager
Networking Reception

Please join us tonight
5:15 pm – 6:45 pm
Skyline South
Announcements

- Thanks, best wishes for an enjoyable day, and we look forward to seeing you at our reception tonight.
33rd Annual Plenary & Working Group Meeting

Atlanta, GA

Wednesday, September 18, 2019
33rd Annual Plenary & Working Group Meeting

Atlanta, GA

Thursday, September 19, 2019
Thursday

Announcements

Mark McDougall
HL7 Executive Director
Co-Chair Election Results

- Anesthesia – John Walsh
- Arden Syntax – Robert Jenders
- Biomedical Research and Regulation – Boris Brodsky
- Clinical Decision Support – Robert Jenders, Ken Kawamoto
- Clinical Interoperability Council – Laura Heerman Langford
- Clinical Quality Information – Patty Craig
- Conformance – Ioana Singureanu
- Emergency Care – Jim McClay
- FHIR Infrastructure – Lloyd McKenzie (Yunwei Wang, please see me)
- Financial Management – Andy Stechishin
Co-Chair Election Results

- Imaging Integration – Chris Lindop
- Learning Health Systems – Bruce Bray
- Modeling & Methodology – Grahame Grieve
- Orders & Observations – Ralf Herzog
- Patient Care – Laura Heerman Langford, Michael Padula, Michael Tan
- Pharmacy – John Hatem, Melva Peters
- Public Health – Craig Newman, Laura Rappleye
- Publishing – Brian Pech
- Structured Document – Calvin Beebe
Wednesday

Drawing for Prizes
Thursday

Upcoming Meetings
Future HL7 Working Group Meeting

International Conference & Working Group Meeting

February 2 – 3, 2020
FHIR Connectathon

February 4 – 7, 2020
Working Group Meeting

Sydney, Australia
HIMSS20

HL7 Booth #2921
March 9 – 13, 2020
Orange County Convention Center
Orlando, FL
Details for 2020 coming soon!
Future HL7 Working Group Meeting

34th Annual Plenary & Working Group Meeting

Sept. 19 – 25, 2020

Renaissance Baltimore Harborplace Hotel

Baltimore, Maryland
Future HL7 Working Group Meeting

Working Group Meeting

January 16 – 22, 2021

Hilton Lake Las Vegas Resort & Spa

Henderson, Nevada
Future HL7 Working Group Meeting

Working Group Meeting

May 22 – 28, 2021

Hilton New Orleans Riverside

New Orleans, Louisiana
Thursday

- Should your travel plans prevent you from using lunch tickets, please return them to the registration desk this morning.
- No general session on Friday.
Thank you and safe travels!