electronic Long-Term Services & Supports (eLTSS) Community Update

September 6, 2018
Meeting Etiquette

• Remember: If you are not speaking, please keep your phone on mute

• **Do not put your phone on hold.** If you need to take a call, hang up and dial in again when finished with your other call

  » Hold = Elevator Music = frustrated speakers and participants

• **This meeting is being recorded**

  » Another reason to keep your phone on mute when not speaking

• **Use the “Chat” feature** for questions, comments and items you would like the moderator or other participants to know.

  » Send comments to ALL PANELISTS so they can be addressed publically in the chat, or discussed in the meeting (as appropriate).
# Agenda

<table>
<thead>
<tr>
<th>Topic</th>
<th>Presenter</th>
</tr>
</thead>
<tbody>
<tr>
<td>Welcome</td>
<td>Evelyn Gallego (EMI Advisors LLC)</td>
</tr>
<tr>
<td>Recap: eLTSS Roadmap</td>
<td>Evelyn Gallego (EMI Advisors LLC)</td>
</tr>
<tr>
<td>eLTSS HL7 C-CDA Implementation A Thon Summary and Outcomes</td>
<td>Evelyn Gallego (EMI Advisors LLC)</td>
</tr>
<tr>
<td>National HCBS Conference - Summary Report Out</td>
<td>Kerry Lida (CMS)</td>
</tr>
<tr>
<td></td>
<td>Liz Palena-Hall (ONC)</td>
</tr>
<tr>
<td>eLTSS Whitepaper and the HL7 September 2018 Ballot Cycle</td>
<td>Mark Meadows (Georgia Team)</td>
</tr>
<tr>
<td></td>
<td>Irina Connelly (Georgia Team)</td>
</tr>
<tr>
<td>eLTSS Community Engagement and Next Steps</td>
<td>Evelyn Gallego (EMI Advisors LLC)</td>
</tr>
</tbody>
</table>
Welcome
Objectives for Today

• Provide the eLTSS Community with an update on the eLTSS Dataset Standardization efforts—*what have we accomplished since we last convened on February 22nd 2017?*

• Share lessons learned from two eLTSS Dataset testing events and encourage community to participate in upcoming testing events

• Provide high-level overview of eLTSS whitepaper submitted to HL7 for balloting as part of the Aug-Sept 2018 Ballot Cycle

• Engage and encourage eLTSS Community in providing comments on the eLTSS whitepaper

• Discuss next steps for advancing the eLTSS Dataset through the HL7 standards development process
Recap: eLTSS Roadmap
eLTSS Initiative At-A-Glance

- eLTSS Initiative Kick-Off: November 2014
- Pilot Starter Kit Complete
- eLTSS Dataset Harmonization Kick-Off
- eLTSS Core Components Complete
- Pilot Presentations Complete
- Round 2 Pilots Complete
- eLTSS Dataset Standardization with HL7 Kick-Off (Sept)
- eLTSS Final Dataset Published (Sept)
- eLTSS Supplemental Funding Begins (eLTSSv2)
- eLTSS Standard Mapping Completes
- eLTSS Whitepaper published for HL7 Ballot

The Office of the National Coordinator for Health Information Technology
eLTSS Roadmap: 2017 to 2018

1. eLTSS Standard Development
   Internal coordination with GA Reference Data Model Project
   - HL7 WG Coordination

   - Nov GA F2F Meeting
   - March 21 GA F2F Meeting

   - eLTSS Draft Guidance Complete
   - eLTSS Whitepaper Published
   - eLTSS Pilot Guidance Complete

2. eLTSS Standard Testing
   Pilots Identification
   - eLTSS Dataset Testing (FHIR & C-CDA)

3. HL7 Whitepaper Ballot Development
   - eLTSS Whitepaper Revisions & Ballot Development
   - HL7 Jan WGM
   - HL7 May WGM
   - HL7 Sept WGM

   - eLTSS Ballot Period (Aug 24 – Sept 24)
The Road Ahead

• High level activities planned for 2018 – 2019:
  » Develop eLTSS DRAFT Implementation Guidance (IG) based on comments received on the HL7 September 2018 ‘informative’ whitepaper ballot
  » Schedule and test eLTSS draft IG via HL7 and/or ONC sponsored FHIR and C-CDA connectathons/ implementation-a-thons (target January 2019 and June 2019)
  » Update eLTSS IG based on testing event and connectathon results
  » Ballot eLTSS IG as a **Standard for Trial Use (STU)** during the HL7 September 2019 ballot cycle

• 2019-2020: continue advancing the maturity of the eLTSS IG through the HL7 process
  » Encourage eLTSS community to participate in HL7 led FHIR and C-CDA testing events
HL7 C-CDA Implementation-a-Thon (IAT)
Summary and Outcomes
HL7 C-CDA Implementation-a-Thon Event Details

• Date: August 9 – 10, 2018

• Location: Washington, DC (@ the Kaiser Permanente Center for Total Health)

• HL7 Goals:
  » Work through C-CDA document exchange scenarios and discussion items
  » Gather feedback regarding C-CDA/FHIR Mapping
  » Uncover issues and/or Pain points with C-CDA 2.1

http://confluence.hl7.org/display/IAT/20180809-10+Implementation-A-Thon
Participant Organizations

**Vendor & Implementer Organizations**
- AEGIS.net
- Allscripts
- Athena Health
- Deloitte
- Dynamic Health IT
- Epic
- The Sequoia Project
- Kaiser Permanente
- Optum
- Medside Healthcare
- WaveOne Associates

**Federal Agencies**
- ONC
- Social Security Administration
- Department of Veteran Affairs

**eLTSS Support Team**
- Carradora Health
- EMI Advisors, LLC
- ESAC Inc.

**HL7 Tech Facilitators**
- Duteau Design (HL7)
- Madra Consulting (HL7)
- MaxMD (HL7)
- MD Partners (ONC/NLM)
- Drajer (ONC)
Recap: What is the HL7 C-CDA?

Implementation Guide describes a set of templates that provide the “building blocks” for clinical documents.

Consists of 12 Document Templates:
- Continuity of Care Document (CCD)
- Consultation Note
- Diagnostic Imaging Report (DIR)
- Discharge Summary
- History and Physical (H&P)
- Operative Note
- Procedure Note
- Progress Note
- Unstructured Document
- Care Plan
- Transfer Summary
- Referral Note

HL7 C-CDA IAT Scenarios

Three Scenarios:

- Encounter Summary vs. Patient Summary
- CDA to FHIR Mapping
- Care Plan & Care Plan Linkages
HL7 C-CDA IAT Care Plan Scenarios

Scenario 1
Care Plan Structure

Scenario 2
Care Plan Content and Longitudinal Updates

Scenario 3
Care Team Integration

Scenario 4
SDOH and eLTSS Data Integration

LEVEL OF COMPLEXITY
low high
• Start with a completed Care Plan. Assume an CB-LTSS assessment has been completed and serves as input to the Care Plan. Use the Problem Concern Act template within the Health Concern section to enter an Assessed Need. For example, an assessed need for physical activity to address an obesity health concern.

• Add a Health Status Evaluation and Outcomes section. In that section, add textual information about the date and type of Assessment performed and add a description of 1 Strength (a favorable attribute the individual has identified about themselves).

• Also add 1 piece of information collected in that same assessment which is an observation about a relevant social determinant of health (SDOH) for this individual.

NOTE: HL7 C-CDA Facilitators proposed testing eLTSS Dataset in same scenario as SDOH data capture scenario due to opportunity to capture SDOH relevant data through the CB-LTSS assessment process.
Outcomes/Feedback related to eLTSS

- Best attended C-CDA IAT Event!!! eLTSS scenario initiated good discussion.

- eLTSS dataset maps to CDA **Assessment template**. IAT participants requested eLTSS use the **Health Status Evaluation and Outcomes template** to capture “assessment-related” information.
  
  » SDWG will work with HL7 and Regenstrief to clarify that the Health Status Evaluation and Outcomes section includes both Health Status Evaluations (assessments) and Outcomes (observation that are a judgement call on the progress related to the goal or the interventions performed).

  » **STU comment 1623** created to clarify the cyclical nature of care planning, and that Assessments (evaluations) belong in the Health Status Evaluation section as well as Outcomes.
Outcomes/Feedback related to eLTSS

• A gap was identified for the eLTSS Plan Effective Date data element.
  » The `serviceEvent.effectiveTime` covers the time spent delivering the care planning service. It is not appropriate for the semantics needed to express the range of time covered by the plan.

• Longitudinal Care (Service) Plans
  » No participants provided samples to show a care plan over time (at creation, after updates, at completion).
  » Participants agreed this overlaps with guidance needed around document versioning and data provenance.
  » Participants agreed to collect real world examples (or create specific "synthetic" examples to show this for next IAT).
Outcomes/Feedback related to eLTSS

• eLTSS C-CDA plans difficult to generate during testing without applicable codes and value sets
  » A sample of a complete LTSS C-CDA CarePlan instance would have been helpful to share with participants before the event
  » The sample would help identify the right codes (e.g. OIDs) and value sets to include in the C-CDA CarePlan XML content to pass validation checks (this information is part of the C-CDA specification)
  » It would provide representative data examples for some of the LTSS-specific data items such as assessed need, preferences, strengths. This would help participants understand how LTSS data varies from similar data items in the clinical realm.

NOTE: A sample plan is included in the eLTSS Whitepaper
National Home & Community Based Services (HCBS) Conference Summary Report Out
National HCBS Conference Event Details

• Date: August 27 – 30, 2018

• Location: Baltimore Marriott Waterfront, Baltimore, MD

• Event Description: Even while facing new challenges, reduced budgets, and growing demand for HCBS services, states continue to effectively engage and serve their citizens. The National Home and Community Based Services (HCBS) Conference highlights these achievements, allowing states to share innovative programs, present unique partnerships, and recognize the work of their peers.

• Link: https://www.hcbsconference.org/index.cfm
Debrief from TEFT & eLTSS Presentation

Kerry Lida (CMS)
Liz Palena-Hall (ONC)
eLTSS Whitepaper
and the HL7 September 2018 Ballot Cycle
eLTSS Engagement with HL7

• Participating in select weekly **HL7 Workgroup Meetings** and active HL7 standardization projects
  » HL7 Community-Based Care and Privacy (CBCP)*
  » HL7 Orders and Observations (O&O)
  » HL7 Patient Care (PC)
  » HL7 Learning Health Systems (LHS)
  » HL7 Structured Documents (SD)

• Participated in the **2018 HL7 January Working Group Meeting** in New Orleans

• Provided VA/SAMHSA team with sample eLTSS-based FHIR files for testing at the **2018 HL7 May Working Group Meeting** in Cologne

• Facilitated **June 28th 2018 eLTSS FHIR mini-Connectathon** in Atlanta

• Participated in the **August 9-10, 2018 HL7 C-CDA IAT**
eLTSS Whitepaper Submission: HL7 September 2018 Ballot Cycle

• Includes detailed mappings and examples to FHIR and C-CDA standards for the representation of 56 data elements published in the eLTSS Dataset.

• eLTSS Whitepaper will serve as the foundation for future ballots for implementers of electronic exchanges involving LTSS.

• Testing outcomes from the June eLTSS FHIR mini-Connectathon and the August HL7 C-CDA IAT have informed the development and finalization of this whitepaper.

Why Collaborate with HL7, a Standards Development Organization?

We want to ensure we identify the right and industry-recognized electronic standards to represent the eLTSS dataset in electronic systems. The standards identified support the INTEROPERABLE capture and exchange of eLTSS data elements across clinical (e.g. EHRs) and non-clinical IT systems (e.g. LTSS system)
eLTSS Whitepaper ‘Informative’ Ballot

- As part of the HL7 publication process, the eLTSS Whitepaper and appendices are now available for comment during the HL7 September 2018 Ballot Cycle.
  - ‘Informative’ Ballot is one that explains or supports the structure of an HL7 specification or provides detailed information regarding the interpretation or implementation of an HL7 specification.
    - Needs 60% affirmative votes to be ‘approved’. No quorum is required.
- The HL7 Ballot Comment period opened August 24, 2018 and will close September 24, 2018.
- **Note:** As the eLTSS Whitepaper is an HL7 artifact and part of an active HL7 ballot cycle, we cannot share the eLTSS Whitepaper directly.
- For more information, please visit the HL7 website: [http://www.hl7.org](http://www.hl7.org)
Whitepaper Purpose: Provide the HL7 Community with context and narrative around how two national recognized standards, FHIR and C-CDA, can be used to represent and exchange the eLTSS dataset

- Introduction, Objectives and Background
- LTSS Ecosystem Overview and Information Sharing Use Cases
- FHIR and C-CDA for LTSS Service Plan Information Exchange
  - Approach for Selecting Standards
  - Overview of Selected Standards and Mapping Results
  - Exchanging LTSS Service Plans Using FHIR
- Exchanging LTSS Service Plans Using C-CDA
- Considerations for Future Work
- Appendices:
  - eLTSS Dataset
  - FHIR and C-CDA Mappings
  - FHIR and C-CDA sample instances
  - C-CDA rendered sample
  - Quality of Mapping Legend
### eLTSS C-CDA and FHIR Mapping Overview

<table>
<thead>
<tr>
<th>C-CDA Resource</th>
<th>C-CDA Data Element</th>
<th>Data Element Definition (include example, equivalent C-CDA data element, and local notes on value type/structure)</th>
<th>C-CDA Resource Element (Path)</th>
<th>C-CDA Resource Element (Cardinality)</th>
<th>FHIR Resource Thesaurus</th>
<th>FHIR Resource Element (Path)</th>
<th>FHIR Resource Element (Cardinality)</th>
<th>US-Care Resource Thesaurus</th>
<th>US-Care Resource Element (Path)</th>
<th>US-Care Resource Element (Cardinality)</th>
<th>Mapping for FHIR Resources</th>
<th>Quality of mapping</th>
</tr>
</thead>
<tbody>
<tr>
<td>Patient Information</td>
<td>ServiceUnitQuant</td>
<td>The minimum amount of the service unit being provided: Total (rounded up) to the nearest whole unit.</td>
<td>valueQuantity: {4.2}</td>
<td>1</td>
<td>Resource</td>
<td>body</td>
<td>1-1</td>
<td>Resource</td>
<td>body</td>
<td>1-1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Patient Information</td>
<td>UnitOfServiceType</td>
<td>The minimum amount of the service unit being provided: Total (rounded up) to the nearest whole unit.</td>
<td>valueQuantity: {4.2}</td>
<td>1</td>
<td>Resource</td>
<td>body</td>
<td>1-1</td>
<td>Resource</td>
<td>body</td>
<td>1-1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Patient Information</td>
<td>UnitOfServiceDuration</td>
<td>The minimum amount of the service unit being provided: Total (rounded up) to the nearest whole unit.</td>
<td>valueQuantity: {4.2}</td>
<td>1</td>
<td>Resource</td>
<td>body</td>
<td>1-1</td>
<td>Resource</td>
<td>body</td>
<td>1-1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Patient Information</td>
<td>TotalCoreServices</td>
<td>The total count of services for the duration.</td>
<td>valueQuantity: {4.2}</td>
<td>1</td>
<td>Resource</td>
<td>body</td>
<td>1-1</td>
<td>Resource</td>
<td>body</td>
<td>1-1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Patient Information</td>
<td>SupporterName</td>
<td>The name of the person (e.g., Care Manager, Care Coordinator, Patient) who helped develop the plan.</td>
<td>valueString: {10}</td>
<td>1</td>
<td>Resource</td>
<td>body</td>
<td>1-1</td>
<td>Resource</td>
<td>body</td>
<td>1-1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Patient Information</td>
<td>SupporterPhoto</td>
<td>Photo of the person (e.g., Care Manager, Care Coordinator, Patient) who helped develop the plan.</td>
<td>valueBinary: {10}</td>
<td>1</td>
<td>Resource</td>
<td>body</td>
<td>1-1</td>
<td>Resource</td>
<td>body</td>
<td>1-1</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Whitepaper outlines the following areas to consider for future activities:

- eLTSS Dataset Expansion
- FHIR Profile Development
- Extensions to FHIR and C-CDA
- Expanding Support for Care Team Information
- Coding LTSS Services
- Information Packaging Recommendations
- Expanding Vocabularies
eLTSS Community Engagement
How can the broader eLTSS Community engage?

- Review and provide comments on the HL7 eLTSS Whitepaper
  - NOTE: You must be an HL7 member or sign-up as non-member to comment directly on an HL7 ballot
- Spread the word about the eLTSS Whitepaper!
- Review and provide comments on the GA eLTSS mappings to FHIR and C-CDA
  - Mappings can be shared with eLTSS Community
  - Please send requests to review mappings or to schedule additional discussion by COB September 17, 2018:
    - evelyn.Gallego@emiadvisors.net
    - sweta.ladwa@esacinc.com
Future Testing Opportunities

• HL7 FHIR Connectathon: Care Plan Track
  » September 29 – 30, 2018 in Baltimore, MD:
  » eLTSS Use Cases and the eLTSS FHIR Mapping will be made available and tested as part of the Care Plan track:
  » Who should attend?
    – eLTSS Community Implementers who plan to use C-CDA documents
    – Individuals and organizations that use and build applications for exchange
    – Users and developers working for healthcare providers, vendors and HIEs
  » Registration Link
    – http://www.hl7.org/events/working_group_meeting/2018/09/
eLTSS Initiative: Project Team Leads

- ONC Leadership
  - Stacy Perchem (Anastasia.perchem@hhs.gov)
  - Elizabeth Palena-Hall (elizabeth.palenahall@hhs.gov)
- CMS Leadership
  - Kerry Lida (Kerry.Lida@cms.hhs.gov)
- State of Georgia, Department of Community Health Leadership
  - Bonnie Young (bonnie.young@dch.ga.gov)
- Initiative Coordinator
  - Evelyn Gallego (evelyn.gallego@emiadvisors.net)
- Project Management
  - Sweta Ladwa (sweta.ladwa@esacinc.com)
- Harmonization Lead
  - Becky Angeles (becky.angeles@carradora.com)