Initial Report Out

eLTSS Testing at HL7 Connectathon 24
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Purpose of eLTSS Testing

- Implement and test the eLTSS FHIR IG within a variety of independently developed systems

- Exchange eLTSS care plans among disparate health IT (HIT) systems and clients, and display care plans in a consumable format for care providers, beneficiaries, and family members
PACIO-eLTSS Track Testing Architecture

Legend:
For Connectathon: 
For Future: 

Care Coordinator
- Long-Term Care Plan App (Ruby)
- eLTSS RI
- eLTSS Server
- Patient Mobile/Web Client
- Patient Centric Solutions Client
- Transition Summary Client (Ruby)
- Home Health Agency
  - Transition Summary RI Client
  - eLTSS support
  - auth/auth

Hospital
- PAC Assessment App (Ruby)
- "EHR"/Server/Dbase (Java)
- DEL RI Client
  - add SDC support

Health Data Manager
- Auth/Identity Server
- Patient Centric Solutions Server
- FHIR Client
- eLTSS/PACIO Server
- CMS Pseudo DEL (Java)

SNF
- PAC Assessment App (Ruby)
- Leverage eLTSS RI (Altarum)
  - PACIO support

Legend:
For Connectathon: 
For Future: 

Assessments (DEL FHIR IG)
Assessments (PACIO IG)
Assessments (eLTSS IG)
Scene 1
Scene 2
Scene 3
Scene 4
Scene 5
Scene 6
Scene 1

- Ms. Betsy Smith Johnson receives home community-based services (HCBS) services at home. A social worker documents eLTSS data including care plan and goals. eLTSS data is pushed to the Data Hub.
Scene 3

• Betsy is admitted to the SNF for PT/OT/SLP services for 14 days. The SNF retrieves the eLTSS data and assessment data from the Data Manager to inform her care. Functional and cognitive status is assessed on admission and discharge and pushed to the Data Hub.
Scene 5

- After 14 days, Betsy is ready for discharge back home. The HHA agency coordinator reviews the patient's data from the Data Manager as part of the triage process.

### Betsy Smith Johnson’s Services and Supports Plan

- **Patient:** Betsy
- **Description:** A service and support plan that outlines Betsy's assessed needs, goals, strengths, preferences, and services/providers to meet those needs and goals.
- **Time Period:** 05/01/2020 - 12/31/2020
- **Status:** active
- **Intent:** plan

### Conditions
- Needs transportation
- Needs health/nutrition education for diabetes
- Depression (on treatment)

### Goals
- Improve balance skills
- Dance at son’s upcoming wedding

### Activities
- Perform exercises to improve balance skills
- Work on mobility to dance at son’s upcoming wedding

### Supporting info
- **strength:** Able to manage her bills.
- **strength:** Independent walking with cane.
Scene 6

- While at home, Betsy and her authorized family caregiver access the eLTSS data and assessment data through a patient mobile/web application.
Outcomes

• Over 30 participants attended the track

• An eLTSS care plan stored on an eLTSS FHIR server was displayed in a reader-friendly manner in Altarum’s Patient Viewer client

• eLTSS data was effectively and rapidly “pushed” from Altarum’s eLTSS server to a Patient Centric Solutions data hub

• eLTSS care plan data was successfully aggregated with PACIO data within the data hub

• eLTSS data and PACIO data were “pulled” from the data hub to an Altarum server playing the SNF role and displayed together in Altarum’s Patient Viewer client

• eLTSS care plan, along with PACIO data, was “pulled” from the data hub and presented in a user-friendly rendering in MITRE’s transitions of care client

• eLTSS care plan was “pulled” to Patient Centric Solutions PatientShare client and displayed in graphicly accessible manner

• Successful data storage, aggregation, exchange, and display demonstrated the interoperability of the eLTSS IG
Looking Ahead

• The project will collect feedback from partners and participants while it considers lessons learned and next steps

• The Inferno validation tool was run against the Altarum eLTSS server. Output suggests that updates to the US Core IG made since the eLTSS IG was published may necessitate some refinement of eLTSS profiles in the next version of the eLTSS IG

• The care plan was preloaded onto the Altarum eLTSS server. Testing an application which collects eLTSS data at the point of care and then uploads that information into the server could add value to future connectathon testing. The project will explore this option with FEI Systems

• Engaging a system which is currently used in the collection and storage of services and support information, such as the FEI Blue Compass system, could prove valuable to future testing
Acknowledgements

This testing and outcomes could not have been possible without the dedicated engagement of the project’s connectathon partners

• Altarum

• MITRE

• Patient Centric Solutions

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