



The Office of the National Coordinator for
Health Information Technology

Electronic Long-Term Services & Supports (eLTSS)

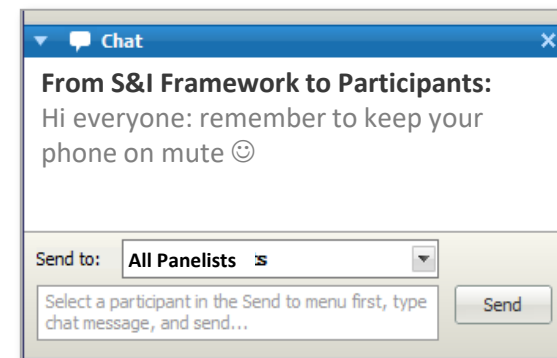
Q2 2018 FEDERAL PARTNER WEBINAR

Date: April 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

Topic Area	Presenter
Welcome & Introductions	Kerry Lida (CMS) & Evelyn Gallego (EMI Advisors LLC)
Update on eLTSS dataset standardization	Evelyn Gallego (EMI Advisors LLC)
SAMHSA Semantic Interoperability Workbench	Ken Salyards (SAMSHA) Ken Lord (MDIX Inc.)
SAMHSA Omnibus Care Plan Care Coordination System	Ken Salyards (SAMSHA) Chirag Bhatt (FEI Systems)
Federal Partner Discussion	All
Next Steps	Evelyn Gallego (EMI Advisors LLC)

Welcome & Introductions

eLTSS Dataset Standardization

RECAP: eLTSS Final Dataset

- Total Number of Elements: 56

Beneficiary Demographics: 10 Elements

Person Name
 Person Identifier
 Person Identifier Type
 Person Date of Birth
 Person Phone Number
 Person Address
 Emergency Contact Name
 Emergency Contact Relationship
 Emergency Contact Phone Number
 Emergency Backup Plan

Goals & Strengths: 3 Elements

Goal
 Step or Action
 Strength

Person Centered Planning: 11 Elements

Assessed Need
 Preference
 Person Setting Choice Indicator
 Person Setting Choice Options
 Service Options Given Indicator
 Service Selection Indicator
 Service Provider Options Given Indicator
 Service Provider Selection Agreement Indicator
 Service Plan Agreement Indicator
 Plan Monitor Name
 Plan Monitor Phone Number

Plan Information: 1 Element

Plan Effective Date

Plan Signatures: 12 Elements

Person Signature
 Person Printed Name
 Person Signature Date
 Guardian/Legal Representative Signature
 Guardian/Legal Representative Printed Name
 Guardian/Legal Representative Signature Date
 Support Planner Signature
 Support Planner Printed Name
 Support Planner Signature Date
 Service Provider Signature
 Service Provider Printed Name
 Service Provider Signature Date

Risks: 2 Elements

Identified Risk
 Risk Management Plan

Service Information: 12 Elements

Service Name
 Self-Directed Service Indicator
 Service Start Date
 Service End Date
 Service Delivery Address
 Service Comment
 Service Funding Source
 Service Unit Quantity
 Unit of Service Type
 Service Unit Quantity Interval
 Service Rate per Unit
 Total Cost of Service

Service Provider Information: 5 Elements

Support Planner Name
 Support Planner Phone Number
 Service Provider Name
 Service Provider Phone Number
 Non-Paid Provider Relationship

Oct-Dec 17

Jan-Feb 18

Mar-Apr 18

May-Jun 18

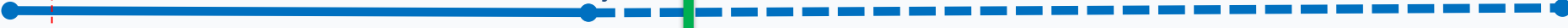
Jul-Aug 18

Sep 18

eLTSS Roadmap: 2017 to 2018

1. eLTSS Standard Development

Internal coordination with GA Reference Data Model Project



Nov GA F2F Meeting

March 21 GA F2F Meeting

eLTSS Draft Guidance Complete

eLTSS Pilot Guidance Complete

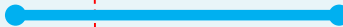
eLTSS Whitepaper Complete

2. eLTSS Standard Testing

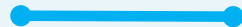
Pilots Identification



Pilots: Test Pilot Guidance



Pilot Findings Report Out



eLTSS Pilots Complete

3. HL7 IG Ballot Development

eLTSS IG Revisions & Ballot Development



HL7 Ballot Materials Due

HL7 NIB Due

HL7 PSS Due

eLTSS Ballot Period (Aug 24 – Sept 24)



eLTSSv2 Kick-Off

HL7 Jan WGM

HL7 May WGM

HL7 Sept WGM

January HL7 Working Group Meeting Debrief

ONC & GA Team Engagement with HL7

- Participating in select weekly HL7 Workgroup Meetings and active HL7 standardization projects (in addition to eLTSS):
 - » HL7 Learning Health System (LHS) and Patient Care: Care Team Domain Analysis Model
 - » HL7 Patient Care: Care Plan Standards Harmonization Project
- Participated in person at HL7 January Working Group Meeting in New Orleans (Jan 28 to Feb 1, 2018)
- Collaboration with standard development organization (SDO) HL7 ensures:
 - » We identify the **right electronic standards** to represent the eLTSS dataset in electronic systems.
 - » The standards identified will support the **INTEROPERABLE** capture and exchange of eLTSS data elements across clinical (e.g. EHRs) and non-clinical IT systems (e.g. LTSS system)

Why do we need HL7 sponsored standards?

- HL7 is an **American National Standards Institute (ANSI)** accredited organization and as such maintains strict processes for the development, curation and publication of health IT standards
- Expert stakeholder groups across healthcare industry participate and contribute to HL7 standards
- Adherence to the HL7 process provides a level of legitimacy and formality to a technical innovation
- HL7 published standards can be enforced by inclusion in regulations and policies by government agencies (Federal and State)
- Several HL7 standards are referenced in ONC Health IT Certification Program (Regulation), ONC Interoperability Standards Advisory (ISA) (Guidance) and CMS Quality Payment Programs (QPP)

HL7 Workgroup (WG) Presentations

HL7 Workgroup	Why target this WG?
Community-Based Care and Privacy (CBCP)	Focus on standards to improve the delivery of community-based care (non-institutional). Three focus areas are: Behavioral Health, Privacy and Consent and Long-Term Care. Engage with other HL7 WGs based on common goal of interoperability across sectors and disciplines with Health and Human Services.
Financial Management	Focus on standards for financial event messages to include those needed for patient administration, medication, orders and observations and benefits determination.
Attachments	Identify standards that support the exchange of additional supporting information amongst payers/utilization management organizations related to: healthcare claims or encounters; healthcare services review; post adjudicated claims audits
Clinical decision Support (CDS)	Focus on development of standards to support system-agnostic implementations of clinical decision support, including messages, services, information models, and knowledge representation formalisms.
Clinical Quality Information (CQI)	Create standards in support of improving health care quality, including clinical and non-clinical care, and to foster collaboration between quality measurement, outcomes and improvement stakeholders. Work closely with other HL7 WGs and other accreditation/certification organizations to include NQF, NCQA, Joint Commission.

HL7 Workgroup (WG) Presentations

HL7 Workgroup	Why target this WG?
Structured Documents	Main workgroup responsible for the development of clinical document architecture (CDA) standards to include the C-CDA document templates referenced in ONC regulations (Care Plan, Continuity of Care, Discharge Summary, Referral Note, Consult Note)
Orders and Observations (O&O)	Focus on standards to support the order/scheduling and clinical event management/reporting requirements between stakeholders in a healthcare organization regarding patients, non-patients, people, other species, or inanimate objects.
Patient Care	Main workgroup responsible for development of standards related to patient care information. Inform activities of several HL7 WGs in topics such as: care structures, care records, care transfer and referral, allergies/adverse events, care plans, care coordination, assessments and procedures.
Patient Administration	Focus on standards to support interoperable exchange of patient admin information to include: demographics, additions and modifications to registries, scheduling of appointments for services, encounters and associate resources and queries for information
Learning Health System	Focus on development of a domain analysis model (DAM) for learning health systems as related to the adaptive systems described in the Institute of Medicine (IOM) reports. WG is currently developing the Care Team DAM that includes LTSS stakeholder groups.

Standards Reviewed with HL7 WGs

HL7 Workgroup	Topic and/or Standards For Discussion
CBCP	FHIR ProcedureRequest, Procedure
Financial Management/ Attachments	FHIR Claim, Contract
CDS and CQI	FHIR Activity Definition, PlanDefinition, RiskAssessment CDS Hooks
Structured Docs	C-CDA Care Plan Document Template C-CDA on FHIR
O&O	FHIR Observation, ProcedureRequest, Device Request
Patient Care, Patient Admin, LHS	FHIR CarePlan, CareTeam, ClinicalImpression, Condition, Procedure, Goal, Patient, Practitioner, Related Person, EpisodeOfCare C-CDA Care Plan

Overall Summary

- ONC and GA DCH Support Teams worked hand in hand to deliver seven separate presentations
- HL7 Participants demonstrated interest in this work and recognized this would be a new focus for HL7 (social services/human services); no one indicated HL7 should not be involved
 - » Similar HL7 projects more focused on information exchange between clinical settings and community-based settings (encounter starts within clinical setting not HCBS setting)
 - » Workgroups 'open' to revising existing FHIR resources to meet eLTSS requirements

Key Takeaways

- Learning around difference between “patient” and “person”
- WGs agreed with mapping already completed between eLTSS dataset and FHIR Resources; requested ONC/GA Team submit trackers (change requests) to update existing FHIR resources to reflect eLTSS needs
- SD WG favored any HL7 guidance that will be developed to reference or point to C-CDA versus creating new document template or sections
 - » Request we use same approach as has been done for the C-CDA Nutrition Supplemental Implementation Guide
- Discussion on hosting a catalog or directory of services that FHIR resources can point to
 - » Note that every state pays out services differently; can be included in **Authorization Resource**

Key Takeaways cont'd

- Long discussion on use of Procedure Resource for eLTSS
 - » Agreed that multiple services can be delivered within one encounter
 - » Achieved consensus on updating definition of Procedure Resource to reflect that the 'action' can be made 'on' or 'for' an individual. This would support services such as 'walking the dog' that are done FOR the individual, not ON the individual. PC Co-chair added this request to FHIR Tracker
- LHS developing Care Team DAM that includes eLTSS Use Case. Will be building model of a whole person care team which is made up of multiple component teams or sub-teams

Next Steps: HL7 Work Group Trackers


- [#15127] **Summary:** Update Procedure scope, examples, and category for eLTSS
- [#15691] **Procedure** → Self Direction Indicator - ask for an explicit element to hold a self direction indicator
- [#15690] **Procedure:** Change cardinality of location data element from 0-1 to 0-n. This would keep it in sync with the proposed cardinality for the requested location element in ServiceRequest
- [#15692] **ServiceRequest** → Self Direction Indicator - ask for an explicit element to hold a self direction indicator
- [#15725] **ServiceRequest** - Add funding source data element, cardinality 0-n.
- [#15726] **ServiceRequest** - Add unit cost and total cost data elements.
- [#15727] **ServiceRequest** - Add location data element, cardinality 0-n.
- [#15763] **ServiceRequest** - Clarify definition of insurance to include self-pay, since it links to Coverage which includes self-pay.


Testing Opportunities


- Planning two testing events or connectathons
 - » **May HL7 FHIR Connectathon** in Cologne, Germany: to be led by VA Consultants working on VA Care Coordination Project
 - Two day event hosted through HL7 FHIR Connectathon Care Plan Track
 - » **June eLTSS FHIR Connectathon** in Atlanta: to be scheduled at GA Tech Campus
 - One day event to engage implementers in testing and validating the revised FHIR Resources applicable to the eLTSS dataset
 - Participants responsible for travel, meals and any lodging associated; NO additional participation fees


Next Steps: Mapping to C-CDA R2.1 Care Plan


Beneficiary Demographics & Contact: 6 Elements	Goals, Strengths, Steps and Preferences: 5 Elements	Choice & Consent: 7 Elements	Plan Signatures: 12 Elements	Service Information: 12 Elements
Person Name	Assessed Need	Person Setting Choice Indicator	Person Signature, Printed Name, Signature Date	Service Name
Person Identifier	Goal	Person Setting Choice Options	Guardian / Legal Representative Signature, Printed Name, Signature Date	Service Start Date
Person Identifier Type	Step or Action	Service Options Given Indicator	Support Planner Signature, Printed Name, Signature Date	Service End Date
Person Date of Birth	Strength	Service Selection Indicator	Service Provider Signature, Printed Name, Signature Date	Service Delivery Address
Person Phone Number	Preference	Service Plan Agreement Indicator	Service Provider Signature, Printed Name, Signature Date	Service Comment
Person Address		Service Provider Options Given Indicator	Plan Metadata: 3 Elements	Service Funding Source
	Service Provider Name & Contact: 5 Elements	Service Provider Selection Agreement Indicator	Plan Effective Date	Service Unit Quantity
Emergency Contacts & Backup Plan: 4 Elements	Support Planner Name		Plan Monitor Name	Unit of Service Type
Emergency Contact Name	Support Planner Phone Number	Risks: 2 Elements	Plan Monitor Phone Number	Service Unit Quantity Interval
Emergency Contact Relationship	Service Provider Name	Identified Risk		Service Rate per Unit
Emergency Contact Phone Number	Service Provider Phone Number	Risk Management Plan		Total Cost of Service
Emergency Backup Plan	Non-Paid Provider Relationship			Self-Directed Service Indicator

 Semantic and syntactic equivalence for both C-CDA data element and its use in C-CDA Care Plan

 Some additional context required for either C-CDA data element or its use in C-CDA Care Plan

 Some additional context required for both C-CDA data element and its use in C-CDA Care Plan

 No semantic match for the C-CDA data element, and some additional context required for use in C-CDA Care Plan

 No semantic or structural match available in C-CDA


SAMSHA Semantic Interoperability Workbench (SIW)


Demo to ONC eLTSS Federal Partner Webinar

April, 6, 2018

Substance Abuse and Mental Health Services Administration

Agenda



- Semantic Interoperability Workbench Premise
 - Semantic Interoperability Workbench Introduction
 - Semantic Interoperability Workbench Overview
 - Semantic Interoperability Workbench Process
 - Semantic Interoperability Workbench Functional Overview
 - Semantic Interoperability Workbench Technical Components
 - Semantic Interoperability Workbench Demonstration
 - Q&A
- 

SIW Premise



Effective Care for the patient requires a view of clinical, behavioral and mental health issues. Clinical care and behavior/mental healthcare are provided by different practitioners and support personnel across different organization. To achieve a patient-centric view of the care plan, information exchange is required.

“While the health industry continues to develop new formats that attempt to simplify or modernize interoperability across healthcare, it is continually challenged by the difficulty of current applications to exchange documents that can be interpreted by the receiver of the document.”

- “Interoperability in the 21st Century: Cost Effective Solutions and Guidelines for Interoperable Healthcare Records”, Ken Salyards et al, EJBI, 2016

SIW Introduction



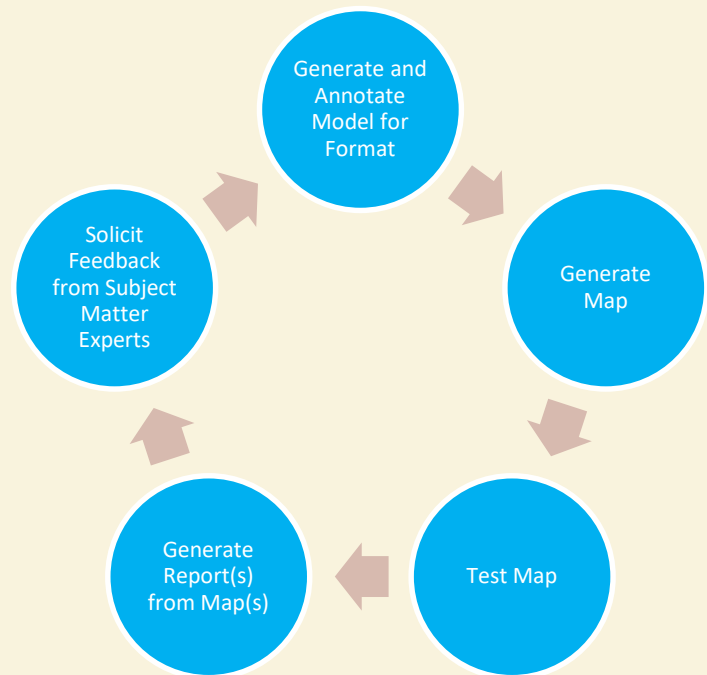
- Employs a model driven approach for determining and testing interoperability between different healthcare exchange formats.
- Federal Agency and SDO programs utilizing the SIW
 - SAMSHA SIW: (OCP, IExHUB)
 - FHA Semantic Interoperability Guide and Generator (SIGG)
 - VHA Standards Incubator
 - HL7: Cross-Paradigm Interoperability Implementation Guide for Immunizations
 - ONC Funded Partners Healthcare Project
 - Massachusetts Behavioral Healthcare Community Partner / ACO Program
- Open Source Software based on OMG Open Standard Interoperability Model, Open Source Content, Open Source Shareable Maps

SIW Process

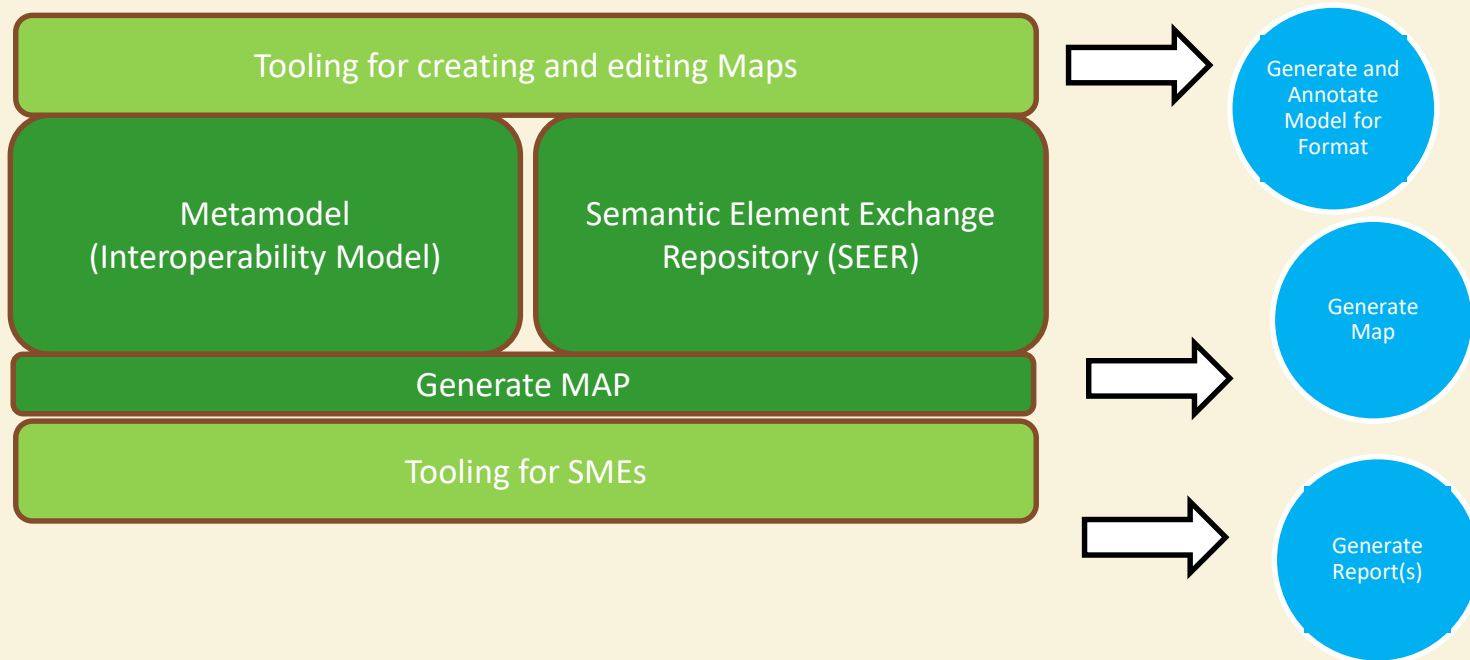
Enables any Map (Model) to exchange and compare information with any other Map.

1. Simplifies
2. Isolates change
3. Enables versioning

Maps: CCD A 1.1, CCD A 2.1, FHIR STU2, FHIR STU3, HL7 V.2 .5*, VLER, DES, FHIM, and others



SIW Functional Overview – Subject Matter Experts



SIW Technical Components



MDMI Metamodel (Interoperability Model)

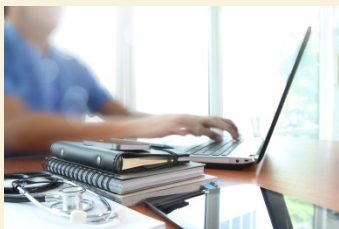
1. Object Management Group Standard
2. Provides any-to-any interoperability
3. Tooling developed to Create and Annotate (Automation)
4. Generates a computable “Map” for the Format
5. Tooling developed for SMEs; e.g. generates a spreadsheet using the Maps.

Semantic Element Exchange Repository (SEER)

1. Over 3,500 Elements; Coverage of CCD A 1.1 and 2.1 data elements and FHIR versions
2. The SEER is comparable to the CMS Data Element Library with additional scope and information.

SIW Demonstration





Omnibus Care Plan Care Coordination System

Demo to ONC eLTSS Federal Partner Webinar

April 6, 2018

Substance Abuse and Mental Health Services Administration

Agenda



- Omnibus Care Plan Premise
- Omnibus Care Plan Overview
- Omnibus Care Plan Team
- Omnibus Care Plan Solution Components
- Omnibus Care Plan Roadmap
- Demonstration of OCP
- Q&A

Omnibus Care Plan Premise

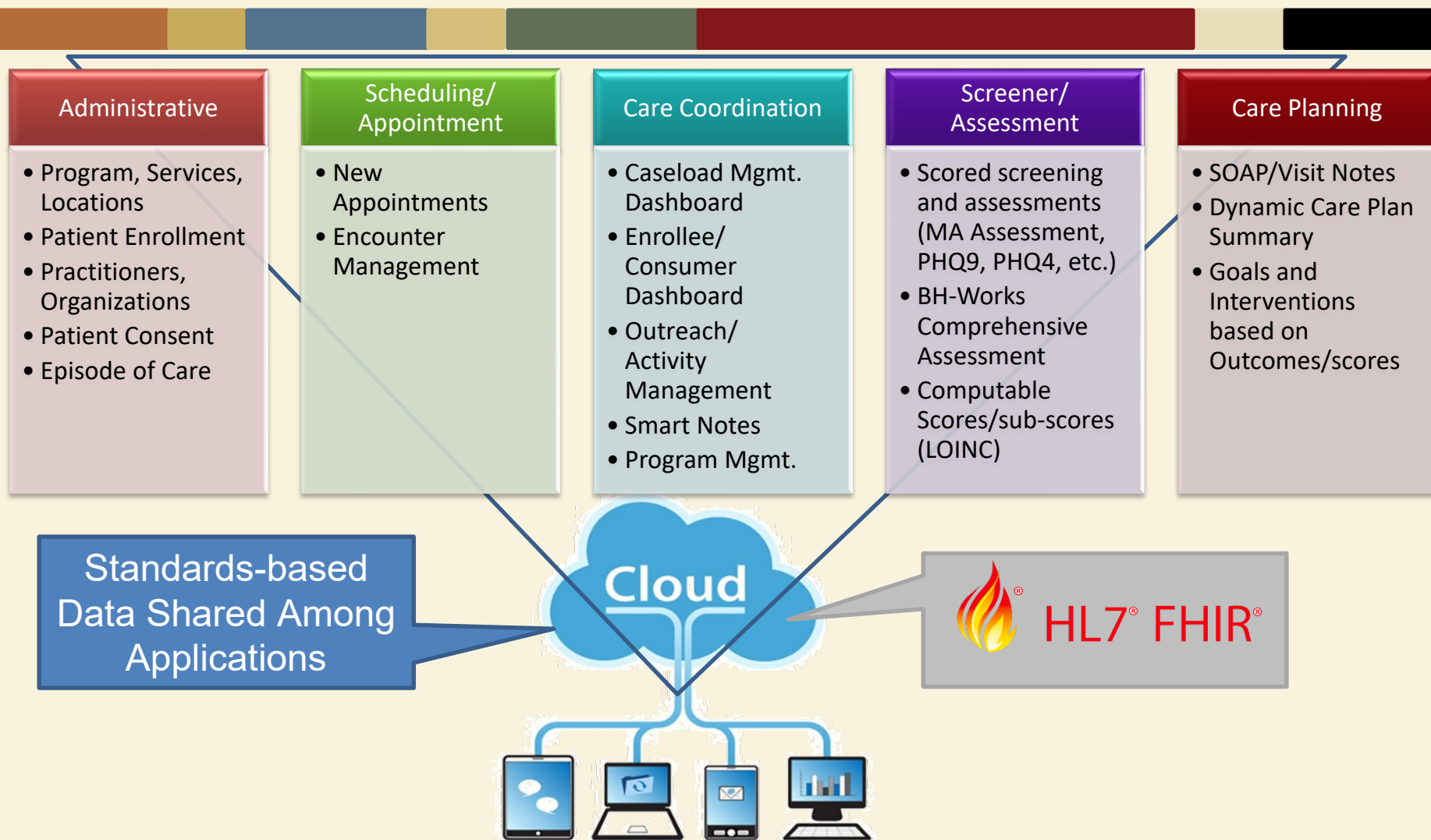
Patient-centered care revolves around effective and efficient care coordination across care providers, patient engagement, social connectedness, and facilitating the patients' treatment beyond episodic or chronic treatment.

Today, the healthcare environment is fragmented and ineffectual in providing 360⁰ whole-patient care with the mix of private and public insurers and self-pay with a large number of no pay patients.

SAMHSA is devoted to the care and treatment of behavioral health patients. New models of paying for care are being developed and initiated with the objective to reduce the cost of healthcare.



Omnibus Care Plan Functional Overview



Omnibus Care Plan Technical Architecture

Cloud-based, Secure, HIPAA Compliant, Scalable, Extensible web platform

- Browser-based, supports phone/mobile
- Low Information Technology (IT) overhead

Web-application

- HL7 Fast Healthcare Interoperability Resources (FHIR),
- Integration with Electronic Health Record (EHR), billing, quality systems

Standards-based Data Services

- HIPAA compliant cloud services
- Business Associate Agreement
- Centralized management, secure, scalable

Cloud-based & HIPAA Compliant

- Reuses existing software components
- Extensible to integrate other applications

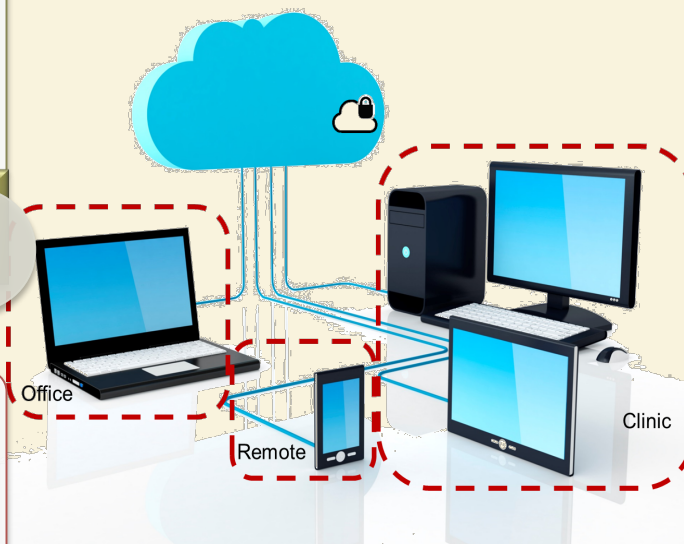
Reusability and Extensibility

- Encryption
- Identity & Access Mgmt.
- User roles (Permissions)
- Patient Consent

Security/Privacy

- Automatic increase in memory, storage to match user needs cloud services

Scalable



Omnibus Care Plan Collaborative Team

Public-Private Partnership

- Subject Matter Experts
- Software Vendors
- Provider Organizations
- State and Federal Stakeholders

SAMHSA

- BH IT Standards Contract
- Standards Engagement (HL7, Logical Observation Identifiers Names and Codes (LOINC), Systematized Nomenclature of Medicine-Clinical Terms (SNOMED-CT))
- SMEs Engagement (Psychiatrists, Psychologists, Case Managers, Social Workers)

FEI Systems

- Lead Integrator
- Consent2Share

Eversolve

- Standards Expertise

Medicomp Systems

- Quippe Clinical Documentation Suite

mdlogix

- BH-Works Comprehensive Assessment

MDIX

- Integration Tooling

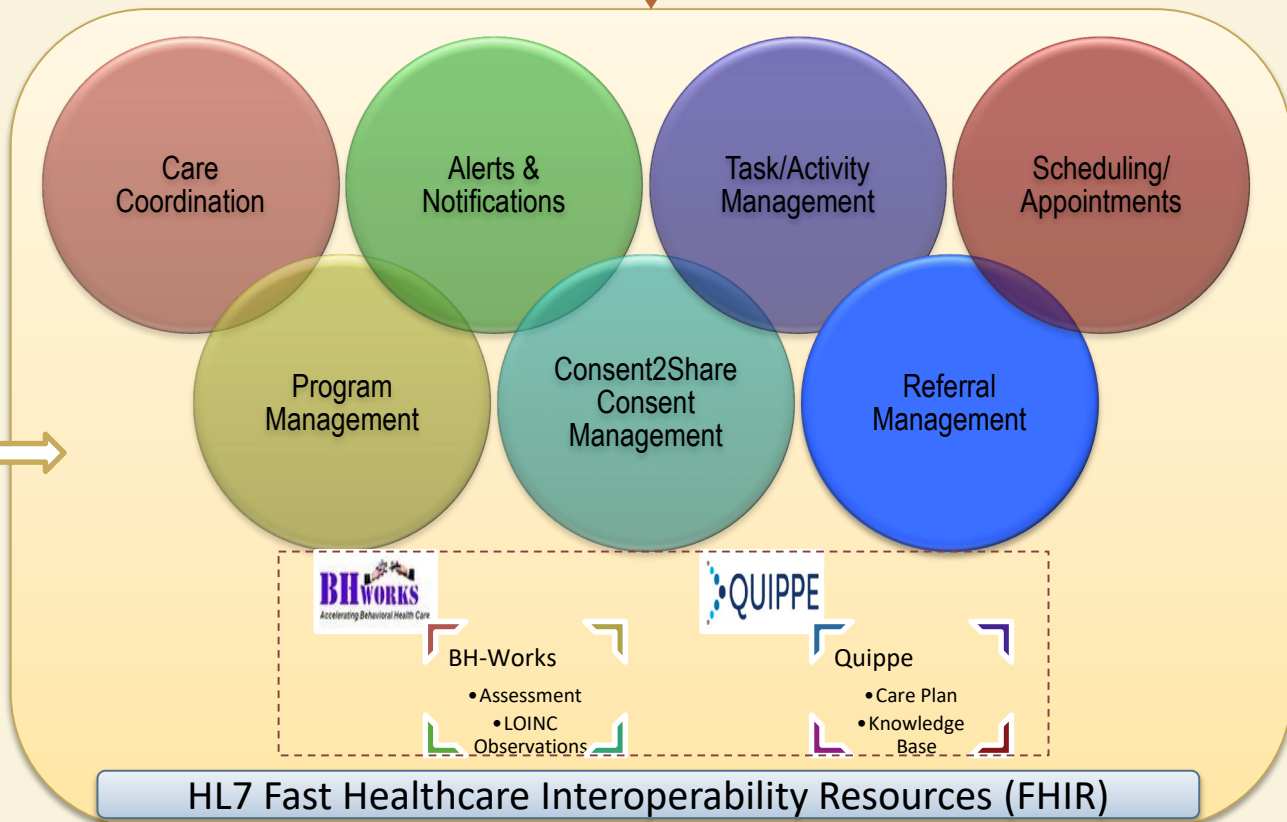
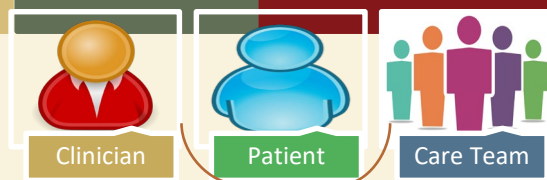
Omnibus Care Plan Solution Overview:

Key Application Components

Component	Benefit
Care Coordination Portal	Cloud-based, open-source, secure, scalable, standards-based, wraparound application
Medicomp Systems Quippe	Commercial, clinical user interface, fully-coded and mapped to national terminology standards <ul style="list-style-type: none">✓ Provides point of care access to, and organization of, patient data✓ Dynamic clinical documentation tools✓ Frost & Sullivan 2017 Best Practices Award; US Healthcare Documentation Enabling Technology Leadership Award winner
mdlogix BH-Works	Commercial, comprehensive, universal screener, may be used by consumers
Consent2Share	Open-source patient consent management

Omnibus Care Plan Solution Overview:

Solution Component Diagram



Functional Services

Clinical Decision Support (CDS)

Workflow Coordination

Analytics & Reporting

Infrastructure Services

Security

Semantic Interoperability Workbench (SIW)

EHR/HIE Integration

Omnibus Care Plan Roadmap: Data Standards, Interoperability, and Analytics

Data Standards

- Sharing data among applications in a seamless manner
- Monitor and report patient outcomes

Interoperability

- EHR systems
- Pre-authorization
- Billing system
- Electronic Visit Verification
- Quality reporting system
- Patient engagement through mobile devices
- Expanded provider access to telemedicine

Analytics

- Data warehouse and integration
- Business intelligence (BI) reporting and health analytics
- Quality outcome reporting
- Clinical decision support

- Health and Human Services (HHS) under Federal Government agencies are driving interoperability efforts and change in US Healthcare
 - ✓ Office of National Coordinator (ONC) is leading interoperability through standardization workgroups, collaboration with Standards Development Organizations (SDO) and certification programs of the healthcare systems
 - ✓ SAMHSA is leading interoperability specifically for the behavioral health domain by working with SDOs and other federal agencies

OCP Demonstration



Questions and Next Steps



Federal Partner Discussion

Key Asks:

Opportunities for Broader Federal Partner Engagement

- Are there other Federal Partner Projects focused on use of FHIR or C-CDA Resources to capture Care Plan information?
- Which Federal Partners are currently working with SDOs to include HL7, Integrating the Health Enterprise (IHE) International, International Health Terminology Standards Development Organization (IHTSDO) and Regenstrief Institute?
 - » Is there opportunity to collaborate amongst the Federal Partner Projects?

Next Steps for Federal Partner Engagement

- Participate in eLTSS Quarterly Meetings:
 - » Seeking other Federal Partner Project presentations
 - » Next one to be scheduled for **July 2018**
- Identify additional organizations that can contribute to testing and validating of eLTSS dataset

eLTSS Initiative Contacts

- **ONC Leadership**
 - » Stacy Perchem (Anastasia.Perchem@hhs.gov)
 - » Caroline Coy (caroline.coy@hhs.gov)
 - » Elizabeth Palena-Hall (elizabeth.palenahall@hhs.gov)
- **CMS Leadership**
 - » Kerry Lida (Kerry.Lida@cms.hhs.gov)
- **Federal Partner Leadership**
 - » Shawn Terrell (shawnterrell@acl.hhs.gov)
 - » Caroline Ryan (caroline.ryan@acl.hhs.gov)
 - » Marisa Scala-Foley (marisa.scala-foley@acl.hhs.gov)
- **Initiative Coordinator**
 - » Evelyn Gallego (evelyn.gallego@emiadvisors.net)

Back-Up

CMS 2014 Medicaid HCBS Rule

Defined by Medicaid under **§ 441.301(c)** as part of the scope of services and supports required under the State's 1915(c) Home and Community-Based Settings (HCBS) waiver to include:

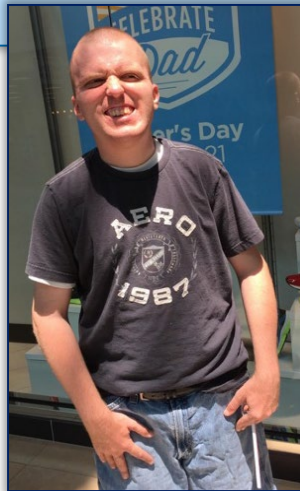
- The setting in which the individual resides is chosen by the individual
- Individual's strengths and preferences
- Clinical and support needs as identified through an assessment of functional need
- Individual's identified goals and designed outcomes
- Services and supports that will assist individual to achieve identified goals, and providers that will perform services
- Risk factors and measures in place to minimize them
- Individual and/or entity responsible for monitoring the plan
- Informed consent of the Individual
- Services the individual elects to self-direct

Key Inputs to Person-Centered Plan: Person-Centered Profile

WHAT IS IMPORTANT TO ROBERT

Having a straw to hold
Using my iPad apps
Out and about
Swimming
Music
Healthy food

Looking sharp
Drinking water
Eating out
Church
Family
Recreation, sports
Volunteer, Job



PEOPLE WHO HELP ROBERT BEST

Tell me when I do well
Cheerful and outgoing
Assist me to do things for myself
Help me do what I like to do
Use positive language (not "don't...")
Tell me the plan
Keep my house clean and neat
Communicate and keep my mom in the loop
Minimize waiting for things to happen
Know I may have a seizure
Identify fun activities
Professional
Stay with me
Think ahead
Safe driver
Engage me
Are on time

WHAT PEOPLE LIKE AND ADMIRE ABOUT ROBERT

Say what I want, decisive
Good memory
Like everyone
Handsome and polite
High energy, adventurous
Love my family
Deep thinker
Nice dresser
Mellow
Funny
Like to "chill"

SUPPORTS ROBERT NEEDS TO BE HAPPY, HEALTHY, AND SAFE

Medication on time
Careful in parking lots
Help in bathroom
Seat belt on
Wear ID bracelet
Use bathroom a lot
Call Mom if problem or question(s)
410.733.9539
Deep breaths if agitated
Safe seizures
Suntan lotion
Food cut up
Teeth clean
No balcony use
Nurse Lara: 443.677.7130