The Argonaut Project:
Accelerating the Next Generation of Interoperability

March, 2016
Agenda

Why do we need the Argonaut Project?

Who’s behind it and what do we want to do?

What have we done?

What’s next for the Argonaut Project?
What is the Argonaut Project?

The Argonaut Project is a market-initiated code and documentation sprint to accelerate the market readiness of open industry FHIR-based APIs for patient- and provider-driven interoperability use cases.

It is:
- leveraging the work of other initiatives such as the S&I framework, SMART, and HSPC
- accelerating the maturation of FHIR for the industry
- open to all participants

It is NOT:
- an organization or entity
- competitive with other existing initiatives
- proprietary
Who’s behind the Argonaut Project?

Founding organizations

- athenahealth
- Beth Israel Deaconess Medical Center
- Cerner
- Epic
- Intermountain Health
- Mayo Clinic
- McKesson
- MEDITECH
- Partners Healthcare System
- SMART at Boston Children’s Hospital Informatics Program
- Surescripts
- The Advisory Board Company
- Accenture

Staff

- Prime contractor – HL7
- FHIR API development: Grahame Grieve, Brett Marquard, Eric Haas
- OAuth security development: Dixie Baker, Josh Mandel
- Implementation and Testing Community: Josh Mandel, Micky Tripathi, Jennifer Monahan
- Micky Tripathi, Jennifer Monahan – Project management
# 81 Organizations Registered in Argonaut Implementation Community

| Organization                        | EHR Vendor                  | Other
<table>
<thead>
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<td>Optum (UnitedHealth Group)</td>
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<td>Orion Health</td>
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<td>Health Samurai/Aidbox</td>
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<td>i2b2/Mass General Hospital</td>
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<td>MedicaSoft</td>
<td>Surescripts</td>
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<td>Medicity</td>
<td>The Advisory Board Company</td>
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<td>Cerner</td>
<td>MEDITECH</td>
<td>The Sequoia Project (formerly Healtheway)</td>
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<td>CipherHealth</td>
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<td>MITRE</td>
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<td>Netsmart</td>
<td>xG Health Solutions</td>
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<tr>
<td>Epic</td>
<td>NextGen/QSI</td>
<td>Xperterra</td>
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Mix of EHR vendors, providers, app developers, government agencies, and others....
Why do we need the Argonaut Project?

JASON Task Force (2014) makes a call to action for “public APIs based on FHIR”

Meaningful Use Stage 2 experience with Direct standard highlights need to prevent inclusion of immature standards in ONC certification

Leadership initiative by providers and vendors to bring market discipline to standards development process

Industry initiative to swing the balance of responsibility for nationwide interoperability back to the private sector
What’s wrong with current standards?

Limited
- Document exchange (e.g., CCDA) is too broad, while existing data-level exchange (e.g., HL7 v2, NCPDP) is too narrow
- No nationwide standards to support query-based use cases

Complex
- CCDAs are inefficient and cumbersome
- IHE-based standards are complex

Myopic
- Not based on modern internet standards, protocols, or conventions
- Not scalable

Implication
- Standards and ecosystem don’t support a rich set of use cases
- Cost and complexity of standards are barrier to adoption
- Discourages innovators from outside health care
Why FHIR-based APIs?

Flexible to document-level and data-level exchange
- Sometimes individual data elements are important, sometimes entire documents are appropriate

Based on modern internet conventions
- RESTful API – same browser-based approach as used by Facebook, google, twitter, etc
- Infinitely extensible to detailed resources/profiles to meet any use case
- Supports push and pull use cases

FHIR isn’t the only way to approach APIs, but it’s the leading candidate
- Gaining rapid enthusiasm in the health information technology community
- Supported by an existing health care SDO (HL7)
Why do we need the Argonaut Project to accelerate FHIR?

Standards development process, by design, values comprehensiveness over speed-to-market

SDOs not resourced to provide dedicated project management and SME support to implementation-oriented activities

- Identification of priority use cases to meet market needs
- Development of well-packaged implementation guides
- Facilitation of testing and implementation community
- Coupling with other standards or protocols needed for implementation (e.g., security)
Argonaut Focusing on FHIR Resources Supporting CCDS

2015 Edition
Common Clinical Data Set

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93 FHIR DSTU2 Resources (17 Argonaut CCDS Resources in red)

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- Condition (Problem)
- Procedure
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- FamilyMemberHistory
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- Observation
- DiagnosticReport
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- Specimen
- BodySite
- ImagingStudy
- ImagingObjectSelection

Identification
- Patient
- Practitioner
- RelatedPerson
- Organization
- HealthcareService
- Group
- Location
- Substance
- Person
- Contract
- Device
- DeviceComponent
- DeviceMetric

Workflow
- Encounter
- EpisodeOfCare
- Communication
- Flag
- Appointment
- AppointmentResponse
- Schedule
- Slot
- Order
- OrderResponse
- CommunicationRequest
- DeviceUseRequest
- DeviceUseStatement
- ProcessRequest
- ProcessResponse
- SupplyRequest
- SupplyDelivery

Infrastructure
- Questionnaire
- QuestionnaireResponse
- Provenance
- AuditEvent
- Composition
- DocumentManifest
- DocumentReference
- List
- Media
- Binary
- Bundle
- Basic
- MessageHeader
- OperationOutcome
- Parameters
- Subscription

Conformance
- ValueSet
- ConceptMap
- NamingSystem
- StructureDefinition
- DataElement
- Conformance
- OperationDefinition
- SearchParameter
- ImplementationGuide
- TestScript
- Claim
- ClaimResponse
- PaymentNotice
- PaymentReconciliation
- ExplanationOfBenefit

Financial
- Coverage
- EligibilityRequest
- EligibilityResponse
- EnrollmentRequest
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### Argonaut Implementation Guides Based on DAF Profiles
From US Data Access Framework Implementation Guide

<table>
<thead>
<tr>
<th>Meaningful Use conceptual data element</th>
<th>DAF profile</th>
<th>FHIR Resource</th>
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<tr>
<td>Medication allergies</td>
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<td>Laboratory Order(s)</td>
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<td>Laboratory Result Value(s)</td>
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<td>Medications</td>
<td>DAF profiles for medications, DAF-Medication, DAF-MedicationStatement, DAF-MedicationAdministration, DAF-MedicationDispense, DAF-MedicationOrder</td>
<td>Medication, MedicationStatement, MedicationAdministration, MedicationDispense, MedicationOrder</td>
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<td>Patient name, Sex, Date of Birth, Race, Ethnicity, Preferred Language</td>
<td>DAF-Patient</td>
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<td>Smoking status</td>
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<td>Vital Signs (Height, weight, BP, BMI)</td>
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<td>MedicationAllergies list, Problem list, Medication List, Immunizations, Encounters, Laboratory Result Values, Procedure List</td>
<td>DAF List (DAF-AllergyList, DAF-ProblemList, DAF-MedicationList, DAF-ImmunizationList, DAF-EncounterList, DAF-ResultsList, DAF-ProcedureList)</td>
<td>List</td>
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<tr>
<td></td>
<td>DAF Supporting Profiles: DAF-Organization, DAF-Location, DAF-Practitioner, DAF-Substance, DAF-RelatedPerson, DAF-Specimen</td>
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</tbody>
</table>
What will the Argonaut Project produce?

**FHIR RESTful API Implementation Guides**
- Data element query of the Common MU Dataset
- Document (CCDA) query
- Provider directory query

**OAuth/OIDC Implementation Guides**
- Authorization of enterprise-approved applications
- Single sign-on to enterprise-approved applications

FHIR Implementation Guides map to FHIR DSTU 2
OAuth/OIDC Implementation Guides currently being developed outside of HL7 but will eventually be incorporated in HL7 balloting process
What will Argonaut Implementation Guides allow people to do?

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**Within enterprise:**
- Patient or Provider uses authorized hosted or mobile application to query for data or documents from a single enterprise EHR

**Cross enterprise:**
- Provider uses hosted or mobile application to query for data or documents from EHRs in other enterprises
What will Argonaut Implementation Guides allow people to do? (continued)

**Within enterprise**

- health care organization A
- authenticate user
- launch app
- mobile application
- access data & documents
- register app
- authorize app
- hosted application
- authorize app
- access data & documents

**Cross-enterprise**

- health care organization B
- authenticate user
- authorization server
- access data & documents
- FHIR resource server
- access data & documents
- register app
- authenticate app
- authorize app
- access data & documents
- authenticate enterprise
- authenticate federated user identity across enterprises
- authorize app for access scope
## Implementation Sprints Testing CCDS Elements

<table>
<thead>
<tr>
<th>Dates</th>
<th>Server Sprint</th>
<th>Client Sprint</th>
<th>Check-in Meetings (all times America/New_York)</th>
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<tbody>
<tr>
<td>Aug 6th - 21st</td>
<td>Sprint 1 <em>(Patient search &amp; read)</em></td>
<td>Sprint 1</td>
<td>Aug 21st 3-4:30 pm</td>
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<tr>
<td>Aug 24th - Sep 9th</td>
<td>Sprint 2 <em>(Authorization with OAuth 2)</em></td>
<td>Sprint 2</td>
<td>Sep 9th 4-5:30 pm</td>
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<tr>
<td>Sep 16th - Oct 23rd</td>
<td>Sprint 3 <em>(Search for document)</em></td>
<td>Sprint 2</td>
<td>Oct 23rd 3:30-5pm</td>
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<td>DSTU2 Cutover</td>
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<td>Nov 11th-Dec 2nd</td>
<td>Sprint 4 <em>(Medications, EHR launch with context)</em></td>
<td>Sprint 3</td>
<td>Nov 6th 3:30-5pm</td>
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<tr>
<td>Dec 2nd - Dec 22nd</td>
<td>Sprint 5 <em>(Problems, Allergies, App integration)</em></td>
<td>Sprint 4</td>
<td>Nov 30th 1:30-3pm</td>
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<tr>
<td>Dec 22nd - Feb 5th</td>
<td>Sprint 6 <em>(Quantitative labs, Refresh tokens)</em></td>
<td>Sprint 5</td>
<td>Feb 5th 12-1:00pm</td>
</tr>
<tr>
<td>Feb 5th - Feb 24th</td>
<td>Sprint 7 <em>(Vital signs, smoking status)</em></td>
<td>Sprint 6</td>
<td>Feb 24th 2-3:00pm</td>
</tr>
<tr>
<td>HIMSS Feb 29th - Mar 4th</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Feb 24th - Mar 18th</td>
<td>Sprint 8 <em>(Immunizations)</em></td>
<td>Sprint 7</td>
<td>Mar 18th 1-2:00pm</td>
</tr>
<tr>
<td>Mar 18th - April 1st</td>
<td>Sprint 9 <em>(UID)</em></td>
<td>Sprint 8</td>
<td>April 1st 3-4:00pm</td>
</tr>
</tbody>
</table>

[https://github.com/argonautproject/implementation-program/wiki](https://github.com/argonautproject/implementation-program/wiki)
Argonaut Project: What’s next?

Publication of Argonaut FHIR and OAuth2 Implementation Guides to support 2015 Edition Certification API requirement
  • Working with ONC to streamline certification process for those implementing Argonaut profiles

Publication of Argonaut FHIR Provider Directory Implementation Guide
  • Urgent need due to overwhelming market rejection of HPD

Continued cultivation and growth of Implementation Program
Links to Argonaut Deliverables

Argonaut FHIR API deliverables

Argonaut OAuth deliverables
- Application Authorization Profile available at http://docs.smarthealthit.org/authorization/
- DRAFT Risk Assessment Update
  - Updates Risk Assessment through Phase 2
  - Available for review on Argonaut Auth: SMART on FHIR Google Drive (https://drive.google.com/open?id=0B8NVHvNTY_HUWXp2NzRfX2tjbjA)

Argonaut Implementation Program
- https://github.com/argonautproject/implementation-program/wiki
All Providers and Vendors are Welcome to Join the Argonaut Project!

www.argonautproject.org

Project management:  Micky Tripathi (mtripathi@maehc.org), Jennifer Monahan (jmonahan@maehc.org)
FHIR Technical Expert:  Graham Grieve (grahame@healthintersections.com.au)
FHIR/OAuth Technical Expert:  Josh Mandel (jmandel@gmail.com)