



Healthcare Directory Technology Learning Community

TLC Meeting – October 14th, 2016

Daniel Chaput, ONC – Rim Cothren, A Cuning Plan - Bob Dieterle - EnableCare, LLC



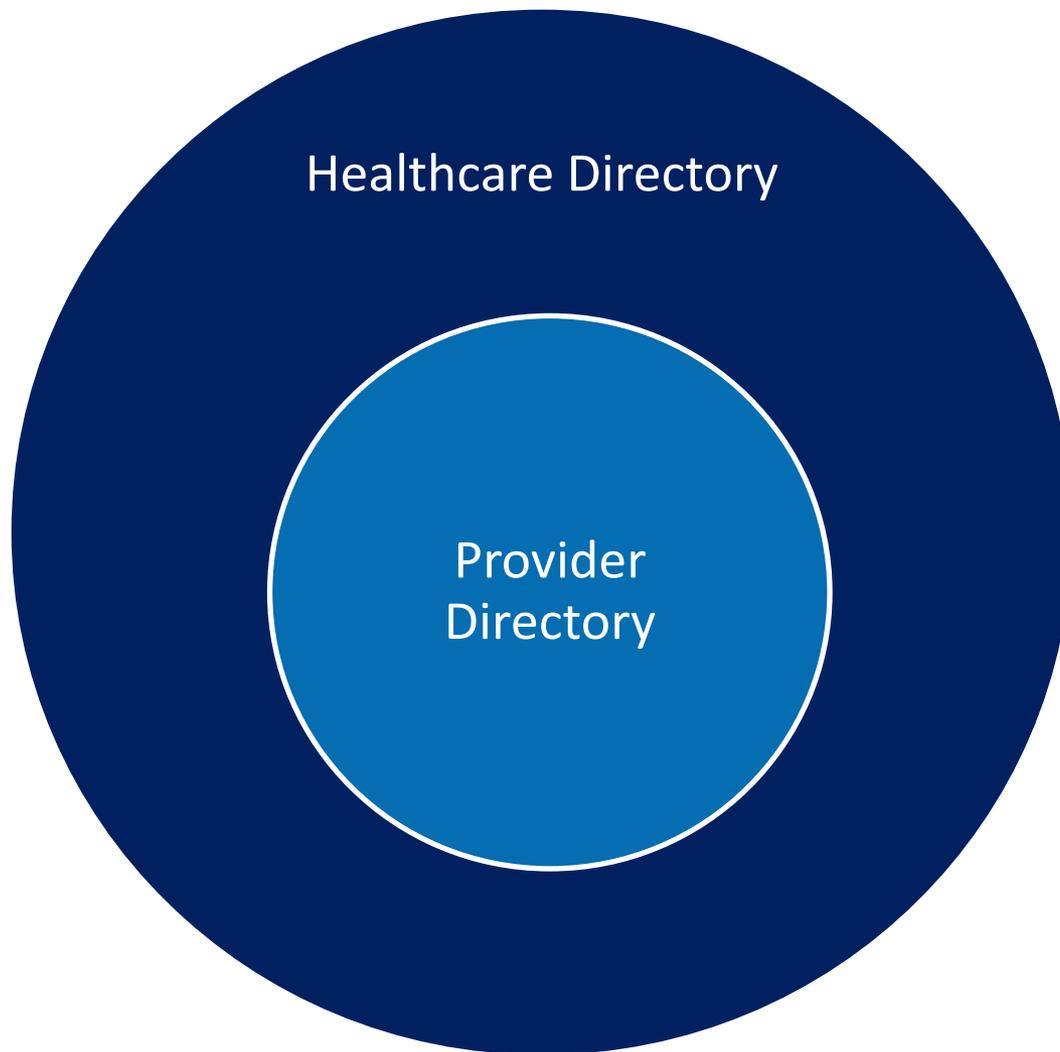
Introductions

- Daniel Chaput, Office of Standards and Technology, ONC
- Alex Kontur, Office of Programs and Engagement, ONC
- Rim Cothren, Contractor to ONC
- Bob Dieterle, Contractor to ONC and FHA

Brief background

- Continuation of the work from the workshop organized by FHA and ONC and held at MITRE Headquarters in McClain, VA on April 5th and 6th of 2016.
- An instance of a new “ONC Tech Lab” which will replace the S&I Framework
- Structure
 - » Monthly TLC meeting (on the second Friday of each month)
 - » A Basecamp site for collaboration and sharing
 - » Tiger Teams

Why Healthcare Directory and not Provider Directory?



Agenda

- Welcome and Housekeeping (Dan Chaput)
- Argonaut Provider Directory Update (Brett Marquard)
- Moderated discussion

Welcome and housekeeping

- Welcome and Housekeeping (Dan)
 - » Introduction of the HcDir TLC chair – Jeff Livesay, MiHIN
 - » Note - No November meeting – Federal Holiday, next meeting December 9th.
 - » Basecamp is available for dialogue. Please respond to the latest discussion about use cases if you have the chance:
<https://basecamp.com/2847230/projects/12617512/messages/62200812>

Argonaut Provider Directory Update

10/14/2016

Provider Directory Efforts

- MiHIN
- SureScripts
- DirectTrust
- [IHE HPD USA Specification](#)
- CAHIE
- David McCallie '[quick](#)' PD
- Others...many others...



Provider Directory Resource?

Healthcare Directory Resource?

Key FHIR Directory Resources

[Practitioner](#) - A person who is directly or indirectly involved in the provisioning of healthcare.

[Organization](#) - A formally or informally recognized grouping of people or organizations formed for the purpose of achieving some form of collective action.

[Location](#) - Details and position information for a physical place where services are provided and resources and participants may be stored, found, contained or accommodated.

[Endpoint](#) (NEW!) - The technical details of an endpoint that can be used for electronic services, such as for web services providing XDS.b or a REST endpoint for another FHIR server.

Argonaut Participant Scope Question

- a) Define a the minimum Provider Directory for basic provider lookup of a direct address (~6-8 elements)

- b) Define a guide for full lookup, including language, age, DEA number, after hours number, etc. (40-50 elements)

Argonaut Participant Scope Question

- a) **Define a the minimum Provider Directory for basic provider lookup of a direct address (~6-8 elements)**

- b) Define a guide for full lookup, including language, age, DEA number, after hours number, etc. (40-50 elements)

Previous S&I Defined Requirements

1. Retrieve a list of individual providers with specific individual attribute(s)
2. Retrieve information on a specific individual provider
3. Retrieve information on a specific organization
4. Retrieve the list of organizations for a specific individual provider
5. Retrieve the list of individuals for a specific organization
6. Retrieve a list of individuals and organizations with specific attributes

...Open questions on IHE wiki.

Argonaut Use Cases

1. Practitioner search by demographics

- Name
- Specialty

2. Practitioner search within a region (city, state)

- Practitioner or specialty within a specified distance - 10 miles from patient home
- Show me every one of this specialty in the city

3. Organization and facility search by attributes

- Name
- Address

4. Practitioner search by organizational relationships

- Practitioner in a specific health organization (e.g. Baptist Health Organization)
- Practitioner in a specific clinic (e.g. West Clinic)

4 Profiles

Practitioner

Organization

Location

Endpoint

Practitioner Requirements

Minimum Requirements

Clients

- A client has connected to a server and fetched a practitioner by identifier using GET [base]/Practitioner?identifier=[system]][code]
- A client has connected to a server and fetched a practitioner by name using GET [base]/Practitioner?family=[string]&given=[string]
- A client has connected to a server and fetched a practitioner by specialty using GET [base]/Practitioner?specialty=[system]][code]

Servers

- A server is capable of returning a practitioner by identifier using GET [base]/Practitioner?identifier=[system]][code]
- A server is capable of returning a practitioner by name using GET [base]/Practitioner?family=[string]&given=[string]
- A server is capable of returning a practitioner by specialty using GET [base]/Practitioner?specialty=[system]][code]
- A server has ensured that every API request includes a valid Authorization token, supplied via: Authorization: Bearer {server-specific-token-here}
- A server has rejected any unauthorized requests by returning an HTTP 401 Unauthorized response code.

By default, servers will only return active records.

Mandatory Data Elements

The following data-elements are mandatory (i.e data MUST be present). These are presented below in simple human-readable explanations along with sample data to demonstrate the requirements.

Each Practitioner must have:

1. A name
2. An identifier (NPI preferred). Anyone providing care may request an NPI.

Virtual Connectathon 8/12

12 organizations

5 hours

6 scenarios

- *Practitioner Search - Locate Direct address

- *Organization Search - Locate Endpoint....

Outcomes

- *EndPoint isn't supported in spec everywhere with
_include

- *Endpoint elements and value sets need additional
review

- *PractitionerRole vs Practitioner.role

Baltimore Connectathon 9/17

6 organizations

2 days

Tested and verified Argonaut profiles

Outcomes

- *After extensive discussions on Endpoint, drafted new definitions, value sets
- *Reviewed Endpoint during workgroup and updated FHIR build

Next Steps

- Finalize Endpoint design in STU3 – Deadline 12/2016
- Decision on PractitionerRole vs Practioner.role
- Publish Argonaut Provider Directory profiles

Hats off to Brian Postlethwaite – HL7 Volunteer of year!



Today's dialogue – Methods of Exchange

- Methods of exchange, what do people want/need/expect/require/envision, and why?
- For example:
 - » Batch updates?
 - » Some type of query?
 - What kind of query?
 - Human query/machine to machine, both?
 - A push model?
 - » A publish/subscribe model?



The Office of the National Coordinator for
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