



Canada Health Infoway

Pan-Canadian Service Directory Implementation Guide

August 22, 2024

Background

Agenda

Code of Conduct

- Members to share their opinions on the content presented
- Co-chairs to actively listen and consolidate the opinions and ideas shared during the WG sessions and shared through notes post meeting
- All ideas are welcome; however, priority will be given to content related to the current version of the guide
- Coming to a consensus that everyone “can live with”
 - If all avenues are exhausted through discussion and consensus has not been reached, an online poll (during the WG call and on forums) will be used to reach majority consensus

Service Directory – Summary

Definition

The service directory specification harmonizes how data regarding healthcare services and providers is structured and provides standardized interactions with that information (e.g., Querying service/provider information). This directory would also store relationships between the service, service providers and their roles, organizations, and associated locations, as well as details on how to contact them. This standardization will enable users (regardless of jurisdiction) to search for, locate, and communicate with healthcare providers, and help them search, plan, and choose the right health services for their patient(s) needs.

Out-of-Scope

The initial version of the implementation guide will not cover:

- A directory of instances and its subsequent such use,
- Federated services/functionality,
- Inclusion of actors outside the scope defined within this implementation guide. This is done to avoid complex processes that are outside of the current defined processes of a service directory.
- Security and access considerations

MustSupport Definition

The *supplier (sender)* of the service directory information

- **SHALL** populate any elements with the MustSupport flag set to true if the information is available and is appropriate to provide

The consumer (**receiver**) of the service directory information

- **SHALL** be capable of receiving any resource instances containing elements with the MustSupport flag set to true without generating an error or causing the application to fail.
- Elements without a MustSupport flag in a FHIR response **SHOULD** still be received without generating an error or causing the application to fail.

Use Cases

1. Search for Service

Service Consumer looks up specialist within the patient's city that speaks the same language

Query: Search for location that has a specific city and an associated specialist service and the specified language and return the location and associated practitioners that provide that service

Alternative: Health region queries all locations within the region to update its central repositories information

Query: Search for all locations within a specific organization that have been updated since the last update, and include in the results all practitioners associated with each location

2. Search for Service Provider

Patient asks their general practitioner additional information on their diagnosis which only the specialist they saw can provide additional information on

Query: Search for a practitioner based on their name and specific specialty and include locations and contact information in the response

Types of Actors – Roles and Definition (Pan-Canadian)

Actors	Description
Services Supplier	<p>Is an actor that accepts the query request and produces a list of matching resources that it sends as a response.</p> <p>Some examples of this actor are: Jurisdiction, Health Region, Hospital, Community Clinic</p>
Services Consumer	<p>Requests a list of resources from the SD Services Supplier based on the query parameters selected.</p> <p>Some examples of this actor are: Registered Care Providers (Physician, Nurse, etc.), Front Desk Staff, Health Region, Community Clinic, Patient*</p>

* Patient access to the service is not in scope for the first MVP release

Process for Creation and Review of Profiles

1. Profiles are created by Infoway and put on Github (auto-linkage with the Simplifier project - Public)
2. Profiles were published to simplifier on Wednesday, 10AM ET for WG review
3. WG members review the profiles together on Thursday, 1PM ET
4. Changes to the profiles and the pages are gathered and the updates made before the next session

Approach for Extensions & Valuesets

- Derived from the original IG
- The canonical URLs are updated to ensure that there aren't any dependencies on the IG that they are adopted from
 - These new extensions and valuesets are maintained by Infoway
- Valuesets to be hosted on terminology gateway by Infoway

CA:CSD Base Profiles

We are using the IHE mCSD version 3.8.0 as the basis for our profiles, and are deriving from them to ensure that we remain in line with it.

Should we identify something in the future that does not allow us to continue to derive from mCSD we can easily switch to using base FHIR r4.

Agenda:

<https://simplifier.net/ca-csd>

- Queries / Capability Statements
- CA:CSD iGuide: [Pan-Canadian Care Service Directory iGuide CI Build \(simplifier.net\)](#)

mCSD Query Parameters

The capability statements that are part of mCSD have the following SHALL query parameters. We have stated that if an element is a SHALL for a query it must be MS. The elements below are currently not MS.

How should we address these in the CA:CSD?

Practitioner

- identifier
active
- name.given
- name.family

HealthcareService

- active

Organization

- active
- partOf
- type

Endpoint

- identifier

Location

- partOf

OrganizationAffiliation

- endpoint

Note: CA:CSD MS definition applied to all elements -- Consensus in WG
- WG members to provide feedback in pre-ballot

Options

1. Update elements to be MS

- Pro: Maintain compliance with mCSD
- Con: More must support fields that may impact development and conformance efforts

2. Update the elements to have the obligations definition aligning with mCSD

- Pro: Maintain compliance with mCSD
- Con: Need to determine complete list of elements (slide 12) needed to be revisited in that coverage

3. Change our Capability Statements to SHALL for some elements

- Pro: Maintain alignment with CA MS definition
- Con: Cannot state we are compliant with mCSD

Recommendation: Option 2

CA:CSD iGuide

Simplifier Project iGuide Link:

<https://simplifier.net/guide/ca-csd>

The CA:CSD Jira project can be found at:

<https://informs.infoway-inforoute.ca/projects/CSD>

Next Week (August 29th)

- Continue discussion on queries and Capability Statements
- Review the CA:CSD iGuide on Simplifier



Canada Health Infoway

Thank you!

Contact Information

VISIT OUR WEBSITE
infoway-inforoute.ca

VISIT OUR SURVEY WEBSITE
insights.infoway-inforoute.ca/

LET'S CONNECT ON LINKEDIN
linkedin.com/company/canada-health-infoway/

LET'S CONNECT ON TWITTER
[@infoway](https://twitter.com/infoway)

Queries

Search Parameter	Example Query	Associated Elements	Comments
Search for List of all HealthcareServices	GET [base]/HealthcareService?	N/A	N/A
Search for Service Type	GET [base]/HealthcareService?service-type=http://terminology.hl7.org/CodeSystem/service-type 124	HealthcareService.type	Additional queries are needed to return practitioner, location or organization if they are needed
Get a list of HealthCareService resources that are type of "General Practice", and associated organizations and locations	GET [base]/HealthcareService?service_type=http://terminology.hl7.org/CodeSystem/service-type 124&_include=HealthcareService:organization&_include=HealthcareService:location	HealthcareService.type HealthcareService.organization HealthcareService.location	All associated Organizations and HealthCareServices will be included in the Bundle response
Search for nearby Hospital	GET [base]/Location?type=http://terminology.hl7.org/CodeSystem/v3-RoleCode HOSP&_pretty=true	Location.type Location.physicalType Location.position	N/A
Search for Organization	GET [base]/OrganizationAffiliation?primary-organization AND/OR GET [base]/OrganizationAffiliation?participating-organization	OrganizationAffiliation.organization OrganizationAffiliation.participating Organization	N/A
Search for Active Provider and their availability based on X service provided at Y organization	GET [base]PractitionerRole?_include=PractitionerRole:location&_include=PractitionerRole:organization&_include=PractitionerRole:service&_pretty=true	PractitionerRole.practitioner PractitionerRole.organization PractitionerRole.code PractitionerRole.location PractitionerRole.healthcareService	<ul style="list-style-type: none"> Filter results to exclude any active practitioners Filter based on service provided