



**Canada Health Infoway**

# **Pan-Canadian Service Directory Implementation Guide**

November 14, 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
<b>Services Supplier</b>	<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>
<b>Services Consumer</b>	<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

- Updates to mCSD v3.9.0 – Went through ballot and updates Oct 21-24 and updates are on the way
- Scoping for CA:CSD v1.1.0 preBallot
- Data Capture and maintenance

# Version 1.1 Features Planning

Proposed features that have been proposed to expand the functionalities offered by CA:CSD:

- Bulk export operations
- Previous requests have also included starting work on federated services, however that use case seems far advanced than the capabilities any jurisdictions and vendors provide.

# IGUIDE ADVANCED FUNCTIONALITY/CAPABILITY COMPARISON

\* FHIR®

Order	Category	Use Case	In the current Scope for CA:CSD	IHE CSD / *mCSD	IHE HPD	*US HSD	*US NDH	*ON eReC
1	3	Find provider/facility relationships	Y	Hybrid functionality	Hybrid functionality		Hybrid functionality	
2	1	Discover locations by criteria (postal code, city, accessibility, language)	Y	Location/Service based functionality	Location/Service based functionality	Location/Service based functionality	Location/Service based functionality	Location/Service based functionality
3	7	<b>Update provider information</b>	N	Provider/Organization based functionality	Provider/Organization based functionality			
4	1	Discover a specific social service by criteria (name, type, category, etc.)	Y	Location/Service based functionality	Location/Service based functionality	Provider/Organization based functionality	Location/Service based functionality	Location/Service based functionality
5	1	Discover practitioner location and office hours	?	Location/Service based functionality	Location/Service based functionality		Location/Service based functionality	
6	1	Discover organizations by criteria (name, type, postal code, city, tax id, etc.)	Y	Hybrid functionality		Provider/Organization based functionality		
7	1	Discover practitioner qualifications	?	Hybrid functionality	Provider/Organization based functionality			Provider/Organization based functionality
8	5	Provider/program availability (e.g., to support discovery and/or appointment use cases)	?	Hybrid functionality	Hybrid functionality			
9	7	<b>Add provider information</b>	N		Provider/Organization based functionality			
10	6	<b>Verification of credentials to support authorization</b>	N	Provider/Organization based functionality	Provider/Organization based functionality		Provider/Organization based functionality	
11	2	Retrieval of endpoint information to support sharing records	?	Provider/Organization based functionality	Provider/Organization based functionality		Provider/Organization based functionality	
12	8	<b>Bulk export of service directory</b>	N		Additive functionality		Additive functionality	Additive functionality
13	8	<b>National/jurisdictional federated discovery</b>	N		Additive functionality		Additive functionality	
14	8	<b>National directory of electronic service endpoints</b>	N		Additive functionality		Additive functionality	
15	6	<b>Certificate Retrieval</b>	N	Provider/Organization based functionality				
16	4	Create a resource list for a facility or event	?	Provider/Organization based functionality	Provider/Organization based functionality			
17	2	Return other ids for provider	?	Provider/Organization based functionality				
18	4	Generate list of facilities with sorting/filtering	Y	Provider/Organization based functionality				

# Data Capture and Maintenance

- Has anyone started to think about how the data is going to be captured and maintained?
  - How will products like eRec know a specialist's availability?

# Links from meeting chat

- <https://simplifier.net/guide/ca-on-phsd-r4-query-iguide/Table-of-Contents/ProfilesOperations-parent/Operation--Bulk-Export.page.md?version=current>
- <https://build.fhir.org/ig/HL7/bulk-data/export.html>
- <https://build.fhir.org/ig/HL7/fhir-us-ndh/verification-use-cases.html>



**Canada Health Infoway**

# Thank you!

## Contact Information

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