



**Canada Health Infoway**

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

July 11, 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

# Agenda

- First look at resources
  - HealthcareService (<https://simplifier.net/ca-csd/healthcareservice>)
  - Location (<https://simplifier.net/ca-csd/location>)
- eReferral
  - Will discuss the various ways that eReferral will use the CSD to ensure that we can include any cardinality, MS rules etc in the profiles.
- Simplifier Project page: <https://simplifier.net/ca-csd>

# Initial Resources

Priority	Resource	Represents
1	HealthcareService	Service offered
2	Location	Location of service. Generally associated with an address/geo location
3	EndPoint	How to connect to the associated resource within the Service
4	PractitionerRole	Relationship between person and location or organization. Includes the role played when representing that location/organization
5	Practitioner	Person providing the service
6	Organization	Department, health region, jurisdiction etc.
7	OrganizationAffiliation	How two organizations relate to each other or to a location

# 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

# HealthcareService – Updates

Element	Update Description	Reason
HealthcareService.identifier	<ul style="list-style-type: none"> <li>Inclusion of mustSupport element</li> <li>Added Obligation tag to indicate that it <b>SHOULD:populate</b></li> </ul>	<ul style="list-style-type: none"> <li>Included MS as seen in Canadian Baseline</li> <li>Requirement also comes from ON eRef capability statement</li> </ul>
HealthcareService.providedBy	<ul style="list-style-type: none"> <li>Inclusion of mustSupport element</li> <li>Reference to the Organization profile in CA:CSD</li> </ul>	<ul style="list-style-type: none"> <li>mCSD references their own organization profile created for the project</li> </ul>
HealthcareService.type	<ul style="list-style-type: none"> <li>Inclusion of mustSupport element</li> <li>Minimum cardinality of 1</li> </ul>	<ul style="list-style-type: none"> <li>mCSD set cardinality to a minimum of 1</li> <li>All minimum cardinalities of 1 have an added MS to it</li> </ul>
HealthcareService.location	<ul style="list-style-type: none"> <li>Inclusion of mustSupport element</li> <li>Reference to the location profile in CA:CSD</li> </ul>	<ul style="list-style-type: none"> <li>mCSD references their own location profile created for the project</li> </ul>
HealthcareService.name	<ul style="list-style-type: none"> <li>Inclusion of mustSupport element</li> <li>Minimum cardinality of 1</li> </ul>	<ul style="list-style-type: none"> <li>mCSD set cardinality to a minimum of 1</li> <li>All minimum cardinalities of 1 have an added MS to it</li> </ul>

# HealthcareService – Extensions

Extension	IG Source Derieved from	Rationale
HealthcareService.extension:DeliveryMethod	Ontario eRef-eCon iGuide: <a href="#">Ontario eServices   HealthcareService - SIMPLIFIER.NET</a>	<ul style="list-style-type: none"><li>• Proposed to be relevant to the Service Directory HealthcareService profile</li><li>• Allows for practitioners and organizations to list multiple delivery methods of healthcareService</li></ul>
HealthcareService.extension:UsageLicense	Ontario eRef-eCon iGuide: <a href="#">Ontario eServices   HealthcareService - SIMPLIFIER.NET</a>	<ul style="list-style-type: none"><li>• Further discussion on use needed</li></ul>

# Location – Updates

Element	Update Description	Reason
Location.identifier	<ul style="list-style-type: none"> <li>Inclusion of mustSupport element</li> </ul>	<ul style="list-style-type: none"> <li>Included MS as seen in Canadian Baseline</li> </ul>
Location.status	<ul style="list-style-type: none"> <li>Inclusion of mustSupport element</li> <li>Minimum cardinality of 1</li> </ul>	<ul style="list-style-type: none"> <li>mCSD references their own organization profile created for the project</li> </ul>
Location.name	<ul style="list-style-type: none"> <li>Inclusion of mustSupport element</li> <li>Minimum cardinality of 1</li> </ul>	<ul style="list-style-type: none"> <li>mCSD set cardinality to a minimum of 1</li> <li>All minimum cardinalities of 1 have an added MS to it</li> <li>Included MS as seen in Canadian Baseline</li> </ul>
Location.type	<ul style="list-style-type: none"> <li>Inclusion of mustSupport element</li> <li>Minimum cardinality of 1, maximum cardinality of “*”</li> </ul>	<ul style="list-style-type: none"> <li>mCSD set cardinality to a minimum of 1</li> <li>All minimum cardinalities of 1 have an added MS to it</li> </ul>
Location.telecom	<ul style="list-style-type: none"> <li>Inclusion of mustSupport element</li> </ul>	<ul style="list-style-type: none"> <li>Included MS as seen in Canadian Baseline</li> </ul>
Location.physicalType	<ul style="list-style-type: none"> <li>Inclusion of mustSupport element</li> <li>Minimum cardinality of 1</li> </ul>	<ul style="list-style-type: none"> <li>mCSD set cardinality to a minimum of 1</li> <li>All minimum cardinalities of 1 have an added MS to it</li> </ul>
Location.partOf	<ul style="list-style-type: none"> <li>Inclusion of mustSupport element</li> <li>Reference to the Location profile in CA:CSD</li> </ul>	<ul style="list-style-type: none"> <li>mCSD references their own Location profile created for the project</li> </ul>

# Location - Extensions

None

# Next Week (July 18<sup>th</sup>)

- Feedback review and updates for the following profiles:
  - HealthcareService
  - Location
- Next set of profiles to be created
  - Practitioner
  - PractitionerRole
  - Endpoint



**Canada Health Infoway**

# Thank you!

## Contact Information

**VISIT OUR WEBSITE**  
[infoway-inforoute.ca](http://infoway-inforoute.ca)

**VISIT OUR SURVEY WEBSITE**  
[insights.infoway-inforoute.ca/](http://insights.infoway-inforoute.ca/)

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