Query Concept Map Workflow

Overview

Description: This transaction allows a PoS, or any OHIE component, to access terminological information in the terminology service to query for Concept Maps. A typical example would be to request the set of Concept Maps whose target Code System is SNOMED CT. Mapping is frequently required when patient data is collected using Concepts/Codes from one Code System but the data must be reported or aggregated, say for decision support, in a different Code System. The set of such associated Concepts, usually for a specific use-case, are stored in the Terminology Service in a FHIR Resource called a ConceptMap.

Both external systems and systems inside the HIE may perform this transaction directly with the TS. The sequence diagram below shows the steps that occur for a system using this transaction.

1. Query Concept Maps: What Concept Maps have a map target of "SNOMED CT"?

Sponsor: Jack Bowie

Status: This operation has been extensively tested in FHIR Connectathons.

Referenced Standards and APIs

- The FHIR Concept Maps and supported search parameters are defined in: https://www.hl7.org/fhir/conceptmap.html. Searching in FHIR is described in https://www.hl7.org/fhir/search.html. HL7 FHIR Specifications v3.0 or higher support Concept Maps although Concept Map specifications are not yet normative. The response is a Bundle of Concept Map Resources satisfying the search parameters.
- This workflow implements the IHE IT Infrastructure Technical Framework Supplement - Sharing Valuesets, Codes, and Maps (SVCM) Transaction: Query Concept Map ITI-Y6.
- To translate (retrieve the mapping for) a code, see the Translate Code workflow.

Assumptions and Prerequisites

- The required Code Systems and Concept Maps have been preloaded into the Terminology Service.

Actors

- PoS - The point-of-service system or other HIE component that is querying for Concept Maps.
- TS - Stores the curated official version of the Concept Maps for the health system.

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Query Concept Map

![Sequence Diagram](https://www.websequencediagrams.com)
## Technical details

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<th>Interaction</th>
<th>Endpoint</th>
<th>Data</th>
<th>Transaction Specification</th>
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<tr>
<td>1</td>
<td>Query Concept Map request</td>
<td>TS</td>
<td>The Concept Map search request is triggered by a PoS or other HIE component. Input: A set of FHIR search parameters.</td>
<td>FHIR ConceptMap Resource</td>
</tr>
<tr>
<td>2</td>
<td>Query Concept Map response</td>
<td>PoS</td>
<td>The response is sent back to the requesting system. Output: a Bundle of Concept Map Resources that satisfy the search parameters.</td>
<td>FHIR ConceptMap Resource</td>
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