Conceptmap Fhir Resource Proposal
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ConceptMap

Owning committee name

FHIR Project Team

Contributing or Reviewing Work Groups

- Vocabulary
- MnM

FHIR Resource Development Project Insight ID

Whichever one FHIR works under

Scope of coverage

This resource expresses a mapping from one set of concepts to another. One key case is where the concepts are represented in a value set. Each mapping has the following qualities:

- a unidirectional mapping
- from a concept in one system to a concept in another
- the mapping is only claimed to be valid in the context of the source and target value set (if supplied)
- value sets: supports mapping between any code system as defined by the value set resource (and by extension, the core principles)
- This will be used to capture and share mappings between code systems, and between element definitions in models
- scope of this resource is not constrained by subject, discipline, environment, or locale

RIM scope

Out of scope for the RIM - this is in the MIF space.

Resource appropriateness

This resource:

- Represents a well understood, "important" concept in the business of healthcare: mapping between code systems or models
- Represents a concept expected to be tracked with distinct, reliable, unique ids: maps are important and expensive assets to be tracked and shared
- Reasonable for the resource to be independently created, queried and maintained: yes - maps get created and curated
- Declared interest in need for standardization of data exchange: yes - there is need both exchange maps and also to use maps in service of exchange
- Resource is expected to contain an appropriate number of "core" (non-extension): current design has 19 elements
- Have the characteristics of high cohesion & low coupling: this is a focused infrastructure resource with a clearly defined boundary

Expected implementations

- this is already implemented by the tools to express FHIR mappings to v2 and v3, and will be used by the run-time tool to assist with validation and operational mappings
- this will be used underneath implementations of the questionnaire resource to capture mappings of data elements and their contents between systems
- this would be taken up by any FHIR based implementation of vocabulary related services
- profile editors will need to express code mappings on a regular basis

see [http://hl7.org/implement/standards/fhir/conceptmap.htm](http://hl7.org/implement/standards/fhir/conceptmap.htm)

Content sources

- Internal tooling requirements
- MIF
- CTS 2
- Core Principles
- IHTSDO Mapping format
- ISO/AWI TR 12300
- ISO 11179
Example Scenarios

- mappings from FHIR to v2 and v3
- mappings from a local code set to a LOINC code set

Resource Relationships

- this resource references ValueSet.
- No direct plans for other resources to reference it yet, but it may impact in future planning for the Profile resource

Timelines

- This resource already exists in an operational non-reviewed form
- in its existing form, it wasn't proposed for the DSTU, and therefore would be post DSTU
- However the tools need it to exist to meet DSTU comments around code mappings needing to be provided
- was published as informative with the DSTU (with disclaimer explaining the status), should now become a full resource

gForge Users

Grahame