Verify Code Existence

Notice
The official version of the OHIE workflows can be found in the OpenHIE Architecture Specification.

Overview

Description: This transaction allows a PoS, or any OHIE component, to access terminological information in the terminology service to verify that a code exists in a Code System. A typical example would be to validate that the codes contained in an incoming patient data message are, in fact, from a required code system, e.g. ICD-10 or LOINC.

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.


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

Referenced Standards and APIs

- The FHIR CodeSystem validate-code operation: [http://build.fhir.org/codesystem-operation-validate-code.html](http://build.fhir.org/codesystem-operation-validate-code.html). HL7 FHIR Specifications v3.0 or higher support validate-code. The response is a Boolean (true or false) based on whether the code exists in the specified CodeSystem.
- Once the code has been validated, additional code information, e.g. attributes, properties, etc., may be accessed via the lookup operation: [http://build.fhir.org/codesystem-operation-lookup.html](http://build.fhir.org/codesystem-operation-lookup.html)
- To verify code membership (existence) in a Value Set, see the Verify Code Membership workflow.

Assumptions and Prerequisites

- The required CodeSystems have been preloaded into the Terminology Service.

Actors

- PoS - The point-of-service system or other HIE component that is requesting to verify a code.
- TS - Stores the curated official version of the terminology and codes for the health system.
## Technical details

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<th>Ref</th>
<th>Interaction</th>
<th>Endpoint</th>
<th>Data</th>
<th>Transaction Specification</th>
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<tbody>
<tr>
<td>1</td>
<td>Code verification request</td>
<td>TS</td>
<td>The validate-code request is triggered by a PoS or other HIE component. &lt;br&gt;Input: A Concept Code and target Code System.</td>
<td>FHIR CodeSystem Resource, $validate-code operation</td>
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<tr>
<td>2</td>
<td>Code verification response</td>
<td>PoS</td>
<td>The response is sent back to the requesting system. Output: a True or False response.</td>
<td>FHIR CodeSystem Resource, $validate-code operation</td>
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