

Format of the ClinicalDocument.code

Single Concept

If a single concept is used, the XML element **code** will be populated as below:

```
<code code="ConceptId" codeSystem="2.16.840.1.113883.2.1.3.2.4.15"
  displayName="ConceptId preferred term">
```

For example, to represent an Ambulance Service Patient Summary Report, XML element **code** will be populated:

```
<code code="312711000000101" codeSystem="2.16.840.1.113883.2.1.3.2.4.15"
  displayName="Ambulance Service Patient Summary Report">
```

Compositional Grammar Statement

If a compositional grammar statement is used, the XML element **code** will be populated as below:

```
<code code="CompositionalGrammarStatement"
  codeSystem="2.16.840.1.113883.2.1.3.2.4.15.1" displayName="Concatenation of
  displayNames">
```

The CompositionalGrammarStatement will use 3 fixed concept ids as follows:

810301000000103 | Clinical document descriptor (record artefact) [the ‘dummy object concept’].

This will be used to begin any compositional grammar statement in a XML **code** element.

810311000000101 | Type of clinical document (attribute) [will carry the ‘document type’ value]

810321000000107 | Care setting of clinical document (attribute) [will carry the ‘care setting’ value]

The CompositionalGrammarStatement will be in the following format (including the fixed concept ids), shown in bold below and conforming with the IHTSDO specification “Compositional Grammar for SNOMED CT Expressions in HL7 Version 3”

(http://www.ihtsdo.org/fileadmin/user_upload/Docs_01/About_IHTSDO/Publications/CompositionalGrammar_20081223.pdf):

The compositional grammar MUST begin “**810301000000103**”;

This followed by either Document Type or Care Setting (although BOTH MUST be present, these attributes can appear in any order).

For consistency, it is recommended that the order Document Type followed by Care Setting is used.

Document Type “**810311000000101**”=*Correspondence Document Type Subset Member*

The attribute separator comma “,”

Care Setting “**810321000000107**”=*Correspondence CareSetting Subset Member*

For example, a Discharge summary report (25581000000101) from a Gynaecology service (310061009) would be represented in the XML element **code** as:

```
<code
code="810301000000103:810311000000101=25581000000101,810321000000107=310061009">
```

Notes:

- There MUST NOT be any white spaces included in the “on the wire” (i.e. transmitted) compositional grammar statement.

Populating the displayName attribute

If the ClinicalDocument.code@code attribute is a single SNOMED concept id, then the displayName SHALL contain the preferred term of the used concept id.

If the ClinicalDocument.code@code attribute is a compositional expression serialised using the SNOMED compositional grammar, then the displayName SHALL restate the Concept identifiers within the compositional grammar, together with each concept’s preferred term. For simplicity, the displayName SHOULD keep the concepts in the same order as they appear in the code. The preferred terms are carried using the optional ‘term’ convention – each prefixed and suffixed by a pipe (“|”) – as documented in “Compositional Grammar for SNOMED CT Expressions in HL7 Version 3 “ .

Example:

```
<code code="810301000000103:810311000000101=373942005,810321000000107=394586005">
```

would therefore have a corresponding displayName of

```
<code displayName="810301000000103|Clinical document descriptor|:810311000000101|Type of clinical
document|=373942005|Discharge summary|,810321000000107|Care setting of clinical
document|=394586005|Gynaecology|">
```

Putting whole example above together would give a compositional grammar statement for a ClinicalDocument.code of

```
<code code="810301000000103:810311000000101=373942005,810321000000107=394586005"
codeSystem="2.16.840.1.113883.2.1.3.2.4.15.1" displayName="810301000000103|Clinical document
descriptor|:810311000000101|Type of clinical document|=373942005|Discharge
summary|,810321000000107|Care setting of clinical document|=394586005|Gynaecology|">
```

Whilst the restatement of Concept Identifiers would appear to extend the intended use of the displayName attribute, it is specified here in order to preserve a tight coupling between each Concept identifier and its corresponding preferred term.