

Show the ADL, XML and HL7 for LOINC panel archetype

Overview

Show the underlying archetype representation in ADL and XML, and also the rendition into HL7 v.2.

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Example : Geriatric Depression Scale LOINC panel

All the tagged archetype state and functionality is stored in the archetype/template's underlying XML format. It can also be exported to Archetype Definition Language (ADL) v. 1.2. Further, populated instances (archetypes templates that have data in them) are saved to HL7 v.2 messages in the production version of the Template Editor.

To consider an example, the Template Editor saves the Geriatric Depression Scale LOINC panel to the following XML:

(This example has GELLO removed to simplify things a little)

```
<?xml version="1.0"?> <moa:moArchetypes xmlns:moa="http://schemas.medical-objects.com.au/archetypes" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"><archetype
  useage="openEHR" published="true">
  <concept><identifier>EN13606_LOINC_GeriatricDepressionScale(GDS)
  ShortVersionPanel.v1.xml</identifier><text /><nameOfCodingSystem
  /></concept>
  <uses />
  <description><author/><submission><organisation><namespaceID>Medical-
  Objects</namespaceID><universalID /><universalIDType></organisation>
  <date>2009-05-17T09:44:09.187Z</date></submission><version>1<
  /version><status>Draft</status><revision >1</revision>
  <diagnosticServiceSection /><labNumberSuffix/><confidentialityCode>U<
  /confidentialityCode><description lang="EN"><purpose /><use>For LOINC
  package panel and answers project</use>
  <misuse /></description>
  <rights /><xslVersion>0.9</xslVersion><keyWords>"GDS Survey", "Geriatric
  Depression Scale (GDS)", "GDS", "Geriatric Depression Scale"</keyWords>
  <universalServiceID identifier="48543-3" text="GDS.short Panel"
  nameOfCodingSystem="LOINC" alternateIdentifier="" alternateText=""
  nameOfAlternateCodingSystem=""
  /></description>
  <definition><DataGroup visibleAtStart="true" minOccurs="0" maxOccurs="1"
  levelOfDetail="0" openEHR="ENTRY" id="at0000" cardinalityLow="0"
  cardinalityHigh="20" visibility="visible"
  choice="false" unique="true" ordered="false" startCollapsed="false"
  structural="false" bubbleEventsUp="false"><DataElement visibleAtStart="
  true" minOccurs="0" maxOccurs="1"
  levelOfDetail="0" openEHR="" id="at0002" elementType="mtReferenceSection"
  assumedValue="" hasReferenceRange="false" hasDate="False"
  referenceRange="">
  <referenceSection displayStyle="dsRadioHorizontal" allowTextValue="false"
  ><HL7Datatypes>CE</HL7Datatypes><choices><item>at0018</item><item>at0019<
  /item></choices>
  <defaultIndex>0</defaultIndex></referenceSection><
  /DataElement><DataElement visibleAtStart="true" minOccurs="0" maxOccurs="1"
  levelOfDetail="0" openEHR="" id="at0003"
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  false" hasDate="False" referenceRange=""><referenceSection displayStyle="
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  allowTextValue="false"><HL7Datatypes>CE<
  /HL7Datatypes><choices><item>at0020</item><item>at0021</item><
  /choices><defaultIndex>0</defaultIndex></referenceSection></DataElement>
  <DataElement visibleAtStart="true" minOccurs="0" maxOccurs="1"
  levelOfDetail="0" openEHR="" id="at0004" elementType="mtReferenceSection"
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  hasDate="False" referenceRange=""><referenceSection displayStyle="
  dsRadioHorizontal"
  allowTextValue="false"><HL7Datatypes>CE<
  /HL7Datatypes><choices><item>at0022</item>
  <item>at0023</item></choices><defaultIndex>0</defaultIndex><
```

```

/referenceSection></DataElement><DataElement visibleAtStart="true"
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hasReferenceRange="false" hasDate="False" referenceRange=""
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/HL7Datatypes><choices><item>at0024</item><item>at0025</item><
/choices><defaultIndex>0</defaultIndex>
</referenceSection></DataElement><DataElement visibleAtStart="true"
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/HL7Datatypes><choices><defaultIndex>0</defaultIndex></referenceSection><
/DataElement><DataElement
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referenceRange=""><referenceSection displayStyle="dsRadioHorizontal"
allowTextValue="false"><HL7Datatypes>CE<
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</choices>
<defaultIndex>0</defaultIndex></referenceSection><
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false" hasDate="False" referenceRange=""><referenceSection displayStyle="
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allowTextValue="false"><HL7Datatypes>CE<
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/choices><defaultIndex>0</defaultIndex></referenceSection></DataElement>
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/choices><defaultIndex>0</defaultIndex>
</referenceSection></DataElement><DataElement visibleAtStart="true"
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assumedValue="" hasReferenceRange="false" hasDate="False"
referenceRange=""><referenceSection displayStyle="dsRadioHorizontal"
allowTextValue="false">
<HL7Datatypes>CE</HL7Datatypes>
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/defaultIndex></referenceSection></DataElement><DataElement
visibleAtStart="true" minOccur="0"
maxOccur="1"
levelOfDetail="0" openEHR="" id="at0012" elementType="mtReferenceSection"
assumedValue="" hasReferenceRange="false" hasDate="False"
referenceRange=""><referenceSection
displayStyle="dsRadioHorizontal" allowTextValue="false"><HL7Datatypes>CE<
/HL7Datatypes><choices><item>at0038</item><item>at0039</item><
/choices><defaultIndex>0</defaultIndex>
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elementType="mtReferenceSection"
assumedValue="" hasReferenceRange="false" hasDate="False"
referenceRange=""><referenceSection displayStyle="dsRadioHorizontal"

```

```

allowTextValue="false">
<HL7Datatypes>CE</HL7Datatypes>
<choices><item>at0040</item><item>at0041</item></choices><defaultIndex>0<
/defaultIndex></referenceSection></DataElement><DataElement
visibleAtStart="true" minOccur="0"
maxOccur="1"
levelOfDetail="0" openEHR="" id="at0014" elementType="mtReferenceSection"
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referenceRange=""><referenceSection
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referenceRange=""><referenceSection displayStyle="dsRadioHorizontal"
allowTextValue="false">
<HL7Datatypes>CE</HL7Datatypes><choices><item>at0044</item><item>at0045<
/item></choices><defaultIndex>0</defaultIndex></referenceSection><
/DataElement><DataElement
visibleAtStart="true" minOccur="0" maxOccur="1" levelOfDetail="0"
openEHR="" id="at0016" elementType="mtReferenceSection" assumedValue=""
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referenceRange=""><referenceSection displayStyle="dsRadioHorizontal"
allowTextValue="false"><HL7Datatypes>CE<
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<defaultIndex>0</defaultIndex></referenceSection><
/DataElement><DataElement visibleAtStart="false" minOccur="0" maxOccur="
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elementType="mtIntegerList" assumedValue="" hasReferenceRange="false"
hasDate="False" referenceRange=""><integerList><HL7Datatypes>INT<
/HL7Datatypes><values /></integerList>
</DataElement></DataGroup></definition><ontology defaultOntology="SNOMED-
CT"><termDefinitions><termDefinition language="en"><item localCode="at0000"
><text>GDS.short Panel</text>
<description>GDS.short Panel</description><provenance /><qualityControl />
</item><item localCode="at0002"><text>Are you basically satisfied with
your life</text><description>Are
you basically satisfied with your life</description><provenance
/><qualityControl /></item><item localCode="at0003"><text>Have you dropped
many of your activities</text>
<description>Have you dropped many of your activities<
/description><provenance /><qualityControl /></item><item localCode="
at0004"><text>Do you feel that your life is empty</text>
<description>Do you feel that your life is empty</description><provenance
/><qualityControl /></item><item localCode="at0005"><text>Do you often
get bored</text><description>Do
you often get bored</description><provenance /><qualityControl />
</item><item localCode="at0006"><text>Are you in good spirits most of the
time</text><description>Are you in good
spirits most of the time</description><provenance /><qualityControl />
</item><item localCode="at0007"><text>Are you afraid that something bad is
going to happen to you</text>
<description>Are you afraid that something bad is going to happen to you<
/description><provenance /><qualityControl /></item><item localCode="
at0008"><text>Do you feel happy most
of the time</text><description>Do you feel happy most of the time<
/description><provenance /><qualityControl /></item><item localCode="
at0009"><text>Do you often feel
helpless</text> <description>Do you often feel helpless<
/description><provenance/><qualityControl /></item><item localCode="at0010"
><text>Do you prefer to stay at home, rather
than going out and doing new things</text><description>Do you prefer to
stay at home, rather than going out and doing new things<
/description><provenance /><qualityControl
/></item><item
localCode="at0011"><text>Do you feel you have more problems with memory
than most</text><description>Do you feel you have more problems with
memory than most</description>

```

[illegible]

```

/description><provenance /><qualityControl
/></item><item localCode="at0044"><text>No</text><description>No<
/description><provenance /><qualityControl /></item><item localCode="
at0045"><text>Yes</text>
<description>Yes</description><provenance /><qualityControl /><
/item><item localCode="at0046"><text>No</text><description>No<
/description><provenance /><qualityControl
/></item><item localCode="at0047"><text>Yes</text><description>Yes<
/description><provenance /><qualityControl /></item></termDefinition><
/termDefinitions>
<termBindings><termBinding terminology="LN"><binding localCode="at0000"
targetCode="48543-3" /><binding localCode="at0002" targetCode="48512-8"
/><binding localCode="at0003"
targetCode="48513-6" /><binding localCode="at0004" targetCode="48514-4"
/><binding localCode="at0005" targetCode="48515-1" /><binding localCode="
at0006" targetCode="48518-5" /
><binding localCode="at0007" targetCode="48519-3" /><binding localCode="
at0008" targetCode="48520-1" /><binding localCode="at0009" targetCode="
48521-9" /><binding
localCode="at0010" targetCode="48523-5" /><binding localCode="at0011"
targetCode="48525-0" /><binding localCode="at0012" targetCode="48526-8"
/><binding localCode="at0013"
targetCode="48528-4" /><binding localCode="at0014" targetCode="48532-6"
/><binding localCode="at0015" targetCode="48533-4" /><binding localCode="
at0016" targetCode="48534-2"
/><binding localCode="at0017" targetCode="48545-8" /></termBinding><
/termBindings>
<constraintDefinitions /><constraintBindings /><
/ontology><presentation><css /><header /><footer /></presentation><
/archetype></moa:moArchetypes>

```

The ADL 1.2 as exported by the Template Editor for this looks like:

```

archetype (adl_version=1.2)
  EN13606_LOINC_GeriatricDepressionScale(GDS)ShortVersionPanel.v1.xml
concept
  [at0000]
description
  author = <"">
  submission = <
    organisation = <"Medical-Objects">
    date = <2009-05-17>
  >
  version = <"1">
  status = <"Draft">
  revision = <"1">
  description = <
    ["en"] = <
      purpose = <"">
      use = <"For LOINC package panel and answers project">
      misuse = <"">
    >
  >
  adl_version = <"1.2">
  rights = <"">
definition
  ENTRY[at0000] occurrences matches {0..1} matches {      -- GDS.short
Panel
    ELEMENT[at0002] occurrences matches {0..1} matches {
-- Are you basically satisfied with your life
    value matches {
      CODED_TEXT matches {
        code matches {
          [local::
            at0018,    -- No
            at0019]  -- Yes
          }
        }
      }
    }
  }
}

```

```

ELEMENT[at0003] occurrences matches {0..1} matches {
-- Have you dropped many of your activities
  value matches {
    CODED_TEXT matches {
      code matches {
        [local::
          at0020,  -- No
          at0021] -- Yes
      }
    }
  }
}
ELEMENT[at0004] occurrences matches {0..1} matches {
-- Do you feel that your life is empty
  value matches {
    CODED_TEXT matches {
      code matches {
        [local::
          at0022,  -- No
          at0023] -- Yes
      }
    }
  }
}
ELEMENT[at0005] occurrences matches {0..1} matches {
-- Do you often get bored
  value matches {
    CODED_TEXT matches {
      code matches {
        [local::
          at0024,  -- No
          at0025] -- Yes
      }
    }
  }
}
ELEMENT[at0006] occurrences matches {0..1} matches {
-- Are you in good spirits most of the time
  value matches {
    CODED_TEXT matches {
      code matches {
        [local::
          at0026,  -- No
          at0027] -- Yes
      }
    }
  }
}
ELEMENT[at0007] occurrences matches {0..1} matches {
-- Are you afraid that something bad is going to happen to you
  value matches {
    CODED_TEXT matches {
      code matches {
        [local::
          at0028,  -- No
          at0029] -- Yes
      }
    }
  }
}
ELEMENT[at0008] occurrences matches {0..1} matches {
-- Do you feel happy most of the time
  value matches {
    CODED_TEXT matches {
      code matches {
        [local::
          at0030,  -- No
          at0031] -- Yes
      }
    }
  }
}

```

```

    }
    ELEMENT[at0009] occurrences matches {0..1} matches {
-- Do you often feel helpless
    value matches {
        CODED_TEXT matches {
            code matches {
                [local::
                at0032,    -- No
                at0033]    -- Yes
            }
        }
    }
}
ELEMENT[at0010] occurrences matches {0..1} matches {
-- Do you prefer to stay at home, rather than going out and doing new
things
    value matches {
        CODED_TEXT matches {
            code matches {
                [local::
                at0034,    -- No
                at0035]    -- Yes
            }
        }
    }
}
ELEMENT[at0011] occurrences matches {0..1} matches {
-- Do you feel you have more problems with memory than most
    value matches {
        CODED_TEXT matches {
            code matches {
                [local::
                at0036,    -- No
                at0037]    -- Yes
            }
        }
    }
}
ELEMENT[at0012] occurrences matches {0..1} matches {
-- Do you think it is wonderful to be alive now
    value matches {
        CODED_TEXT matches {
            code matches {
                [local::
                at0038,    -- No
                at0039]    -- Yes
            }
        }
    }
}
ELEMENT[at0013] occurrences matches {0..1} matches {
-- Do you feel pretty worthless the way you are now
    value matches {
        CODED_TEXT matches {
            code matches {
                [local::
                at0040,    -- No
                at0041]    -- Yes
            }
        }
    }
}
ELEMENT[at0014] occurrences matches {0..1} matches {
-- Do you feel full of energy
    value matches {
        CODED_TEXT matches {
            code matches {
                [local::
                at0042,    -- No
                at0043]    -- Yes
            }
        }
    }
}

```

```

    }
    }
    ELEMENT[at0015] occurrences matches {0..1} matches {
-- Do you feel that your situation is hopeless
    value matches {
        CODED_TEXT matches {
            code matches {
                [local::
                at0044,    -- No
                at0045]    -- Yes
            }
        }
    }
    }
    ELEMENT[at0016] occurrences matches {0..1} matches {
-- Do you think that most people are better off than you are now
    value matches {
        CODED_TEXT matches {
            code matches {
                [local::
                at0046,    -- No
                at0047]    -- Yes
            }
        }
    }
    }
    ELEMENT[at0017] occurrences matches {0..1} matches {
-- Geriatric depression scale.short version total
    value matches {TIntegerListData}
}
ontology
    primary_language = <"en">
    languages_available = <"en">
    term_definitions = <
        ["en"] = <
            items = <
                ["at0000"] = <
                    text = <"GDS.short Panel">
                    description = <"GDS.short Panel">
                >
                ["at0002"] = <
                    text = <"Are you basically
satisfied with your life">
                    description = <"Are you basically
satisfied with your life">
                >
                ["at0003"] = <
                    text = <"Have you dropped many of
your activities">
                    description = <"Have you dropped
many of your activities">
                >
                ["at0004"] = <
                    text = <"Do you feel that your life
is empty">
                    description = <"Do you feel that
your life is empty">
                >
                ["at0005"] = <
                    text = <"Do you often get bored">
                    description = <"Do you often get
bored">
                >
                ["at0006"] = <
                    text = <"Are you in good spirits
most of the time">
                    description = <"Are you in good
spirits most of the time">
                >
            >
        >
    >

```

```

["at0007"] = <
    text = <"Are you afraid that
something bad is going to happen to you">
    description = <"Are you afraid that
something bad is going to happen to you">
>
["at0008"] = <
    text = <"Do you feel happy most of
the time">
    description = <"Do you feel happy
most of the time">
>
["at0009"] = <
    text = <"Do you often feel helpless"
>
    description = <"Do you often feel
helpless">
>
["at0010"] = <
    text = <"Do you prefer to stay at
home, rather than going out and doing new things">
    description = <"Do you prefer to
stay at home, rather than going out and doing new things">
>
["at0011"] = <
    text = <"Do you feel you have more
problems with memory than most">
    description = <"Do you feel you
have more problems with memory than most">
>
["at0012"] = <
    text = <"Do you think it is
wonderful to be alive now">
    description = <"Do you think it is
wonderful to be alive now">
>
["at0013"] = <
    text = <"Do you feel pretty
worthless the way you are now">
    description = <"Do you feel pretty
worthless the way you are now">
>
["at0014"] = <
    text = <"Do you feel full of energy"
>
    description = <"Do you feel full of
energy">
>
["at0015"] = <
    text = <"Do you feel that your
situation is hopeless">
    description = <"Do you feel that
your situation is hopeless">
>
["at0016"] = <
    text = <"Do you think that most
people are better off than you are now">
    description = <"Do you think that
most people are better off than you are now">
>
["at0017"] = <
    text = <"Geriatric depression scale.
short version total">
    description = <"Geriatric
depression scale.short version total">
>
["at0018"] = <
    text = <"No">
    description = <"No">
>
["at0019"] = <

```

```
        text = <"Yes">
        description = <"Yes">
>
["at0020"] = <
    text = <"No">
    description = <"No">
>
["at0021"] = <
    text = <"Yes">
    description = <"Yes">
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    description = <"Yes">
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["at0024"] = <
    text = <"No">
    description = <"No">
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["at0025"] = <
    text = <"Yes">
    description = <"Yes">
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["at0026"] = <
    text = <"No">
    description = <"No">
>
["at0027"] = <
    text = <"Yes">
    description = <"Yes">
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    description = <"Yes">
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["at0030"] = <
    text = <"No">
    description = <"No">
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["at0031"] = <
    text = <"Yes">
    description = <"Yes">
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["at0032"] = <
    text = <"No">
    description = <"No">
>
["at0033"] = <
    text = <"Yes">
    description = <"Yes">
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["at0034"] = <
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    description = <"No">
>
["at0035"] = <
    text = <"Yes">
    description = <"Yes">
>
["at0036"] = <
    text = <"No">
    description = <"No">
>
```

```

["at0037"] = <
    text = <"Yes">
    description = <"Yes">
>
["at0038"] = <
    text = <"No">
    description = <"No">
>
["at0039"] = <
    text = <"Yes">
    description = <"Yes">
>
["at0040"] = <
    text = <"No">
    description = <"No">
>
["at0041"] = <
    text = <"Yes">
    description = <"Yes">
>
["at0042"] = <
    text = <"No">
    description = <"No">
>
["at0043"] = <
    text = <"Yes">
    description = <"Yes">
>
["at0044"] = <
    text = <"No">
    description = <"No">
>
["at0045"] = <
    text = <"Yes">
    description = <"Yes">
>
["at0046"] = <
    text = <"No">
    description = <"No">
>
["at0047"] = <
    text = <"Yes">
    description = <"Yes">
>
>
>
>
term_binding = <
["LN"] = <
    items = <
        ["at0000"] = <[LN::48543-3]>
        ["at0002"] = <[LN::48512-8]>
        ["at0003"] = <[LN::48513-6]>
        ["at0004"] = <[LN::48514-4]>
        ["at0005"] = <[LN::48515-1]>
        ["at0006"] = <[LN::48518-5]>
        ["at0007"] = <[LN::48519-3]>
        ["at0008"] = <[LN::48520-1]>
        ["at0009"] = <[LN::48521-9]>
        ["at0010"] = <[LN::48523-5]>
        ["at0011"] = <[LN::48525-0]>
        ["at0012"] = <[LN::48526-8]>
        ["at0013"] = <[LN::48528-4]>
        ["at0014"] = <[LN::48532-6]>
        ["at0015"] = <[LN::48533-4]>
        ["at0016"] = <[LN::48534-2]>
        ["at0017"] = <[LN::48545-8]>
    >
>
>

```

The resulting HL7 from a populated instance of the archetype / template in the full working copy of the Editor looks like this:

[illegible]