

TV-2 : Technical Standards Forecast

This document defines the mapping between the DODAF TV-2 Technical Standards Forecast and the ISO 10303 AP233 Systems Engineering information model. This mapping is defined for the purpose of enabling data exchange between computer applications supporting the ISO AP233 standard and those supporting the US DoDAF CADM format, specifically CADM 1.03.

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1. Introduction

The TV-2 Technical Standards Forecast Product Description in the DoDAF Volume II: Product Descriptions document defines TV-2 as follows.

The Technical Standards Forecast contains expected changes in technology-related standards and conventions, which are documented in the TV-1 product. The forecast for evolutionary changes in the standards should be correlated against the time periods as mentioned in the SV-8 and SV-9 products.

2. TV-2 AP233 Mapping Issues

Warning:

At the time this document was written, AP233 was still undergoing development.

This section describes the issues in mapping between TV-2 Technical Standards Forecast and ISO AP233 as of the date of publication of this document. These issues may be addressed in future work by the DoDAF Working Group, the ISO AP233 development team or others.

1. No issues identified to date.

3. Mapping TV-2 CADM XML to AP233 XML

This section defines the mapping from the CADM XML representation of TV-2 Technical Standards Forecast into an ISO AP233 XML representation of that same data. The mapping is defined at the detailed level of the XML elements and attributes themselves as it is aimed at implementors. See [AP233](#) (./ap233/index.html) for more information on the AP233 XML Schema and the AP233 EXPRESS schema.

Please review the [rules for AP233 XML data production](#) (./ap233/index.html#ap233xmlrules) as they are applicable to all implementations.

3.1. TV-2 Technical Standards Forecast Mapping

This section describes the mapping for the CADM TV-2 Technical Standards Forecast itself.

The following table documents the CADM TECHNICAL-STANDARD-FORECAST mapping.

CADM XML Element(s)	AP233 XML Element(s) or Attributes(s)
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TECH_STD_FCST	An AP233 Document with related version and definition, as specified in the AP233 approach to documents (../ap233/index.html#ap233_doc) each classified (../ap233/index.html#ap233_extclass) as an TECHNICAL-STANDARD-FORECAST . See the mapping for CADM Document (../dodaf/sv1.html#sv1_document) for more detail.
TECH_STD_FCST / TECH_STD_FCST_DOC_ID	The identifier (../ap233/index.html#ap233_id) of the AP233 Document assigned by the owning organization.
TECH_STD_FCST / TM_FRAME_PERIOD_ID	An AP233 Time_interval and related Time_interval_assignment, with its Items child element containing a reference to the AP233 Document representing the TV-2, as specified in AP233 Dates and times (../ap233/index.html#ap233_date) with the assignment classified as a TechnicalStandardForecastTimeFramePeriod . The CADM Period concept is mapped to the AP233 Time_interval or Time_interval_with_bounds as appropriate.

Table 1: Within the TECH_STD_FCST_TBL CADM XML Element

The following table documents the CADM TECHNICAL-STANDARD-FORECAST-ELEMENT mapping

CADM XML Element(s)	AP233 XML Element(s) or Attributes(s)
TECH_STD_FCST_ELEM	An AP233 Document with related version and definition, as specified in the AP233 approach to documents (../ap233/index.html#ap233_doc) each classified (../ap233/index.html#ap233_extclass) as a TECHNICAL-STANDARD-FORECAST-ELEMENT .
TECH_STD_FCST_ELEM / TSTDFE_ID	The identifier (../ap233/index.html#ap233_id) of the AP233 Document assigned by the owning organization.
TECH_STD_FCST_ELEM / TECH_STD_FCST_DOC_ID	An AP233 Document_definition_relationship classified (../ap233/index.html#ap233_extclass) as a TECHNICAL-STANDARD-FORECAST-ELEMENT

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	<p>where the <code>Relating_document</code> definition references the AP233 <code>Document_definition</code> representing the Technical Standard Forecast and the <code>Related_document</code> definition references the AP233 <code>Document_definition</code> representing the element.</p>
TECH_STD_FCST_ELEM / TECH_SVC_ID	<p>An AP233 <code>Document_assignment</code> relating the AP233 representation of the CADM Technical Service to the AP233 <code>Document</code> representing the element.</p>
TECH_STD_FCST_ELEM / TIME_FRAME_PRD_ID	<p>An AP233 <code>Time_interval</code> and related <code>Time_interval_assignment</code>, with its <code>Items</code> child element containing a reference to the AP233 representation of the Element, as specified in AP233 Dates and times (<code>../ap233/index.html#ap233_date</code>) with the assignment classified as a TechnicalStandardForecastElementTimeFramePeriod.</p> <p>The CADM Period concept is mapped to the AP233 <code>Time_interval</code> or <code>Time_interval_with_bounds</code> as appropriate.</p>
TECH_STD_FCST_ELEM / IT_STD_AGR_ID	<p>An AP233 <code>Document_assignment</code> relating the AP233 representation of the CADM IT Standard to the AP233 <code>Document</code> representing the profile.</p>
TECH_STD_FCST_ELEM / TSFE_CONFID_LVL_CD	<p>A classification (<code>../ap233/index.html#ap233_extclass</code>) of the AP233 element representing the element depending on the following values.</p> <ul style="list-style-type: none"> • when 01, classified as CONFIDENCE LEVEL HIGH • when 02, classified as CONFIDENCE LEVEL LOW • when 03, classified as CONFIDENCE LEVEL OTHER • when 08, classified as CONFIDENCE LEVEL NOT SPECIFIED • when 09, classified as CONFIDENCE LEVEL NOT KNOWN
TECH_STD_FCST_ELEM / TSFE_EXPCTD_AVAIL_CD	<p>A classification (<code>../ap233/index.html#ap233_extclass</code>) of the AP233 element representing the element depending on the following values.</p>

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	<ul style="list-style-type: none"> when 01, classified as AVAILABILITY NOW when 02, classified as AVAILABILITY FUTURE when 08, classified as AVAILABILITY NOT SPECIFIED when 09, classified as AVAILABILITY NOT KNOWN
TECH_STD_FCST_ELEM / TSFE_EXPCTD_STDZ_TX	An AP233 <i>Description_text</i> and related assignment to the AP233 representation of the Element as specified in (<i>../ap233/index.html#ap233_descriptions</i>) with the assignment classified as a ExpectedStandardSummaryText .
TECH_STD_FCST_ELEM / TSFE_PRED_MKT_ACCPTNC_TX	An AP233 <i>Description_text</i> and related assignment to the AP233 representation of the Element as specified in (<i>../ap233/index.html#ap233_descriptions</i>) with the assignment classified as a PredictedMarketAcceptanceText .
TECH_STD_FCST_ELEM / TSFE_RSK_ASSMNT_TX	An AP233 <i>Description_text</i> and related assignment to the AP233 representation of the Element as specified in (<i>../ap233/index.html#ap233_descriptions</i>) with the assignment classified as a RiskAssessmentText .

Table 2: Within the TECH_STD_FCST_ELEM_TBL CADM XML Element

4. Example TV-2 CADM XML Data

This section contains example TV-2 CADM XML data.

4.1. Example TECH_STD_FCST

```
<TECH_STD_FCST>
  <TECH_STD_FCST_DOC_ID>33220001</TECH_STD_FCST_DOC_ID>
</TECH_STD_FCST>
<DOC>
  <DOC_ID>33220001</DOC_ID>
  <DOC_NM>SAMPLE TECHNOLOGY STANDARDS FORECAST {TV-2}</DOC_NM>
  <CSC_ID>20000001</CSC_ID>
  <TIME_FRAME_PRD_ID>20102341</TIME_FRAME_PRD_ID>
  <DOC_APP_CALDT>20031126</DOC_APP_CALDT>
  <DOC_ARCHPROD_TY_CD>05</DOC_ARCHPROD_TY_CD>
  <DOC_CRTN_CALDT>20031203</DOC_CRTN_CALDT>
  <DOC_CAT_CD>J</DOC_CAT_CD>
```

```
<DOC_VER_ID>VERSION 1.0</DOC_VER_ID>
</DOC>
```

4.2. Example TECH_STD_FCSTELEM

```
<TECH_STD_FCST_ELEM>
  <TSTDFE_ID>33220501</TSTDFE_ID>
  <TECH_STD_FCST_DOC_ID>33220001</TECH_STD_FCST_DOC_ID>
  <TSTDFE_CNF_LVL_CD>01</TSTDFE_CNF_LVL_CD>
  <TSTDFE_EXP_AVL_CD>02</TSTDFE_EXP_AVL_CD>
  <TECHS_ID>33090903</TECHS_ID>
  <ITSTD_AGR_ID>99489000</ITSTD_AGR_ID>
  <TSTDFE_EXP_STDZ_TX>New feature description goes
here</TSTDFE_EXP_STDZ_TX>
</TECH_STD_FCST_ELEM>
```

5. Example TV-2 AP233 XML Data

This section contains example TV-2 AP233 XML data.

5.1. Example Document

```
<ap233:Document id="id-doc12771" />

<ap233:Identification_assignment id="id-doc12771-idassign">
  <Identifier>33220001</Identifier>
  <Items>
    <ap233:Document ref="id-doc12771" xsi:nil="true" />
  </Items>
</ap233:Identification_assignment>

<ap233:Classification_assignment
id="id-doc12771-idassign-classification_assignment">
  <Items>
    <ap233:Identification_assignment ref="id-doc12771-idassign"
xsi:nil="true" />
  </Items>
  <Assigned_class>
    <ap233:External_class ref="id-Document_identification_code"
xsi:nil="true" />
  </Assigned_class>
</ap233:Classification_assignment>

<ap233:Document_version id="id-docver12771">
  <Of_product>
    <ap233:Document ref="id-doc12771" xsi:nil="true" />
  </Of_product>
</ap233:Document_version>

<ap233:Document_definition id="id-docdef12771">
  <Defined_version>
    <ap233:Document_version ref="id-docver12771" xsi:nil="true" />
  </Defined_version>
```

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```
<Initial_context>
  <ap233:View_definition_context ref="id-tv2" xsi:nil="true" />
</Initial_context>
</ap233:Document_definition>

<ap233:Classification_assignment
id="id-docall12771-classification_assignment">
  <Items>
    <ap233:Document ref="id-doc12771" xsi:nil="true" />
    <ap233:Document_version ref="id-docver12771" xsi:nil="true" />
    <ap233:Document_definition ref="id-docdef12771" xsi:nil="true" />
  </Items>
  <Assigned_class>
    <ap233:External_class ref="id-TECHNICAL-STANDARD-FORECAST"
xsi:nil="true" />
  </Assigned_class>
</ap233:Classification_assignment>
```

5.2. Example Document_definition_relationship

```
<ap233:Document_definition_relationship id="id-docdefrel00001">
  <Relating_definition>
    <ap233:Document_definition ref="id-docdef12771" xsi:nil="true" />
  </Relating_definition>
  <Related_definition>
    <ap233:Document_definition ref="id-docdef33220501" xsi:nil="true" />
  </Related_definition>
</ap233:Document_definition_relationship>

<ap233:Classification_assignment
id="id-docdefrel00001-classification_assignment">
  <Items>
    <ap233:Document_definition_relationship ref="id-docdefrel00001"
xsi:nil="true" />
  </Items>
  <Assigned_class>
    <ap233:External_class ref="id-TECHNICAL-STANDARD-FORECAST-ELEMENT"
xsi:nil="true" />
  </Assigned_class>
</ap233:Classification_assignment>

<ap233:Document id="id-doc33220501" />

<ap233:Identification_assignment id="id-doc33220501-idassign">
  <Identifier>33220501</Identifier>
  <Items>
    <ap233:Document ref="id-doc33220501" xsi:nil="true" />
  </Items>
</ap233:Identification_assignment>

<ap233:Classification_assignment
id="id-doc33220501-idassign-classification_assignment">
  <Items>
    <ap233:Identification_assignment ref="id-doc33220501-idassign"
```

```

xsi:nil="true" />
  </Items>
  <Assigned_class>
    <ap233:External_class ref="id-Document_identification_code"
xsi:nil="true" />
  </Assigned_class>
</ap233:Classification_assignment>

<ap233:Document_version id="id-docver33220501">
  <Of_product>
    <ap233:Document ref="id-doc33220501" xsi:nil="true" />
  </Of_product>
</ap233:Document_version>

<ap233:Document_definition id="id-docdef33220501">
  <Defined_version>
    <ap233:Document_version ref="id-docver33220501" xsi:nil="true" />
  </Defined_version>
  <Initial_context>
    <ap233:View_definition_context ref="id-tv2" xsi:nil="true" />
  </Initial_context>
</ap233:Document_definition>

<ap233:Classification_assignment
id="id-docall33220501-classification_assignment">
  <Items>
    <ap233:Document ref="id-doc33220501" xsi:nil="true" />
    <ap233:Document_version ref="id-docver33220501" xsi:nil="true" />
    <ap233:Document_definition ref="id-docdef33220501" xsi:nil="true" />
  </Items>
  <Assigned_class>
    <ap233:External_class ref="id-TECHNICAL-STANDARD-FORECAST-ELEMENT"
xsi:nil="true" />
  </Assigned_class>
</ap233:Classification_assignment>

<ap233:Classification_assignment
id="id-docall33220501-classification_assignment">
  <Items>
    <ap233:Document ref="id-doc33220501" xsi:nil="true" />
  </Items>
  <Assigned_class>
    <ap233:External_class ref="id-CONFIDENCE-LEVEL-HIGH" xsi:nil="true" />
  </Assigned_class>
</ap233:Classification_assignment>

```