

SV-8 : Systems Evolution Description

This document defines the mapping between the DODAF SV-8 Systems Evolution Description 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 1.02.

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1. Introduction

The SV-8 Systems Evolution Description Product Description in the DoDAF Volume II: Product Descriptions document defines SV-8 as follows.

The Systems Evolution Description captures evolution plans that describe how the system, or the architecture in which the system is embedded, will evolve over a lengthy period of time. Generally, the timeline milestones are critical for a successful understanding of the evolution timeline.

2. SV-8 Concepts

An Systems Evolution Description may be used to represent the following concepts.

evolution

spreading in scope while increasing functionality and flexibility

migration

incrementally creating a more streamlined, efficient, smaller, and cheaper suite

3. SV-8 AP233 Mapping Issues

Warning:

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

This section describes the issues in mapping between SV-8 Systems Evolution Description 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. SYSTEM-MIGRATION-EVOLUTION does not seem to have an identifier attribute of its own (other than the one inherited from DOCUMENT).
2. DIRECTED-CONSTRAINT is currently mapped to AP233 Document. AP233 also has the concept of Requirement, Condition, and Expression each of which have some similarity to the concept of a constraint.
3. The SYSTEM-DIRECTED-CONSTRAINT attribute GUID_ID is not currently mapped as it seems it would mean an AP233 Document is assigned to an AP233 Document assignment, which is not currently allowed.
4. SYSTEM-ASSOCIATION-MIGRATION is currently mapped to AP233 Document as a way of grouping the CADM Agreement and Guidance and allowing them to be assigned to the AP233 representation of the CADM System Association. Other possible mappings (e.g. to AP233 Group) would provide a similar capability and should be investigated

further.

4. Mapping SV-8 CADM XML to AP233 XML

This section defines the mapping from the CADM XML representation of SV-8 Systems Evolution Description 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 for more information on the AP233 XML Schema and the AP233 EXPRESS schema.

Please review the rules for AP233 XML data production as they are applicable to all implementations.

4.1. SV-8 Systems Evolution Description Mapping

This section describes the mapping for the CADM SV-8 Systems Evolution Description itself.

The following table documents the CADM SYSTEM-EVOLUTION-DESCRIPTION (SYS_EVOL_DESCR) mapping.

CADM XML Element(s)	AP233 XML Element(s) or Attributes(s)
SYS_EVOL_DESCR	An AP233 Document with related version and definition, as specified in the AP233 approach to documents each classified as an SYSTEM-EVOLUTION-DESCRIPTION . See the mapping for CADM Document for more detail.
SYS_EVOL_DESCR / SYSEVOLDESC_DOC_ID	The identifier for the Document representing the CADM Systems Evolution Description assigned by the owning organization.

Table 1: Within the SYS_EVOL_DESCR_TBL CADM XML Element

4.2. SYSTEM MIGRATION EVOLUTION Mapping

The following table documents the CADM SYSTEM-MIGRATION-EVOLUTION (SYS_MIGRA_EVOL) Element mapping. A SYSTEM-MIGRATION-EVOLUTION is a kind of CADM Document.

CADM XML Element(s)	AP233 XML Element(s) or Attributes(s)
SYS_MIGRA_EVOL	An AP233 Document with related version and definition, as specified in the AP233 approach to documents each classified as an SYSTEM-MIGRATION-EVOLUTION . See the

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	mapping for CADM Document for more detail.	
SYS_MIGRA_EVOL / DIR_CONSTR_GUID_ID	An AP233 Document_assignment relating the AP233 representation of the CADM Directed Constraint to the AP233 Document representing the System Migration Evolution classified as an SYSTEM-MIGRATION-EVOLUTION-DIRECTED-CONSTRAINT.	
SYS_MIGRA_EVOL / ORD_SYS_ID	An AP233 Document_assignment relating the AP233 representation of the CADM System to the AP233 Document representing the System Migration Evolution classified as an SYSTEM-MIGRATION-EVOLUTION-ORDINATE-SYSTEM.	
SYS_MIGRA_EVOL / SUB_SYS_ID	An AP233 Document_assignment relating the AP233 representation of the CADM System to the AP233 Document representing the System Migration Evolution classified as an SYSTEM-MIGRATION-EVOLUTION-SUBORDINATE-SYSTEM.	
SYS_MIGRA_EVOL / SYSEVOLDESC_DOC_ID	An AP233 Document_definition_relationship classified as a SYSTEM-MIGRATION-EVOLUTION where the Relating_document definition references the AP233 Document_definition representing the SV-8 and the Related_document definition references the AP233 Document_definition representing the SYSTEM-MIGRATION-EVOLUTION.	
SYS_MIGRA_EVOL / SYS_ID	An AP233 Document_assignment relating the AP233 representation of the CADM System to the AP233 Document representing the System Migration Evolution classified as an SYSTEM-MIGRATION-EVOLUTION-SYSTEM.	
SYS_MIGRA_EVOL / SYSA_ID	An AP233 Document_assignment relating the AP233 representation of the CADM System Association to the AP233 Document representing the System Migration Evolution classified as an SYSTEM-MIGRATION-EVOLUTION-ORDINATE-SYSTEM-ASSOC.	
SYS_MIGRA_EVOL / SYSAMIG_ID	An AP233 Document_assignment relating the AP233 representation of the CADM System Association Migration to the AP233 Document representing the System Migration Evolution	

	classified as an SYSTEM-MIGRATION-EVOLUTION-SYSTEM-ASSOCIATION-M
SYS_MIGRA_EVOL / SYS_DCNSTR_ID	An AP233 Document_assignment relating the AP233 representation of the CADM System Directed Constraint to the AP233 Document representing the System Migration Evolution classified as an SYSTEM-MIGRATION-EVOLUTION-SYSTEM-DIRECTED-CONS

Table 1: Within the SYS_MIGRA_EVOL_TBL CADM XML Element

4.3. SYSTEM DIRECTED CONSTRAINT Mapping

The following table documents the CADM SYSTEM-DIRECTED-CONSTRAINT (SYS_DIR_CONSTRAINT) Element mapping

CADM XML Element(s)	AP233 XML Element(s) or Attributes(s)
SYS_DIR_CONSTRAINT	An AP233 Document_assignment classified as an SYSTEM-DIRECTED-CONSTRAINT relating the AP233 representation of the CADM Directed Constraint to the AP233 representation of the CADM System.
SYS_DIR_CONSTRAINT / DIR_CONSTR_GUID_ID and SYS_ID	The AP233 Document_assignment where the Is_assigned_to refers to the AP233 representation of the CADM System (SYS_ID) and the Assigned_document refers to the AP233 Document representing the CADM Directed Constraint (DIR_CONSTR_GUID_ID).
SYS_DIR_CONSTRAINT / GUID_ID	Not currently mapped - see SV-8 Issues.
SYS_DIR_CONSTRAINT / SYS_DCNSTR_DESC_TX	An AP233 Description_text and Description_text_assignment as specified in AP233 Descriptions assigned to the AP233 representation of the CADM System Directed Constraint.
SYS_DIR_CONSTRAINT / SYS_DCNSTR_ID	The identifier for the Document_assignment representing the CADM System Directed Constraint.
SYS_DIR_CONSTRAINT / SYS_DCNSTR_TY_CD	A classification of the AP233 element representing the constraint depending on the following values. <ul style="list-style-type: none"> when 01, classified as SECURITY CONSTRAINT

	<ul style="list-style-type: none"> • when 02, classified as DATABASE CONSTRAINT • when 03, classified as ACCESS CONSTRAINT • when 08, classified as CONSTRAINT TYPE NOT SPECIFIED • when 09, classified as CONSTRAINT TYPE NOT KNOWN
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Table 1: Within the SYS_DIR_CONSTRAINT_TBL CADM XML Element

4.4. DIRECTED CONSTRAINT Mapping

The following table documents the CADM DIRECTED-CONSTRAINT (DIR_CONSTRAINT) Element mapping

CADM XML Element(s)	AP233 XML Element(s) or Attributes(s)
DIR_CONSTRAINT	An AP233 Document (see SV-8 Issues) with related version and definition, as specified in the AP233 approach to documents each classified as an DIRECTED-CONSTRAINT . See the mapping for CADM Guidance for more detail.
DIR_CONSTRAINT / DIR_CONSTR_GUID_ID	The identifier for the Document representing the CADM Directed Constraint assigned by the owning organization.
DIR_CONSTRAINT / DCNSTRNT_NM	An identifier for the Document representing the CADM Directed Constraint classified as a Name .
DIR_CONSTRAINT / DCNSTRNT_DESCR_TX	The Description of the AP233 Document.
DIR_CONSTRAINT / DCNSTRNT_REQ_CD	A classification of the AP233 element representing the constraint depending on the following values. <ul style="list-style-type: none"> • when 01, classified as REQUIRED • when 02, classified as RECOMMENDED BUT NOT REQUIRED • when 03, classified as REQUIRABILITY OTHER • when 04, classified as NEITHER RECOMMENDED NOR REQUIRED • when 08, classified as REQUIRABILITY NOT SPECIFIED • when 09, classified as REQUIRABILITY NOT KNOWN
DIR_CONSTRAINT / DCNSTRNT_STA_CD	A classification of the AP233 element

	<p>representing the constraint depending on the following values.</p> <ul style="list-style-type: none"> • when 1, classified as CURRENTLY APPLIES • when 2, classified as TEMPORARILY SUSPENDED • when 3, classified as WAIVED • when 4, classified as NO LONGER APPLIES • when 5, classified as MAY APPLY IN THE FUTURE • when 6, classified as UNDER CONSIDERATION • when 8, classified as STATUS NOT SPECIFIED • when 9, classified as STATUS LEVEL NOT KNOWN
DIR_CONSTRAINT / DCNSTRNT_TY_CD	<p>A classification of the AP233 element representing the constraint depending on the following values.</p> <ul style="list-style-type: none"> • when 01, classified as BUDGETARY CONSTRAINT • when 02, classified as PERSONNEL CONSTRAINT • when 03, classified as OPERATIONAL CONSTRAINT • when 04, classified as POLITICAL CONSTRAINT • when 05, classified as SECURITY CONSTRAINT • when 06, classified as OTHER CONSTRAINT • when 08, classified as CONSTRAINT TYPE NOT SPECIFIED • when 09, classified as CONSTRAINT TYPE NOT KNOWN

Table 1: Within the DIR_CONSTRAINT_TBL CADM XML Element

4.5. SYSTEM ASSOCIATION MIGRATION Mapping

The following table documents the CADM SYSTEM-ASSOCIATION-MIGRATION (SYS_ASSOC_MIGRA) Element mapping.

CADM XML Element(s)	AP233 XML Element(s) or Attributes(s)
SYS_ASSOC_MIGRA	An AP233 Document (see SV-8 Issues) with related version and definition, as specified in the AP233 approach to documents each classified as an SYSTEM-ASSOCIATION-MIGRATION .

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SYS_ASSOC_MIGRA / AGR_ID	The AP233 Document_assignment where the Is_assigned_to refers to the AP233 representation of the CADM Agreement and the Assigned_document refers to the AP233 Document representing the CADM System Association Migration.
SYS_ASSOC_MIGRA / GUID_ID	The AP233 Document_assignment where the Is_assigned_to refers to the AP233 representation of the CADM Guidance and the Assigned_document refers to the AP233 Document representing the CADM System Association Migration.
SYS_ASSOC_MIGRA / ORD_SYS_ID	Not used in mapping.
SYS_ASSOC_MIGRA / SUB_SYS_ID	Not used in mapping.
SYS_ASSOC_MIGRA / SYSA_ID	The AP233 Document_assignment where the Is_assigned_to refers to the AP233 representation of the CADM System Association (SYSA_ID) and the Assigned_document refers to the AP233 Document representing the CADM System Association Migration.
SYS_ASSOC_MIGRA / SYSAMIG_DESCR_TX	The Description of the AP233 Document.
SYS_ASSOC_MIGRA / SYSAMIG_ID	The identifier for the Document representing the CADM Directed Constraint assigned by the owning organization.
SYS_ASSOC_MIGRA / TIME_FRAME_PRD_ID	An AP233 Time_interval and related Time_interval_assignment, with its Items child element containing a reference to the AP233 Document representing the migration, as specified in AP233 Dates and times with the assignment classified as a SystemAssociationMigrationTimeFramePeriod . The CADM Period concept is mapped to the AP233 Time_interval or Time_interval_with_bounds as appropriate.

Table 1: Within the SYS_ASSOC_MIGRA_TBL CADM XML Element

4.6. SYSTEM ASSOCIATION DIRECTED CONSTRAINT Mapping

The following table documents the CADM SYSTEM-ASSOCIATION-DIRECTED-CONSTRAINT (SYS_ASSOC_CONSTRNT)

Element mapping

CADM XML Element(s)	AP233 XML Element(s) or Attributes(s)
SYS_ASSOC_CONSTRNT	An AP233 Document_assignment classified as an SYSTEM-ASSOCIATION-DIRECTED-CONSTRAINT relating the AP233 representation of the CADM Directed Constraint to the AP233 representation of the CADM System Association.
SYS_ASSOC_CONSTRNT / DIR_CONSTR_GUID_ID and SYSA_ID	The AP233 Document_assignment where the Is_assigned_to refers to the AP233 representation of the CADM System Association (SYSA_ID) and the Assigned_document refers to the AP233 Document representing the CADM Directed Constraint (DIR_CONSTR_GUID_ID).
SYS_ASSOC_CONSTRNT / ORD_SYS_ID	Not used in mapping.
SYS_ASSOC_CONSTRNT / SUB_SYS_ID	Not used in mapping.

Table 1: Within the SYS_ASSOC_CONSTRNT_TBL CADM XML Element

4.7. SYSTEM ASSOCIATION MEANS Mapping

The CADM SYSTEM-ASSOCIATION-MEANS (SYS_ASSOC_MEANS) Element is mapped in SV-1 System Association Means.

5. Example SV-8 CADM XML Data

This section contains example SV-8 CADM XML data.

5.1. Example SYS_EVOL_DESCR

```
<SYS_EVOL_DESCR>
  <SYSEVOLDESC_DOC_ID>88800020</SYSEVOLDESC_DOC_ID>
</SYS_EVOL_DESCR>
<DOC>
  <DOC_ID>88800020</DOC_ID>
  <DOC_NM>SAMPLE SYSTEM EVOLUTION DESCRIPTION {SV-8}</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>36</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>
```

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</DOC>

5.2. Example SYS_MIGRA_EVOL

```
<SYS_MIGRA_EVOL>
  <SYSEVOLDESC_DOC_ID>88800020</SYSEVOLDESC_DOC_ID>
  <SYS_DCNSTR_ID>88800990</SYS_DCNSTR_ID>
  <DIR_CONSTR_GUID_ID>88805050</DIR_CONSTR_GUID_ID>
  <SYS_ID>21050300</SYS_ID>
</SYS_MIGRA_EVOL>
```

5.3. Example SYS_DIR_CONSTRAINT

```
<SYS_DIR_CONSTRAINT>
  <SYS_DCNSTR_ID>88800990</SYS_DCNSTR_ID>
  <DIR_CONSTR_GUID_ID>88805050</DIR_CONSTR_GUID_ID>
  <SYS_ID>21050300</SYS_ID>
  <SYS_DCNSTR_DESC_TX>Constraint A On System 21050300</SYS_DCNSTR_DESC_TX>
  <SYS_DCNSTR_TY_CD>03</SYS_DCNSTR_TY_CD>
</SYS_DIR_CONSTRAINT>
```

5.4. Example DIR_CONSTRAINT

```
<DIR_CONSTRAINT>
  <DIR_CONSTR_GUID_ID>88805050</DIR_CONSTR_GUID_ID>
  <DCNSTRNT_NM>Required OC A</DCNSTRNT_NM>
  <DCNSTRNT_DESCR_TX>Constraint description goes here.</DCNSTRNT_DESCR_TX>
  <DCNSTRNT_REQ_CD>01</DCNSTRNT_REQ_CD>
  <DCNSTRNT_STA_CD>1</DCNSTRNT_STA_CD>
  <DCNSTRNT_TY_CD>3</DCNSTRNT_TY_CD>
</DIR_CONSTRAINT>
<GUIDANCE>
  <GUID_ID>88805050</GUID_ID>
  <POC_ID>1000049</POC_ID>
  <GUID_NM>OC: Op Constraint A</GUID_NM>
  <GUID_TX>Text explaining A goes here.</GUID_TX>
  <GUID_SUBJ_TX>TRP Operational Constraint</GUID_SUBJ_TX>
  <GUID_CAT_CD>13</GUID_CAT_CD>
  <GUID_FUNC_TY_CD>2</GUID_FUNC_TY_CD>
  <GUID_AUTH_TX>AIP PHASE II TEAM</GUID_AUTH_TX>
  <GUID_BGN_CALDTTM>20031212000000.000</GUID_BGN_CALDTTM>
  <GUID_END_CALDTTM>20040730000000.000</GUID_END_CALDTTM>
</GUIDANCE>
```

5.5. Example SYS_ASSOC_MIGRA

```
<SYS_ASSOC_MIGRA>
  <SYSAMIG_ID>88800020</SYSAMIG_ID>
  <AGR_ID>22334455</AGR_ID>
  <GUID_ID>54546767</GUID_ID>
  <SYSA_ID>11111007</SYSA_ID>
  <SYSAMIG_DESCR_TX>Text goes here.</SYSAMIG_DESCR_TX>
  <TIME_FRAME_PRD_ID>11991100</TIME_FRAME_PRD_ID>
```

```
</SYS_ASSOC_MIGRA>
```

5.6. Example SYS_ASSOC_CONSTRNT

```
<SYS_ASSOC_CONSTRNT>
  <DIR_CONSTR_GUID_ID>12345678</DIR_CONSTR_GUID_ID>
  <SYSA_ID>11111007</SYSA_ID>
</SYS_ASSOC_CONSTRNT>
```

6. Example SV-8 AP233 XML Data

This section contains example SV-8 AP233 XML data.

6.1. Example Document and Document_assignment

```
<ap233:Document id="id-doc88800020" />

<ap233:Identification_assignment id="id-doc88800020-idassign">
  <Identifier>88800020</Identifier>
  <Items>
    <ap233:Document ref="id-doc12771" xsi:nil="true" />
  </Items>
</ap233:Identification_assignment>

<ap233:Classification_assignment
id="id-doc88800020-idassign-classification_assignment">
  <Items>
    <ap233:Identification_assignment ref="id-doc88800020-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-docver88800020">
  <Of_product>
    <ap233:Document ref="id-doc88800020" xsi:nil="true" />
  </Of_product>
</ap233:Document_version>

<ap233:Document_definition id="id-docdef88800020">
  <Defined_version>
    <ap233:Document_version ref="id-docver88800020" xsi:nil="true" />
  </Defined_version>
  <Initial_context>
    <ap233:View_definition_context ref="id-sv8" xsi:nil="true" />
  </Initial_context>
</ap233:Document_definition>

<ap233:Classification_assignment
id="id-docal88800020-classification_assignment">
```

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```
<Items>
  <ap233:Document ref="id-doc88800020" xsi:nil="true" />
  <ap233:Document_version ref="id-docver88800020" xsi:nil="true" />
  <ap233:Document_definition ref="id-docdef88800020" xsi:nil="true" />
</Items>
<Assigned_class>
  <ap233:External_class ref="id-SYSTEM-EVOLUTION-DESCRIPTION"
xsi:nil="true" />
</Assigned_class>
</ap233:Classification_assignment>
>
```

6.2. Example Description_text

```
<ap233:Description_text id="i1">
  <Description>A very, very long text description of the element of
  interest goes here. It can be very long indeed.
</Description>
</ap233:Description_text>

<ap233:Description_text_assignment id="i20" >
  <Description>
    <ap233:Description_text id="i1" xsi:nil="true" />
  </Description>
  <Items>
    <ap233:Document id="id-doc88800020" xsi:nil="true" />
  </Items>
</ap233:Description_text_assignment>
```

6.3. Example Document_definition_relationship

```
<ap233:Document_definition_relationship>
  <Relating_document_definition>
    <ap233:Document_definition ref="id-id-docdef88800020" xsi:nil="true" />
  </Relating_document_definition>
  <Related_document_definition>
    <ap233:Document_definition ref="id-id-docdef88800025" xsi:nil="true" />
  </Related_document_definition>
</ap233:Document_definition_relationship>

<ap233:Document id="id-doc88800020" />

<ap233:Identification_assignment id="id-doc88800020-idassign">
  <Identifier>88800020</Identifier>
  <Items>
    <ap233:Document ref="id-doc88800020" xsi:nil="true" />
  </Items>
</ap233:Identification_assignment>

<ap233:Classification_assignment
id="id-doc88800020-idassign-classification_assignment">
  <Items>
    <ap233:Identification_assignment ref="id-doc88800020-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-docver88800020">
  <Of_product>
    <ap233:Document ref="id-doc88800020" xsi:nil="true" />
  </Of_product>
</ap233:Document_version>

<ap233:Document_definition id="id-docdef88800020">
  <Defined_version>
    <ap233:Document_version ref="id-docver88800020" xsi:nil="true" />
  </Defined_version>
  <Initial_context>
    <ap233:View_definition_context ref="id-ov7" xsi:nil="true" />
  </Initial_context>
</ap233:Document_definition>

<ap233:Classification_assignment
id="id-docall88800020-classification_assignment">
  <Items>
    <ap233:Document ref="id-doc88800020" xsi:nil="true" />
    <ap233:Document_version ref="id-docver88800020" xsi:nil="true" />
    <ap233:Document_definition ref="id-docdef88800020" xsi:nil="true" />
  </Items>
  <Assigned_class>
    <ap233:External_class ref="id-SYSTEM-EVOLUTION-DESCRIPTION"
xsi:nil="true" />
  </Assigned_class>
</ap233:Classification_assignment>

<ap233:Document id="id-doc88800025" />

<ap233:Identification_assignment id="id-doc88800025-idassign">
  <Identifier>88800025</Identifier>
  <Items>
    <ap233:Document ref="id-doc88800025" xsi:nil="true" />
  </Items>
</ap233:Identification_assignment>

<ap233:Classification_assignment
id="id-doc88800025-idassign-classification_assignment">
  <Items>
    <ap233:Identification_assignment ref="id-doc88800025-idassign"
xsi:nil="true" />
  </Items>
  <Assigned_class>
    <ap233:External_class ref="id-Document_identification_code"
xsi:nil="true" />

```

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```
</Assigned_class>
</ap233:Classification_assignment>

<ap233:Document_version id="id-docver88800025">
  <Of_product>
    <ap233:Document ref="id-doc88800025" xsi:nil="true" />
  </Of_product>
</ap233:Document_version>

<ap233:Document_definition id="id-docdef88800025">
  <Defined_version>
    <ap233:Document_version ref="id-docver88800025" xsi:nil="true" />
  </Defined_version>
  <Initial_context>
    <ap233:View_definition_context ref="id-ov7" xsi:nil="true" />
  </Initial_context>
</ap233:Document_definition>

<ap233:Classification_assignment
id="id-docall88800025-classification_assignment">
  <Items>
    <ap233:Document ref="id-doc88800025" xsi:nil="true" />
    <ap233:Document_version ref="id-docver88800025" xsi:nil="true" />
    <ap233:Document_definition ref="id-docdef88800025" xsi:nil="true" />
  </Items>
  <Assigned_class>
    <ap233:External_class ref="id-SYSTEM-MIGRATION-EVOLUTION"
xsi:nil="true" />
  </Assigned_class>
</ap233:Classification_assignment>
```

6.4. Example Time_interval

```
<ap233:Time_interval id="id-time2007" >
  <Id>2007</Id>
  <Name>2007 calendar year</Name>
</ap233:Time_interval>

<ap233:Time_interval_assignment>
  <Assigned_time_interval>
    <ap233:Time_interval ref="id-time2007" xsi:nil="true" />
  </Assigned_time_interval>
  <Items>
    <ap233:Document ref="id-doc88800020" xsi:nil="true" />
  </Items>
</ap233:Time_interval_assignment>

<ap233:Time_interval_assignment>
  <Assigned_time_interval>
    <ap233:Time_interval_with_bounds ref="id-time2007h2" xsi:nil="true" />
  </Assigned_time_interval>
  <Items>
    <ap233:Document ref="id-doc99001" xsi:nil="true" />
  </Items>
```

```
</Items>
</ap233:Time_interval_assignment>

<ap233:Time_interval_with_bounds id="id-time2007h2">
  <Id>2H2007</Id>
  <Name>Second half 2007 calendar year</Name>
  <Primary_bound>
    <ap233:Calendar_date ref="id-20070701" xsi:nil="true" />
  </Primary_bound>
  <Secondary_bound>
    <ap233:Calendar_date ref="id-20071231" xsi:nil="true" />
  </Secondary_bound>
</ap233:Time_interval_with_bounds>

<ap233:Calendar_date id="id-20070701">
  <Year_component>2007</Year_component>
  <Month_component>07</Month_component>
  <Day_component>01</Day_component>
</ap233:Calendar_date>

<ap233:Calendar_date id="id-20071231">
  <Year_component>2007</Year_component>
  <Month_component>12</Month_component>
  <Day_component>31</Day_component>
</ap233:Calendar_date>
```