

Common data model for the S-Series ILS Specifications

SX002D-B6865-0X000-00

Issue No. 1.0



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SX002D-A-00-00-0000-00A-001A-A

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The language to be used in the arbitral proceedings shall be English.

Chapter 1

Introduction to the specification

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Chapter 1.1

Purpose

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Chap No./Document No.	Title
SX001G	Glossary for the S-Series ILS specifications
S1000D	International specification for technical publications using a common source database
SX000i	International guide for the use of the S-Series of Integrated Logistics Support (ILS) specifications

1 General

This chapter gives a basic overview of the SX002D purpose including the history of the development.

2 Purpose

The SX002D Common Data Model (CDM) for the S-Series ILS Specifications is a conceptual description of all data elements common to more than one S-Series ILS Specification. Data defined as part of one S-Series ILS Specification which are neither used by another spec nor matches any feedback data, can be excluded.

The purpose of SX002D is to harmonize data modeling activities that are performed within the respective S-Series ILS Specification, and to consolidate data requirements into one coherent S-Series data model, using UML.

SX002D represents the harmonized end-state common terminology/model for all S-Series ILS Specifications, not the current individual terminology/models used in the respective S-Series ILS Specification. The aim is to have the S-Series ILS Specifications adopt the harmonized CDM terminology/model in future issues.

3 Background

The international aerospace and defense community has over the past 20 years invested considerable effort to develop specifications in the field of ILS. The work was accomplished by integrated working groups composed of industry and customer organizations in a collaborative environment. Working group participants included representatives from national ministries and departments of defense from Europe and the United States. Aerospace and defense associations provided guidance and supported the work as required. The structure and functional coverage of these specifications was largely determined by North Atlantic Treaty Organization (NATO) requirements specified during an international workshop in Paris in 1993.

Beginning in 2003, the relationships between supporting industry organizations were formalized through a series of Memorandums of Understanding (MOU). Initially AIA and ASD signed an MOU to jointly develop and maintain S1000D, International specification for technical publications utilizing a common source database. In 2007, AIA, ASD and the Air Transport Association of America (ATA) signed a new MOU expanding S1000D development and maintenance to cover commercial aviation.

Most recently in 2010, AIA and ASD signed an MOU “to promote a common, interoperable, international Suite of Integrated Logistics Support (ILS) Specifications” and jointly develop the ASD Suite of ILS Specifications.

The 2010 ASD/AIA MOU authorized the formation of an ILS Specifications Council. The Council's tasks include performing liaison between AIA and ASD; developing and maintaining the ASD Suite of ILS specifications; administering joint meetings; and identifying additional areas of harmonization.

The need for a consolidated and harmonized data model was recognized as a fundamental requirement for the suite of S-Series ILS Specifications. The creation and maintenance of the common data model and its associated glossary (SX001G) was assigned to the Data Modeling and Exchange Working Group (DMEWG). As the common data model is a consolidation of concepts across the set of S-Series ILS Specifications, the common data model is numbered SX002D to align it with SX000i, International guide for the use of the S-Series Integrated Logistics Support (ILS) specifications.

Chapter 1.2

Scope

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S1000D	International specification for technical publications using a common source database
S1003X	S1000D to S3000L interchange specification
S2000M	International procedure specification for Logistics Support Analysis (LSA)
S3000L	International procedure specification for Logistics Support Analysis (LSA)
S4000P	International specification for developing and continuously improving preventive maintenance
S5000F	International specification for operational and maintenance data feedback
S6000T	Training and performance and analysis and design
SX000i	International Guide for the Use of the S-Series Integrated Logistics Support (ILS) Specifications
SX001G	Glossary for the S-Series ILS specifications
SX003X	Compatibility matrix for the S-Series ILS Specifications
SX004G	UML model readers guidance

1 Scope

The specification SX002D is designed to harmonize data modeling activities performed within the respective S-Series ILS Specification, and to consolidate data requirements into one coherent S-Series data model, using UML.

2 Specifications

Multiple ASD/AIA ILS specifications are currently available or in the process of development, including:

S1000D, International specification for technical publications using a common source database,

S2000M, International specification for materiel management - Integrated data processing for military equipment,

S3000L, International procedure specification for Logistics Support Analysis (LSA)

S4000P, International specification for developing and continuously improving preventive maintenance

S5000F, International specification for operational and maintenance data feedback

S6000T, Training and performance and analysis and design

SX000i, International Guide for the Use of the S-Series Integrated Logistics Support (ILS) Specifications

SX001G, Glossary for the S-Series ILS specifications

SX003X, Compatibility matrix for the S-Series ILS Specifications

SX004G, UML model readers guidance

The scope of SX002D is limited to areas needed to define a product, its breakdowns and allowed configurations. The detailed content is derived from S1003X Issue 1.0. Definitions for all classes and attributes defined in the SX002D common data model Issue 1.0 are published as part of SX001G, and are therefore not repeated in this specification

The SX002D Common Data Model 1.0 also includes the first published issues of S-Series Primitives and S-Series Compound Attributes.

Chapter 1.3

How to use the specification

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Table 1 References

Chap No./Document No.	Title
DMEWG-2011-005	UML Writing Rules and Style Guide

1 General

This chapter gives an overview of the organization of the specification and the fundamental reading rules.

2 Acronyms

Acronyms are included to aid understanding and to minimize duplication. Acronyms used in SX002D are only explained in this chapter. The same abbreviation is used for all tenses, the possessive case and singular and plural forms of a given word.

Acronyms used in SX002D are:

- AIA Aerospace Industries Association of America
- ASD AeroSpace and Defence Industries Association of Europe
- CDM Common Data Model
- DMEWG Data Modeling and Exchange Working Group
- ILS Integrated Logistics Support
- ISO International Organization for Standardization
- LSA Logistics Support Analysis
- MOU Memorandum of Understanding
- MSG Maintenance Steering Group
- NATO North Atlantic Treaty Organization
- NCAGE NATO Commercial and Governmental Entity
- OASIS Organization for the Advancement of Structured Information Standards

- PLCS Product Life Cycle Support
- UML Unified Modeling Language
- UoF Unit of Functionality

3 Organization of the specification

3.1 Chapter 1 - Introduction to the specification

[Chap 1](#) provides a summarized view on purpose, background, scope and maintenance of SX002D.

3.2 Chapter 2 - Common Data Model

[Chap 2](#) defines the common data model using Unified Modeling Language (UML) class models (DMEWG-2011-005). [Chap 2](#) is subdivided into separate chapters for each primitive, compound attribute and business oriented Unit of Functionality (UoF), respectively. Each chapter contains one or many illustrations, including the UML model for the UoF under consideration.

[Chap 2](#) starts with defining the S-Series primitives and compound attributes which are used as basic data types throughout the data model.

It then lists the UoFs in alphabetical order for easy referencing from other specifications. The respective specification that builds on the common data model may present the UoFs in a different order based on business process.

For readers that want to look at the common data model as a stand-alone data model, the suggested order of reading the UoFs is:

- UoF Product..... SX002D-A-02-14-0000-00A-040A-A
- UoF Breakdown Structure..... SX002D-A-02-10-0000-00A-040A-A
- UoF Part Definition.....SX002D-A-02-13-0000-00A-040A-A
- UoF Hardware Element.....SX002D-A-02-12-0000-00A-040A-A
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- UoF Aggregated Element..... SX002D-A-02-08-0000-00A-040A-A
- UoF Zone Element..... SX002D-A-02-18-0000-00A-040A-A
- UoF Product Design Configuration..... SX002D-A-02-15-0000-00A-040A-A
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- UoF Security Classification..... SX002D-A-02-16-0000-00A-040A-A
- UoF Applicability Statement..... SX002D-A-02-09-0000-00A-040A-A

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Maintenance of the specification

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Chap No./Document No.	Title
SX000i	International guide for the use of the S-Series Integrated Logistics Support (ILS) specifications

1 Maintenance of the specification

SX002D is maintained by the Data Modeling and Exchange Working Group (DMEWG) operating under the supervision of the ILS Specifications Council. Both the DMEWG and the ILS Specifications Council include representatives from AIA and ASD member companies and nations.

Technical issues related to SX002D may be raised using the issue form found at SX000i Appendix I and at www.sx000i.org/CPF. Technical issues may become in due course a Change Request. Technical issues and change requests should be submitted with the understanding that any revisions to SX002D may affect the other specifications in the ASD/AIA Suite of ILS Specifications, and that proposed changes are subject to international agreement among AIA and ASD member companies and nations.

Upon receipt of a change request, the DMEWG will follow the change management process described in SX000i Chapter 4, to include obtaining agreement from the participating organizations prior to the publication of changes. The DMEWG considers change proposals at each meeting and may ratify them for incorporation in the specification. The DMEWG also decides when changes will be published in SX002D.

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Common Data Model

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Chapter 2.1

S-Series Primitives - ClassificationType

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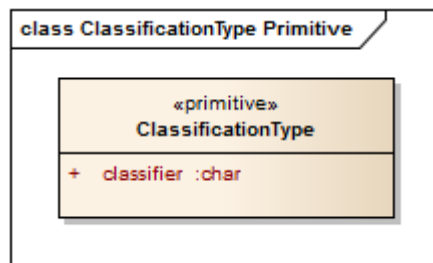
Chap No./Document No.	Title
None	

1 S-Series Primitives - ClassificationType

1.1 Definition

The ClassificationType primitive provides the capability to define that an attribute in the data model represents terms (classes) that are used for classification. Refer to [Fig 1](#).

1.2 UML Class Model



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Fig 1 S-Series Primitive Classification Type - UML Class Model

Chapter 2.2

S-Series Primitives - DateTimeType

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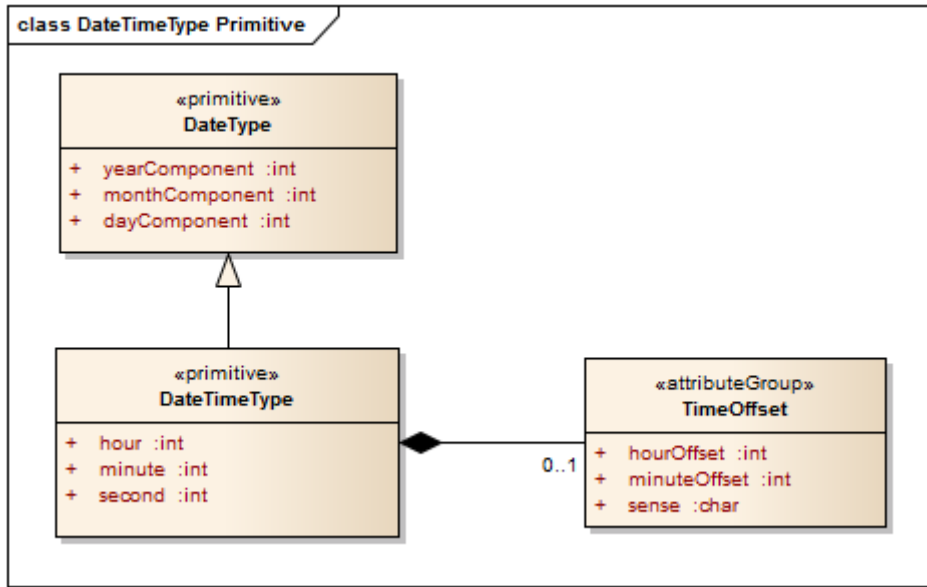
Chap No./Document No.	Title
None	

1 S-Series Primitives - DateTimeType

1.1 Definition

The DateTimeType primitive provides the capability to define that an attribute in the data model represents a calendar date, possibly along with the time. Refer to [Fig 1](#).

1.2 UML Class Model



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Fig 1 S-Series Primitive DateTimeType - UML Class Model

Chapter 2.3

S-Series Primitives - DescriptorType

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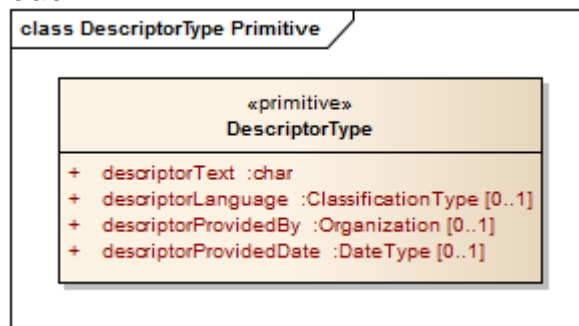
Chap No./Document No.	Title
None	

1 S-Series Primitives - DescriptorType

1.1 Definition

The DescriptorType primitive provides the capability to define that an attribute in the data model represents any form of textual description (free form). Refer to [Fig 1](#).

1.2 UML Class Model



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Fig 1 S-Series Primitive DescriptorType - UML Class Model

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S-Series Primitives - IdentifierType

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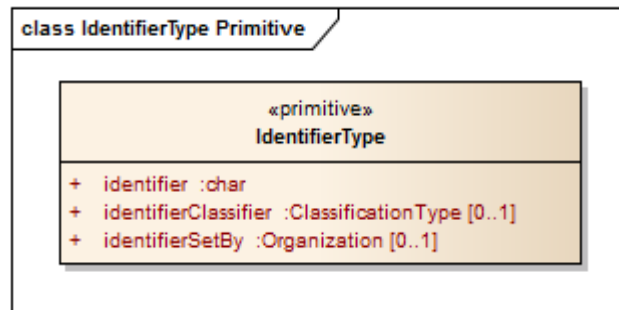
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1 S-Series Primitives - IdentifierType

1.1 Definition

The IdentifierType primitive provides the capability to represent any form of identifier. Refer to [Fig 1](#).

1.2 UML Class Model



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Fig 1 S-Series Primitive IdentifierType - UML Class Model

Chapter 2.5

S-Series Primitives - Organization

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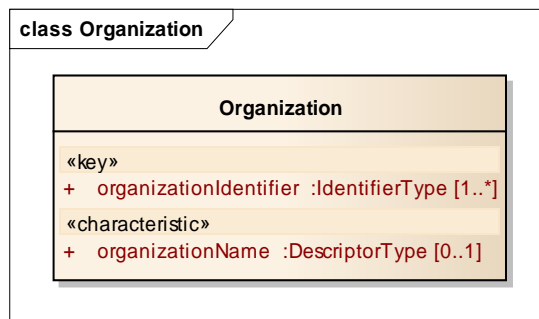
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None	

1 S-Series Primitives - Organization

1.1 Definition

The Organization primitive provides the capability to define that an attribute in the data model refers to an Organization. Refer to [Fig 1](#).

1.2 UML Class Model



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Fig 1 S-Series Primitive Organization - UML Class Model

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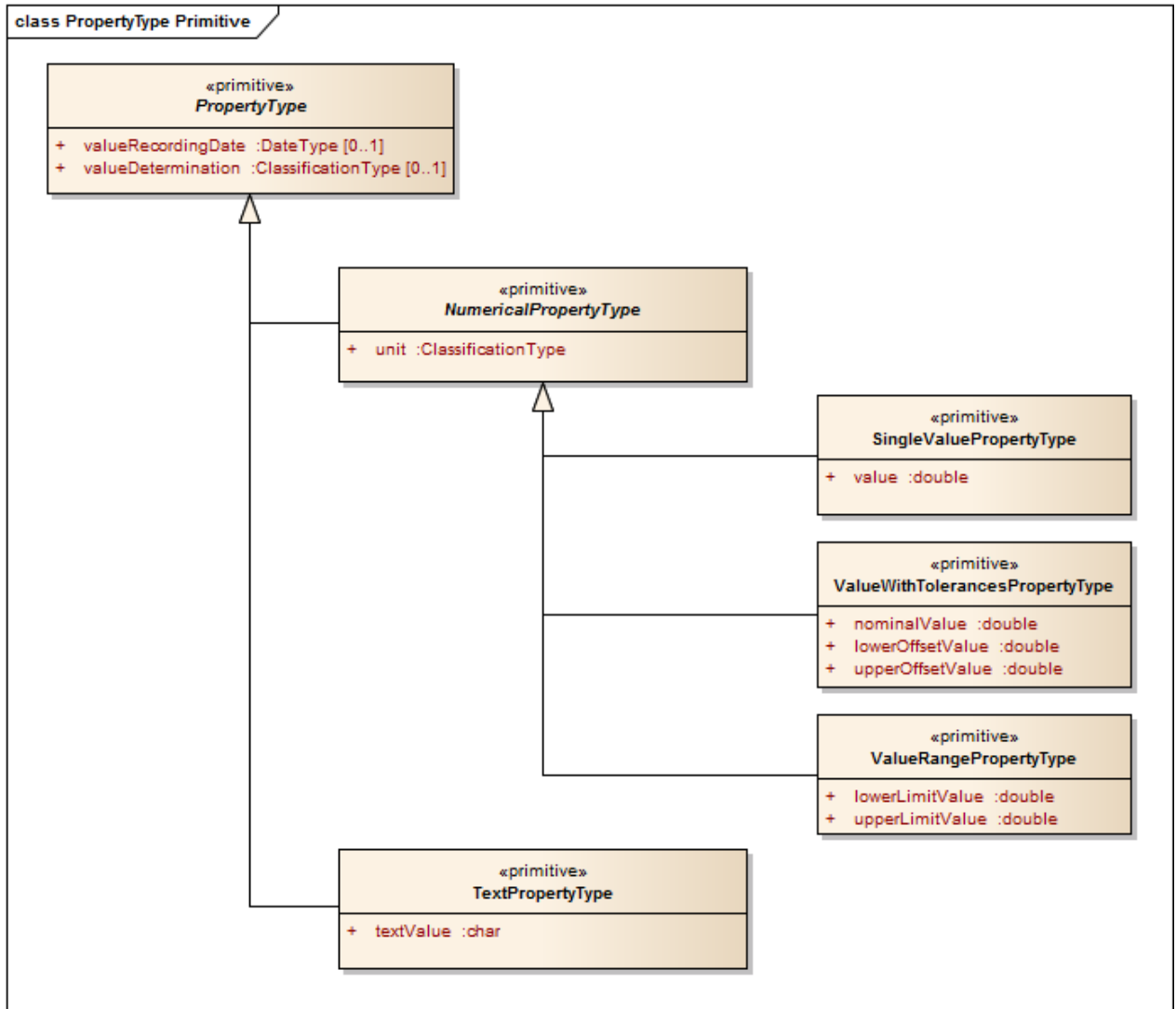
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1 S-Series Primitives - PropertyType

1.1 Definition

The PropertyType primitive provides the capability to define that an attribute in the data model represents a measurable characteristics. Refer to [Fig 1](#).

1.2 UML Class Model



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Fig 1 S-Series Primitive PropertyType - UML Class Model

Chapter 2.7

S-Series - Compound Attributes

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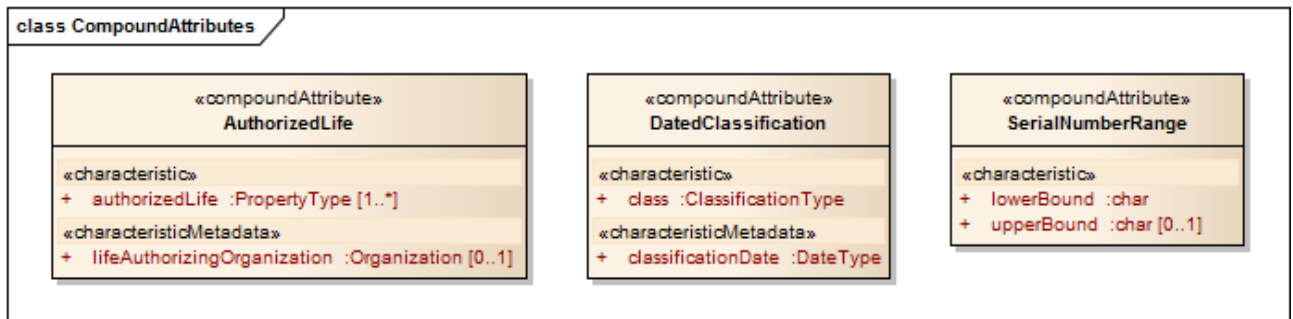
Chap No./Document No.	Title
None	

1 S-Series - Compound Attributes

1.1 Definition

S-Series compound attributes defines groups of attributes which are interrelated. Compound attribute enforces consistent representation of multi-valued attributes. Refer to [Fig 1](#).

1.2 UML Class Model



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Fig 1 S-Series Compound Attributes - UML Class Model

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References

Table 1 References

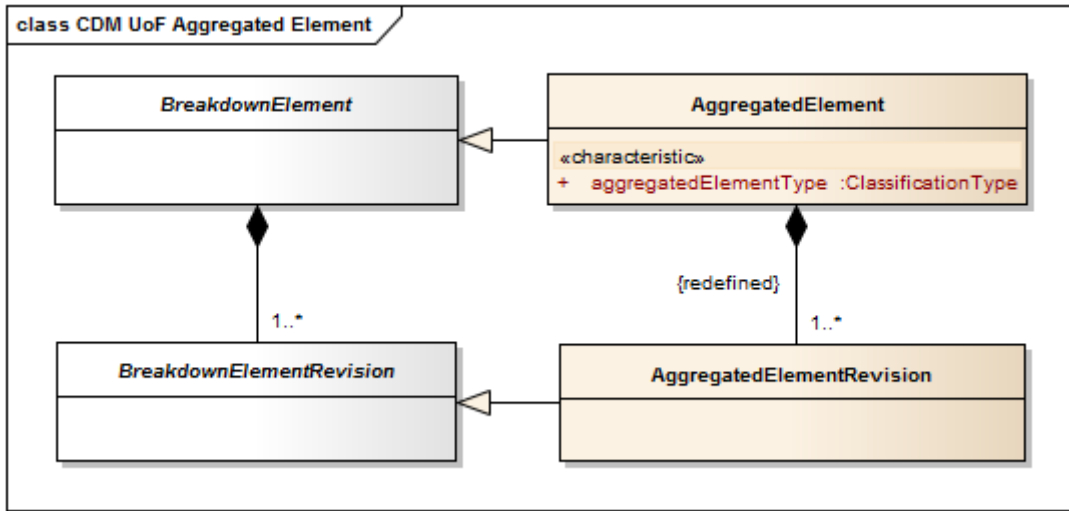
Chap No./Document No.	Title
None	

1 UoF - Aggregated Element

1.1 Definition

Aggregated Element UoF provides the capability to specify that an element within a breakdown represents a collection of elements for an identified purpose. Refer to [Fig 1](#).

1.2 UML Class Model



ICN -B6865-SX002D0004-001-00

Fig 1 UoF Aggregated Element - UML Class Model

Chapter 2.9

UoF - Applicability Statement

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Table 1 References

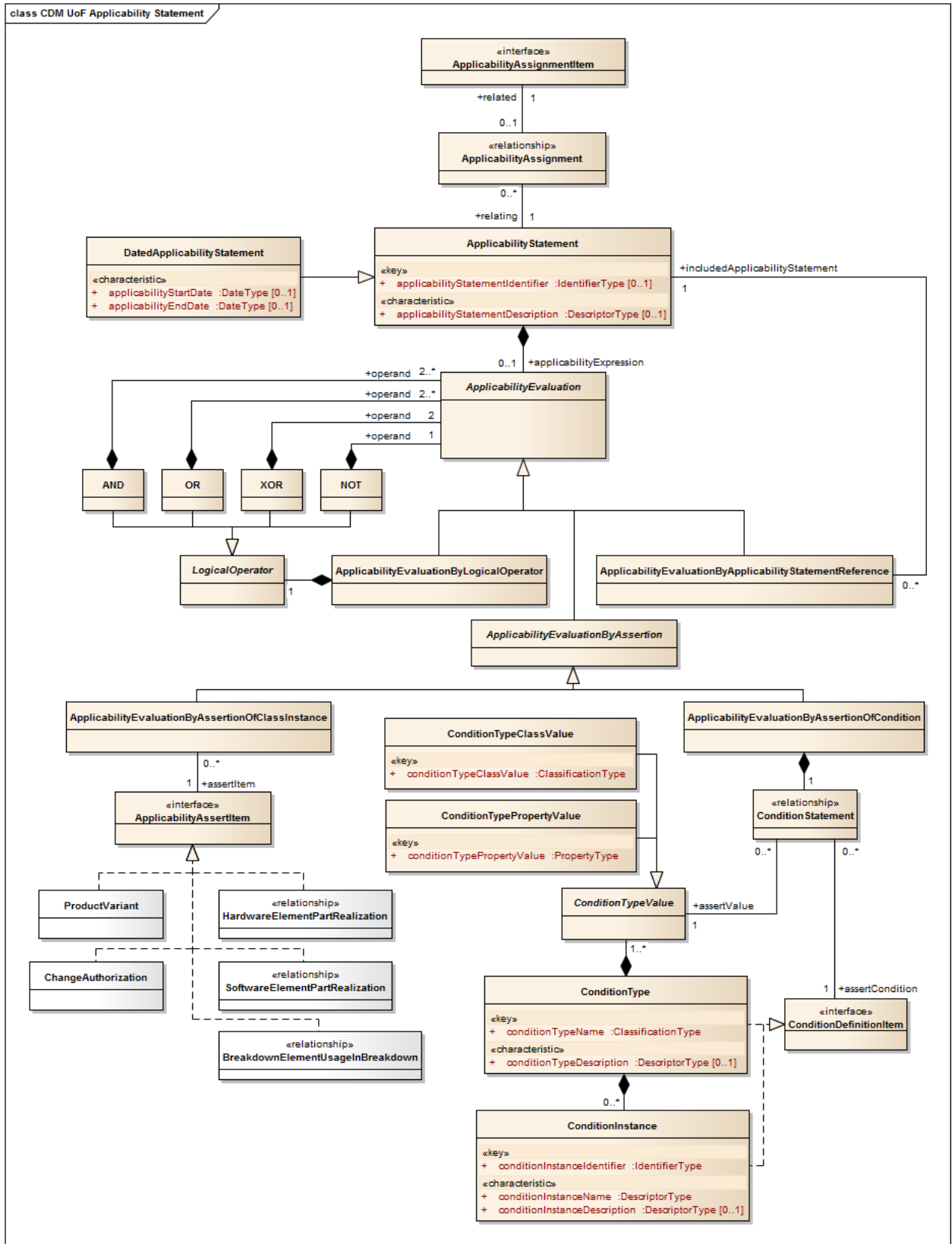
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1 UoF - Applicability Statement

1.1 Definition

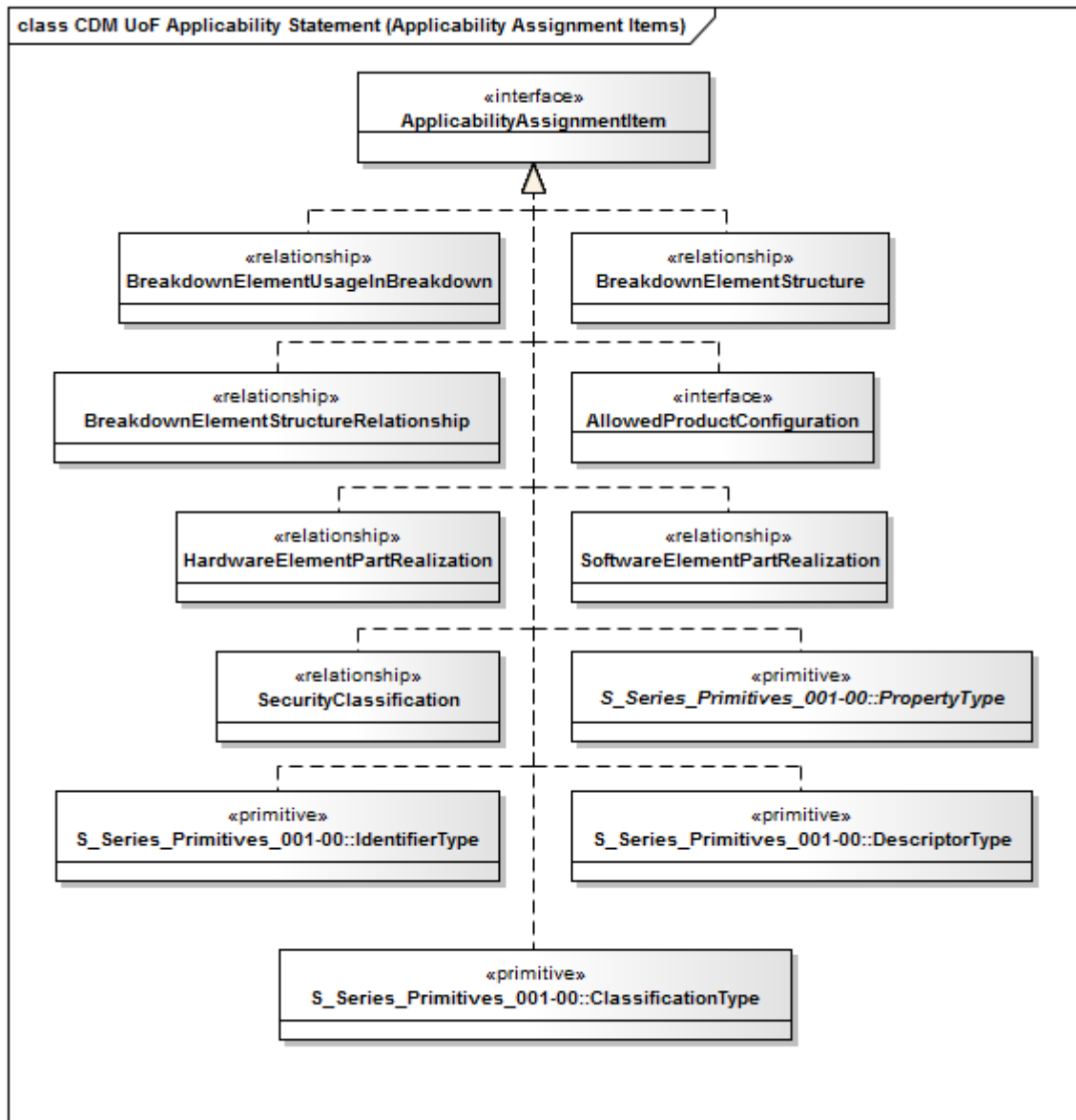
Applicability Statement UoF provides the capability to define the situation or situations under which related items are valid. Refer to [Fig 1](#).

1.2 UML Class Model



ICN -B6865-SX002D0011-001-00

Fig 1 UoF Applicability Statement - UML Class Model



ICN -B6865-SX002D0019-001-00

Fig 2 UoF Applicability Statement - Applicability Assignment Items - UML Class Model

Chapter 2.10

UoF - Breakdown Structure

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1 UoF - Breakdown Structure

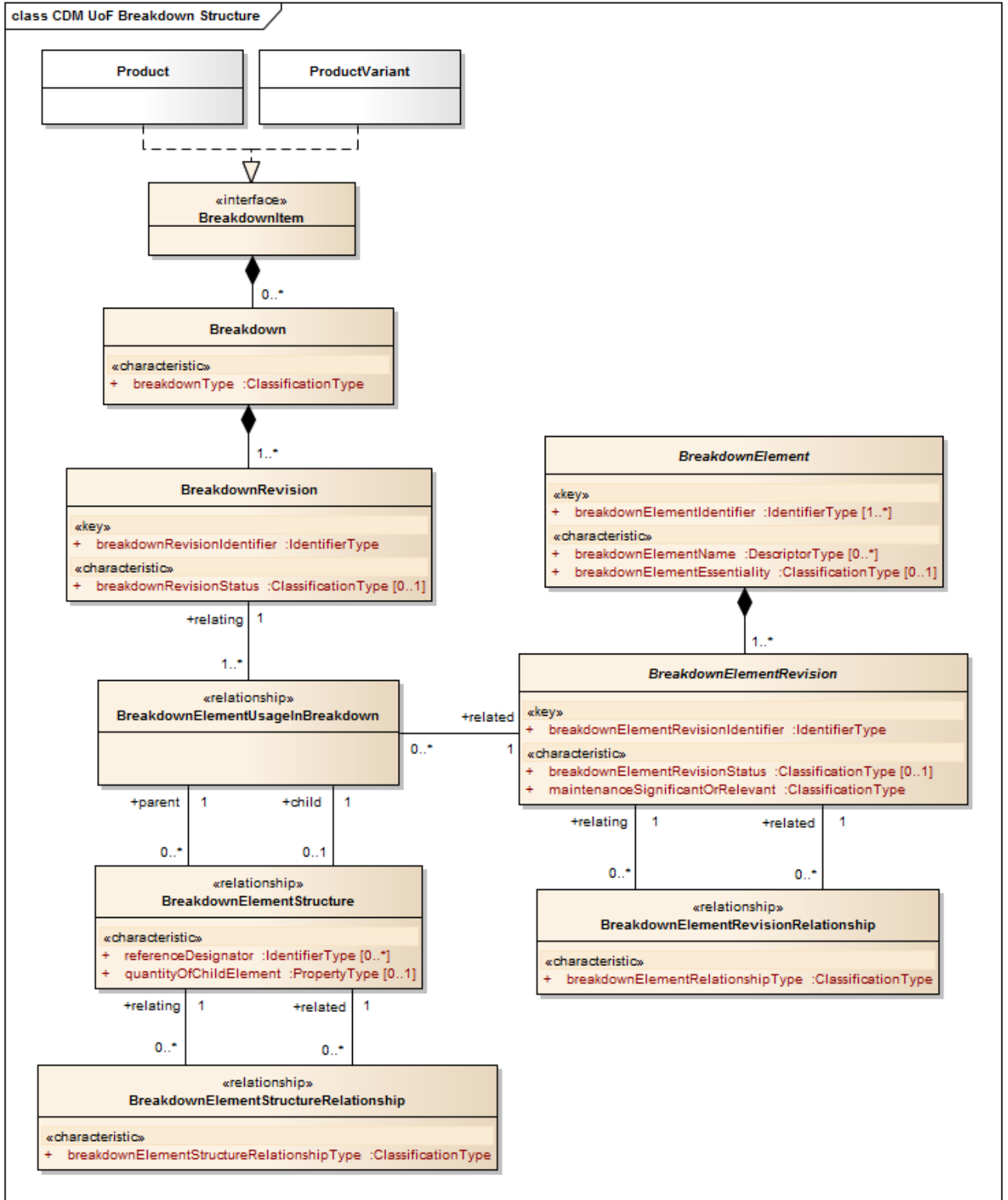
1.1 Definition

Breakdown Structure UoF provides the capability to define any number of hierarchical structures for a specific product or product variant. Refer to [Fig 1](#)

Note

Each product may have one or more breakdowns defined at the product level or the product variant level, but never at both levels.

1.2 UML Class Model



ICN -B6865-SX002D0002-001-00

Fig 1 UoF Breakdown Structure - UML Class Model

Chapter 2.11

UoF - Change Information

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Table 1 References

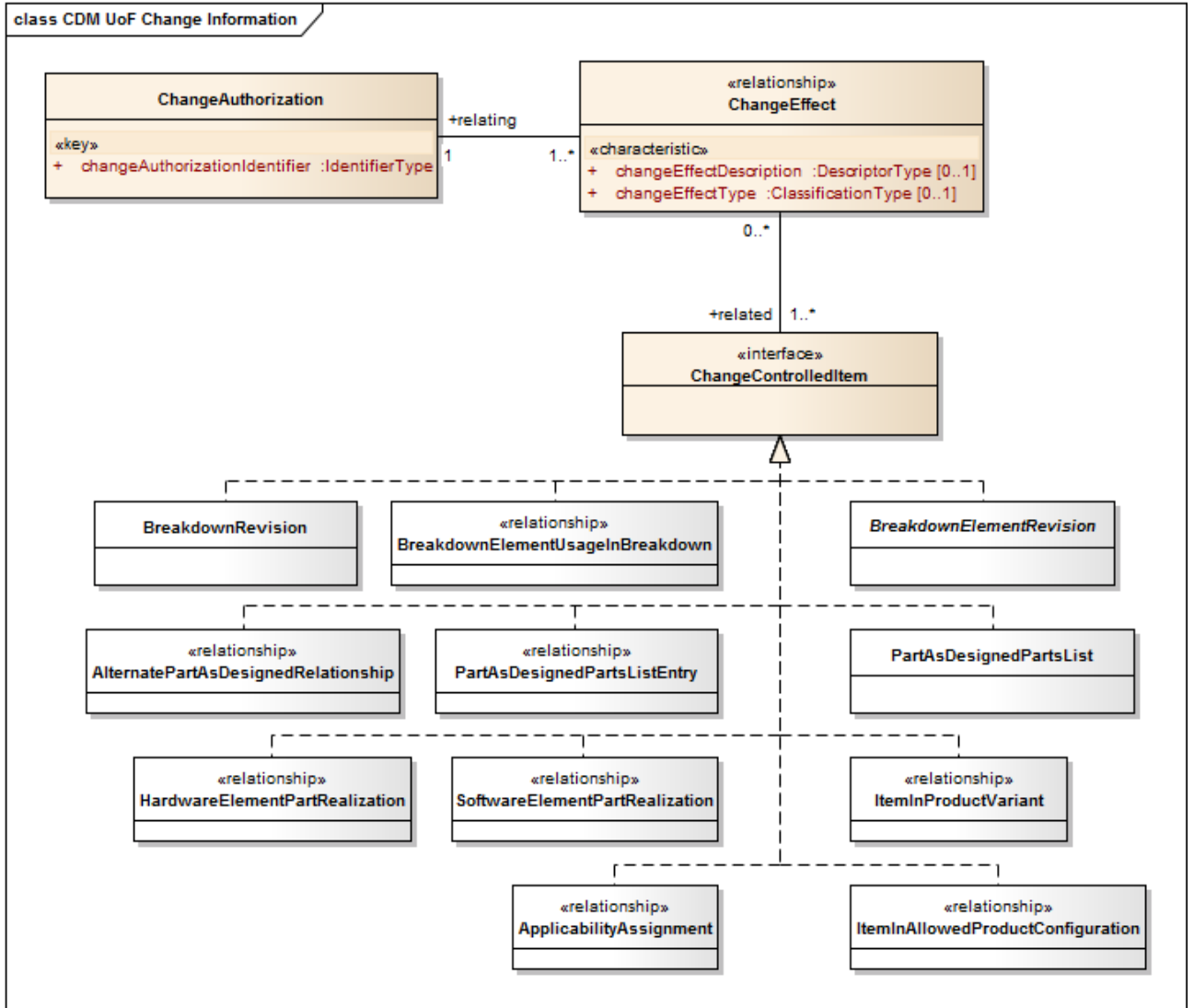
Chap No./Document No.	Title
None	

1 UoF - Change Information

1.1 Definition

Change Information UoF provides the capability to identify the items that have been affected by a change authorization. Refer to [Fig 1](#).

1.2 UML Class Model



ICN -B6865-SX002D0009-001-00

Fig 1 UoF Change Information - UML Class Model

Chapter 2.12

UoF - Hardware Element

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References

Table 1 References

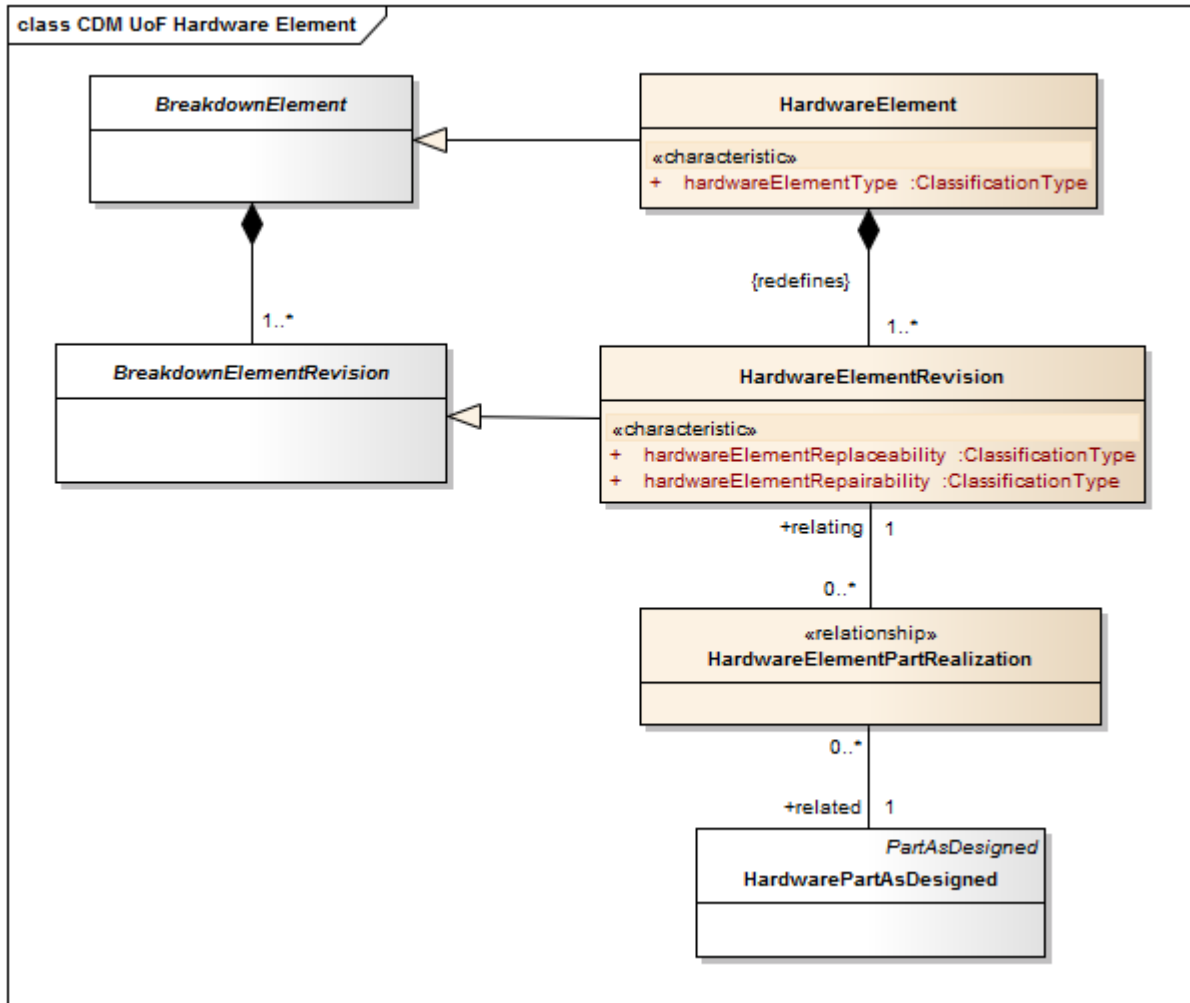
Chap No./Document No.	Title
None	

1 UoF - Hardware Element

1.1 Definition

Hardware Element UoF provides the capability to specify that an element within a breakdown is hardware and can be associated with the hardware part(s) that fulfill the requirement. Refer to [Fig 1](#).

1.2 UML Class Model



ICN -B6865-SX002D0005-001-00

Fig 1 UoF Hardware Element - UML Class Model

Chapter 2.13

UoF - Part Definition

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1 UoF - Part Definition

1.1 Definition

Part Definition UoF provides the capability of defining hardware and software parts, their characteristics, and associated parts lists. Refer to [Fig 1](#).

Chapter 2.14

UoF - Product

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Table 1 References

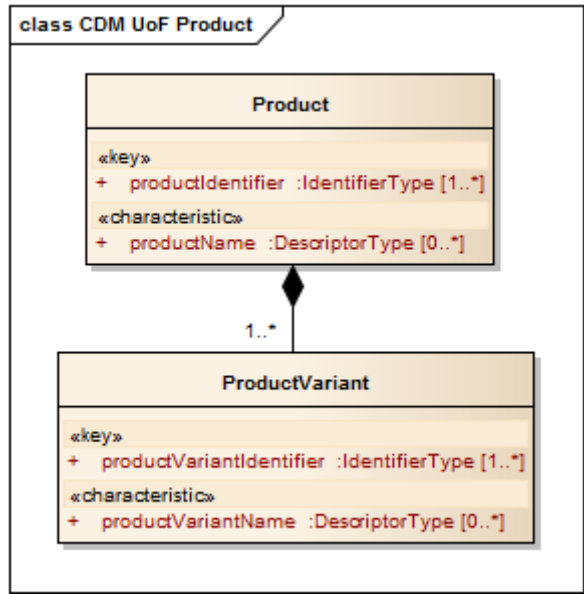
Chap No./Document No.	Title
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1 UoF - Product

1.1 Definition

Product UoF defines the product(s) which are in focus for the ILS program. Refer to [Fig 1](#).

1.2 UML Class Model



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Fig 1 UoF Product - UML Class Model

Chapter 2.15

UoF - Product Design Configuration

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Table 1 References

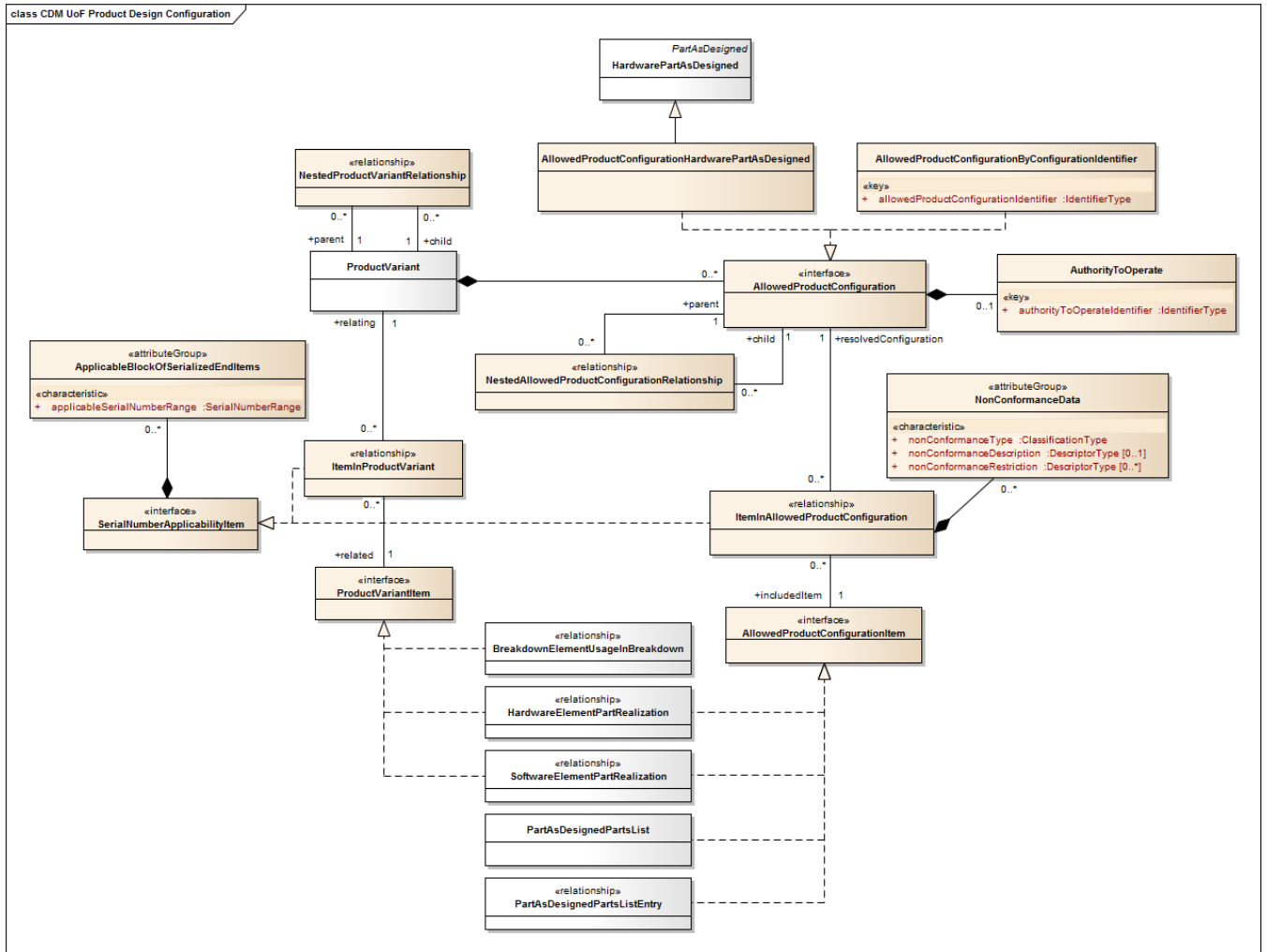
Chap No./Document No.	Title
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1 UoF - Product Design Configuration

1.1 Definition

Product Design Configuration UoF defines permitted combinations of breakdown elements, hardware and software, in the context of product variants and allowed product configurations. Refer to [Fig 1](#).

1.2 UML Class Model



ICN -B6865-SX002D0008-001-00

Fig 1 UoF Product Design Configuration - UML Class Model

Chapter 2.16

UoF - Security Classification

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Table 1 References

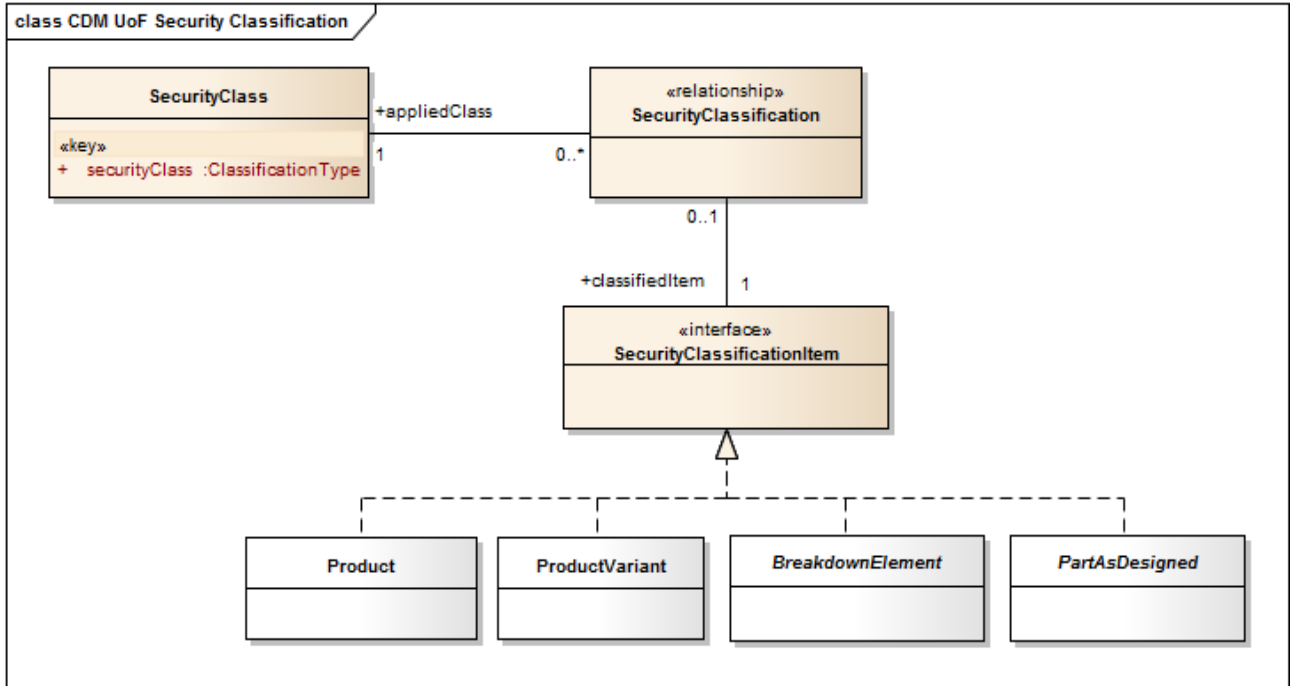
Chap No./Document No.	Title
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1 UoF - Security Classification

1.1 Definition

Security Classification UoF provides the capability to assign security classifications to objects that need special handling for protection against unauthorized access or distribution. Refer to [Fig 1](#).

1.2 UML Class Model



ICN -B6865-SX002D0010-001-00

Fig 1 UoF Security Classification - UML Class Model

Chapter 2.17

UoF - Software Element

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Table 1 References

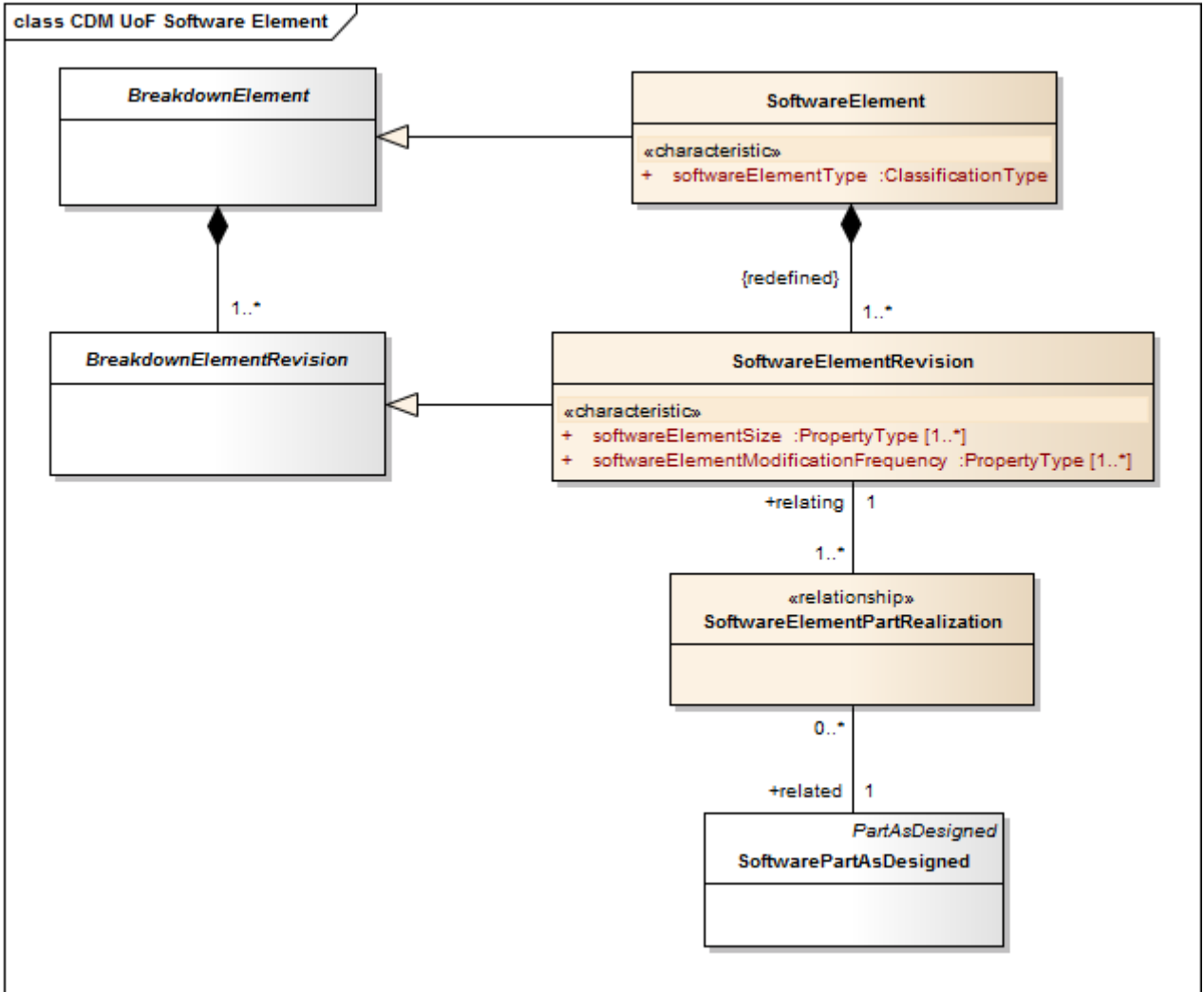
Chap No./Document No.	Title
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1 UoF - Software Element

1.1 Definition

Software Element UoF provides the capability to specify that an element within a breakdown is software and can be associated with the software part(s) that fulfill the requirement. Refer to [Fig 1](#).

1.2 UML Class Model



ICN -B6865-SX002D0006-001-00

Fig 1 UoF Software Element - UML Class Model

Chapter 2.18

UoF - Zone Element

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Table 1 References

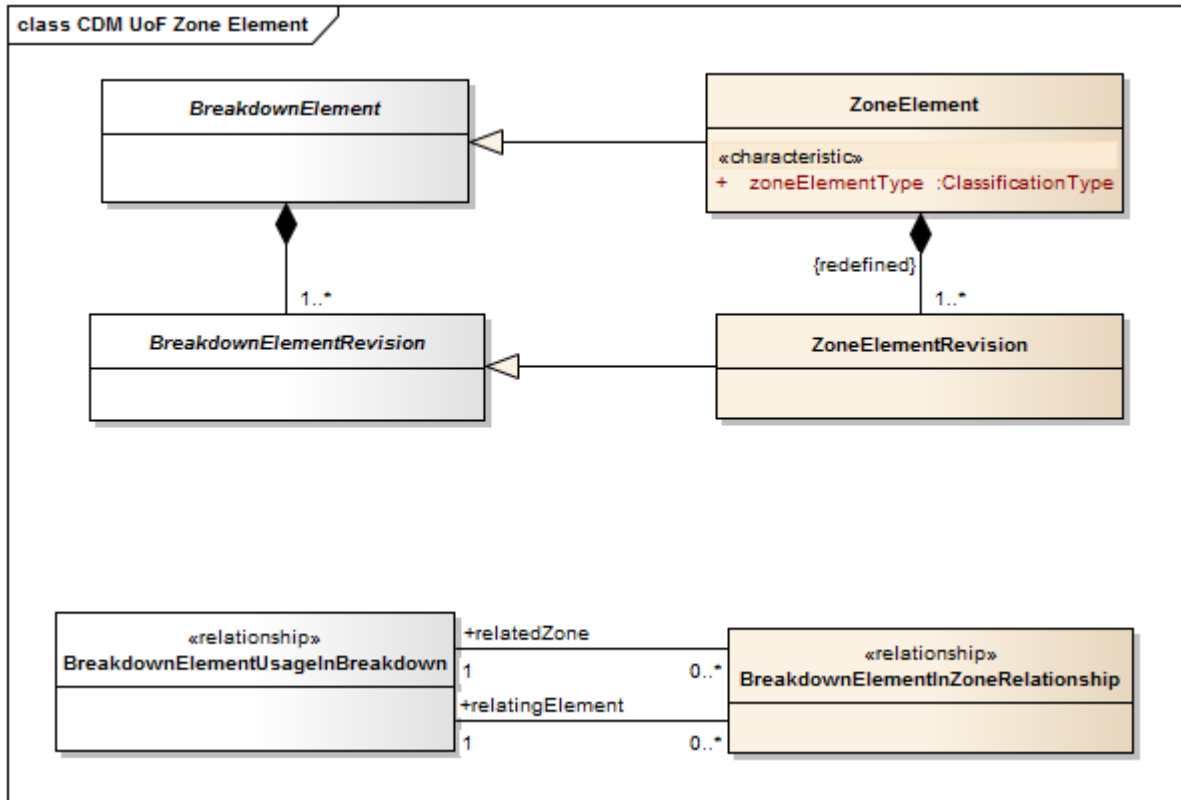
Chap No./Document No.	Title
None	

1 UoF - Zone Element

1.1 Definition

Zone Element UoF provides the capability to specify that an element within a breakdown is a zone. Refer to [Fig 1](#).

1.2 UML Class Model



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Fig 1 UoF Zone Element - UML Class Model