Glossary for the S-Series ILS specifications

SX001G-B6865-0X001-00

Issue No. 1.0

Publishers:

AeroSpace and Defence Industries Association of Europe

Aerospace Industries Association of America

Highlights

The following tables summarize the changes that brought about changes to the chapters highlighted. Table 1 lists changes that are common to many chapters.

List of tables

Table 1 General

CPF	Summary of changes
N/A	Initial issue

Table 2 Front Matter

Chap No	Summary of changes
N/A	Initial issue

Table 3 Chap 1

Chap No	Summary of changes
N/A	Initial issue

Table 4 Chap 2

Chap No	Summary of changes
N/A	Initial issue

Table of contents

The listed documents are included in Issue 1.0, dated 2014-12-01, of this publication.

Chapter	Data module title	Data module code	Applic
Chap 2.24	Glossary - X	SX001G-A-02-24-0000-00A-040A-A	All
Chap 2.25	Glossary - Y	SX001G-A-02-25-0000-00A-040A-A	All
Chap 2.26	Glossary - Z	SX001G-A-02-26-0000-00A-040A-A	All
Chap 2.27	Glossary - 0-9	SX001G-A-02-27-0000-00A-040A-A	All

Copyright and user agreement

1 Copyright

All correspondence and queries should be directed to:

ASD
10 Rue Montoyer
B-1000 Brussels
Belgium

2 Agreement for use of the specification SX001G™ suite of information

2.1 Definitions

SX001G™ suite of information means, but is not limited to:

- the Glossary for the S-Series ILS specifications – SX001G
- examples (eg, XML instances, pdf files, style sheets) and schemas
- any other software or information under the heading "**SX001G™ suite of information**", available for download from www.sX000i.org

Copyright holder means AeroSpace and Defense Industries Association of Europe (ASD).

2.2 Notice to user

By using all or any portion of **SX001G™ suite of information** you accept the terms and conditions of this user agreement.

This user agreement is enforceable against you and any legal entity that has obtained **SX0001G™ suite of information** or any portion thereof and on whose behalf it is used.

2.3 License to use

As long as you comply with the terms of this user agreement, the copyright holders grant to you a non-exclusive license to use **SX001G™ suite of information**.

2.4 Intellectual property rights

SX001G™ suite of information is the intellectual property of and is owned by the copyright holder. Except as expressly stated herein, this user agreement does not grant you any intellectual property right in the **SX001G™ suite of information** and all rights not expressly granted are reserved by the copyright holder.

2.5 No modifications

You must not modify, adapt or translate, in whole or in part, **SX001G™ suite of information**.

2.6 No warranty

SX001G™ suite of information is being delivered to you "as is". The copyright holder does not warrant the performance or result you may obtain by using **SX001G™ suite of information**. The copyright holder makes no warranties, representations or indemnities, express or implied, whether by statute, common law, custom, usage or otherwise as to any matter including without limitation merchantability, integration, satisfactory quality, fitness for any particular purpose, or non-infringement of third parties rights.

2.7 Limitation of liability

In no event will the copyright holder be liable to you for any damages, claims or costs whatsoever or any consequential, indirect or incidental damages, or any lost profits or lost savings or for any claim by a third party, even if the copyright holder has been advised of the possibility of such damages, claims, costs, lost profits or lost savings.

2.8 Indemnity

You agree to defend, indemnify, and hold harmless the copyright holder and its parents and affiliates and all of their employees, agents, directors, officers, proprietors, partners, representatives, shareholders, servants, attorneys, predecessors, successors, assigns, and those who have worked on the preparation, publication or distribution of the **SX001G™ suite of information** from and against any and all claims, proceedings, damages, injuries, liabilities, losses, costs, and expenses (including reasonable attorneys' fees and litigation expenses), relating to or arising from your use of the **SX001G™ suite of information** or any breach by you of this user agreement.

2.9 Governing law and arbitration

This user agreement will be governed by and construed in accordance with the laws of the Kingdom of Belgium.

In the event of any dispute, controversy or claim arising out of or in connection with this user agreement, or the breach, termination or invalidity thereof, the parties agree to submit the matter to settlement proceedings under the ICC (International Chamber of Commerce) ADR rules. If the dispute has not been settled pursuant to the said rules within 45 days following the filing of a request for ADR or within such other period as the parties may agree in writing, such dispute shall be finally settled under the rules of arbitration of the International Chamber of Commerce by three arbitrators appointed in accordance with the said rules of arbitration. All related proceedings should be at the place of the ICC in Paris, France.

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

Chapter 1

Introduction to the specification

Table of contents

Chapter 1.1

Purpose

Table of contents

List of tables

References

Table 1 References

Chap No./Document No.	Title
None	

1 General

The SX001G Glossary for the S-Series of Integrated Logistics Support (ILS) specifications is a repository of the terms and their definitions used throughout the S-Series of ILS specifications.

2 Purpose

The purpose of SX001G is to provide a consolidated and harmonized set of terms and definitions that are used within each of the individual S-Series of ILS specifications. These include both business terms and data item terms. Business terms include concepts that are significant for understanding one or more of the S-Series of ILS specifications. Data item terms correspond to the elements defined within the data models of the S-Series of ILS specifications.

3 Background

The international aerospace and defense community has over the past 20 years invested considerable effort developing specifications in the field of ILS. The work was accomplished by integrated working groups composed of industry and customer organizations in a collaborative environment. Customer organizations 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 AeroSpace and Defense Industries Association of Europe (ASD) and Aerospace Industries Association of America (AIA) signed an MOU to jointly develop and maintain S1000D, (International specification for technical publications utilizing a common source database).

In 2010, ASD and AIA signed an MOU to promote a common, interoperable, international suite of integrated logistics support specifications and jointly develop the S-Series of ILS Specifications.

The 2010 ASD/AIA MOU authorized the formation of an ILS Specifications Council. The Council's tasks include performing liaison between ASD and AIA; 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 glossary of terms and definitions was recognized as a fundamental requirement for the complete S-Series of ILS specifications. Its creation and maintenance was assigned to the Data Modeling and Exchange Working Group (DMEWG) and is numbered SX001G to align it with SX000i, (International guide for the use of the S-Series of Integrated Logistics Support (ILS) specifications).

Chapter 1.2

Scope

Table of contents

List of tables

References

Table 1 References

Chap No./Document No.	Title
S1000D	International specification for technical publications using a common source database
S2000M	International specification for material 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	International specification for training and performance analysis and design
SX000i	International Guide for the Use of the S-Series of Integrated Logistics Support (ILS) Specifications
SX002D	Common data model for the S-Series of ILS specifications
SX003X	Compatibility matrix for the S-Series of ILS Specifications
SX004G	Unified Modeling Language (UML) model readers' guidance

1 Scope

SX001G is designed to consolidate all terms and definitions used throughout the S-Series of Integrated Logistics Support (ILS) specifications into a single glossary. The glossary includes both business terms and data item terms. Business terms include concepts that are significant for understanding one or more of the S-Series ILS specifications. Data item terms correspond to elements defined within the data models of the S-Series ILS specifications.

The scope of Issue 1.0 of SX001G is limited to the terms and definitions of the data items defined in SX002D Common data model for the S-Series ILS specifications.

2 S-Series of ILS Specifications

Multiple AeroSpace and Defense Industries Association of Europe (ASD) and Aerospace Industries Association of America (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 material 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, *International specification for training and performance analysis and design*

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

SX002D*, Common data model for the S-Series of ILS specifications*

SX003X*, Compatibility matrix for the S-Series of ILS Specifications*

SX004G*, Unified Modeling Language (UML) model readers' guidance*

Chapter 1.3

How to use the specification

Table of contents

List of tables

References

Table 1 References

Chap No./Document No.	Title
SX002D	Common data model for the S-Series of ILS specifications
SX004G	Unified Modeling Language (UML) model readers' guidance

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. They are included along with the terms and definitions used in this specification and are ordered alphabetically based on the acronym. The same acronym is used for all tenses, the possessive case and singular and plural forms of a given word or term.

3 Organization of the specification

3.1 Chapter 1 - Introduction to the specification

Chap 1 provides a summarized view on purpose, background and scope of SX001G.

3.2 Chapter 2 - Glossary

Chap 2 provides the Glossary terms and definitions. Chap 2 is subdivided into a separate subchapter for each letter of the alphabet and one for numbers. The text of Chap 2 includes a

Table of Contents with a link to the alphabetized subchapters, providing a convenient way to locate a specific term.

Each term entry consists of mandatory and optional components.

3.2.1 Term (Mandatory)

The name of the business term, class definition, element, attribute, or acronym that is being defined.

Terms coming from the S-Series ILS specifications data models conform to the camel case naming convention of writing compound words or phrases such that each next word begins with a capital letter. The S-Series ILS specifications convention is to capitalize the first letter for class names (example: UpperCamelCase) and to use a lower case first letter for attribute names (example: lowerCamelCase). Refer to SX004G.

3.2.2 Definition (Mandatory)

A formal statement explaining the meaning or concept of a term. Definitions are intended to be definite, distinct, and clear.

The standard pattern for definitions in SX001G consists of the following parts:

- the term (word or phrase) to be defined
- the class of object or concept to which the term belongs
- the differentiating characteristics that distinguish it from all others of its class

Exceptions to this pattern are where the source of the definition comes from another specification that does not apply the same definition writing rules.

3.2.3 Type (Mandatory)

The type is a classification of the term into categories intended to provide context of the term to the reader.

The majority of the terms in SX001G are either Unified Modeling Language (UML) types or classes and attributes of the SX002D Common Data Model (CDM). Term types coming from the CDM will have a “CDM” prefix, term types coming from UML will have a “UML” prefix. See SX004G for details on the CDM and UML types.

Types within the SX001G Glossary are:

- Acronym - a word formed from the initial letter or letters of each of the successive parts or major parts of a compound term
- CDM AuthorizedLife
- CDM ClassificationType
- CDM DateType
- CDM DescriptorType
- CDM IdentifierType
- CDM Organization
- CDM PropertyType
- CDM SerialNumberRange
- CDM Unit of Functionality
- UML Abstract class
- UML attributeGroup stereotype
- UML char
- UML Class
- UML compoundAttribute stereotype
- UML double
- UML int

- UML interface
- UML primitive stereotype
- UML relationship stereotype

See SX004G (Unified Modeling Language (UML) model readers' guidance) for details on the CDM and UML types.

3.2.4 Reference (Optional)
Links to terms used within the definition of this term.

3.2.5 Note (Optional)
A note provides additional comments associated with the glossary term that are not part of the definition but can help convey the meaning or use of the term.

3.2.6 Example (Optional)
There can be examples of the term where such examples are necessary to describe the term.

3.2.7 Source of the definition (Optional)
Reference to a specification external to the S-Series specifications where the term is already defined and the definition is reused in SX001G in part or in whole.

Chapter 1.4

Maintenance of the specification

Table of contents

Page

List of tables

References

Table 1 References

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

SX001G is maintained by the Data Modeling and Exchange Working Group (DMEWG) operating under the supervision of the Integrated Logistic Support (ILS) Specifications Council. Both the DMEWG and the ILS Specifications Council include representatives from AeroSpace and Defense Industries Association of Europe (ASD) and Aerospace Industries Association of America (AIA) member companies and nations.

Technical issues related to SX001G can be raised using the issue form found at SX000i Appendix I and at www.sx000i.org/CPF. Technical issues can become in due course a Change Request. Technical issues and change requests are submitted with the understanding that any revisions to SX001D can affect the other specifications in the ASD/AIA S-Series of ILS specifications, and that proposed changes are subject to international agreement among ASD and AIA member companies and nations.

Upon receipt of a change request, the DMEWG will follow the change management process described in SX000i Chapter 4, to gain consensus agreement from the participating organizations prior to the publication of changes. The DMEWG considers change proposals at each meeting and ratifies them for incorporation in the specification. The DMEWG also decides when changes will be published in SX001G.

Chapter 2

Glossary

Table of contents

Chapter	Data module title	Data module code	Applic
Chap 2.27	Glossary - 0-9	SX001G-A-02-27-0000-00A-040A-A	All

Chapter 2.1

Glossary - A

Table of contents

List of tables

References

Table 1 References

Chap No./Document No.	Title
Chap 2.2	Glossary - B
Chap 2.4	Glossary - D
Chap 2.8	Glossary - H
Chap 2.12	Glossary - L
Chap 2.16	Glossary - P

1 Aggregated Element UoF

Definition
Aggregated Element UoF provides the capability to specify that an element within a breakdown represents a collection of elements for an identified purpose.

Type
CDM Unit of Functionality

2 AggregatedElement

Definition
AggregatedElement is a BreakdownElement that identifies a collection of BreakdownElements that are grouped for an identified purpose.

Reference
BreakdownElement, refer to Chap 2.2

Type
UML Class

3 AggregatedElementRevision

Definition
AggregatedElementRevision is an iteration that is applied to an AggregatedElement.

Reference
AggregatedElement, refer to Para 2

Type
UML Class

4 aggregatedElementType

Definition
aggregatedElementType is a classification that identifies further specialization of an AggregatedElement.

Reference
AggregatedElement, refer to Para 2

Examples
- System
- Function
- Family
- Slot

Type
CDM ClassificationType

5 AIA

Definition
Aerospace Industries Association of America

Type
Acronym

6 AllowedProductConfiguration

Definition
AllowedProductConfiguration defines permitted combinations of hardware and software parts that can or must be installed in specific locations (positions), together with all associated engineering instructions that must be adhered to during assembly and operation and that demonstrates that a product complies with applicable regulations.

Note
A serialized product can adhere to different allowed product configurations over time.

Example
Applicable regulations can be a Type Certificate

Type
UML interface stereotype

7 AllowedProductConfigurationByConfigurationIdentifier

Definition
AllowedProductConfigurationByConfigurationIdentifier is an AllowedProductConfiguration that is identified by means other than a part number.

Reference
AllowedProductConfiguration, refer to Para 6

Type
UML Class

8 AllowedProductConfigurationHardwarePartAsDesigned

Definition
AllowedProductConfigurationHardwarePartAsDesigned is a HardwarePartAsDesigned that is managed in accordance with an AllowedProductConfiguration.

References
- AllowedProductConfiguration, refer to Para 6
- HardwarePartAsDesigned, refer to Chap 2.8

Type
UML Class

9 allowedProductConfigurationIdentifier

Definition
allowedProductConfigurationIdentifier is a string of characters that are unique to the issuing organization that is used to designate an AllowedProductConfiguration and to differentiate it from other AllowedProductConfigurations.

Reference
AllowedProductConfiguration, refer to Para 6

Type
CDM IdentifierType

10 AllowedProductConfigurationItem

Definition
AllowedProductConfigurationItem represents the common behavior of those items that can included in an AllowedProductConfiguration.

Reference
AllowedProductConfiguration, refer to Para 6

Type
UML interface stereotype

11 AlternatePartAsDesignedRelationship

Definition
AlternatePartAsDesignedRelationship is an interchangeability relationship where one (relating) PartAsDesigned can replace another (related) PartAsDesigned in all its uses, is context independent, and is form, fit and function equivalent.

Reference
PartAsDesigned, refer to Chap 2.16

Note
A part can have one or more alternate parts.

Note
The alternate part is interchangeable with the base part in any/all uses.

Type
UML relationship stereotype

12 AND

Definition
AND is a specialization of LogicalOperator that defines a set of ApplicabilityEvaluation that must all be TRUE for the containing ApplicabilityEvaluationByLogicalOperator to be TRUE.

References
- ApplicabilityEvaluation, refer to Para 18
- ApplicabilityEvaluationByLogicalOperator, refer to Para 23
- LogicalOperator, refer to Chap 2.12

Type
UML Class

13 Applicability Statement UoF

Definition
Applicability Statement UoF provides the capability to define the situation or situations under which related items are valid.

Type
CDM Unit of Functionality

14 ApplicabilityAssertItem

Definition
ApplicabilityAssertItem represents the common behavior of those items (class instances) that can be used in the definition of applicability statements.

Type
UML interface stereotype

15 ApplicabilityAssignment

Definition
ApplicabilityAssignment is an association between an ApplicabilityStatement (the relating) and an item (the related) that is valid only for the situation or situations specified in the ApplicabilityStatement.

Reference
ApplicabilityStatement, refer to Para 25

Type
UML relationship stereotype

16 ApplicabilityAssignmentItem

Definition
ApplicabilityAssignmentItem represents the common behavior of those items (class instances) that have restricted validity as defined by an associated ApplicabilityStatement.

Reference
ApplicabilityStatement, refer to Para 25

Type
UML interface stereotype

17 applicabilityEndDate

Definition
applicabilityEndDate is a date that defines the upper bound of the interval for a DatedApplicabilityStatement.

Reference
DatedApplicabilityStatement, refer to Chap 2.4

Type
CDM DateType

18 ApplicabilityEvaluation

Definition
ApplicabilityEvaluation is a Boolean expression that can be evaluated to be either TRUE or FALSE.

Type
UML Abstract class

19 ApplicabilityEvaluationByApplicabilityStatementReference

Definition
ApplicabilityEvaluationByApplicabilityStatementReference is an ApplicabilityEvaluation that references an ApplicabilityStatement that is to be reused as part of this ApplicabilityEvaluation.

References
- ApplicabilityEvaluation, refer to Para 18
- ApplicabilityStatement, refer to Para 25

Note
This class enables the definition of nested applicability statements.

Type
UML Class

20 ApplicabilityEvaluationByAssertion

Definition
ApplicabilityEvaluationByAssertion is an ApplicabilityEvaluation that identifies a value or condition that can be tested and evaluated to be either TRUE or FALSE.

Reference
ApplicabilityEvaluation, refer to Para 18

Type
UML Abstract class

21 ApplicabilityEvaluationByAssertionOfClassInstance

Definition
ApplicabilityEvaluationByAssertionOfClassInstance is an ApplicabilityEvaluation that identifies a class instance that can be evaluated to be either TRUE or FALSE.

Reference
ApplicabilityEvaluation, refer to Para 18

Type
UML Class

22 ApplicabilityEvaluationByAssertionOfCondition

Definition
ApplicabilityEvaluationByAssertionOfCondition is an ApplicabilityEvaluation that identifies a condition and a value that can be evaluated to be either TRUE or FALSE.

Reference
ApplicabilityEvaluation, refer to Para 18

Type
UML Class

23 ApplicabilityEvaluationByLogicalOperator

Definition
ApplicabilityEvaluationByLogicalOperator is an ApplicabilityEvaluation that defines a Boolean expression between additional ApplicabilityEvaluation that can be evaluated to be either TRUE or FALSE.

Reference
ApplicabilityEvaluation, refer to Para 18

Type
UML Class

24 applicabilityStartDate

Definition
applicabilityStartDate is a date that defines the lower bound of the interval for a DatedApplicabilityStatement.

Reference
DatedApplicabilityStatement, refer to Chap 2.4

Type
CDM DateType

25 ApplicabilityStatement

Definition
ApplicabilityStatement is a rule that defines the situation or situations under which related items are valid.

Type
UML Class

26 applicabilityStatementDescription

Definition
applicabilityStatementDescription is a narrative statement that provides a human readable description of the rule expressed in the ApplicabilityStatement.

Reference
ApplicabilityStatement, refer to Para 25

Type
CDM DescriptorType

27 applicabilityStatementIdentifier

Definition
applicabilityStatementIdentifier is a string of characters that is used to uniquely identify an ApplicabilityStatement and to differentiate it from other ApplicabilityStatements.

Reference
ApplicabilityStatement, refer to Para 25

Type
CDM IdentifierType

28 ApplicableBlockOfSerializedItems

Definition
ApplicableBlockOfSerializedItems is an attribute group that identifies a range of serialized items.

Type
UML attributeGroup stereotype

29 applicableSerialNumberRange

Definition
applicableSerialNumberRange is a design characteristic that identifies an interval of serialized items which may be open-ended.

Type
CDM SerialNumberRange

30 ASD

Definition
AeroSpace and Defence Industries Association of Europe

Type
Acronym

31 AuthorityToOperate

Definition
AuthorityToOperate is issued by a regulating body to signify the safety aspects of a product to be manufactured and operated, and once issued the design cannot be changed.

Example
Type certificate that signifies the airworthiness of an aircraft manufacturing design.

Type
UML Class

32 authorityToOperateIdentifier

Definition
authorityToOperateIdentifier is a string of characters that are unique to the issuing organization which is used to designate an AuthorityToOperate and to differentiate it from other AuthorityToOperate.

Reference
AuthorityToOperate, refer to Para 31

Type
CDM IdentifierType

33 AuthorizedLife

Definition
AuthorizedLife is a compoundAttribute which identifies the maximum life limit for an item, along with an optional reference to the authorizing organization.

Type
UML compoundAttribute stereotype

34 authorizedLife

Definition
authorizedLife is a characteristic which defines the maximum life limit for an item, and upon reaching this limit, any further usage of the item must be re-authorized.

Type
CDM PropertyType

Chapter 2.2

Glossary - B

Table of contents

List of tables

References

Table 1 References

Chap No./Document No.	Title
Chap 2.16	Glossary - P
Chap 2.26	Glossary - Z

1 Breakdown

Definition
Breakdown is a view of Product that identifies a specific partitioning of a Product into a set of related elements so that parent-child views are formed, which comprise the Product elements.

Type
UML Class

2 Breakdown Structure UoF

Definition
Breakdown Structure UoF provides the capability to define any number of hierarchical structures for a specific Product or ProductVariant.

References
- Product, refer to Chap 2.16
- ProductVariant, refer to Chap 2.16

Note
Each Product can have one or more breakdowns defined at the Product level or the ProductVariant level, but never at both levels.

Type
CDM Unit of Functionality

3 BreakdownElement

Definition
BreakdownElement is a definition of an item used to represent a system, subsystem, function, zone, hardware item, etc, and is part of one or many Breakdown.

Reference
Breakdown, refer to Para 1

Type
UML Abstract class

4 breakdownElementEssentiality

Definition
breakdownElementEssentiality is a design classification that identifies the operational impact of the BreakdownElement at the Product level.

Note
Based on the criticality as defined during the Failure Mode, Effects and Criticality Analysis (FMECA).

Reference
BreakdownElement, refer to Para 3

Type
CDM ClassificationType

5 breakdownElementIdentifier

Definition
breakdownElementIdentifier is a string of characters used to uniquely identify a BreakdownElement and to differentiate it from other BreakdownElement.

Note
Can be used to establish a hierarchical structure of the technical system.

Reference
BreakdownElement, refer to Para 3

Examples
- Example 1: The combination of logistics support analysis control number and alternate logistics support analysis control number within GEIA-STD-0007
- Example 2: The Standard Numbering System defined by S1000D

Type
CDM IdentifierType

6 BreakdownElementInZoneRelationship

Definition
BreakdownElementInZoneRelationship is an association between a ZoneElementRevision and a BreakdownElementRevision located within that zone.

References
- ZoneElementRevision, refer to Chap 2.26
- BreakdownElementRevision, refer to Para 9

Type
UML relationship stereotype

7 breakdownElementName

Definition
breakdownElementName is a word or phrase by which the BreakdownElement is known and can be easily referenced.

Note
It is recommended that breakdownElementName be the same as technical name in S1000D.

Reference
BreakdownElement, refer to Para 3

Type
CDM DescriptorType

8 breakdownElementRelationshipType

Definition
breakdownElementRelationshipType is a classfication that identifies the type of relationship established between two BreakdownElementRevision.

Note
The related breakdown elements do not need to be used in the same breakdown. For instance, a relationship can be established between a breakdown element in a functional breakdown and a breakdown element in a physical breakdown.

Reference
BreakdownElementRevision, refer to Para 9

Examples
- alternateBreakdownElement
- functionalAndPhysicalBreakdownElementRelationship
- accessPoint

Type
CDM ClassificationType

9 BreakdownElementRevision

Definition
BreakdownElementRevision is an issue of a BreakdownElement.

Reference
BreakdownElement, refer to Para 3

Type
UML Abstract class

10 breakdownElementRevisionIdentifier

Definition
breakdownElementRevisionIdentifier is a string of characters that is used to uniquely identify a BreakdownElementRevision and to differentiate it from other BreakdownElementRevision.

Reference
BreakdownElementRevision, refer to Para 9

Type
CDM IdentifierType

11 BreakdownElementRevisionRelationship

Definition
BreakdownElementRevisionRelationship is an association where one BreakdownElementRevision (relating) can relate to another BreakdownElementRevision (related).

Reference
BreakdownElementRevision, refer to Para 9

Type
UML relationship stereotype

12 breakdownElementRevisionStatus

Definition
breakdownElementRevisionStatus is a classification that identifies the maturity of a BreakdownElementRevision.

Example
Valid classes are determined by the project.

Reference
BreakdownElementRevision, refer to Para 9

Type
CDM ClassificationType

13 BreakdownElementStructure

Definition
BreakdownElementStructure is a relationship that establishes a hierarchical structure between BreakdownElementRevision (parent/child) that belong to the same BreakdownRevision.

References
- BreakdownElementRevision, refer to Para 9
- BreakdownRevision, refer to Para 18

Type
UML relationship stereotype

14 BreakdownElementStructureRelationship

Definition
BreakdownElementStructureRelationship is a relationship where the usage of a BreakdownElementRevision (relating) is restricted or associated with the usage of another BreakdownElementRevision (related).

Note
Both BreakdownElementRevision must reside within the same BreakdownRevision.

Reference
BreakdownElementRevision, refer to Para 9

Type
UML relationship stereotype

15 breakdownElementStructureRelationshipType

Definition
breakdownElementStructureRelationshipType is a classification that identifies the type of restriction or association between two BreakdownElementRevision.

Example
Version C of a radio is restricted to the use of Software version B in breakdown revision 2.

Reference
BreakdownElementRevision, refer to Para 9

Type
CDM ClassificationType

16 BreakdownElementUsageinBreakdown

Definition
BreakdownElementUsageinBreakdown is an association establishing the BreakdownElementRevision (related) that belong to a BreakdownRevision (relating).

Note
A BreakdownElementRevision can belong to multiple BreakdownRevision.

References
- BreakdownElementRevision, refer to Para 9
- BreakdownRevision, refer to Para 18

Type
UML relationship stereotype

17 BreakdownItem

Definition
BreakdownItem represents the common behavior of those items (class instances) that can have an associated breakdown structure.

Type
CDM InterfaceType

18 BreakdownRevision

Definition
BreakdownRevision is an issue of a Breakdown.

Note
BreakdownRevision is used to document design iterations and not breakdown variants.

Reference
Breakdown, refer to Para 1

Type
UML Class

19 breakdownRevisionIdentifier

Definition
breakdownRevisionIdentifier is a string of characters used to uniquely identify a BreakdownRevision and to differentiate it from other BreakdownRevision.

Reference
BreakdownRevision, refer to Para 18

Type
CDM IdentifierType

20 breakdownRevisionStatus

Definition
breakdownRevisionStatus is a classification that identifies the maturity of a BreakdownRevision.

Example
Valid classes are determined by the project.

Reference
BreakdownRevision, refer to Para 18

Type
CDM ClassificationType

21 breakdownType

Definition
breakdownType is a classification that identifies the type of Breakdown for the Product.

Examples
- physicalBreakdown
- functionalBreakdown
- systemBreakdown
- ASDSystemHardwareBreakdown
- zonalBreakdown
- familyTreeBreakdown
- aggregatedBreakdown

Reference
Breakdown, refer to Para 1

Type
CDM ClassificationType.

Chapter 2.3

Glossary - C

Table of contents

List of tables

References

Table 1 References

Chap No./Document No.	Title
Chap 2.1	Glossary - A
Chap 2.8	Glossary - H
Chap 2.19	Glossary - S
ISO 10303:239 ed.2 Product Life Cycle Support	ISO 10303:239 ed.2 Product Life Cycle Support

1 CDM

Definition
Common Data Model

Type
Acronym

2 Change Information UoF

Definition
Change Information UoF provides the capability to identify the items that have been affected by a ChangeAuthorization.

Reference
ChangeAuthorization, refer to Para 3

Type
CDM Unit of Functionality

3 ChangeAuthorization

Definition
ChangeAuthorization is a record of the permission to modify Product design, its procedures and/or associated logistics support data.

Type
UML Class

4 changeAuthorizationIdentifier

Definition
changeAuthorizationIdentifier is a string of characters that are unique to the issuing organization which is used to designate a ChangeAuthorization and to differentiate it from other ChangeAuthorizations.

Reference
ChangeAuthorization, refer to Para 3

Type
CDM IdentifierType

5 ChangeControlledItem

Definition
ChangeControlledItem represents the common behavior of those items that can be affected by a ChangeAuthorization.

Reference
ChangeAuthorization, refer to Para 3

Type
UML interface stereotype

6 ChangeEffect

Definition
ChangeEffect is a relationship between a ChangeAuthorization (relating) and the items (related) that have been affected due to that ChangeAuthorization.

Reference
ChangeAuthorization, refer to Para 3

Type
UML relationship stereotype

7 changeEffectDescription

Definition
changeEffectDescription is a narrative statement providing a summary of effects made to the related items due to a ChangeAuthorization.

Reference
ChangeAuthorization, refer to Para 3

Type
CDM DescriptorType

8 changeEffectType

Definition
changeEffectType is a classification that identifies a ChangeEffect as belonging to a group of ChangeEffects sharing a particular characteristic or set of characteristics.

Examples
- Editorial change
- Technical change
- Markup change
- Applicability change
- Unique identifier of the referencing structure has changed

Reference
ChangeEffect, refer to Para 6

Type
CDM ClassificationType

9 class

Definition
class is a characteristic that represents the term that is used for classification.

Type
CDM ClassificationType

10 classificationDate

Definition
classificationDate is a date that defines when the classification was determined.

Type
CDM DateType

11 ClassificationType

Definition
ClassificationType is a CDM primitive that represents classes (terms) that are used for classification.

Note
Each term used for classification, and defined within the S-series specifications, has a definition in the SX001G Glossary.

Type
UML primitive stereotype

12 classifier

Definition
classifier is the word or code by which the class is known.

Type
UML char

Source of definition
ISO 10303:239 ed.2 Product Life Cycle Support

13 ConditionDefinitionItem

Definition
ConditionDefinitionItem represents the common behavior of those items (class instances) that can be tested against in the ConditionStatement part of an ApplicabilityStatement.

References
- ConditionStatement, refer to Para 18
- ApplicabilityStatement, refer to Chap 2.1

Type
UML interface stereotype

14 ConditionInstance

Definition
ConditionInstance is an individual concept or object that has the characteristics of a generic ConditionType.

Reference
ConditionType, refer to Para 19

Type
UML Class

15 conditionInstanceDescription

Definition
conditionInstanceDescription is a narrative statement of the meaning of the ConditionInstance.

Reference
ConditionInstance, refer to Para 14

Type
CDM DescriptorType

16 conditionInstanceIdentifier

Definition
conditionInstanceIdentifier is a string of characters that is used to uniquely identify a ConditionInstance and to differentiate it from other ConditionInstances.

Reference
ConditionInstance, refer to Para 14

Type
CDM IdentifierType

17 conditionInstanceName

Definition
conditionInstanceName is a word or phrase by which the ConditionInstance is known and can be easily referenced.

Reference
ConditionInstance, refer to Para 14

Type
CDM DescriptorType

18 ConditionStatement

Definition
ConditionStatement is a combination of a defined condition and a defined value that can be evaluated to be either TRUE or FALSE.

Type
UML relationship stereotype

19 ConditionType

Definition
ConditionType is a class of concepts or objects that have a defined set of values that are used in ApplicabilityStatement where the concept or object is not already represented in the data model.

Reference
ApplicabilityStatement, refer to Chap 2.1

Type
UML Class

20 ConditionTypeClassValue

Definition
ConditionTypeClassValue is a classification that is valid for a specific ConditionType.

Reference
ConditionType, refer to Para 19

Type
UML Class

21 conditionTypeClassValue

Definition
conditionTypeClassValue is a classification that is valid for a specific ConditionType.

Reference
ConditionType, refer to Para 19

Examples
Service bulletin

- pre
- post

Ashore or afloat

- ashore
- afloat

Operational environment

- arctic
- desert

Maintenance environment

- docked
- indoor
- outdoor

Type
CDM ClassificationType

22 conditionTypeDescription

Definition
conditionTypeDescription is a narrative statement of the meaning of the ConditionType.

Reference
ConditionType, refer to Para 19

Type
CDM DescriptorType

23 conditionTypeName

Definition
conditionTypeName is a word or phrase by which the ConditionType is known and can be easily referenced.

Examples
- serviceBulletinConditionType
- ashoreOrAfloatConditionType
- operationalEnvironmentConditionType
- maintenanceEnvironmentConditionType

Reference
ConditionType, refer to Para 19

Type
CDM ClassificationType

24 ConditionTypePropertyValue

Definition
ConditionTypePropertyValue is a property that is valid for a specific ConditionType.

Reference
ConditionType, refer to Para 19

Type
UML Class

25 conditionTypePropertyValue

Definition
conditionTypePropertyValue is a property that is valid for a specific ConditionType.

Reference
ConditionType, refer to Para 19

Type
CDM PropertyType

26 ConditionTypeValue

Definition
ConditionTypeValue is a property or classification that is valid for a specific ConditionType.

Reference
ConditionType, refer to Para 19

Type
UML Abstract class

27 ContainedSubstance

Definition
ContainedSubstance is a relationship between a Substance (related) and a HardwarePartAsDesigned (relating) in which the Substance is contained.

References
- Substance, refer to Chap 2.19
- HardwarePartAsDesigned, refer to Chap 2.8

Type
UML relationship stereotype

Chapter 2.4

Glossary - D

Table of contents

List of tables

References

Table 1 References

Chap No./Document No.	Title
Chap 2.1	Glossary - A
ISO 10303:239 ed.2 Product Life Cycle Support	ISO 10303:239 ed.2 Product Life Cycle Support
OASIS PLCS DEXlib	Advanced open standards for the information society (OASIS) Product Life Cycle Support (PLCS) Data Exchange Specifications library (DEXlib)

1 DatedApplicabilityStatement

Definition
DatedApplicabilityStatement is an ApplicabilityStatement that is valid for a limited time interval.

Reference
ApplicabilityStatement, refer to Chap 2.1

Type
UML Class

2 DatedClassification

Definition
DatedClassification is a compoundAttribute which provides a classification together with the date when the classification was determined.

Type
UML compoundAttribute stereotype

3 DateTimeType

Definition
DateTimeType is a primitive class used to represent time on a particular day.

Type
UML primitive stereotype

Source of definition
ISO 10303:239 ed.2 Product Life Cycle Support

4 DateType

Definition
DateType is a primitive class used to represent calendar dates.

Type
UML primitive stereotype

Source of definition
ISO 10303:239 ed.2 Product Life Cycle Support

5 dayComponent

Definition
dayComponent is the year element of the DateType expressed as an integer value between 1 and 31.

Reference
DateType, refer to Para 4

Type
UML int

Source of definition
ISO 10303:239 ed.2 Product Life Cycle Support

6 descriptorLanguage

Definition
descriptorLanguage is a classification that determines the language in which the descriptorText is written.

Reference
descriptorText, refer to Para 9

Type
CDM ClassificationType

Source of definition
OASIS PLCS DEXlib

7 descriptorProvidedBy

Definition
descriptorProvidedBy is the organization that provided the descriptorText.

Reference
descriptorText, refer to Para 9

Type
CDM Organization

Source of definition
OASIS PLCS DEXlib

8 descriptorProvidedDate

Definition
descriptorProvidedDate is the date when the descriptorText was provided.

Reference
descriptorText, refer to Para 9

Type
CDM DateType

Source of definition
OASIS PLCS DEXlib

9 descriptorText

Definition
descriptorText is text that provides further information about the subject under consideration.

Type
UML char

Source of definition
OASIS PLCS DEXlib

10 DescriptorType

Definition
DescriptorType is a UML primitive representing any kind of free form text.

Type
UML primitive stereotype

11 DMEWG

Definition
Data Modeling and Exchange Working Group

Type
Acronym

Chapter 2.5

Glossary - E

Table of contents

List of tables

References

Table 1 References

Chap No./Document No.	Title
None	

1 No glossary entries

No glossary entries begin with the letter E.

Chapter 2.6

Glossary - F

Table of contents

List of tables

References

Table 1 References

Chap No./Document No.	Title
None	

1 FMEA

Definition
Failure Modes and Effects Analysis

Type
Acronym

2 FMECA

Definition
Failure Mode, Effects and Criticality Analysis

Type
Acronym

Chapter 2.7

Glossary - G

Table of contents

List of tables

References

Table 1 References

Chap No./Document No.	Title
None	

1 GEIA

Definition
Government Electronics & Information Technology Association

Type
Acronym

Chapter 2.8

Glossary - H

Table of contents

List of tables

References

Table 1 References

Chap No./Document No.	Title
Chap 2.2	Glossary - B
Chap 2.4	Glossary - D
Chap 2.16	Glossary - P
Chap 2.20	Glossary - T
ISO 10303:239 ed.2 Product Life Cycle Support	ISO 10303:239 ed.2 Product Life Cycle Support

1 Hardware Element UoF

Definition
Hardware Element UoF provides the capability to specify that an element within a Breakdown is hardware and can be associated with the HardwarePartAsDesigned that fulfill the requirement.

References
- Breakdown, refer to Chap 2.2
- HardwarePartAsDesigned, refer to Para 8

Type
CDM Unit of Functionality

2 HardwareElement

Definition
HardwareElement is a BreakdownElement representing a specification that is realized as a HardwarePartAsDesigned.

References
- BreakdownElement, refer to Chap 2.2
- HardwarePartAsDesigned, refer to Para 8

Type
UML Class

3 HardwareElementPartRealization

Definition
HardwareElementPartRealization is a relationship between an instance of HardwareElementRevision and the HardwarePartAsDesigned that fulfills the hardware element specification.

References
- HardwareElementRevision, refer to Para 6
- HardwarePartAsDesigned, refer to Para 8

Type
UML relationship stereotype

4 hardwareElementRepairability

Definition
hardwareElementRepairability is a design classification that indicates whether a part is repairable from a technical point of view, independent of customer maintenance concepts.

Examples
- repairable
- partiallyRepairable
- expendable
- notApplicable

Type
CDM ClassificationType

5 hardwareElementReplaceability

Definition
hardwareElementReplaceability is a design classification that indicates whether a part is replaceable at its functional location defined from a technical point of view, independent of customer maintenance concepts.

Examples
- replaceable
- notReplaceable
- notApplicable

Type
CDM ClassificationType

6 HardwareElementRevision

Definition
HardwareElementRevision is an issue of a HardwareElement.

Reference
HardwareElement, refer to Para 2

Type
UML Class

7 hardwareElementType

Definition
hardwareElementType is a design classification that identifies a further specialization of a HardwareElement.

Reference
HardwareElement, refer to Para 2

Examples
- equipment
- accessPoint
  - door
  - panel
  - electricalPanel

Type
CDM ClassificationType

8 HardwarePartAsDesigned

Definition
HardwarePartAsDesigned is a PartAsDesigned that is realized as physical items including non-countable material.

Reference
PartAsDesigned, refer to Chap 2.16

Examples
- Non-countable materials include:
  - oil
  - sealant
  - paint

Type
UML Class

9 HardwarePartAsDesignedDesignData

Definition
HardwarePartAsDesignedDesignData are the characteristics of a HardwarePartAsDesigned identified during the design activities.

Reference
HardwarePartAsDesigned, refer to Para 8

Type
UML attributeGroup stereotype

10 HardwarePartAsDesignedSupportData

Definition
HardwarePartAsDesignedSupportData are the characteristics of a HardwarePartAsDesigned identified during the supportability analysis activities.

Reference
HardwarePartAsDesigned, refer to Para 8

Type
UML attributeGroup stereotype

11 hardwarePartHazardousClass

Definition
hardwarePartHazardousClass is a design classification that identifies a HardwarePartAsDesigned as capable of posing a significant risk to health, safety or property during transportation, handling or storage.

Reference
HardwarePartAsDesigned, refer to Para 8

Type
CDM ClassificationType

12 hardwarePartLogisticsCategory

Definition
hardwarePartLogisticsCategory is a support classification that defines the role of a HardwarePartAsDesigned in the context of product support.

Examples
- expendable
- repairable
- consumable
- disposable
- material
- spare
- supply
- supportEquipment

Reference
HardwarePartAsDesigned, refer to Para 8

Type
CDM ClassificationType

13 hardwarePartOperationalAuthorizedLife

Definition
hardwarePartOperationalAuthorizedLife is a design characteristic that identifies the maximum usage limit for which an item can be operated, and upon reaching this limit, any further usage of the item must be re-authorized.

Examples
- hours
- cycles
- calendar
- landings

Type
CDM AuthorizedLife

14 hardwarePartRepairability

Definition
hardwarePartRepairability is a support classification that defines whether the HardwarePartAsDesigned is repairable from a technical perspective (ie, a vendor/supplier point of view) independent of customer maintenance concepts.

Reference
HardwarePartAsDesigned, refer to Para 8

Type
CDM ClassificationType

15 hardwarePartScrapRate

Definition
hardwarePartScrapRate is a support characteristic of a HardwarePartAsDesigned that defines the percentage of repairable units which, when removed from service, will be found to be beyond economic repair and therefore have to be scrapped.

Reference
HardwarePartAsDesigned, refer to Para 8

Type
CDM PropertyType

16 hour

Definition
The hour element of the DateTimeType that represents the integer number of hours.

Reference
DateTimeType, refer to Chap 2.4

Type
UML int

Source of definition
ISO 10303:239 ed.2 Product Life Cycle Support

17 hourOffset

Definition
The hourOffset element of TimeOffset represents the integer number of hours by which a time is offset from Coordinated Universal Time.

Reference
TimeOffset, refer to Chap 2.20

Type
UML int

Source of definition
ISO 10303:239 ed.2 Product Life Cycle Support

Chapter 2.9

Glossary - I

Table of contents

List of tables

References

Table 1 References

Chap No./Document No.	Title
Chap 2.1	Glossary - A
Chap 2.16	Glossary - P
ISO 10303:239 ed.2 Product Life Cycle Support	ISO 10303:239 ed.2 Product Life Cycle Support
OASIS PLCS DEXlib	Advanced open standards for the information society (OASIS) Product Life Cycle Support (PLCS) Data Exchange Specifications library (DEXlib)
S2000M	International specification for material management - Integrated data processing for military equipment
GEIA-STD-0007	GEIA-STD-0007 Logistics Product Data

1 identifier

Definition
The text that conveys the assigned identifier.

Type
UML char

Source of definition
ISO 10303:239 ed.2 Product Life Cycle Support

2 identifierClassifier

Definition
Classification that determines the type of identifier being defined.

Reference
identifier, refer to Para 1

Examples
- OEM part number
- NCAGE-code

Type
CDM ClassificationType

Source of definition
OASIS PLCS DEXlib

3 identifierSetBy

Definition
Defines the organization that “owns” the assigned identifier.

Reference
identifier, refer to Para 1

Type
CDM Organization

Source of definition
OASIS PLCS DEXlib

4 IdentifierType

Definition
IdentifierType primitive class is used to represent any form of identifier.

Reference
identifier, refer to Para 1

Type
UML primitive stereotype

Source of definition
OASIS PLCS DEXlib

5 ILS

Definition
Integrated Logistics Support

Type
Acronym

6 IPC

Definition
Illustrated Parts Catalogue

Type
Acronym

7 ISO

Definition
International Organization for Standardization

Type
Acronym

8 ItemInAllowedProductConfiguration

Definition
ItemInAllowedProductConfiguration is a relationship that defines items that comply with the relating AllowedProductConfiguration.

Reference
AllowedProductConfiguration, refer to Chap 2.1

Type
UML relationship stereotype

9 ItemInProductVariant

Definition
ItemInProductVariant is a relationship that defines items which are applicable to the relating ProductVariant.

Reference
ProductVariant, refer to Chap 2.16

Notes

Corresponds to “model version” (MOV) in S2000M.

Corresponds to "Usable on code" in GEIA-0007.

Type
UML relationship stereotype

Chapter 2.10

Glossary - J

Table of contents

List of tables

References

Table 1 References

Chap No./Document No.	Title
None	

1 No glossary entries

No glossary entries begin with the letter J.

Chapter 2.11

Glossary - K

Table of contents

List of tables

References

Table 1 References

Chap No./Document No.	Title
None	

1 No glossary entries

No glossary entries begin with the letter K.

Chapter 2.12

Glossary - L

Table of contents

List of tables

References

Table 1 References

Chap No./Document No.	Title
Chap 2.1	Glossary - A
Chap 2.15	Glossary - O
Chap 2.22	Glossary - V
ISO 10303:239 ed.2 Product Life Cycle Support	ISO 10303:239 ed.2 Product Life Cycle Support

1 lifeAuthorizingOrganization

Definition
lifeAuthorizingOrganization is the Organization that authorized the maximum life limit.

Reference
Organization, refer to Chap 2.15

Type
CDM Organization

2 LogicalOperator

Definition
LogicalOperator is the Boolean operation that is used in an ApplicabilityEvaluationByLogicalOperator.

Reference
ApplicabilityEvaluationByLogicalOperator., refer to Chap 2.1

Type
UML Abstract class

3 lowerBound

Definition
lowerBound is a characteristic that represents the first valid serial number.

Type
UML char

4 lowerLimitValue

Definition
lowerLimitValue is a decimal number that is the lower limit of a ValueRangePropertyType.

Reference
ValueRangePropertyType, refer to Chap 2.22

Type
UML double

Source of definition
ISO 10303:239 ed.2 Product Life Cycle Support

5 lowerOffsetValue

Definition
lowerOffsetValue is the lower limit defined as the lower offset value from the single value (value + lower limit).

Type
UML double

Source of definition
ISO 10303:239 ed.2 Product Life Cycle Support

6 LSA

Definition
Logistics Support Analysis (LSA)

Type
Acronym

Chapter 2.13

Glossary - M

Table of contents

List of tables

References

Table 1 References

Chap No./Document No.	Title
Chap 2.2	Glossary - B
Chap 2.4	Glossary - D
Chap 2.20	Glossary - T
ISO 10303:239 ed.2 Product Life Cycle Support	ISO 10303:239 ed.2 Product Life Cycle Support
S4000P	International specification for developing and continuously improving preventive maintenance

1 maintenanceSignificantOrRelevantIndicator

Definition

maintenanceSignificantOrRelevantIndicator is a support classification of a BreakdownElement as being a candidate for maintenance as a result of scheduled maintenance analyses or Failure Modes and Effects Analyses (FMEA).

Note

A maintenance significant item is an item which was identified by any selection process coming from a scheduled maintenance analysis such as S4000P. For this type of item a scheduled maintenance task is documented. A maintenance relevant item is an item that can be repaired or replaced as a result of failure or damage.

Reference

BreakdownElement, refer to Chap 2.2

Type
CDM ClassificationType

2 minute

Definition
The minute element of the DateTimeType represents the integer number of minutes.

Reference
DateTimeType, refer to Chap 2.4

Type
UML int

Source of definition
ISO 10303:239 ed.2 Product Life Cycle Support

3 minuteOffset

Definition
minuteOffset of TimeOffset is the integer number of minutes by which a time is offset from Coordinated Universal Time.

Reference
TimeOffset, refer to Chap 2.20

Type
UML int

Source of definition
ISO 10303:239 ed.2 Product Life Cycle Support

4 monthComponent

Definition
monthComponent is the month of the DateType expressed as an integer between 1 and 12, where:

- 1 = January
- 2 = February
- 3 = March
- 4 = April
- 5 = May
- 6 = June
- 7 = July
- 8 = August
- 9 = September
- 10 = October
- 11 = November
- 12 = December.

Reference
DateType, refer to Chap 2.4

Type
UML int

Source of definition
ISO 10303:239 ed.2 Product Life Cycle Support

5 MOU

Definition
Memorandum of Understanding

Type
Acronym

Chapter 2.14

Glossary - N

Table of contents

List of tables

References

Table 1 References

Chap No./Document No.	Title
Chap 2.1	Glossary - A
Chap 2.12	Glossary - L
Chap 2.16	Glossary - P
ISO 10303:239 ed.2 Product Life Cycle Support	ISO 10303:239 ed.2 Product Life Cycle Support

1 NATO

Definition
North Atlantic Treaty Organization

Type
Acronym

2 NCAGE

Definition
NATO Commercial and Government Entity

Type
Acronym

3 NestedAllowedProductConfigurationRelationship

Definition
NestedAllowedProductConfigurationRelationship is a relationship that defines that one AllowedProductConfiguration (child) is included in a parent AllowedProductConfiguration.

Reference
AllowedProductConfiguration, refer to Chap 2.1

Type
UML relationship stereotype

4 NestedProductVariantRelationship

Definition
NestedProductVariantRelationship is a relationship that defines that one ProductVariant (child) is included in a parent ProductVariant.

Reference
ProductVariant, refer to Chap 2.16

Type
UML relationship stereotype

5 nominalValue

Definition
nominalValue is a decimal number that specifies the single value that is the base value for specifying the range.

Type
UML double

Source of definition
ISO 10303:239 ed.2 Product Life Cycle Support

6 NonConformanceData

Definition
NonConformanceData is an attribute group that defines how a related item does not fully comply with the requirements of its usage.

Type
UML attributeGroup stereotype

7 nonConformanceDescription

Definition
nonConformanceDescription is a phrase that gives more information on how the related item does not comply with its requirements.

Type
CDM DescriptorType

8 nonConformanceRestriction

Definition
nonConformanceRestriction is a phrase that gives more information on how the use of the related item restricts the specified capabilities of the item in which it is contained.

Type
CDM DescriptorType

9 nonConformanceType

Definition
nonConformanceType is a classification that identifies in which way the related item does not comply with its requirements.

Examples
- concession (unintentional)
- waiver (intentional)

Type
CDM ClassificationType

10 NOT

Definition
NOT is a LogicalOperator that assigns the inverted value of the ApplicabilityEvaluation to the containing ApplicabilityEvaluationByLogicalOperator.

References
- ApplicabilityEvaluation, refer to Chap 2.1
- ApplicabilityEvaluationByLogicalOperator, refer to Chap 2.1
- LogicalOperator, refer to Chap 2.12

Type
UML Class

11 NumericalPropertyType

Definition
NumericalPropertyType is a primitive class of PropertyType that is used to represent a physical quantity by its numerical value(s) together with the unit in which the value(s) is given.

Reference
ProductVariant, refer to Chap 2.16

Type
UML Abstract class

Source of definition
ISO 10303:239 ed.2 Product Life Cycle Support

Chapter 2.15

Glossary - O

Table of contents

List of tables

References

Table 1 References

Chap No./Document No.	Title
Chap 2.1	Glossary - A
Chap 2.12	Glossary - L

1 OASIS

Definition
Organization for the Advancement of Structured Information Standards

Type
Acronym

2 OEM

Definition
Original Equipment Manufacturer

Type
Acronym

3 OR

Definition
OR is a specialization of LogicalOperator that defines a set of ApplicabilityEvaluation that at least one must be TRUE for the containing ApplicabilityEvaluationByLogicalOperator to be TRUE.

References
- ApplicabilityEvaluation, refer to Chap 2.1
- ApplicabilityEvaluationByLogicalOperator, refer to Chap 2.1
- LogicalOperator, refer to Chap 2.12

Type
UML Class

4 Organization

Definition
Organization is an administrative structure with a particular purpose belonging to a legal entity.

Examples
- Company
- Government department
- International agency

Type
UML Class

5 organizationIdentifier

Definition
organizationIdentifier is a string of characters that are unique to the issuing Organization which is used to designate an Organization and to differentiate it from other Organizations.

Reference
ProductVariant, refer to Para 4

Type
CDM IdentifierType

6 organizationName

Definition
organizationName is a word or phrase by which the Organization is known and can be easily referenced.

Reference
ProductVariant, refer to Para 4

Type
CDM DescriptorType

Chapter 2.16

Glossary - P

Table of contents

List of tables

References

Table 1 References

Chap No./Document No.	Title
Chap 2.15	Glossary - O
EIA-836	EIA-836 Configuration Management Data Exchange

1 Part Definition UoF

Definition
Part Definition UoF provides the capability to define hardware and software parts, their characteristics, and associated parts lists.

Type
CDM Unit of Functionality

2 PartAsDesigned

Definition
PartAsDesigned is the definitional information which fulfills a set of requirements and can be produced or realized.

Type
UML Class

3 PartAsDesignedPartsList

Definition
PartAsDesignedPartsList is the collection of contained parts as designed in a given part as designed, typically referred to as a Bill of Materials.

Type
UML Class

4 PartAsDesignedPartsListEntry

Definition
PartAsDesignedPartsListEntry is a relationship where one PartAsDesigned (child) is a component in a PartAsDesignedPartsList (parent).

References
- PartAsDesigned, refer to Para 2
- PartAsDesignedPartsList, refer to Para 3

Type
UML relationship stereotype

5 partIdentifier

Definition
partIdentifier is a string of characters that are unique to the issuing Organization that is used to designate a PartAsDesigned and to differentiate it from other PartAsDesigned.

References
- Organization, refer Chap 2.15
- PartAsDesigned, refer to Para 2

Example
"12345-501" - includes drawing, model, type or source controlling numbers

Type
CDM IdentifierType

Source of definition
Portion of definition from EIA-836, Object Identification

6 partName

Definition
partName is a word or phrase by which the PartAsDesigned is known and can be easily referenced.

Reference
PartAsDesigned, refer to Para 2

Type
CDM DescriptorType

7 partsListEntryPosition

Definition
partsListEntryPosition is a string of characters providing a relative position within a PartAsDesignedPartsListEntry.

Reference
PartAsDesignedPartsListEntry, refer to Para 4

Example
Line Number

Type
UML char

8 partsListRevisionIdentifier

Definition
partsListRevisionIdentifier is a string of characters that is used to uniquely identify an issue of a PartAsDesignedPartsList of the specified partsListType.

References
- PartAsDesignedPartsList, refer to Para 3
- partsListType, refer to Para 9

Type
CDM IdentifierType

9 partsListType

Definition
partsListType is a characteristic that identifies the context and intended use of the PartAsDesignedPartsList.

Reference
PartAsDesignedPartsList, refer to Para 3

Examples
- engineeringPartsList
- manufacturingPartsList
- supportPartsList
- provisioningPartsList

Type
CDM ClassificationType

10 PLCS

Definition
Product Life Cycle Support

Type
Acronym

11 Product

Definition
Product is a family of items sharing the same underlying design purpose.

Examples
- Airbus A340
- Aegis Class Destroyer
- Stryker
- Ford Fusion
- Pegasus Engine
- iPhone

Type
UML Class

12 Product Design Configuration UoF

Definition
Product Design Configuration UoF defines the permitted combinations of breakdown elements, hardware and software, in the context of product variants and allowed product configurations.

Type
CDM Unit of Functionality

13 Product UoF

Definition
Product UoF defines the Product(s) that are in focus for the ILS program.

Type
CDM Unit of Functionality

14 productIdentifier

Definition
productIdentifier is a string of characters that is used to uniquely identify a Product and to differentiate it from other Products.

Reference
Product, refer to Para 11

Examples
- endItemAcronymCode,
- modelIdentificationCode

Type
CDM IdentifierType

15 productName

Definition
productName is a word or phrase by which the Product is known and can be easily referenced.

Reference
Product, refer to Para 11

Type
CDM DescriptorType

16 ProductVariant

Definition
ProductVariant is a member of a Product family that is configured for a specific purpose and is offered to customers.

Reference
Product, refer to Para 11

Note
A ProductVariant is often known as a model.

Examples
- Boeing 787-800 versus 787-900
- Ford Fusion S versus SE versus SEL

Type
UML Class

17 productVariantIdentifier

Definition
productVariantIdentifier is a string of characters that is used to uniquely identify a ProductVariant and to differentiate it from other ProductVariants.

Reference
ProductVariant, refer to Para 16

Examples
- usableOnCode
- system difference code
- model version

Type
CDM IdentifierType

18 ProductVariantItem

Definition
ProductVariantItem represents the common behavior of those items that can be included in a ProductVariant.

Reference
ProductVariant, refer to Para 16

Type
UML interface stereotype

19 productVariantName

Definition
productVariantName is a word or phrase by which the ProductVariant is known and can be easily referenced.

Reference
ProductVariant, refer to Para 16

Type
CDM DescriptorType

20 PropertyType

Definition
PropertyType is a primitive class that is used for representing a measurable characteristic.

Type
UML Abstract class

Chapter 2.17

Glossary - Q

Table of contents

List of tables

References

Table 1 References

Chap No./Document No.	Title
Chap 2.8	Glossary - H

1 quantityOfChildElement

Definition
quantityOfChildElement is the amount that a child element is used within its parent element within a parent/child relationship.

Note
If no value is given, it is interpreted as value "1" with a unit of "each". For as required amounts, the text property is populated with "As Required" or other text as appropriate.

Type
CDM PropertyType

2 quantityOfContainedSubstance

Definition
quantityOfContainedSubstance is the amount of the substance that is included in HardwarePartAsDesigned.

Reference
HardwarePartAsDesigned, refer to Chap 2.8

Type
CDM PropertyType

Chapter 2.18

Glossary - R

Table of contents

List of tables

References

Table 1 References

Chap No./Document No.	Title
None	

1 referenceDesignator

Definition

referenceDesignator is a string of characters that is used to uniquely identify the location of a child element within a parent element.

Note

referenceDesignator can serve as a cross reference between parts contained in wiring diagrams, hydraulic systems, etc, and the Illustrated Parts Data (IPD). Letters, numbers or symbols are used to uniquely identify and locate discrete units, portions thereof and basic parts of a specific component.

Type

CDM IdentifierType

Chapter 2.19

Glossary - S

Table of contents

List of tables

References

Table 1 References

Chap No./Document No.	Title
Chap 2.2	Glossary - B
Chap 2.4	Glossary - D
Chap 2.14	Glossary - N
Chap 2.15	Glossary - O
Chap 2.16	Glossary - P
Chap 2.20	Glossary - T
ISO 10303:239 ed.2 Product Life Cycle Support	ISO 10303:239 ed.2 Product Life Cycle Support
REACH (Registration, Evaluation, Authorisation and Restriction of Chemicals)	Regulation (EC) No 1907/2006 - Regulation concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency
CAS (Chemical Abstract Service)	CAS (Chemical Abstract Service)

1 second

Definition
The second element of the DateTimeType is an integer that represents the number of seconds (0-59).

Reference
DateTimeType, refer to Chap 2.4

Type
UML int

Source of definition
ISO 10303:239 ed.2 Product Life Cycle Support

2 Security Classification UoF

Definition
Security Classification UoF provides the capability to assign security classifications to objects that need special handling for protection against unauthorized access or distribution.

Type
CDM Unit of Functionality

3 SecurityClass

Definition
SecurityClass is a level of confidentiality that can be used to protect something against unauthorized access.

Type
UML Class

4 securityClass

Definition
securityClass is a classification that defines the level of confidentiality.

Examples
- unclassified
- restricted
- confidential
- secret
- topSecret
- companyConfidential

Type
CDM ClassificationType

5 SecurityClassification

Definition
SecurityClassification is a relationship between a SecurityClass and those items (class instances) that can be classified.

Reference
SecurityClass, refer to Para 3

Type
UML relationship stereotype

6 SecurityClassificationItem

Definition
SecurityClassificationItem represents the common behavior of those items (class instances) that can be classified.

Type
UML interface stereotype

7 sense

Definition
The sense element of TimeOffset represents the direction of the offset.

Reference
TimeOffset, refer to Chap 2.20

Type
UML char

Source of definition
ISO 10303:239 ed.2 Product Life Cycle Support

8 SerialNumberApplicabilityItem

Definition
SerialNumberApplicabilityItem represents the common behavior of those items (class instances) that can have a limited applicability to block(s) of serialized items.

Type
UML interface stereotype

9 SerialNumberRange

Definition
SerialNumberRange is an interval of serialized items that can be open-ended.

Type
UML compoundAttribute stereotype

10 SingleValuePropertyType

Definition
The SingleValuePropertyType is a primitive class of NumericalPropertyType that specifies a single value and its unit.

Reference
NumericalPropertyType, refer to Chap 2.14

Type
UML primitive stereotype

Source of definition
ISO 10303:239 ed.2 Product Life Cycle Support

11 Software Element UoF

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.

Type
CDM Unit of Functionality

12 SoftwareElement

Definition
SoftwareElement is a BreakdownElement representing a specification that is realized as a SoftwarePartAsDesigned.

References
- BreakdownElement, refer to Chap 2.2
- SoftwarePartAsDesigned, refer to Para 18

Type
UML Class

13 softwareElementModificationFrequency

Definition
softwareElementModificationFrequency is a support characteristic defining the expected frequency that the SoftwarePartAsDesigned will be modified.

Reference
SoftwarePartAsDesigned, refer to Para 18

Examples
- 3 months
- 5 years

Type
CDM PropertyType

14 SoftwareElementPartRealization

Definition
SoftwareElementPartRealization is a relationship between an instance of SoftwareElementRevision and the SoftwarePartAsDesigned that fulfills the software element specification.

References
- SoftwareElementRevision, refer to Para 15
- SoftwarePartAsDesigned, refer to Para 18

Type
UML relationship stereotype

15 SoftwareElementRevision

Definition
SoftwareElementRevision is an issue of a SoftwareElement.

Reference
SoftwareElement, refer to Para 12

Type
UML Class

16 softwareElementSize

Definition
softwareElementSize is a design characteristic that defines the expected size of the SoftwarePartAsDesigned for this particular SoftwareElementRevision.

References
- SoftwareElementRevision, refer to Para 15
- SoftwarePartAsDesigned, refer to Para 18

Examples
- 800 kbytes - contracted
- 23.5 Mbytes - executable
- 10,000 lines of code - estimated

Type
CDM PropertyType

17 softwareElementType

Definition
softwareElementType is a design classification that identifies further specialization of a SoftwareElement.

Reference
SoftwareElement, refer to Para 12

Examples
- loadable
- distributed
- embedded

Type
CDM ClassificationType

18 SoftwarePartAsDesigned

Definition
SoftwarePartAsDesigned is a PartAsDesigned that is realized as executable software or as data files.

Reference
PartAsDesigned, refer to Chap 2.16

Type
UML Class

19 SubstanceDefinition

Definition
SubstanceDefinition is the identification of high concern physical matter.

References
- REACH (Registration, Evaluation, Authorisation and Restriction of Chemicals)
- CAS (Chemical Abstract Service)

Type
UML Class

20 substanceIdentifier

Definition
substanceIdentifier is a string of characters, unique to the issuing Organization that is used to designate the substance and to differentiate them from other similar substance items.

Reference
Organization, refer to Chap 2.15

Type
CDM IdentifierType

21 substanceName

Definition
substanceName is a word or phrase by which a substance is known and can be easily referenced.

Type
CDM DescriptorType

22 SubstitutePartAsDesignedRelationship

Definition
SubstitutePartAsDesignedRelationship is an interchangeability relationship where one PartAsDesigned (substitutePartsListEntry) can replace another PartAsDesigned (basePartsListEntry) in a specific use, is context dependent, and is not form, fit and function equivalent.

Reference
PartAsDesigned, refer to Chap 2.16

Type
UML relationship stereotype

Chapter 2.20

Glossary - T

Table of contents

List of tables

References

Table 1 References

Chap No./Document No.	Title
Chap 2.16	Glossary - P
ISO 10303:239 ed.2 Product Life Cycle Support	ISO 10303:239 ed.2 Product Life Cycle Support

1 TextPropertyType

Definition
TextPropertyType is a primitive class of PropertyType that is used to represent a physical quantity as a string.

Reference
PropertyType, refer to Chap 2.16

Type
UML primitive stereotype

Source of definition
ISO 10303:239 ed.2 Product Life Cycle Support

2 textValue

Definition
textValue is the string that is the element of representation.

Type
UML char

Source of definition
ISO 10303:239 ed.2 Product Life Cycle Support

3 TimeOffset

Definition
TimeOffset is an oriented offset from Coordinated Universal Time (UTC).

Type
UML attributeGroup stereotype

Source of definition
ISO 10303:239 ed.2 Product Life Cycle Support

Chapter 2.21

Glossary - U

Table of contents

List of tables

References

Table 1 References

Chap No./Document No.	Title
Chap 2.22	Glossary - V
ISO 10303:239 ed.2 Product Life Cycle Support	ISO 10303:239 ed.2 Product Life Cycle Support

1 UML

Definition
Unified Modeling Language

Type
Acronym

2 unit

Definition
unit is the unit of measure with which the quantity is expressed.

Type
CDM ClassificationType

Source of definition
ISO 10303:239 ed.2 Product Life Cycle Support

3 UoF

Definition
Unit of Functionality

Type
Acronym

4 upperBound

Definition
upperBound is a characteristic that represents the last valid serial number.

Note
If the value for upperBound is not specified, the range has no upper bound.

Type
UML char

5 upperLimitValue

Definition
upperLimitValue is a decimal number that is the upper limit of a ValueRangePropertyType.

Reference
ValueRangePropertyType, refer to Chap 2.22

Type
UML double

Source of definition
ISO 10303:239 ed.2 Product Life Cycle Support

6 upperOffsetValue

Definition
upperOffsetValue is the upper limit defined as the upper offset value from the single value (value + upper offset value).

Type
UML double

Source of definition
ISO 10303:239 ed.2 Product Life Cycle Support

Chapter 2.22

Glossary - V

Table of contents

List of tables

References

Table 1 References

Chap No./Document No.	Title
Chap 2.14	Glossary - N
Chap 2.16	Glossary - P
ISO 10303:239 ed.2 Product Life Cycle Support	ISO 10303:239 ed.2 Product Life Cycle Support

1 value

Definition
value is the quantity of a PropertyType.

Reference
PropertyType, refer to Chap 2.16

Type
UML double

2 valueDetermination

Definition
valueDetermination is the method by which the value of the PropertyType has been determined.

References
- PropertyType, refer to Chap 2.16
- value, refer to Para 1

Examples
- calculated: the value has been calculated
- designed: the value represents a value intended by the design
- estimated: the value has been estimated
- measured: the value has been measured
- setPoint: the value is used as an initialization value

Type
CDM ClassificationType

Source of definition
ISO 10303:239 ed.2 Product Life Cycle Support

3 ValueRangePropertyType

Definition
ValueRangePropertyType is a primitive class of NumericalPropertyType that specifies a pair of numbers representing the range that constrains the value.

Reference
NumericalPropertyType, refer to Chap 2.14

Type
UML primitive stereotype

Source of definition
ISO 10303:239 ed.2 Product Life Cycle Support

4 valueRecordingDate

Definition
valueRecordingDate is the date when the PropertyType value was recorded.

Reference
PropertyType, refer to Chap 2.16

Type
CDM DateType

Source of definition
ISO 10303:239 ed.2 Product Life Cycle Support

5 ValueWithTolerancesPropertyType

Definition
ValueWithTolerancesPropertyType is a primitive class of NumericalPropertyType that specifies a range of values by specifying a single nominal value and two tolerances that are offsets from the single value.

Reference
NumericalPropertyType, refer to Chap 2.14

Type
UML primitive stereotype

Source of definition
ISO 10303:239 ed.2 Product Life Cycle Support

Chapter 2.23

Glossary - W

Table of contents

List of tables

References

Table 1 References

Chap No./Document No.	Title
None	

1 No glossary entries

No glossary entries begin with the letter W.

Chapter 2.24

Glossary - X

Table of contents

List of tables

References

Table 1 References

Chap No./Document No.	Title
Chap 2.1	Glossary - A
Chap 2.12	Glossary - L

1 XOR

Definition

XOR is a specialization of LogicalOperator that defines two ApplicabilityEvaluation that one and only one must be TRUE for the containing ApplicabilityEvaluationByLogicalOperator to be TRUE.

References

- ApplicabilityEvaluation, refer to Chap 2.1
- ApplicabilityEvaluationByLogicalOperator, refer to Chap 2.1
- LogicalOperator, refer to Chap 2.12

Type

UML Class

Chapter 2.25

Glossary - Y

Table of contents

List of tables

References

Table 1 References

Chap No./Document No.	Title
Chap 2.4	Glossary - D
ISO 10303:239 ed.2 Product Life Cycle Support	ISO 10303:239 ed.2 Product Life Cycle Support

1 yearComponent

Definition
yearComponent is the year element of the DateType expressed as an integer value between 1 and 9999.

Reference
DateType, refer to Chap 2.4

Type
UML int

Source of definition
ISO 10303:239 ed.2 Product Life Cycle Support

Chapter 2.26

Glossary - Z

Table of contents

List of tables

References

Table 1 References

Chap No./Document No.	Title
Chap 2.2	Glossary - B
Chap 2.16	Glossary - P

1 Zone Element UoF

Definition
Zone Element UoF specifies that an element within a Breakdown is a zone.

Reference
ProductVariant, refer to Chap 2.2

Type
CDM Unit of Functionality

2 ZoneElement

Definition
ZoneElement is a BreakdownElement that represents a 3 dimensional space within a Product.

References
- BreakdownElement, refer to Chap 2.2
- Product, refer to Chap 2.16

Example
A work area, such as a mechanical workshop onboard a ship.

Type
UML Class

3 ZoneElementRevision

Definition
ZoneElementRevision is an issue of a ZoneElement.

Reference
ZoneElement, refer to Para 2

Type
UML Class

4 zoneElementType

Definition
zoneElementType is a classification that identifies further specialization of a ZoneElement.

Reference
ZoneElement, refer to Para 2

Examples
- zone
- workArea

Type
CDM ClassificationType

Chapter 2.27

Glossary - 0-9

Table of contents

List of tables

References

Table 1 References

Chap No./Document No.	Title
None	

1 No glossary entries

No glossary entries begin with the numbers 0-9.