

Easy Access Rules XML Export Documentation

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Contents

1	Introduction	5
1.1	About this document	5
1.2	Audience	5
1.3	Overview	5
1.4	Feedback and comments	5
2	About the information architecture.....	5
3	How can exported Easy Access Rules be used?	6
3.1	Introduction	6
3.2	Overall structure of the XML file.....	8
3.3	Opening with Word	12
3.4	XML processing	12
4	Resources	14
4.1	Wikipedia references	14
4.2	XML namespaces	14
4.3	XML schemas	15
4.4	Open XML SDK	15
5	Technical schema documentation	17
5.1	Overview	17
5.2	Attribute topic-metadata — business description of the metadata	17
5.2.1	Multiple values	17
5.2.2	Attribute topic-metadata / @ERulesId	17
5.2.3	Attribute topic-metadata / @Domain	18
5.2.4	Attribute topic-metadata / @ActivityType.....	18
5.2.5	Attribute topic-metadata / @AircraftCategory	20
5.2.6	Attribute topic-metadata / @AircraftUse	20
5.2.7	Attribute topic-metadata / @AmendedBy	21
5.2.8	Attribute topic-metadata / @ApplicabilityDate	21
5.2.9	Attribute topic-metadata / @EntryIntoForceDate	21
5.2.10	Attribute topic-metadata / @EquivalentForeignRegulation.....	22
5.2.11	Attribute topic-metadata / @ICAOReference.....	23



5.2.12	Attribute topic-metadata / @Keywords	23
5.2.13	Attribute topic-metadata / @RegistryState.....	26
5.2.14	Attribute topic-metadata / @RegulatedEntity	26
5.2.15	Attribute topic-metadata / @RegulatorySource.....	27
5.2.16	Attribute topic-metadata / @RegulatorySubject.....	28
5.2.17	Attribute topic-metadata / @TechnicalSubjectMatter.....	28
5.2.18	Attribute topic-metadata / @TypeOfContent	29
5.2.19	Attribute topic-metadata / @ParentIR	30
5.2.20	Attribute topic-metadata / @EASACategory	31
5.2.21	Attribute document-metadata / @guid.....	32
5.2.22	Attribute document-metadata / @pub-time.....	32
5.2.23	Attribute document-metadata / @map-url.....	32
5.2.24	Attribute document-metadata / @pub-template-url	32
5.2.25	Attribute document-metadata / @xslt-url	32
5.2.26	Attribute document-metadata / @source-title	32



1 Introduction

1.1 About this document

The EASA eRules is a platform for storing and sharing of rules. It is the single, easy-access, online database for all aviation rules applicable to European airspace users. One of the eRules' outputs are Easy Access Rules, which were shared, so far, in two formats – in pdfs and as online publications. These two formats already considerably increased stakeholders' work efficiency and reduced the need of locally consolidated documents.

As part of this project, European Aviation Safety Agency (EASA) offers to its stakeholders Easy Access Rules in the Extensible Markup Language (XML) format. This format allows for machine-to-machine integration and can easily be processed and automated by users, as well as incorporated into local applications, search databases, etc.

The document describes the XML publishing format of EASA Easy Access Rules, including the XML schemas used.

1.2 Audience

The document is mostly aimed at technical personnel that need to further process the EASA Easy Access Rules (the content and metadata) in the XML format.

1.3 Overview

The document is divided into four main parts

- About the information architecture (Chapter 2)
- How to use the content, what are the possibilities (Chapter 3)
- A catalogue of links to schema resources and supplemental documentation (Chapter 4)
- The actual XML schema documentation for the EASA namespace (Chapter 5)

1.4 Feedback and comments

Please send your feedback and comments on this document by using the Easy Access Rules area on the [contact us](#) form.

2 About the information architecture

2.1 Overall information architecture

In eRules and in the exported XML file(s) of Easy Access Rules, the content is separated into smaller components called topics. A topic can be:

- an EU implementing rule (IR);
- an EU delegated rule (DR);



- an EASA acceptable means of compliance (AMC);
- EASA guidance material (GM); and
- EASA certification specification (CS).

In the release 1.0.0 of the eRules XML Export specification, a topic's content is considered an opaque data structure. This means that in this release, the specification does not define the internal structure of the topic. Nevertheless, an implementation may choose to use the various OOXML formatting tags available inside the topics content to identify data and extract it.

Each topic has an associated set of metadata providing more information about the topic, such as the applicable aviation domain, applicability date, etc. In the exported XML file, the metadata is represented as XML attributes. For a description of the metadata associated with a topic, see Chapter [5.2](#).

The topics are assembled in a tree-like structure, which represents the conceptual relationships between different types of topics.

Thus, the topics representing IRs, DRs and CSs may appear as superior nodes on a level of the tree while topics containing AMCs and GMs will appear as subordinate nodes to the respective IRs, DRs and CSs. Please note that the combination of superior and subordinate nodes can vary, e.g. an AMC can be a superior node to a subordinate GM to AMC. The semantic of such an arrangement is the same that can be recognised from the PDF and/or online format of the Easy Access Rules publications, available on the [EASA website](#).

This structure is represented in the extracted XML file as a hierarchy of XML elements, as described in the Chapter [3](#). The attribute ParentIR (see [5.2.19](#)) provides an additional link between a GM or AMC topic and its parent IR, DR or CS topic.

3 How can exported Easy Access Rules be used?

3.1 Introduction

The international standard Office Open XML format ECMA-376/ISO/IEC 29500 was selected as the XML standard for the export of the Easy Access Rules.

When using the Open Packaging Conventions (OPC) form of said standard, specified in Part 2 of the ISO/IEC 29500 documentation, the content is extracted as a single XML file that embeds all text, graphics, images, formulas or other objects; in this case, it also includes the special Easy Access Rules XML content, including its metadata.

This format was selected because it provides the following benefits:

- it is a well-documented, non-proprietary, international ISO XML standard;



- it is very stable, with a well-ordered maintenance process;
- it is an XML standard that can be:
 - machine-processed by any standard XML parser providing objects and application programming interfaces (APIs),
 - transformed using extensible style sheet language transformation (XSLT), and
 - edited by any standard XML or plain text editors;
- it allows the content to be opened directly with Microsoft Word (2013 or later version);
- it provides zero-loss processing: any piece of the original content is preserved;
- it is flexible enough to host and embed all extra EASA metadata and other enriching types of content, as described in this document; and
- there are freely available tools for its format, for example the Open XML SDK 2.5.



3.2 Overall structure of the XML file

A file packaged in Open Packaging Conventions (OPC) format consists of many individual packages, as shown below:

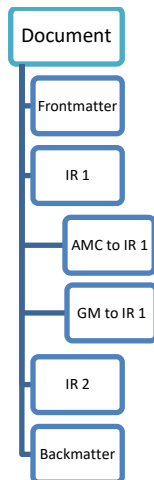
```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<?mso-application progid="Word.Document"?>
<pkg:package xmlns:pkg="http://schemas.microsoft.com/office/2006/xmlPackage">
  <pkg:part pkg:name="/_rels/.rels" [18 lines]
  <pkg:part pkg:name="/word/_rels/document.xml.rels" [107 lines]
  <pkg:part pkg:name="/word/document.xml" [1527 lines]
  <pkg:part pkg:name="/word/footnotes.xml" [95 lines]
  <pkg:part pkg:name="/word/footer1.xml" [176 lines]
  <pkg:part pkg:name="/word/footer4.xml" [348 lines]
  <pkg:part pkg:name="/word/header4.xml" [236 lines]
  <pkg:part pkg:name="/word/header5.xml" [128 lines]
  <pkg:part pkg:name="/word/footer3.xml" [176 lines]
  <pkg:part pkg:name="/word/header1.xml" [101 lines]
  <pkg:part pkg:name="/word/footer2.xml" [340 lines]
  <pkg:part pkg:name="/word/endnotes.xml" [58 lines]
  <pkg:part pkg:name="/word/header2.xml" [113 lines]
  <pkg:part pkg:name="/word/header3.xml" [107 lines]
  <pkg:part pkg:name="/word/_rels/footer4.xml.rels" [9 lines]
  <pkg:part pkg:name="/word/_rels/header5.xml.rels" [9 lines]
  <pkg:part pkg:name="/word/_rels/footer2.xml.rels" [9 lines]
  <pkg:part pkg:name="/word/_rels/header4.xml.rels" [12 lines]
  <pkg:part pkg:name="/word/_rels/header2.xml.rels" [9 lines]
  <pkg:part pkg:name="/word/_rels/header3.xml.rels" [9 lines]
  <pkg:part pkg:name="/word/_rels/header1.xml.rels" [12 lines]
  <pkg:part pkg:name="/word/media/image2.png" pkg:contentType="image/png" pkg:compression="store"> [6490 lines]
  <pkg:part pkg:name="/word/media/image1.png" pkg:contentType="image/png" pkg:compression="store"> [1672 lines]
  <pkg:part pkg:name="/word/media/image3.png" pkg:contentType="image/png" pkg:compression="store"> [176 lines]
  <pkg:part pkg:name="/word/media/image5.png" pkg:contentType="image/png" pkg:compression="store"> [545 lines]
  <pkg:part pkg:name="/word/theme/theme1.xml" [288 lines]
  <pkg:part pkg:name="/word/media/image4.png" pkg:contentType="image/png" pkg:compression="store"> [822 lines]
  <pkg:part pkg:name="/word/glossary/document.xml" [119 lines]
  <pkg:part pkg:name="/word/glossary/_rels/document.xml.rels" [18 lines]
  <pkg:part pkg:name="/word/attachedToolbars.bin" [42 lines]
  <pkg:part pkg:name="/word/glossary/settings.xml" [206 lines]
  <pkg:part pkg:name="/word/_rels/customizations.xml.rels" [9 lines]
  <pkg:part pkg:name="/word/customizations.xml" [10 lines]
  <pkg:part pkg:name="/word/settings.xml" [905 lines]
  <pkg:part pkg:name="/customXml/_rels/item7.xml.rels" [9 lines]
  <pkg:part pkg:name="/customXml/_rels/item6.xml.rels" [9 lines]
  <pkg:part pkg:name="/customXml/_rels/item5.xml.rels" [9 lines]
```

These packages contain style information, external links, images, etc. Of primary interest are the following two parts:

- `<pkg:part pkg:name="/word/document.xml"`



This part contains the body text of the published Easy Access Rules:



- `<er:document xmlns:er="http://www.easa.europa.eu/erules-export">`

It is the package part that contains the specific EASA XML elements, associated with the above namespace and described in the Schema Definition file EASA-eRules-XML-Export-Schema-1.0.0.xsd.

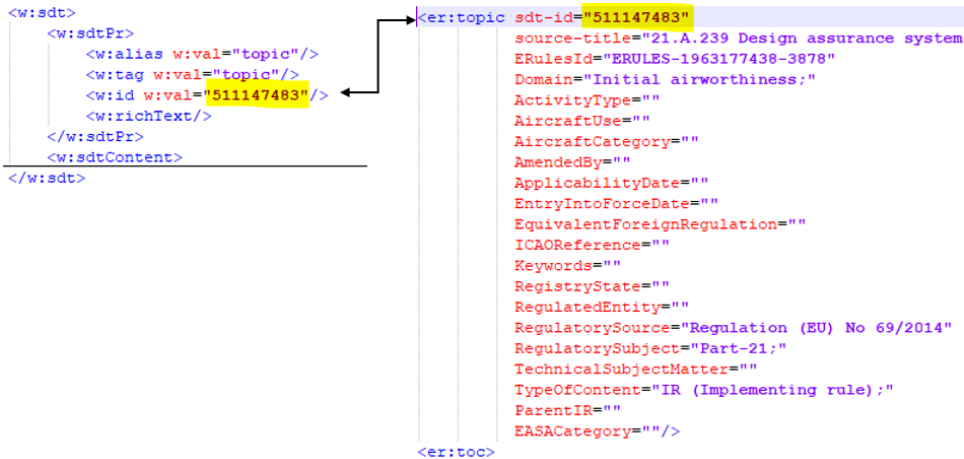
In this example, it is contained in the package part `<pkg:part pkg:name="/customXml/item3.xml">`, but the item number varies from document to document:



```

<er:document guid="1fd394fa-216e-4561-8aca-24a5e9efc26e" pub-time="2022-05-03T11:23:09Z"
map-url="/dx4/Maps/cloned-4041c40a-8606-438a-ae68-b4894924blcd.xml"
pub-template-url="/dx4/Open XML Publishing Templates/CAdomain.dotm"
xslt-url="/dx4/Xslt/EASAErulesXMLPublishing-ExtendedVersion-RC18.xslt"
source-title="Consolidated Part-T Domain="" ActivityType="" AircraftUse=""
AircraftCategory="" AmendedBy="" ApplicabilityDate="" EntryIntoForceDate=""
EquivalentForeignRegulation="" ICAOReference="" Keywords="" RegistryState=""
RegulatedEntity="" RegulatorySource="" RegulatorySubject=""
TechnicalSubjectMatter="" TypeOfContent="" EASACategory=""
xmlns:er="http://www.easa.europa.eu/erules-export">
<er:toc>
  <er:heading sdt-id="-942256370" title="GENERAL"/>
  <er:toc>
    <er:topic sdt-id="-1340475834" source-title="T.1 Competent authority"
ERulesId="ERULES-1963177438-500" Domain="Continuing airworthiness;"
ActivityType="Continuing airworthiness management;"
AircraftUse="Used by licensed air carrier (LAC);"
AircraftCategory="Complex motor-powered aircraft (CMPA);Non-complex motor-powered aircraft (non-CMPA);"
AmendedBy="" ApplicabilityDate="25 August, 2016"
EntryIntoForceDate="7 October, 2015" EquivalentForeignRegulation=""
ICAOReference="" Keywords="Air operator certificate (AOC);"
RegistryState="Non-EU registered;"
RegulatedEntity="Competent authority;"
RegulatorySource="Regulation (EU) 2015/1536" RegulatorySubject="Part-T;"
TechnicalSubjectMatter="" TypeOfContent="IR (Implementing rule);"
ParentIR="" EASACategory=""/>
    <er:toc>
      <er:topic sdt-id="1633389553" source-title="GM T.1 Competent authority"
ERulesId="ERULES-1963177438-523" Domain="Continuing airworthiness;"
ActivityType="Continuing airworthiness management;"
AircraftUse="Used by licensed air carrier (LAC);"
AircraftCategory="Complex motor-powered aircraft (CMPA);Non-complex motor-powered aircraft (non-CMPA);"
AmendedBy="" ApplicabilityDate="24 March, 2020"
EntryIntoForceDate="14 March, 2020" EquivalentForeignRegulation=""
ICAOReference="" Keywords="" RegistryState="Non-EU registered;"
RegulatedEntity="Competent authority;Aircraft operator;"
  
```

A topic's content in the /word/document.xml part is embedded in an <w:sdt> element. The enclosed <w:sdtPr> element contains an element <w:id> whose attribute w:val contains the key value which can be used to locate, in the file, the metadata corresponding to that topic. Thus, the corresponding metadata can be retrieved from the <er:topic> element having the sdt-id attribute with the same value as the w:val attribute identified above.



Please note that the value of the `sdt-id` attribute is only valid as an internal pointer within the same XML file and is not guaranteed to remain the same in different versions of the same XML file. Therefore, it cannot be used as a unique identifier for a topic across several XML files. For such purpose, please use the attribute `ERulesId` see [Attribute topic-metadata / @ERulesId](#)

Document metadata	<pre> <er:document xmlns:er="http://www.easa.europa.eu/erules-export" guid="1fd394fa-216e-4561-8aca-24a5e9efc26e" pub-time="2022-05-03T11:23:09Z" map-url="/dx4/Maps/cloned-4041c40a-8606-438a-ae68-b4894924blcd.xml" pub-template-url="/dx4/Open XML Publishing Templates/CAdomain.dotm" xslt-url="/dx4/Xslt/EASAErulesXMLPublishing-ExtendedVersion-RC18.xslt" source-title="Consolidated Part-T" Domain="" ActivityType="" AircraftUse="" AircraftCategory="" AmendedBy="" ApplicabilityDate="" EntryIntoForceDate="" EquivalentForeignRegulation="" ICAOReference="" Keywords="" RegistryState="" RegulatedEntity="" RegulatorySource="" RegulatorySubject="" TechnicalSubjectMatter="" TypeOfContent="" EASACategory=""> <er:toc> <er:heading sdt-id="-942256370" title="GENERAL"/> <er:toc> <er:topic sdt-id="-1340475834" source-title="T.1 Competent authority" ERulesId="ERULES-1963177438-500" Domain="Continuing airworthiness;" ActivityType="Continuing airworthiness management;" AircraftUse="Used by licensed air carrier (LAC);" AircraftCategory="Complex motor-powered aircraft (CMPA);Non-complex motor-p AmendedBy="" ApplicabilityDate="25 August, 2016" EntryIntoForceDate="7 October, 2015" EquivalentForeignRegulation="" ICAOReference="" Keywords="Air operator certificate (AOC);" RegistryState="Non-EU registered;" RegulatedEntity="Competent authority;" RegulatorySource="Regulation (EU) 2015/1536" RegulatorySubject="Part-T;" TechnicalSubjectMatter="" TypeOfContent="IR (Implementing rule);" ParentIR="" EASACategory=""/> <er:toc> <er:topic sdt-id="1633389553" source-title="GM T.1 Competent authority" ERulesId="ERULES-1963177438-523" Domain="Continuing airworthiness;" ActivityType="Continuing airworthiness management;" AircraftUse="Used by licensed air carrier (LAC);" AircraftCategory="Complex motor-powered aircraft (CMPA);Non-complex mot AmendedBy="" ApplicabilityDate="24 March, 2020" </pre>
TOC (indicates hierarchy placement)	
Heading	
TOC (indicates hierarchy placement)	
Topic 1 – with <code>sdt-id="1340475834"</code> and with <code>ERulesId="ERULES-1963177438-500"</code>	
TOC (indicates hierarchy placement)	
Topic 2 – with <code>sdt-id="1633389553"</code> and with <code>ERulesId="ERULES-1963177438-523"</code>	

Through this mechanism, all the EASA specific metadata are directly linked to the relevant content and are available to be extracted.

In addition to the `<er:topic>` element, the set of EASA specific XML elements include the `<er:heading>` element. This element has only a descriptive role. It can be used as a marker for locating inside the



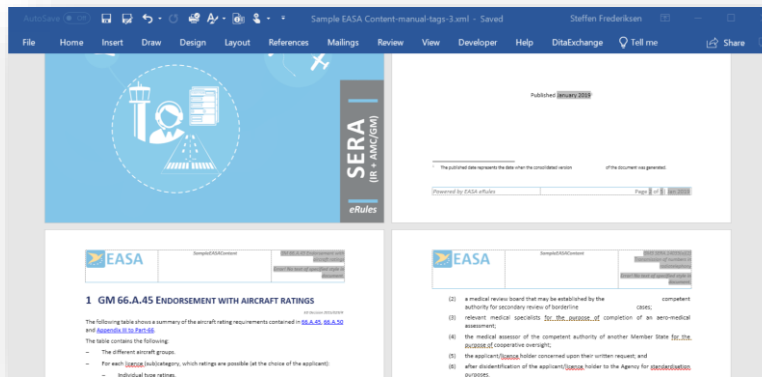
<er:document> tree where certain text (usually high level chapter's titles) is positioned in relation with neighbouring topics.

The binary content, for example images used in the document, is included as base64-encoded content, as shown below. The pkg:part elements containing binary content are referenced in the rest of the file in accordance with the OOXML specification

```
<pkg:part pkg:name="/word/media/image2.png" pkg:contentType="image/png" pkg:compression="store">
<pkg:binaryData>iVBORw0KGgoAAAANSUHEUgAABowAAALDCAIAAAHLNsUOAAAAAXNSR0IArs4c6QAAARnQU1BAACx
jwv8YQUAAAAJcEhZcwAAIdUAACHVAVQSetJ0AAP+1SURBVHhe7J0HeBzHefcpEQBRcFaJ6rYsy91x
4t5L3Jtc4rjFJXHiFsdOXL44juOgRkpsIAiAVZ1qpHqvVK8UCypJsPcCkuj9Dvze3ZkbzP233Pbb
25v3+QHP7uzs707Mf9+b3Z0yYerCxsR5CkWKTKC/kis3KRRRomSnyANKdoo8oGSnyANKdoo8oGSn
yANKdoo8oGSnyANKdoo8oGSnyANKdoo8oGSnyANKdoo8oGSnyANKdoo8oGSnyANKdoo84FF2XUOp
wLkhpXQcdpSUBQzYmT368F2QYcTui5dDyCKeWl7DgHUbDihN3dy/Tub283oNpCTkOyQIy3421
```

3.3 Opening with Word

The exported XML file can also be opened directly with Microsoft Word, allowing all normal Word functions to be performed on the content:



3.4 XML processing

In addition to being opened with Word, as shown above, the exported XML file can be validated, parsed, and processed using any standard XML parsers (providing APIs) and/or editors.



This supports many advanced scenarios, such as:

- adding the content to search databases, making full use of the EASA metadata;
- integrating the content into other systems and applications;
- extracting content and metadata;
- transforming content (XSLT) to any other text-based format; and
- extracting individual topics, with the full set of EASA metadata (see shortened example below):

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<?mso:application progid="Word.Document"?>
<topic xmlns="http://my.company.com/content"
  sdt-id="1480002001"
  source-title="GM 66.A.45 Endorsement with aircraft ratings"
  Domain="Continuing airworthiness"
  RegulatorySubject="Part-66"
  TypeOfContent="GM to IR (Guidance material to implementing rule)"
  RegulatedEntity="Aircraft maintenance licence (AML) holder"
  ActivityType="Licensing"
  AircraftCategory="Complex motor-powered aircraft (CMEA); Non-complex motor-powered aircraft (non-CMEA)"
  AircraftUse="Used by licensed air carrier (LAC); Used by private operator or for limited operations; Used for com
  RegistryState="EU-registered"
  EASACategory="Unpaved runway"
  TechnicalSubjectMatter="General"
  ICAOReference="Annex 2"
  EquivalentForeignRegulation="123456"
  RegulatorySource="ED Decision 2015/029/R"
  AmendedBy="Amendment 3"
  EntryIntoForceDate="2015-12-17"
  ApplicabilityDate="2015-12-17"
  Remarks="Type training; Limitation">
  <title>GM 66.A.45 Endorsement with aircraft ratings</title>
  <shortdesc>ED Decision 2015/029/R</shortdesc>
  <p>The following table shows a summary of the aircraft rating requirements contained in ...</p>
  <p>...</p>
  <p>...</p>
</topic>
```



4 Resources

This section provides links to relevant resources, including XML schemas, etc.

4.1 Wikipedia references

- Open Packaging Conventions
https://en.wikipedia.org/wiki/Open_Packaging_Conventions
- Office Open XML
https://en.wikipedia.org/wiki/Office_Open_XML

4.2 XML namespaces

- EASA namespace <http://www.easa.europa.eu/erules-export>
- Word (Office Open XML) namespaces, including but not limited to:
 - <http://schemas.openxmlformats.org/markup-compatibility/2006>
 - <http://schemas.microsoft.com/office/drawing/2016/ink>
 - <http://schemas.microsoft.com/office/drawing/2017/model3d>
 - <urn:schemas-microsoft-com:office:office>
 - <http://schemas.openxmlformats.org/officeDocument/2006/relationships>
 - <http://schemas.openxmlformats.org/officeDocument/2006/math>
 - <urn:schemas-microsoft-com:vml>
 - <http://schemas.microsoft.com/office/word/2010/wordprocessingDrawing>
 - <http://schemas.openxmlformats.org/drawingml/2006/wordprocessingDrawing>
 - <urn:schemas-microsoft-com:office:word>
 - <http://schemas.openxmlformats.org/wordprocessingml/2006/main>
 - <http://schemas.microsoft.com/office/word/2010/wordml>
 - <http://schemas.microsoft.com/office/word/2012/wordml>
 - <http://schemas.microsoft.com/office/word/2016/wordml/cid>
 - <http://schemas.microsoft.com/office/word/2015/wordml/symex>
 - <http://schemas.microsoft.com/office/word/2010/wordprocessingGroup>
 - <http://schemas.microsoft.com/office/word/2010/wordprocessingInk>



- <http://schemas.microsoft.com/office/word/2006/wordml>
- <http://schemas.microsoft.com/office/word/2010/wordprocessingShape>

4.3 XML schemas

If needed, the full Office Open XML schemas for Word are available for free download from here:
[https://msdn.microsoft.com/en-us/library/dd952656\(v=office.12\).aspx](https://msdn.microsoft.com/en-us/library/dd952656(v=office.12).aspx)

The XML schema definition corresponding to the namespace:

<http://www.easa.europa.eu/erules-export>

is included in the file EASA-eRules-XML-Export-Schema-1.0.0 accompanying this document.

4.4 Open XML SDK

Open XML Software Development Kit (SDK) documentation:

<https://docs.microsoft.com/en-us/office/open-xml/open-xml-sdk>

Open XML SDK on GitHub:

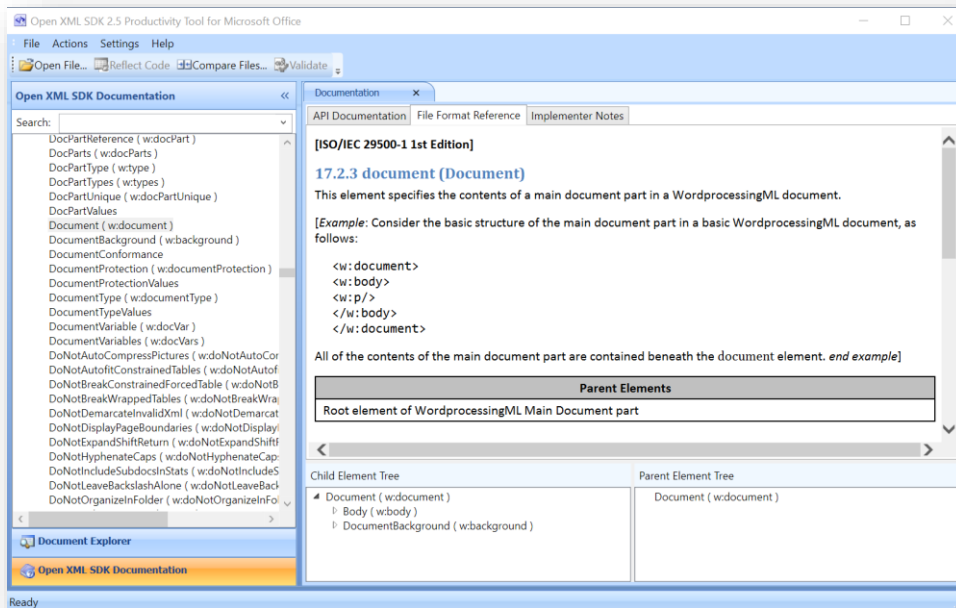
<https://github.com/OfficeDev/Open-XML-SDK>

It is recommended to download the free Open XML SDK from this location:

<https://www.nuget.org/packages/DocumentFormat.OpenXml/>

In addition to various other useful tools, the SDK contains the complete ISO/IEC 29500-1 official standard documentation accessible from the Open XML SDK 2.5 Productivity tool (<https://github.com/OfficeDev/Open-XML-SDK/releases/tag/v2.5>), as illustrated below:





5 Technical schema documentation

5.1 Overview

The technical schema documentation is available on the XML website.

5.2 Attribute topic-metadata — business description of the metadata

5.2.1 Multiple values

Some attributes/metadata fields can have multiple separate values. For example:

```
AircraftCategory = 'Complex motor-powered aircraft (CMPA); Non-complex motor-powered aircraft (non-CMPA)'
```

In this case, a semicolon `;` is used to separate the values.

5.2.2 Attribute topic-metadata / @ERulesId

Description

A unique identifier attribute for every topic in the exported XML file, which allows the unique identification of a topic across all the exported XML files from EASA.

The ERulesId value is unchanged:

- from publication to publication, everywhere the topic is reused; and
- from version to version, throughout the entire life cycle of the topic.

Example:

- ERulesId="ERULES-1891294191-107"



5.2.3 Attribute topic-metadata / @Domain

Description The civil aviation domains as per [Regulation EU 2018/1139](#) (the EASA ‘New Basic Regulation’), [Regulation \(EU\) No 628/2013](#) (the ‘Standardisation Inspections Regulation’).

Examples (non-inclusive list):

- Air Operations (Air OPS),
- Continuing Airworthiness (CAW),
- Aircrew,
- Basic Regulation (BR),
- Balloons,
- Air Traffic Management (ATM / Air Navigation Services (ANS)),
- Third-Country Operators (TCO),
- Aerodromes (ADR).

5.2.4 Attribute topic-metadata / @ActivityType

Description Technical description of the type of activity performed by specific domain.

Note: As of this release, this attribute may contain empty or not up-to-date values.

Examples (non-inclusive list):

- licensing,
- maintenance,
- training,
- examination,
- CAW management,
- airworthiness review certificate (ARC),
- aircraft maintenance programme (AMP),



- assessment,
- aircraft CAW monitoring (ACAM),
- oversight,
- aerodrome data,
- safety management system (SMS),
- notification of differences to ICAO,
- Aeronautical Information Services (AIS),
- Air Traffic Control (ATC) services,
- Air Traffic Services (ATS),
- Meteorological Services (MET),
- Aerodrome Flight Information Services (AFIS),
- Flight Information Services (FIS),
- aerodrome maintenance,
- aerodrome safety management,
- authority management system,
- medical,
- training,
- certification,
- Apron Management Services (AMS),
- aerodrome operations,
- aerodrome design,
- manufacturing.



5.2.5 Attribute topic-metadata / @AircraftCategory

Description

Identification of the applicable requirements by specific category of aircraft.

Note: As of this release, this attribute may contain empty or not up-to-date values.

Examples (non-inclusive list):

- complex motor-powered aircraft (CMPA),
- non-complex motor-powered aircraft (non-CMPA),
- ELA 1,
- ELA 2,
- sailplanes,
- balloons,
- large aeroplanes,
- large rotorcraft,
- small aeroplanes,
- small rotorcraft,
- very light rotorcraft (VLR),
- light sport aeroplanes (LSA),
- very light aeroplanes (VLA).

5.2.6 Attribute topic-metadata / @AircraftUse

Description

Identification of the applicable requirements by specific use of aircraft.

Note: As of this release, this attribute may contain empty or not up-to-date values.

Examples (non-inclusive list):

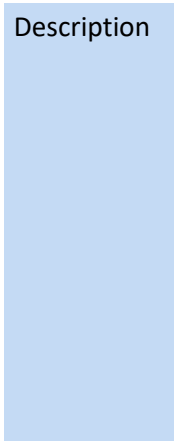
- used by licensed air carriers (LACs);
- used for commercial operations other than by a LAC, or by a commercial approved training organisation (ATO);





- used by private operators or for ‘limited operations’;
- used by commercial air transport (CAT).

5.2.7 Attribute topic-metadata / @AmendedBy

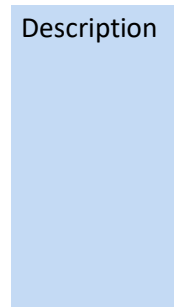


Description The number of the issue/amendment.

Examples (non-inclusive):

- CS Issue 1,
- CS Issue 2,
- CS Issue 3,
- Amendment 1,
- Amendment 2.

5.2.8 Attribute topic-metadata / @ApplicabilityDate

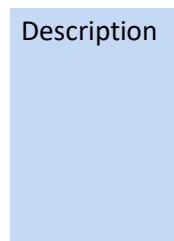


Description Regardless of the legal wording, this date is considered as the last possible date of the transition period (the end of the transition period).

Examples (non-inclusive list):

- 18 May, 2021,
- 25 April, 2018.

5.2.9 Attribute topic-metadata / @EntryIntoForceDate



Description The date of entry-into-force as indicated in the officially published regulatory material. It represents the date as of which a legally binding act begins to have legal force.

Examples (non-inclusive list):

- 18 May, 2021,



- 25 April, 2018.

5.2.10 Attribute topic-metadata / @EquivalentForeignRegulation

Description

It is important for the aircraft design community to be able to refer to applicable equivalent foreign design standards.

Note: As of this release, this attribute may contain empty or not up-to-date values.

Examples (non-inclusive list):

- Advisory Circular (AC) 20-153B,
- Federal Aviation Administration (FAA) (Federal Aviation Regulation) FAR-25,
- FAA Part-121.



5.2.11 Attribute topic-metadata / @ICAOReference

Description

Identification of the ICAO Standards and Recommended Practices (SARPs).

Note: As of this release, this attribute may contain empty or not up-to-date values.

Examples (non-inclusive list):

- Annex 2,
- Annex 3,
- Annex 4,
- Annex 10, Volume I,
- Annex 10, Volume II,
- Annex 10, Volume III,
- Annex 10, Volume IV,
- Annex 10, Volume V,
- Annex 11,
- Annex 14, Volume I,
- Annex 14, Volume II,
- Annex 15,
- Annex 19, Chapter 3,
- Annex 19, Chapter 4.

5.2.12 Attribute topic-metadata / @Keywords

Description

Additional metadata category.

Note: As of this release, this attribute may contain empty or not up-to-date values.

Examples (non-inclusive list):

- limitation,



- qualification,
- training,
- audit,
- subcontract,
- record,
- operational suitability data (OSD),
- management personnel,
- application,
- airworthiness directive (AD),
- airworthiness limitations section (ALS),
- air operator certificate (AOC),
- aircraft flight manual (AFM),
- transfer,
- independent inspection,
- occurrence reporting,
- permit to fly,
- line,
- base,
- experience,
- pilot-owner maintenance,
- endorsement,
- conversion,
- examination credit,
- type training,
- type examination,
- exposition,



- on-the-job training (OJT),
- training needs analysis (TNA),
- authorisation,
- maintenance organisation manual (MOM),
- basic training,
- differences training,
- task training,
- small organisation,
- contract,
- minimum inspection programme,
- component,
- work order,
- reliability programme,
- pre-flight,
- minimum equipment list (MEL),
- maintenance data,
- escalation,
- reliability programmes,
- critical task,
- non-destructive inspection (NDI),
- bilateral agreement,
- fabrication,
- components,
- assessment,
- examination,
- non-destructive testing (NDT),



- exception,
- used,
- import/export.

5.2.13 Attribute topic-metadata / @RegistryState

Description	<p>Identification of the applicable requirements by aircraft State of registry.</p> <p>Note: As of this release, this attribute may contain empty or not up-to-date values.</p> <p>Examples (non-inclusive list):</p> <ul style="list-style-type: none">• EU-registered,• Non-EU-registered.
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5.2.14 Attribute topic-metadata / @RegulatedEntity

Description	<p>The main legal person or entity to whom the requirements are addressed: aviation industry or competent authority stakeholders.</p> <p>Note: As of this release, this attribute may contain empty or not up-to-date values.</p> <p>Examples (non-inclusive list):</p> <ul style="list-style-type: none">• competent authority,• EASA,• aircraft operator,• aircraft maintenance license (AML) holder,• approved maintenance organisation (AMO),• certifying staff,• maintenance training organisation,• aircraft owner,
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- continuing-airworthiness management organisation (CAMO),
- pilot-in-command (PIC),
- Member State (MS),
- type certificate (TC) holder,
- restricted type certificate (RTC) holder,
- supplemental type certificate (STC) holder,
- design approval holder (DAH),
- European Technical Standard Order (ETSO) authorisation holder,
- production approval holder,
- alternative procedure to design organisation approval (AP-DOA) holder,
- production organisation without production organisation approval (POA).

5.2.15 Attribute topic-metadata / @RegulatorySource

Description Identification of the regulatory document introducing the topic or the last amendment thereto ('initial or further issues' or 'amendments').

Examples (non-inclusive list):

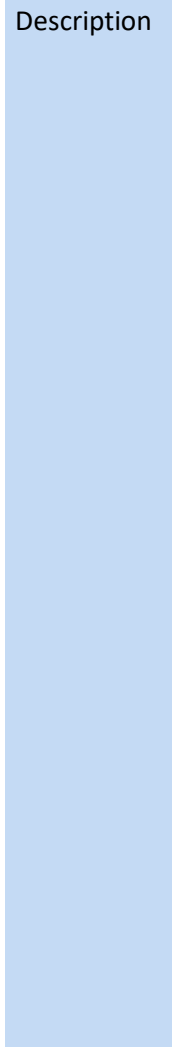
- ED Decision 2015/029/R,
- Regulation (EU) No 1321/2014,
- Regulation (EU) 2015/1536,
- Regulation (EU) 2015/1088,
- Regulation (EU) 2015/1536,
- ED Decision 2016/011/R,
- ED Decision 2017/016/R,
- ED Decision 2019/009/R,
- ED Decision 2019/024/R,
- Regulation (EU) 2018/1142,





- Regulation (EU) 2019/1383,
- Regulation (EU) 2020/270.

5.2.16 Attribute topic-metadata / @RegulatorySubject

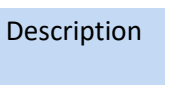


Description Reference to the relevant regulatory material (cover regulation, annex=part). It refers to the structure of the regulatory material as published on the Official Journal (OJ) of the European Union or on the EASA website.

Examples (non-inclusive list):

- cover regulation,
- Part-M,
- Part-145,
- Part-T,
- Part-66,
- Part-147,
- Part-CAMO,
- Part-CAO,
- Part-ML,
- Part-ADR.AR,
- Part-ADR.OPS,
- Part-ADR.OR,
- CS-HPT-DSN,
- CS-ADR-DSN.

5.2.17 Attribute topic-metadata / @TechnicalSubjectMatter



Description Standard breakdown number of the technical system.



Note: As of this release, this attribute may contain empty or not up-to-date values.

Examples (non-inclusive list):

- ATA chapter,
- general,
- runways,
- runway end safety area,
- taxiways,
- aprons,
- isolated aircraft parking positions,
- de-icing/anti-icing facilities,
- obstacle limitation surfaces/requirements,
- indicators and signalling devices,
- markings,
- lights,
- signs,
- markers,
- obstacles,
- restricted-use areas,
- electrical systems,
- operational services, equipment, and installation.

5.2.18 Attribute topic-metadata / @TypeOfContent

Description Identification of the type of regulatory material

Examples (non-inclusive list):

- IR (Implementing rule),



- DR (Delegated rule),
- AMC to IR (Acceptable means of compliance to implementing rule),
- GM to AMC (Guidance material to acceptable means of compliance),
- CS (Certification specification).

5.2.19 Attribute topic-metadata / @ParentIR

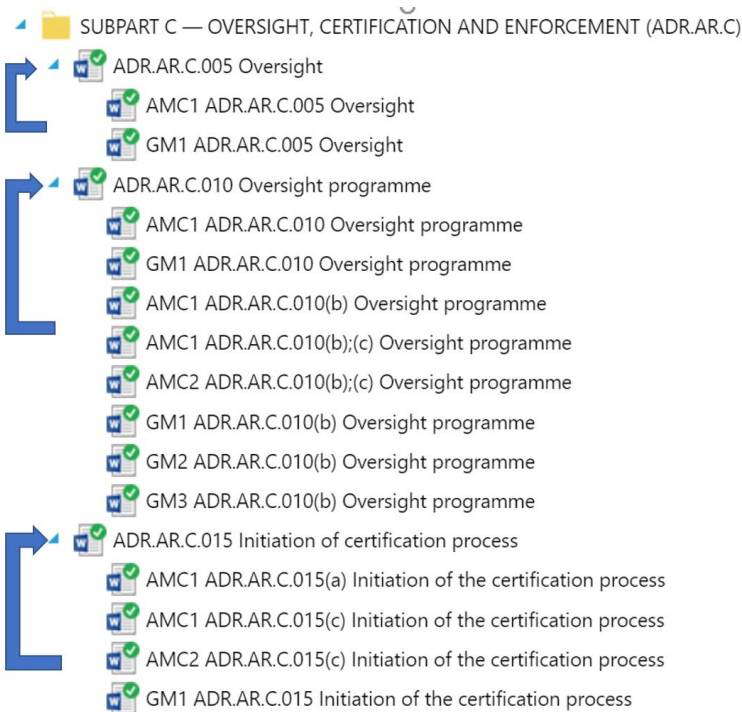
Description

Identification of the 'parent-child' relationship between a superior and subordinate topic in a nested structure. Typically, the IR/CS are 'parent' topics, and the related AMC/GM are 'child' topics. That relationship, however, can happen between different types of content.

This attribute holds the title of the 'parent' IR/CS topic of the AMC/GM 'child' topics. For example, for each AMC/GM in a consolidated publication, it will hold a value if the following condition is met:

- the topic has a direct topic parent in the nested structure one level up in the table of contents (ToC) hierarchy.





5.2.20 Attribute topic-metadata / @EASACategory

Description A list containing the runways intended for the operation of aircraft using visual approach procedures or instrument approach procedures, as well as the type of the runway's surface.

Note: As of this release, this attribute may contain empty or not up-to-date values.

Examples (non-inclusive list):

- non-instrument approach runway,
- non-precision approach runway,
- precision approach runway Category I,
- precision approach runway Category II,
- precision approach runway Category III,
- take-off runway,
- unpaved runway.



5.2.21 Attribute document-metadata / @guid

- Description The is a globally unique identifier for exactly *this* published version of Easy Access Rules.
- Example: 9bbcb121-8886-4a13-986f-4a47ad7ee7bb

5.2.22 Attribute document-metadata / @pub-time

- Description Exact publishing time of the XML file.
- Example: 2022-03-09T10:50:36Z

5.2.23 Attribute document-metadata / @map-url

- Description For EASA internal use only.

5.2.24 Attribute document-metadata / @pub-template-url

- Description For EASA internal use only.

5.2.25 Attribute document-metadata / @xslt-url

- Description For EASA internal use only.

5.2.26 Attribute document-metadata / @source-title

- Description Title of the publication (the XML file).
- Example: Annex II (Part-BOP) — BALLOON AIR OPERATIONS

