

5. Taxonomy Browser

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5.1. Taxonomy

The E2 system is built around the ECCAIRS taxonomy, constituted by ADREP taxonomy + ECCAIRS/EU specific taxonomy. While most of it is centrally maintained, in accordance with specific governance through the NA's established Data and Quality Working Group, there is also the possibility for Authorities to maintain their own custom taxonomy, which allows them to adapt their usage of E2 to their own processes.

The taxonomy browser is a portal of the E2 System that provides detailed information of all the ECCAIRS taxonomy structures, entities, attributes and value lists in an easy-to-use UI.

The taxonomy browser is only for consulting purposes.

The Officer has to access the taxonomy menu to access the central or custom taxonomy for the Officer's Authority. See the List of taxonomies section for further details.

The Taxonomy tree and the search bar are displayed on the left side of the screen. They can be hidden by clicking on the 'arrow' icon. The left panel is resizable by clicking on the 3-dot menu and moving it to the left or the right.

The Officer can navigate the tree by unfolding the arrows and clicking the displayed elements. The information on the selected element will be displayed on the right side.

TAXONOMY BROWSER7.0.2.0ReleasedTaxonomyInternational OrganisationsEASA_ECCAIRS21-Sep-2023

StructureValue List

type to filter

Recommendation

All Attributes

Addressee

Attachments

Database History

Document reference

Modifications

Note

Occurrence

PiggyBack

Previous Recommendations

Recommendation

Entity ID: 1Description: Recommendation

Detailed: The safety recommendation details.

Explanation: The details about the safety recommendation issued. Safety recommendation. A proposal of an accident investigation authority, based on information derived from an investigation, made with the intention of preventing accidents or incidents and which in no case creates a presumption of blame or liability for an accident or incident. In addition to safety recommendations arising from accident and incident investigations, safety recommendations may result from diverse sources, including safety studies. [ICAO Annex 13 Chapter 1 - Amendment to the definition of Safety Recommendation]

XSD Tag: Recommendation

Parent:

Parent EntitiesChild EntitiesAttributes

ID ^	Description	Custom	Mandatory	Multiple Values	
		(All)			
1	SRIS number		Mandatory	Single value	
2	Originator		Mandatory	Single value	
3	Date report created		Optional	Single value	
4	Report last modified		Optional	Single value	
6	Lock/release by		Optional	Single value	
7	Lock/release since		Optional	Single value	
8	Lock status		Optional	Single value	

5.2. Search

Entities and Attributes can be found by typing the Taxonomy Code or the Description in the Search box.

By Taxonomy code:

TAXONOMY BROWSER7.0.2.0ReleasedTaxonomyInternational OrganisationsEASA_ECCAIRS21-Sep-2023

StructureValue List

24

Recommendation

All Attributes

SR status

Addressee

Response Text

SR status

DefinitionValues

DEFINITION

Attribute ID: 24

Description: SR status

Detailed: Recommendation status

Explanation: The present status of the recommendation file (as determined by the originator).

XSD Tag: A24

Group:

Taxonomy: SRIS

References:

Domains: Public

Entity: Recommendation

Personal Data: ✖

Custom Attrib: ✖

INSTANCE

Mandatory: Optional

Multiple: Single value

Values:

VALUES

Attribute Type: PredefinedValueList

Data Type: Code

Size:Decimals: 0

Class Unit:

Storage:Display:

Value List: VL for attrID24 - Recommendation status

Read Only: ✖

ADVANCED PROPERTIES

Case Type:

Limit Low:Limit High:

Input Mask:Output Mask:

By Description:

Structure Value List

SR St

Recommendation

All Attributes

SR status

SR status

Definition Values

DEFINITION

Attribute ID: 24
 Description: SR status
 Detailed: Recommendation status
 Explanation: The present status of the recommendation file (as determined by the originator).
 XSD Tag: A24
 Group:
 Taxonomy: SRIS
 Reference:
 Domains: Public
 Entity: Recommendation
 Personal Data: ✗
 Custom Attrib: ✗

VALUES

Attribute Type: PredefinedValueList
 Data Type: Code
 Size: Decimals: 0
 Class Unit:
 Storage: Display:
 Value List: VL for attrID24 - Recommendation status
 Read Only: ✗

ADVANCED PROPERTIES

Case Type:
 Limit Low: Limit High:
 Input Mask: Output Mask:

INSTANCE

Mandatory: Optional
 Multiple: Single value
 Values:

air

Type:

Group:

Domain:

☐ Is Linked

CLEAR FILTER SEARCH

the Officer clicks the 'Advanced search' button.

The Officer can search attributes by:

- Type: attribute data type
- Group: the attributes are grouped by specific criteria defined by the taxonomy administrators, i.e. Maintenance, Management, etc.
- Domain: Attributes belonging to a certain domain, i.e., RIT, a subset of the ECCAIRS aviation taxonomy.
- For each filter, the Officer can select as many values as needed. Then, the Officer must click the 'Search' button to refresh the tree with the introduced filters.

air

Type: Code x Alphanumeric x

Group: Dangerous Goods x

Domain:

☐ Is Linked

CLEAR FILTER SEARCH

Additionally, the Officer can indicate if they want the linked entities shown in the Taxonomy tree. They are shown in green and cursive letters.

- ✓ Recommendation
 - > All Attributes
 - > Addressee
 - > Attachments
 - > Database History
 - > Document reference
 - > Modifications
 - > Note
- ✓ Occurrence
 - > All Attributes
 - ✓ Aircraft
 - > All Attributes
 - ✓ *Previous Recommendations*
 - ✓ All Attributes
 - Effectiveness
 - Recommendation

The Taxonomy Tree can be ordered alphabetically by clicking on the 'A-Z' icon or 'Z-A' icon :



You can collapse or expand all item of the Taxonomy Tree with the following buttons:

- Expand all



- Collapse all



5.3. Taxonomy structure

ECCAIRS and SRIS taxonomies have the same structure in 4 levels:

- Entities
- Attributes
- Value Lists
- Values

5.3.1 Entities

Entities represent objects to which attributes are assigned.

An entity could be, for example, the "Aircraft" involved in an incident or the "Events" describing the incident.

Multiple instances of an entity can exist if several such objects are involved in an event.

Entities can have child entities, e.g. "Engine" is a child entity of "Aircraft". Entities can also be linked to other entities.

5.3.1.1 Entities information

Entities in the Taxonomy tree are marked with icon . When the Entity is a Linked Entity, it is also marked in green colour.

The following information will be displayed on the right side of the screen when the Officer clicks on an Entity in the Taxonomy tree:

- Entity information: A summary of the selected Entity.
- Parent Entities: The list of its parent Entities
- Child Entities: The list of its children Entities
- Attributes. The list of its Attributes

Click on each tab (Parent Entities, Child Entities, Attributes) to view the relevant information:

Structure

Value List

Type:

Group:

Domain:

☒ Is Linked

CLEAR FILTER

SEARCH

Recommendation

All Attributes

Addressee

All Attributes

90 days due date

Addressee

Areas of concern

Completion %

Date for first reply

Date response closed

Recomm. received

Recommendation assessment

Response priority

Response status

Addressee

Entity ID: 22

Description: Addressee

Detailed: The addressee response details.

Explanation: The details about the addressee and its response.

XSD Tag: Response

Parent: Recommendation

Parent Entities

Child Entities

Attributes

ID ^	Description	Custom
		(All)
50	Addressee	
52	Recomm. received	
53	Date for first reply	
55	Recommendation assessment	
56	Response priority	
58	Response status	
59	Date response closed	
100	Completion %	

5.3.2 Attributes

Attributes describe properties/values associated with an entity. An attribute of the “Aircraft” entity is, for instance, its "manufacturer/model". Attributes can have single or multiple values.

- Number
- Decimals
- Text
- Alphanumeric
- Date
- Time
- DateTime
- Longitude
- Latitude
- Code
- Code and Additional Text
- Code or Alternative Text
- ECCAIRS Resource Locator
- ECCAIRS Data Link
- ECCAIRS Embedded Data

5.3.2.1 Attributes information

The Attributes are marked with  icon in the Taxonomy Tree.

The Officer can view the information of an Attribute from two places in the Taxonomy Browser:

- a. Find an attribute in the Taxonomy Tree and click it:

Closure date	
DEFINITION	VALUES
Attribute ID: 27	Attribute Type: Manual Entry
Description: Closure date	Data Type: Date
Default: Date recommendation closed	Size: Decimals: 0
Explanation: The date the recommendation was closed by the originator. NB: Enter as dd/mm/yyyy or use the calendar function.	Class Unit:
XSD Tag: A27	Storage: Display:
Group:	Value List:
Synonymy: SRS	Read Only: ✗
Reference:	
Domain: Public	
Entity: Recommendation	
Personal Data: ✗	
Custom Attribute: ✗	
INSTANCE	ADVANCED PROPERTIES
Mandatory: Optional	Cast Type:
Multiple: Single value	Limit Case:
Values:	Input Mask: Link Width: Output Mask:

- b. Select the Entity to which the Attribute belongs and click on the 'Attribute' tab. The Officer will see all the Attributes of the selected Entity.

Aircraft		Description: Aircraft			
Entity ID:	9				
Detailed:	The aircraft information.				
Explanation:	Information on involved aircraft.				
XSD Tag:	Aircraft				
Parent:	Occurrence				

Parent Entities	Child Entities	Attributes
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ID#	Description	Custom	Mandatory	Multiple Values
T	T	(Alt)	T	T
38	Registration		Optional	Single value
39	Manufacturer model		Optional	Single value
94	Operator		Optional	Single value
136	Category		Optional	Single value
137	Mass price		Optional	Single value
138	Max take off mass		Optional	Single value
139	Engine model		Optional	Single value
189	Operation type		Optional	Single value

Click on the 'Eye' icon to view the detailed information.

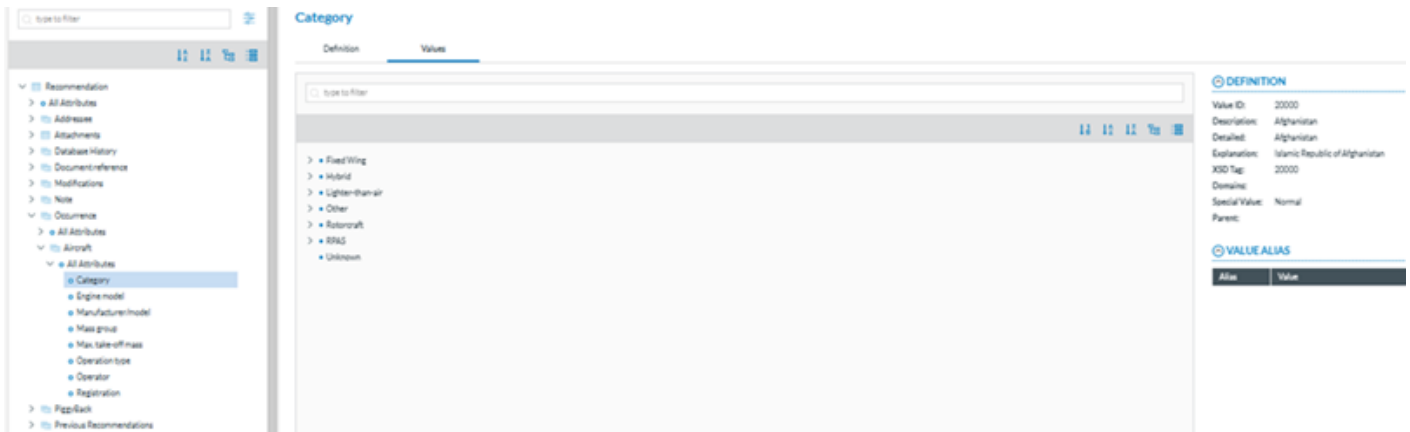
- **Definition**

Attachment	
Definition	
DEFINITION	
Attribute ID:	82
Description:	Attachment
Default:	Attachments
Explanation:	Generic class in which various document types can be stored, e.g. a file containing the letter or a reference to a letter document, pictures, technical report/study, etc. This attribute is made of multiple instances under Recommendation, Reason and Action.
XSD Tag:	AS2
Group:	
Teamwork:	SRS
Reference:	
Domain:	
Entity:	Attachments
Personal Data:	✗
Custom Attr.:	✗
INSTANCE	
Mandatory:	Optional
Multiple:	Unlimited

VALUES	
Attribute Type:	Manual Entry
Data Type:	Occurs: Resource Locator
Size:	Decimals: 0
Case (int):	
Strength:	Display:
Value List:	
Read Only:	✗
ADVANCED PROPERTIES	
Case Type:	
Limit Low:	Link High:
Input Mask:	Output Mask:

- **Values:** If the Attribute has a predefined value List. In the Values tree, the Officer can navigate the values by clicking on each element. The selected value will display its

definition, and the Values can be searched by Taxonomy code or description and ordered alphabetically.



5.3.3 Value Lists

The list of values an attribute can have is defined in a Value List. The Value List can have multiple levels where values are organised in a tree mode. Each Value List can have Aliases.

5.3.4. Values

Values assigned to an attribute depend on the type of the Attribute. These can be manually inputted or selected from a predefined list of values (Value List).

5.3.5. Filter the information

The Officer can filter the Parent Entities, Child Entities and Attributes table by typing the term to be searched in the filter row. The Officer can restrict the results by clicking the  'filter' button. By default, the 'contains' condition is selected.



To delete the filter, the Officer must click the '  clear filter' icon.

ID	Description	Custom	Mandatory	Multiple Values
35	Registration	Is equal to	Optional	Single value
36	Manufacturer model	Is not equal to	Optional	Single value
36	Manufacturer model	Contains	Optional	Single value
36	Manufacturer model	Does not contain	Optional	Single value
36	Manufacturer model	Start with	Optional	Single value
36	Manufacturer model	End with	Optional	Single value
36	Manufacturer model	Is null	Optional	Single value
36	Manufacturer model		Optional	Single value
36	Manufacturer model		Optional	Single value
36	Manufacturer model		Optional	Single value

5.3.6. View detailed information

To view more information about the select Entity, the Officer must click the 'eye' icon.

Occurrence

Entity ID: 8

Detailed: The occurrence(s) information.

Explanation: Information related to the occurrence(s) data. It contains an Ecceairs Data Link.

XSD Tag: Occurrence

Parent: Recommendation

Description: Occurrence



To view more information about the Parent Entities, Child Entities or Attributes, the Officer can click the 'eye' icon that appears while moving the mouse over the row.

ID	Description	Custom	Mandatory	Multiple Values
35	File number	Is equal to	Optional	Single value
36	Responsible entity	Is not equal to	Optional	Single value
36	UFC date	Contains	Optional	Single value
36	Location	Does not contain	Optional	Single value
36	Start time	Start with	Optional	Single value
36	End time	End with	Optional	Single value
36	Resolution time	Is null	Optional	Single value
36	Ecceairs data link		Optional	Single value
36	Screen size		Optional	Single value
36	Occurrence class		Optional	Single value
36	Occurrence category		Optional	Unlimited

A slide-in panel with the element information will be displayed when clicking on the 'eye' icon. The Officer can click outside the panel to close it and return to the previous screen.

Taxonomy

International Organisations EASA/ECCAIRS 21-Sep-2023

Occurrence

Entity ID: 8

Detailed: The occurrence(s) information.

Explanation: Information related to the occurrence(s) data. It contains an Ecceairs Data Link.

XSD Tag: Occurrence

Parent: Recommendation

Parent Entities

Child Entities

Attributes

Recommendation > OCCURRENCE

DEFINITION

Entity ID: 8

Description: Occurrence

Detailed: The occurrence(s) information.

Explanation: Information related to the occurrence(s) data. It contains an Ecceairs Data Link.

XSD Tag: Occurrence

Parent: Recommendation

INSTANCE

Minimum: Optional

Maximum: Unlimited

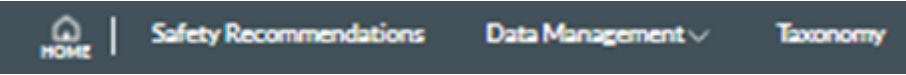
At Least:

At Most:

DOMAINS

5.4. List of Taxonomies

The Officer can access the list of taxonomies through the ‘Taxonomy’ menu displayed in the top menu:



If there is one, the last SRIS-released taxonomy and the custom taxonomy for the Authority of the Officer will be listed.

It includes the SRIS last released taxonomy:

TAXONOMY VERSION LIST						
All Draft Released Archived						
Name	Version	Status	Description	Release Date	Language	
SRIS 6.3.1.0 TAXONOMY	6.3.1.0 (2)	Released	SRIS	24-Oct-2023		
1 10 Items per page 1 - 1 of 1 items						

If the Officer clicks on any of them, the system will display the taxonomy browser of that taxonomy. Click on the 3-dot button of each taxonomy of the list, and the system will display the following menu:

View

View Release Notes

Download to XML

Download CSV and XSD files

Download an XML with the taxonomy or CSV and XSD files with the taxonomy to view the taxonomy browser and release notes.

The View option accesses the Taxonomy browser of the selected taxonomy. See the section Taxonomy browser for further details.

5.4.1 View Release Notes

Release Notes are generated automatically when a new taxonomy version is released. It includes all the changes the new Taxonomy reflects: attributes, value lists and values that have been added, edited or deleted.

The Taxonomy version has four digits and consists of the following fields:

- Major
- Minor
- Revision
- Build

When a new Taxonomy is released, depending on the changes in its items, the version is automatically populated based on these rules:

- **Major:** It will be increased if any of these changes have been applied:

ü Entity related:

- o Add Entity
- o Delete Entity
- o Add entity relation
- o Delete entity relation
- o Change Entity (only allowed changes)

- **Minor:** It will be increased if any of these changes have been applied:

ü Attribute related:

- o Delete Attribute

- **Revision:** It will be increased if any of these changes have been applied:

ü Attribute related:

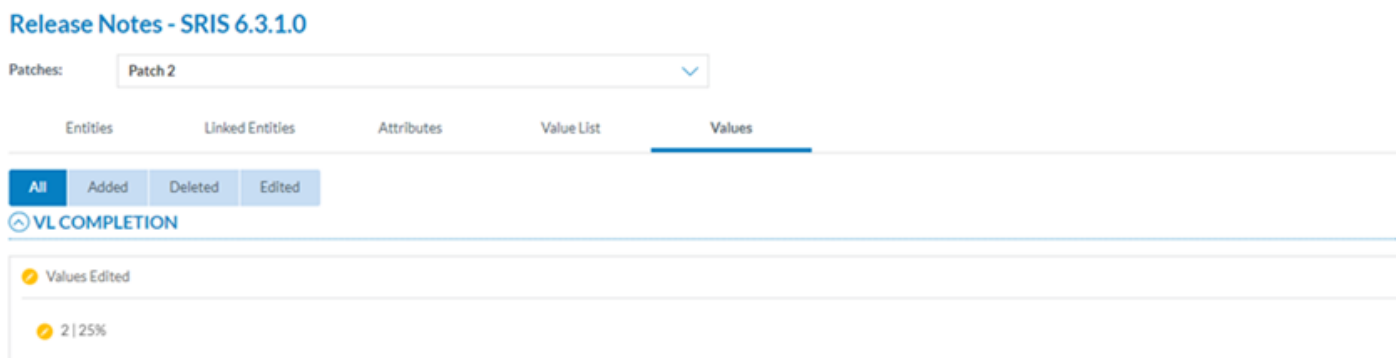
- o Add Attribute
- o Change attribute (only allowed changes)

ü Attribute values related:

- Change value limits
- **Build:** it will be increased if any of these changes have been applied:
 - ü Attribute values related:
 - Add values
 - Delete values
 - Move values
 - Change values (only allowed changes)
 - Change value lists (only allowed changes)

The Name of the SRIS central taxonomy is 'SRIS' concatenated with the four-digit version code. e.g.: SRIS '6.3.0.1'. If a Custom Taxonomy exists for the Officer's Authority, the Name will be SRIS_DE_ '6.3.0.1' (C#), where the # is the number of the custom taxonomy starting from zero (0).

When the Officer selects 'View Release Notes', the system opens the Release Notes of the specific taxonomy:



The page provides the following tabs with the corresponding release notes:

- Entities
- Linked entities
- Attributes
- Value List
- Values

Download XML: it downloads the released taxonomy in XML format.

Download CSV and XSD files: It downloads a zip file of the released taxonomy with the CSV and XSD files.