

4.6. Taxonomy Management

As mentioned, National Aviation Authorities and Safety Investigation Authorities can maintain their own Custom Taxonomy, which allows them to adapt their usage of E2 to their own processes.

4.6.1. Create a Custom Taxonomy

National Security Administrators have to click on 'Custom Project' option of the 3-dots menu of the specific Central released Taxonomy of the list, if a Custom released Taxonomy does not exist yet.

If a Custom released Taxonomy exists for the Authority, the 'Custom Project' option of the 3-dots menu will be available on it and the system will create a Draft version of that Custom Taxonomy where the changes can be done.

TAXONOMY VERSION LIST						
All Draft Released Archived						
Name	Version	Status	Description	Release Date	Languages	
Eccairs Aviation 8.0.3.1	8.0.3.1	Released	ECCAIRS Aviation	19-Sep-2023		
Eccairs Aviation_HR_8.0.3.1 (CO)	8.0.3.1 (CO)	Released	ECCAIRS Aviation	11-Jan-2023		
1 10 items per page						
						View Custom Project Set Properties View Release Notes Download to XML Download CSV and XSD files

Once created, the Draft version of the Custom Taxonomy will be displayed in the list of Taxonomies:

TAXONOMY VERSION LIST						
All Draft Released Archived						
Name	Version	Status	Description	Release Date	Languages	
Eccairs Aviation 8.0.3.1	8.0.3.1	Released	ECCAIRS Aviation	19-Sep-2023		
Eccairs Aviation_HR_8.0.3.1 (CO)	8.0.3.1 (CO)	Released	ECCAIRS Aviation	11-Jan-2023		
Eccairs Aviation_HR_8.0.3.1 (CO)		Draft	ECCAIRS Aviation			
1 10 items per page						
						1 - 3 of 3 items

4.6.2. Taxonomy management - Structure

National Security Administrators have to click on 'Edit Project' option of the 3-dots menu of the specific Draft Custom Taxonomy of the list. The system will display the editing page:

TAXONOMY MANAGER

Draft

Custom

Croatia

Croatia (CAA)

Structure

Value List

1 2

1 2

1 2

1 2

Occurrence

All Attributes

Aerodrome General

Aerodrome Weather Reports

Air Navigation Service

Air Space

Aircraft

CUSTOM-1

Dangerous Goods

DB History

Events

Ground Handling

Occurrence

Entity ID: 24

Description: Occurrence

Detailed: Occurrence

Explanation: General information and classification of the occurrence.

XSD Tag: Occurrence

Parent:

Parent Entities

Child Entities

Attributes

ID ^	Parent Entities	Relation is Linked	Min. Instance	Max. Instance
		(All)		

No records available

At Authority level, only Custom Attributes and Custom Value Lists can be updated.

4.6.3. Attributes Management

National Security Administrators have to click on the Attributes tab of the specific Entity at the Entities information page, and the system will display the table of Central and Custom Attributes defined for that Entity:

Parent Entities	Child Entities	Attributes			
NEW ATTRIBUTE					
ID ^	Description	Custom	Mandatory	Multiple Values	
		(All)			
1	Aerodrome latitude		Optional	Single value	
2	Aerodrome longitude		Optional	Single value	
3	Area configuration		Optional	Single value	
4	Elevation above MSL		Optional	Single value	
5	Location indicator		Optional	Single value	
7	Aerodrome status		Optional	Single value	

Above the table, there is a 'New Attribute' button for the Authority to create new Custom Attributes.

The table of Attributes provides the following columns that also work as filters:

- ID: automatically generated, mandatory and unique for each Attribute (Taxonomy code)

- Description: unique for each Attribute and mandatory
- Custom: if it is Custom Attribute, it will provide a green tick
- Mandatory: it sets if the Attribute is Mandatory or Optional
- Multiple Values: it sets if the Attribute is singled value, limited or multiple values

The last section of each row provides an Edit and a Delete icon.

4.6.3.1. Create a Custom Attribute:

National Security Administrators have to click on 'New Attribute' button above the table of Attributes and the system will display the New Attribute page:

New Attribute

Definition

DEFINITION

Description:*

description

Add Alternative Text

Detailed:

detailed

Explanation:

explanation

XSD Tag:

xsd tag

Group:

Taxonomy Reference:

ECCAIRS

Domains:

Parent:

Aerodrome General

Personal Data:

Custom Attrib.:

INSTANCE

Mandatory:

Mandatory

Optional

Multiple Values:

Single

Limited

Unlimited

VALUES

Attribute Type:

Data Type:

Read Only:

ADVANCED PROPERTIES

CANCEL

SAVE

National Security Administrators have to fill in at least the Description which is the only mandatory field.

XSD Tag and Type are empty and not editable.

The Taxonomy Reference, Domain and the Parent are automatically set and not editable.

The Custom Attribute field is not editable and is set to on by default.

The rest are optional or editable.

Definition Information:

- Detailed: free text field
- Explanation: free text field
- Group: drop-down menu to select among the available groups
- Personal Data toggle: deactivated by default. If activated, the Attribute corresponds to personal data

Instance information:

- By default, Optional is set. National Security Administrators can update it to Mandatory.
- Multiple Values: by default, Unlimited Values is set. National Security Administrators can update it to Single or Limited

Values Information:

- Attribute Type: drop-down menu to select:
 - ü Manual Entry
 - ü Predefined Value List
- Data Type: drop-down menu depending on the Attribute Type to select:
 - ü Manual Entry
 - o Alphanumeric
 - o Date
 - o DateTime

- o Decimals
- o Eccairs Data Link
- o Eccairs Embedded Data
- o Eccairs Resource Locator
- o Latitude
- o Longitude
- o Number
- o Text
- o Time

ü Predefined Value List

- o Code
- o Code and Additional Text
- o Code or Alternative Text

- Value List: name of the Value List to associate to Predefined Value List Custom Attributes. It can be a Value List of the Central Taxonomy or a Value List of the Custom Taxonomy

Advanced Properties Information:

- For Manual Entry Attributes (depending on the data type):

ü Case type:

- o None
- o Uppercase
- o Lowercase
- o ProperCase
- o FirstLetter

ü Limit Low

ü Limit High

ü Input Mask

ü Output Mask.

- For Predefined Value List Attributes:

ü Case type:

- o None
- o Uppercase
- o Lowercase
- o ProperCase
- o FirstLetter

National Security Administrators have to fill in the mandatory information and the needed optional information and click on 'Save' button. The system will save the Custom Attribute in the database and will add it to the Taxonomy browser of the Custom Taxonomy and to the table of Attributes of the specific Entity.

4.6.3.2. Edit a custom Attribute

National Security Administrators have to click on the Edit icon of the specific Custom Attribute of the table of Attributes of the Entity and the system will display the Edit Attribute page:

The screenshot shows the 'TAXONOMY MANAGER' interface. The top bar indicates the current state: Draft, Custom, Belgium, Belgium [CAA]. The left sidebar shows a tree view of the taxonomy structure, with 'Occurrence' selected. The main content area has tabs for 'Parent Entities', 'Child Entities', and 'Attributes'. The 'Attributes' tab is active, displaying a table of attributes. The table has columns for ID, Description, Custom, Mandatory, and Multiple Values. A 'NEW ATTRIBUTE' button is visible in the top right corner of the table area.

ID	Description	Custom	Mandatory	Multiple Values
746	Occurrence Status APOR	✓	Optional	Single value
747	Occurrence Status OPS	✓	Optional	Single value
748	Internal Reference Req Collector	✓	Optional	Single value
772	Moderator Service 1	✓	Optional	Single value

It is like the previously explained New Attribute page with the addition of the ID, automatically generated and with the XSD Tag Generator button if the Attribute was created in the current Draft version of the Custom Taxonomy for the first time.

This button opens the following radio buttons:



- Use Description: selected by default. It makes use the Description set for the Attribute to generate the XSD Tag.
- Use Identifier: if selected, the XSD Tag is generated through a Taxonomy Code.

National Security Administrators can update the needed fields always leaving the mandatory information filled. Then, they have to click on the 'Save' button and the system will update the information in the database and in the table of Attributes.

National Security Administrators can edit Central Attributes only to provide an Alternative Text to its description which can be shown in the Views where it is indicated. For example, to translate the Attribute Description to the Authority's preferred language.

4.6.3.3. Delete a Custom Attribute:

National Security Administrators have to click on Delete icon of the specific Custom Attribute at the table of Attributes and the system will display a warning message, if National Security Administrators confirm the action the Custom Attribute will be deleted from the database, from the table of Attributes and from the Taxonomy browser of the specific Custom Taxonomy.

Only Custom Attributes created in the Draft version of the Taxonomy can be completely deleted. If an Attribute already exists in a Custom Taxonomy that has been released or a Custom Taxonomy that is archived, it cannot be deleted but inactivated.

4.6.4. Taxonomy management – Value List

Once in the Draft version of the Custom Taxonomy, National Security Administrators can click on the Value List tab:

TAXONOMY MANAGER	Draft	Custom	Croatia	Croatia (CAA)
Structure	Value List			

ID ^	Description	Custom	Levels	Explanation	Identifier	
		(All) v				
145312	VL for AttrID: 409 - Gender - Crew Member	No	1	The flight crew member gender.	409	⋮
145313	VL for AttrID: 1042 - APM alerting	No	1		1153	⋮
145314	VL for AttrID: 643 - Bird Species	No	2	The list of bird species. Non-bird entries (mammal, reptile) are also included.	1041	⋮
145315	VL for AttrID: 482 - Category - Other pers. on a/c	No	1	The other personnel on board category.	482	⋮
145316	VL for AttrID: 283 - Surface type	No	1	The surface type where aircraft came to rest.	283	⋮
145317	VL for AttrID: 357 - Category ATM pers.	No	1	The ATM person's category.	357	⋮
145318	VL for AttrID: 369 - MSAW alerting	No	1	The minimum safe altitude warning system alerting.	369	⋮
145319	VL for AttrID: 509 - Surface type	No	1	The runway surface type	509	⋮
145320	VL for AttrID: 238 - Reason ARFS ineffective	No	1	The reasons why the ARFS ineffective.	238	⋮
145321	V4 CD States	No	2	Countries and territories. This list of countries, arranged alphabetically, gives an overview of countries of the world. A more detailed list including countries by geographical areas is also available.	1024	⋮

1 - 10 of 447 items

The table of Value Lists provides the following columns that also work as filters:

- ID: it is the internal id automatically generated and unique for each Value List

- Description: unique for each Value List and mandatory
- Custom: (Yes) if it is a Custom Value List belonging to the Authority's Custom Taxonomy or (No) if the Value List belongs to the Central Taxonomy
- Levels: number of levels of the Value List
- Explanation: optional
- Identifier: unique for each Value List which does not change with Taxonomy releases

The last section of each row provides a 3-dots menu with the options to be explained.

This section can provide a locker meaning the Value List is locked to an export process, it will not be unlocked unless a new version of the Value List is imported to the system or it is unlocked by the user who exported it and there is not an import process running.

4.6.4.1. Create a Custom Value List

National Security Administrators have to click on 'New Value List' above the table of Value Lists (See image above) and the system will provide the New Value List page:

New Value List

Description: *

description

Description is required.

Detailed Description:

detailed description

Explanation: *

explanation

Levels: *

1

Custom:

⌵ ALIAS

+ ADD ALIAS

Alias Name	Actions
------------	---------

No records available

⌵ CANCEL SAVE

It provides the following fields:

- Description: it is mandatory and has to be unique

- Detailed Description: optional free text field
- Explanation: mandatory free text field
- Levels: number of levels. By default, the system sets 1 but it is editable to a max of 10 levels
- Custom toggle: not editable for National Security Administrators and enabled

Below the fields there is the Alias information with the 'Add Alias' button and below the structure for the table of Alias (Alias Name and Actions columns).

National Security Administrators have to fill in the mandatory and the needed information, including the Aliases, if required. To add Aliases, National Security Administrators have to click on 'Add Alias' and the system will open the Alias drop-down menu:

It provides the Alias Support Table of the Administration menu. See section Support Tables for more details. National Security Administrator has to select an Alias and click on the Disk icon that will be enabled. The X icon is to discard the selection.

Once the Alias is selected, the Disk Save icon turns into a Delete icon:

National Security Administrators can repeat the operation as many times as needed. Then they have to click on 'Save' button and the system will save the Custom Value List in the database and will add it to the table of Value Lists.

4.6.4.2. Edit a Custom Value List

Only not locked Custom Value Lists can be edited. National Security Administrators have to click on 'Edit Value List' option of the 3-dots menu of the specific Custom Value List and the system will display the Edit Value List page:

BCAA Report status

 NEW VALUE

 type to filter



- Final
- Initial
- Update
- Waiting for report

National Security Administrators have to add Values to it through the New Value button. This button opens the Value information of the Custom Value List page:

BCAA Report status

NEW VALUE

type to filter

1

2

3

4

5

Final

Initial

Update

Waiting for report

DEFINITION

Value ID:

5

Description: *

description

Add Alternative Text

Detailed Description: *

detailed description

Explanation:

explanation

XSD Tag:

5

Domains:

Special Value

Normal

Parent:

parent

VALUE ALIAS

Alias	Value	Default
No records available.		

CANCEL

SAVE

It provides a Definition area with the following fields:

- Value ID: numeric field and automatically generated but editable. If edited, XSD tag field, which is not editable and is based on the Value ID, will be updated with the same value
- Description: mandatory free text field
- Alternative description: which will be shown in the Views where it is indicated. Authorities can use this field to translate the description of the value to another language.
- Detailed Description: mandatory free text field
- XSD Tag: not editable. It reproduces the information of the Value ID
- Domains: not editable for Custom Value Lists

- Special Value: drop-down menu with the following options:
 - ü Normal: Selected by default
 - ü None
 - ü Other
 - ü Unknown
- Parent: it is not editable

It also provides a Value Alias area with the list of Aliases of the Value List, if exist:

 **VALUE ALIAS**

Alias	Value	Default
SPECIES		☐
ICAO CODE		☐

National Security Administrators have to fill in the Value and check the 'Default' check box if needed.

If no Alias had been added to this Custom Value List, to add it, National Security Administrators have to do it through the 'Set Value List Properties' option of the 3-dots menu of the Custom Value List at the table of Value Lists. To be explained in later sections.

Once National Security Administrators have filled in the mandatory information and the needed information, the system saves the information in the database and updates the information of the Custom Value List and the table of Value Lists.

BCAA Report status

NEW VALUE

type to filter

19

AZ

ZA

Final

Initial

New Value

Update

Waiting for report

DEFINITION

Value ID:

5

Description:

New Value

Alternative Description:

Nuevo valor

[Remove Alternative Text](#)

Detailed Description:

New Value

Explanation:

explanation

XSD Tag:

5

Domains:

Special Value

Normal

Parent:

parent

VALUE ALIAS

Alias	Value	Default
No records available.		

CANCEL

SAVE

To Add more values, National Security Administrators have to click on the specific Value of the left pane and the 'New Value' button will be activated and the right panel will disappear.

BCAA Report status

NEWVALUE

type to filter

↓¹₉

↓^A_Z

↓^Z_A

• Final

• Initial

• New Value

• Update

• Waiting for report

Then National Security Administrators can click on 'New Value' to add another value.

National Security Administrators can update the editable information always keeping the mandatory information filled in and click on 'Save'. The system will save the information in the database and will return to the table of Value Lists with the updated information.

National Security Administrators can edit Central Value Lists only to provide an Alternative Text to its values which can be shown in the Views where it is indicated. For example, to translate the Value Description to the Authority's preferred language.

4.6.4.3. View a Value List

This option is only available in the 3-dots menu of the specific Custom Value List if it is locked or in the 3-dots menu of the specific Central Value List. National Security Administrators have to click on 'View Value List' option of the 3-dots menu and the system will display the View Value List page:

BCAA Report status

Final

Initial

Update

Waiting for report

10

12

13

14

15

DEFINITION

Value ID:

3

Description: *

Final

Detailed Description: *

Final

Explanation:

XSD Tag:

3

Domains:

Special Value

Normal

Parent:

parent

VALUE ALIAS

Alias	Value	Default
No records available.		

It is like the previously explained editing page but it is not editable.

4.6.4.4. Set Custom Value List Properties

National Security Administrators have to click on the Set Value List Properties option of the 3-dots menu of the table of Custom Value Lists and the system will display the Set Value List Properties page:

BCAA Report status

Identifier:	100003
Description: *	BCAA Report status
Detailed Description:	BCAA Report status
Explanation: *	BCAA Report status
Levels: *	1
Custom:	☐

ALIAS

+ ADD ALIAS

Alias Name	Actions
ICAO CODE	

CANCEL SAVE

The page provides the same information as the New page plus an automatically generated Identifier. The functionality works in the same terms of the creation page previously explained.

Note that if an Alias is removed from the list, the related values, if existing, will also be deleted.

National Security Administrators can update the needed fields always keeping the mandatory information field. Then they have to click on 'Save' button and the system will save the updates in the database and will update the table of Value Lists accordingly.

4.6.4.5. View Value List Properties

This option is only available in the 3-dots menu of the specific Custom Value List if the Value List is locked or in the 3-dots menu of the specific Central Value List. National Security Administrators have to click on 'View Value List Properties' option of the 3-dots menu and the system will display the View Value List Properties page.

It is like the Set Value List Properties page of the previous section but it is not editable.

4.6.4.6. Copy Value List

National Security Administrators have to click on the Copy Value List option of the 3-dots menu of the table of Value Lists and the system will display the Copy Value List page:

COPY BCAA Report status

Description: *

COPY BCAA Report status

Detailed Description:

BCAA Report status

Explanation: *

BCAA Report status

Levels: *

1

Custom:

^

 ALIAS

Alias Name	Actions
ICAO CODE	

CANCEL

SAVE

It reproduces the content of the specific Custom or Central Value List properties page and adds ‘COPY’ to the Description of the Custom Value List. National Security Administrators can update the needed fields always keeping the mandatory information filled and then they have to click on ‘Save’ button. The system will save the copied Custom Value List in the database and will add it to the table of Value Lists.

4.6.4.7. Delete a Custom Value List

National Security Administrators have to click on the Delete Value List option of the 3-dots menu of the table of Value Lists and the system will display a warning message, National Security Administrators have to confirm the action and the system will delete the Custom Value List from the database.

A Value List cannot be deleted if it is being referenced in an Attribute.

National Security Administrator cannot delete Central Value Lists.

4.6.4.8. Export a Value List to Excel

National Security Administrators have to click on the Export Value List option of the 3-dots menu of the table of Value Lists and the system will display the following warning disclaimer:

Disclaimer

When importing the Excel file back, only include the rows with changes (new or edited). This will avoid unnecessary checks and improve the performance of the import process.

ACCEPT

If National Security Administrators accept, the system will download an Excel with the Value List information; at the same time, the Value List will be locked and the system will display a locker on this Value List at the table of Value Lists.

4.6.4.9. Import a Value List from Excel

National Security Administrators have to update the needed fields in the excel file of the previous section. When the file is ready, National Security Administrators have to click on the 'Import from Excel' option of the 3-dots menu of the specific Custom Value List at the table of Value Lists and the system will display a Select File window:

Upload

Select files...

 Drop files here to upload

NO

YES

National Security Administrators have to upload the file to the window through the Select Files button or by dragging and dropping it. Then, they have to click on 'Yes' button. The system will display a warning message:



All data in the Value List will be overwritten, the process will be run in background. Do you want to proceed?

NO

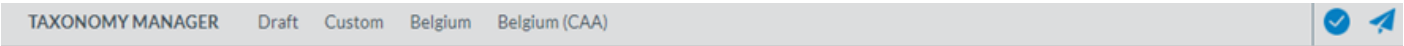
YES

National Security Administrators have to confirm the action and the system will update the information of the Custom Value List in the database. This process can take some time so the system will send an email to the National Security Administrator when the process is finished.

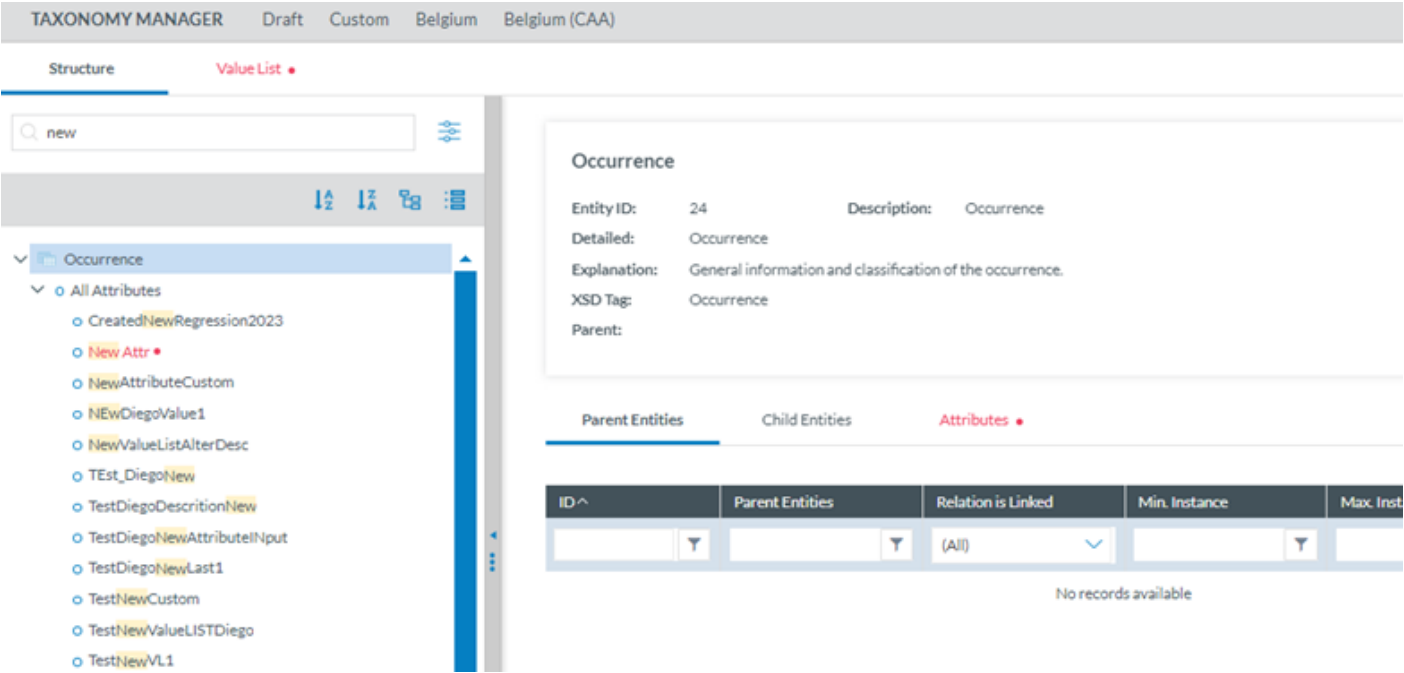
National Security Administrators can use the export and import Value List options for Central Value List to update the Alternative Texts of the Values Description.

4.6.5. Review and correct inconsistencies and Release a Custom Taxonomy

National Security Administrators can check the inconsistencies of a Draft Custom Taxonomy through the Check inconsistencies icon placed on top of the Taxonomy manager:

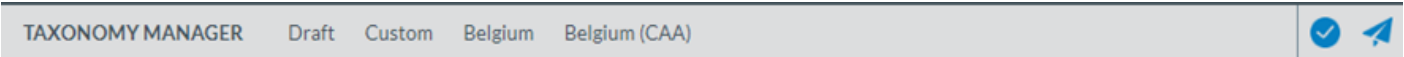


This icon  reviews the inconsistencies, and the system will highlight in red in the Structure tab the items providing the inconsistencies, i.e.:



If there are inconsistencies in the Value List tab, it is also highlighted in red.

Once National Security Administrators find the inconsistencies and fix them, National Security Administrators can click on the Release icon:



This icon  publishes the Custom Taxonomy unless there are still inconsistencies, in that case, the system will display a message warning it.

Instead of through this icon, National Security Administrators can click on 'Release' option of the 3-dots menu of the Draft Custom Taxonomy of the list. This option publishes the Custom Taxonomy unless there are still inconsistencies, in that case, the system will display a message warning it.

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