

User Guide

NC3 Luxembourg

Version 2023-01-31

Table of Contents

1. Introduction	1
1.1. Purpose	1
1.2. Other documents	1
1.3. Syntax used in the document	1
1.4. Syntax used in MONARC	1
2. Home Page	2
2.1. Home page	2
2.2. Creating a Risk Analysis	2
2.3. Main risk analysis view	3
3. Client Environment Administration	5
3.1. Administration	5
4. Analysis Management	13
4.1. Method steps call	13
4.2. Library	14
4.3. Information Risks	22
4.4. Operational Risks	28
5. Evaluation Scales	33
5.1. Impact scale	34
5.2. Likelihood scale	34
5.3. Vulnerability scale	35
5.4. Acceptance thresholds	35
6. Management of Knowledge Base	37
6.1. Type of assets	39
6.2. Threats	39
6.3. Vulnerabilities	39
6.4. Referentials	39
6.5. Risks	40
6.6. Tags (Operational Risks)	41
6.7. Operational Risks	41
6.8. Recommendations Sets	41
7. Statement of applicability	43
8. Dashboard	46
9. Record of processing activities	48
9.1. Description	50
9.2. Actors	51
9.3. Categories of data subjects and personal data	52
9.4. Recipients	52
9.5. International transfers	53

9.6. Processors	54
10. Interviews	55
11. Snapshots	57
12. Managing the Implementation Treatment Plan	59
13. Global Dashboard	62

Chapter 1. Introduction

1.1. Purpose

The purpose of this document is to provide an exhaustive explanation of all the options in the MONARC tool.

1.2. Other documents



- **Quick Start**: Provide a quick start with MONARC.
- **Method Guide**: Complete documentation of the method.
- **Technical Guide**: Complete technical documentation.

1.3. Syntax used in the document



All numbers in white on a red background are used on print-screen views to provide additional explanations. Explanations are always after the view with the corresponding numbering. e.g. 1.

Reference MONARC Reference

1.4. Syntax used in MONARC



Button that always brings up the menu.



Creating/adding something in context (assets, recommendations, etc.).



Most fields of MONARC display additional information when the pointer stay unmoved some time.

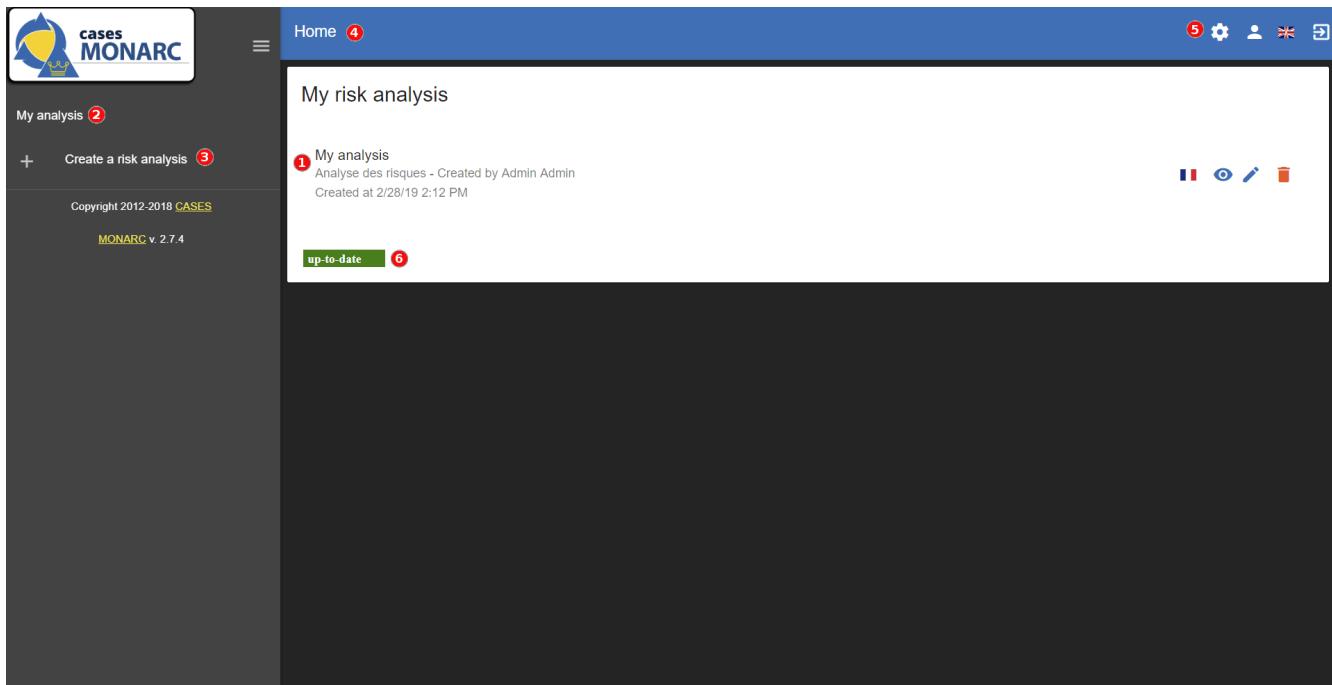


Export any table (.csv) or graphic (.png).

Chapter 2. Home Page

2.1. Home page

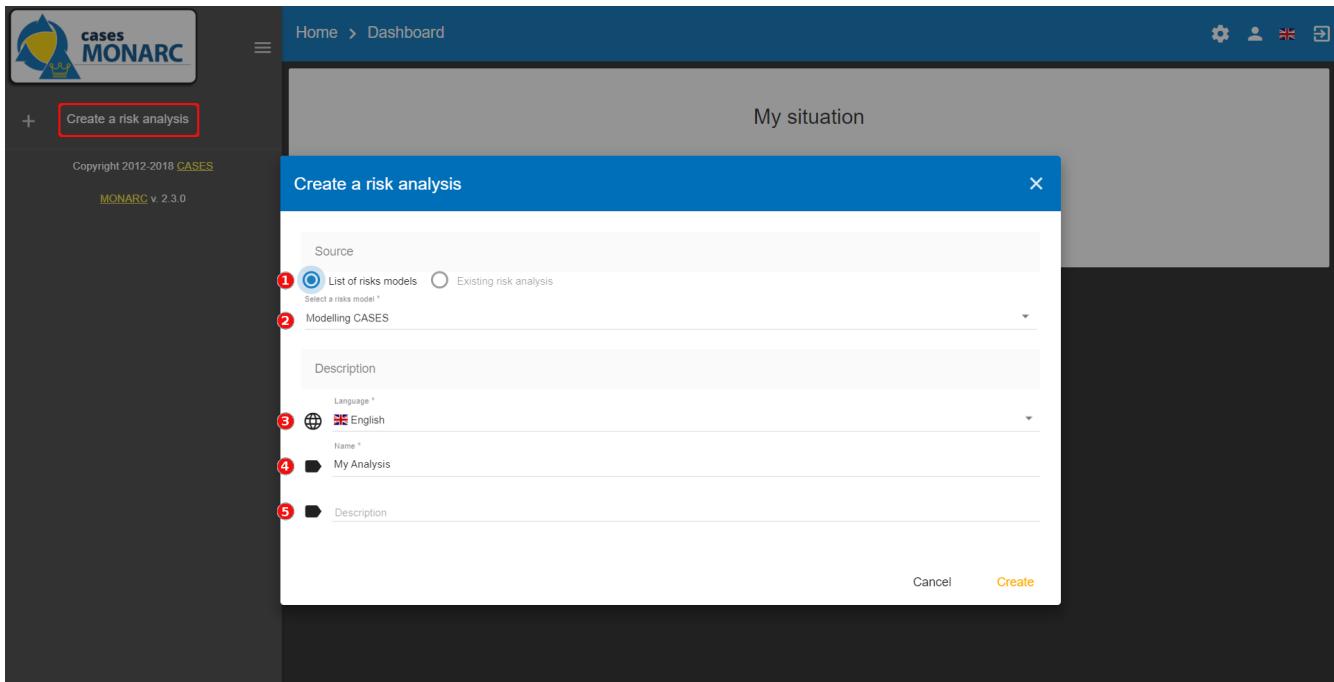
Immediately after user authentication, the following screen appears. It may, however, be slightly different, if there is not yet an analysis created or if there are already several and according to the state of progress of the analysis.



1. Graph showing the statistics of the last modified risk analysis.
2. List of existing analyses. In this case, there is only one. Click on the analysis to select it. (See [Main risk analysis view](#)).
3. Click to [create a risk analysis](#). (See [Creating a Risk Analysis](#)).
4. Navigation bar.
5. Administration of the client environment. Click on [Administration](#), [Account](#), [Interface language](#) or [Logout](#) (see [Client Environment Administration](#)).
6. Inform you if an update of MONARC is available.

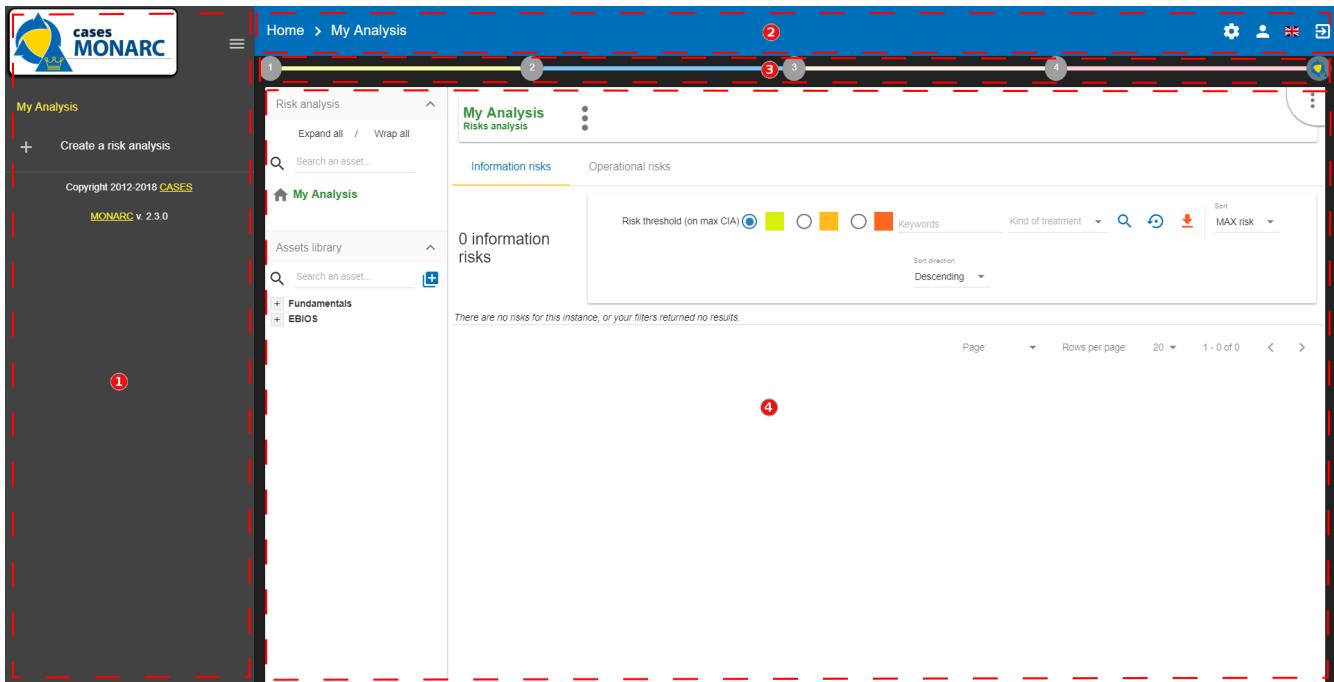
2.2. Creating a Risk Analysis

After clicking on [Create a risk analysis](#), the following pop-up appears



1. The creation of a risk analysis is always based on an existing model. There are two choices for this:
 1. **List of risks models**: Proposes available models in the knowledge bases. This option has at least two choices, **Modelling NC3**, this is the default template made available by the MONARC editor. It provides sufficient knowledge bases to start a risk analysis. This option should be used by default to start a new risk analysis. There is also the choice **Blank model** which is a completely empty model. This template is typically used temporarily as a *Sandbox* to test the contents of an import file, for example.
 2. **Existing analysis**: Duplicate risk analysis of your choice present in your environment.
2. Options **a** or **b** before being selected. It gets the source.
3. Select the preferred language for this new risk analysis. MONARC only present the languages actually available in the selected source.
4. Give a name to risk analysis.
5. Optional field, which allows you to describe your analysis in more detail.

2.3. Main risk analysis view



1. Risk Analyses panel: Create and select a risk analysis.



Once the analysis has been selected, the left column can be retracted in order to optimize the horizontal space by clicking on the symbol .

2. Navigation panel: User administration and account management.
3. Access to the steps of the method by clicking on numbers 1 to 4.
4. Contextual working areas of analysis.

Chapter 3. Client Environment Administration

There are two profiles:

- Administrator: Rights to create, modify, and delete users.



An administrator does not have the access rights on the risk analysis (but he can give them).

- Users: Access right on risk analysis.



1. Administration (Enable only for administrator users)

- Manage users (see [Manage users](#))
- Organization (see [Organization](#))
- Deliverable templates (see [Deliverable templates](#))

2. User account (see [User account](#))

3. Interface language (see [Interface language](#))

4. Logout

3.1. Administration

3.1.1. Manage users

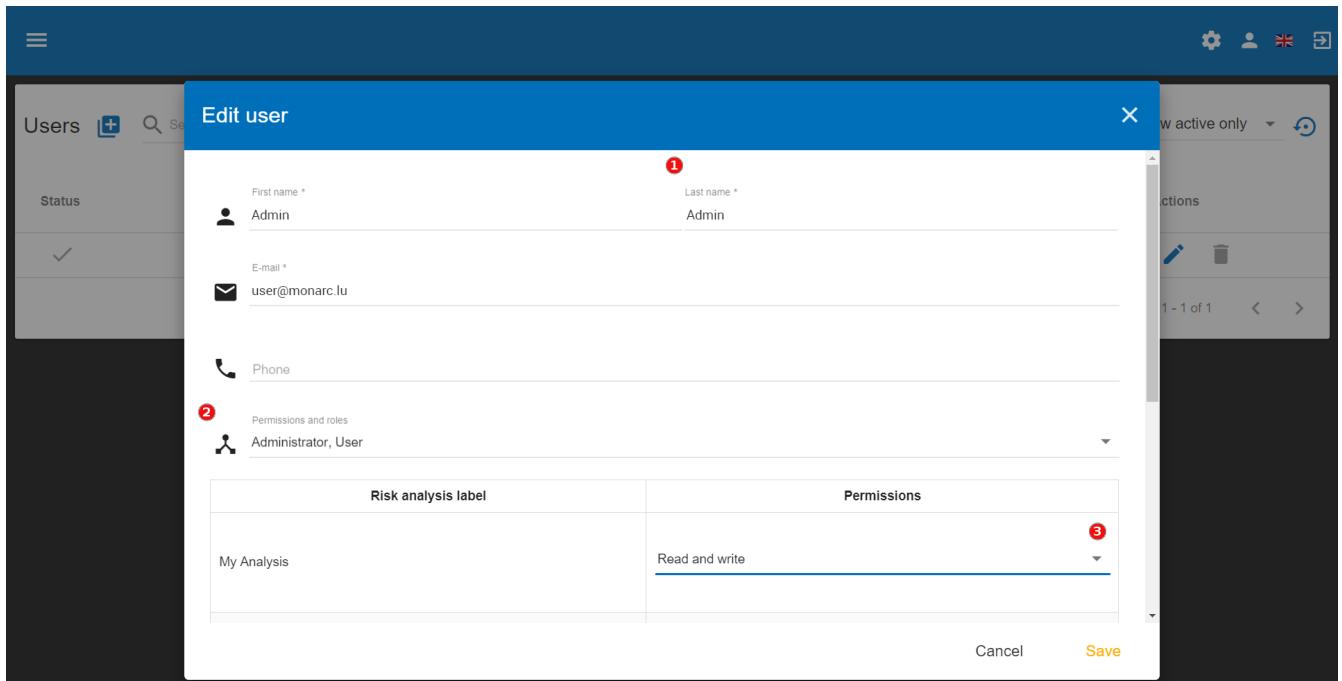
List of users

Users						Actions
Status	First name	Last name	E-mail	Phone		
✓	Admin	Admin	user@monarc.lu			

1. Create a user or administrator.
2. Status: Activating or deactivating accounts.
3. Information about the person.
4. Editing a person's information.
5. Deleting a person.

User rights and information

After clicking on the icon  , the following screen appears:



Users   

Edit user

First name *  Admin

Last name * Admin

E-mail * user@monarc.lu

Phone

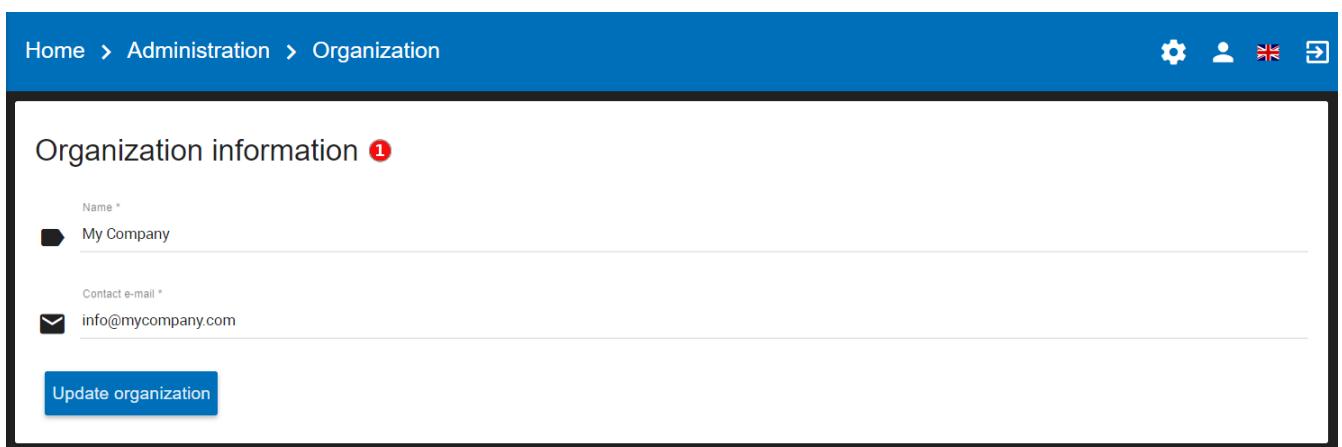
Permissions and roles  Administrator, User

Risk analysis label	Permissions
My Analysis	Read and write 

Cancel 

1. General information.
2. Selection of profiles **Administrator** or/and **User**.
3. Management of user rights by analysis. By risk analysis, there are 3 types of rights:
 - No access.
 - Read only.
 - Read and write.

3.1.2. Organization



Home > Administration > Organization

Organization information 

Name *  My Company

Contact e-mail *  info@mycompany.com



1. Manage general information about the entity (MONARC account).

3.1.3. Deliverable templates

It's possible with MONARC to custom by organization the different deliveries which are generated.

Deliverable templates  4					
Deliverable template for context validation					
Description	French	English	German	Dutch	Actions
Context validation	✓	✓	✓	✓	
My Personal template		✓			  
Deliverable template for model validation					
Description	French	English	German	Dutch	Actions
Modelling validation	✓	✓	✓	✓	
Deliverable template for final report					
Description	French	English	German	Dutch	Actions
Report risk assessment	✓	✓	✓	✓	
Deliverable template for implementation plan					
Description	French	English	German	Dutch	Actions
Implementation plan	✓	✓	✓	✓	

This view summarize all the available templates. There are some actions available on template :

1. **Download** a template.
2. **Edit** a template. The view for editing a template is the same as one for adding one. This view is explained below.
3. **Delete** a template. This action permanently delete the template for all the users of the company.



The default template are only downloadable, they can't be modified or deleted.

4. **Add a new template :**

Home > Administration > Deliverable templates

Deliverable templates 

Deliverable template for context validation					
Description	French	English	German	Dutch	Actions
Context validation	✓	✓	✓	✓	
My Personal template		✓			  
Deliverable template for model validation					
Description	French	English	German	Dutch	Actions
Modelling validation	✓	✓	✓	✓	
Deliverable template for final report					
Description	French	English	German	Dutch	Actions
Report risk assessment	✓	✓	✓	✓	
Deliverable template for implementation plan					
Description	French	English	German	Dutch	Actions
Implementation plan	✓	✓	✓	✓	

Add a deliverable template

Category *  1

Language  2

Description  3

French  4

English 

German 

Dutch 

1. Select the **Category** of the template. The category is linked to the different step of the method.
2. Select the **Language** associated to the template and the next description to fill.

3. Fill the **Description** of the new template.
4. Click on the grey area or drag and drop a document on the grey area to **Upload** the template.



You don't have to fill all the languages, one language is sufficient.

List of tags

MONARC allows you to add your deliveries template. The template is a document which use different tags.



All the deliveries in MONARC have to be set in Word Format (.docx)

List of tags for the layout of the document:

All these tags are mainly set in the form depending of the delivery.

Current risk			Treatment	Residual risk
C	I	A		
30	30	45	Not treated	45
		20	Reduction	6
20		30	Reduction	6
18	18	24	Reduction	0
18		24	Reduction	0
16	16	24	Reduction	18
		24	Not treated	24

1. **\${STATE}** : State of the document with prefilled value (draft or final).
2. **\${VERSION}** : Version of the document.
3. **\${CLASSIFICATION}** : Classification of the document.
4. **\${DOCUMENT}** : Name of the document.
5. **\${CLIENT}** : Name of the customer.
6. **\${SMILE}** : Name of the security consultant who do the analysis.

There are also two others tags which are generated by the application :

- **\${COMPANY}** : Name of the company which come from MONARC, it's stored in the database and editable in the application.
- **\${DATE}** : Date of the generation of the document. Field auto-generated by MONARC.

List of the tags from the context establishment:

The screenshot shows the 'My Print' software interface. The main window displays a table of '138 information risks' across several columns: Threat, Vulnerability, Existing controls, Qualif., Current risk (C, I, A), Treatment, and Residual risk. The 'Assets library' sidebar shows a list of assets like 'Postes de travail utilisateur', 'Gestion des backups', etc. The top navigation bar includes 'Home > My Print' and various system icons.

1. **`\${CONTEXT_ANA_RISK}`:** Free text which comes from the step: "Risk analysis context".
2. List of the tags from "Evaluation of Trends and Threat, and synthesis":
 - **`\${SYNTH_EVAL_THREAT}`:** The summary of the step: "Evaluation of Trends and Threat, and synthesis".
 - **`\${TABLE_THREATS}`:** A summary of the threat assessment.
 - **`\${TABLE_EVAL_TEND}`:** The trend assessment with the questions which are answered.
 - **`\${TABLE_THREATS_FULL}`:** The full threat assessment.
3. **`\${CONTEXT_GEST_RISK}`:** Free text which comes from the step: "Risk management organization".
4. List of the tags from "Definition of the risk evaluation criteria":
 - **`\${SCALE_IMPACT}`:** The table of the impact scale.
 - **`\${SCALE_THREAT}`:** The table of the threats scale.
 - **`\${SCALE_VULN}`:** The table of the vulnerabilities scale.
 - **`\${TABLE_RISKS}`:** The table of the information risk acceptance threshold.

List of tags for the context modelling:

1. Risk analysis

2. My Print Analyse des risques

3. Context modeling

4. 138 information risks

Identification of assets, vulnerabilities and impacts appreciation

Synthesis of assets / impacts 1

Deliverable: Model validation

Asset	Impact			Threat		Vulnerability			Current risk			Treatment	Residual risk
	C	I	A	Label	Prob.	Label	Existing controls	Qualif.	C	I	A		
Poste de travail utilisateur	2	2	3	Usurpation de droits	3	La gestion des autorisations comporte des failles	Contrôle d'accès inexistant	5	30	30	45	Not treated	45
Gestion des backups	2	2	3	Dysfonctionnement ou panne du matériel	2	Les backups ne sont pas réalisés selon l'état de l'art	Les backups sont réalisés sur cassettes toutes les nuits. Les cassettes sont changées chaque jour et conservées 7 jours. Une cassette est réservée chaque mois pendant 1 an. Aucun test de restauration n'est effectué.	5		20	30	Reduction	6
Gestion des backups	2	2	3	Vol ou destruction de supports, de documents ou de matériel	2	Les supports de backup ne sont pas entreposés dans un endroit adéquat	Les Backups ne sont pas chiffrés. Les cassettes sont entreposées dans une armoire non verrouillée, parce que plusieurs services y ont accès.	5	20		30	Reduction	6
Administrateur IT	3	3	4	Erreur d'utilisation	2	Absence de charte informatique précisant les exigences d'utilisation	Pas de charte, ni consigne d'utilisation du système d'information.	3	18	18	24	Reduction	0
Bâtiment	3	3	4	Vol ou destruction de supports, de documents ou de matériel	2	Le principe du moindre privilège n'est pas appliqué	Pas de contrôle d'accès	3	18		24	Reduction	0
Organisation informatique	2	2	3	Usurpation de droits	2	Absence de contrôle périodique des autorisations d'accès logique	La revue de droit sur l'Active Directory est faite, mais n'est pas optimale.	4	16	16	24	Reduction	18
Organisation informatique	2	2	3	Vol ou destruction de supports, de documents ou de matériel	2	Absence de contrôle périodique des autorisations d'accès physique		4	16		24	Not treated	24

1. \${SYNTH_ACTIF}: Free text which comes from the step: "synthesis of assets/impacts".

- \${IMPACTS_APPRECIATION}: A table which is generated by MONARC. It represents the impacts/consequences of the top level assets.

List of the tags for the Evaluation and treatment of risks:

1. Risk analysis

2. My Print Analyse des risques

3. Deliverable

4. 138 information risks

Status: Draft

Template: Rapport final

Version: 1.0

Classification: TLP : RED

Document name: Final document

Client manager(s): Client

Security consultant(s): CASES

Summary of risk evaluation:

Management summary 1

1. \${SUMMARY_EVAL_RISK}: Free text which comes from the form.

List of the tags generated by MONARC :

- \${CURRENT_RISK_MAP}: Table which represents the distribution of the current risks.
- \${TARGET_RISK_MAP}: Table which represents the distribution of the targeted risks.
- \${DISTRIB_EVAL_RISK}: A text which represents the distribution of the risks by levels.

- **\${GRAPH_EVAL_RISK}** : A graph which represents the **\${DISTRIB_EVAL_RISK}**
- **\${RISKS_RECO_FULL}** : A table which represents the recommendation for the information risks
- **\${OPRISKS_RECO_FULL}** : A table which represents the recommendation for the operational risks
- **\${TABLE_AUDIT_INSTANCES}** : A table with all the informational risks.
- **\${TABLE_AUDIT_RISKS_OP}** : A table with all the operational risks.

List of the tags for Implementation and monitoring:

List of tags generated by MONARC :

- **\${TABLE_IMPLEMENTATION_PLAN}** : Table which shows all the recommendations to implement.
- **\${TABLE_IMPLEMENTATION_HISTORY}** : Table which shows all the implemented recommendations.

List of the tags for the annexes:

Some tags are linked to other functionality of MONARC like:

- **\${TABLE_INTERVIEW}** : The list of all the interviews.

3.1.4. User account

This view allows you to:

My account

1 Personal information

First name: Admin

Last name: Admin

E-mail: user@monarc.lu

2 Change password

Current password

New password

Confirm new password

Update password

1. Manage general user information.
2. Change the password. Password complexity is required.

3.1.5. Interface language

There are 4 interface language:

- French
- English
- German
- Dutch



This action only changes the interfaces language (The risk analysis language is not modified).

Chapter 4. Analysis Management

The main view of risk analysis consists of 4 distinct parts.

The screenshot shows the 'My Analysis' interface with the following numbered callouts:

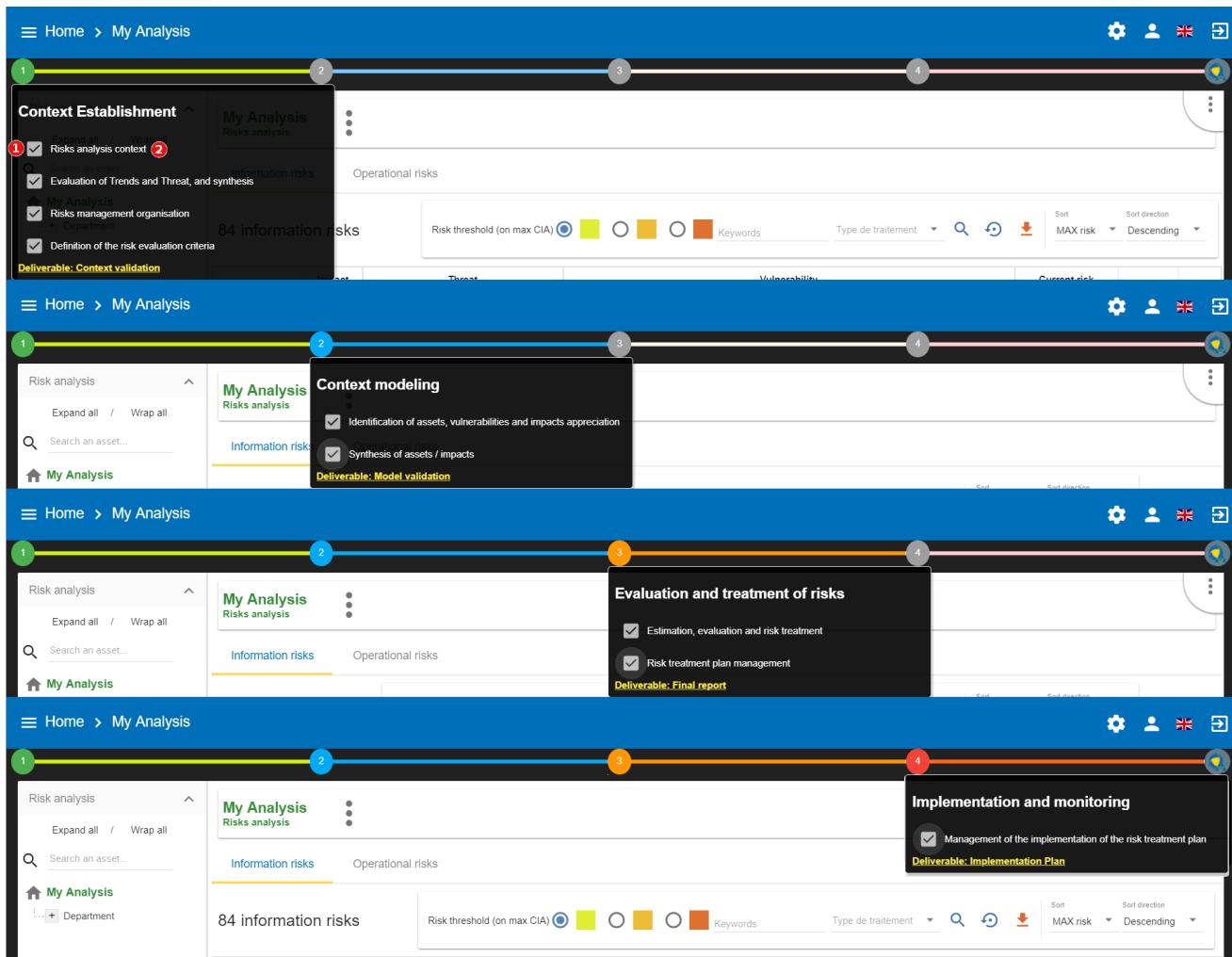
- 1**: Top navigation bar with 'Home > My Analysis' and a red dashed box around the main content area.
- 2**: Asset library area on the left, containing 'Assets library' and 'Fundamentals' sections.
- 3**: 'My Analysis' section header with a 'Department' dropdown.
- 4**: Contextual menu for the 'Information risks' section.
- 5**: Main risk analysis table with columns: Asset, Impact (C, I, A), Threat (Label, Prob.), Vulnerability (Label, Existing controls, Qualif.), Current risk (C, I, A), Treatment, and Target risk.

The main table displays 84 information risks, such as 'Forging of rights' and 'Equipment malfunction or failure', with associated details and treatment status.

1. Access to the steps of the method: Click on the numbers from **1** to **4** to access the menus which follow the step-by-step method (see [Method steps call](#)).
2. Asset library area: Asset storage. The *drag-and-drop* function must be used to place these assets in the analysis (see [Library](#)).
3. Risk Analysis area: allows you to structure the assets of the analysis hierarchically by using the *Drag and Drop* function (hold down the left mouse button to move an asset). (See [Information Risks](#) and [Operational Risks](#))
4. Contextual area of work in the analysis: Depending on the assets and active parts of the analysis, this area contains contextual elements of the work.

4.1. Method steps call

By clicking on the numbers **1** to **4**, a contextual menu appears.



1. Ticking boxes change the progress of the method.
2. Click on the label, call the contextual management sub-screen.



More information about method steps. Consult the [Method Guide](#).

4.2. Library

4.2.1. Organization of assets

Click on the + and the - to unfold and fold the categories of the library.

The screenshot shows the NC3 Risk Analysis interface. At the top, there are four numbered circles (1, 2, 3, 4) corresponding to the numbered callouts in the text below. The interface includes a search bar, a navigation bar with 'My Analysis' and 'Risks analysis' tabs, and a main table for managing risks.

1. Search area in order to quickly find an asset.

2. Button for creating / importing assets (see [Create an Asset](#)).

3. Categories level of the library. There are usually two:

- 1. Fundamentals:** Contains all default assets offered by NC3.
- 2. EBIOS:** Contains assets inspired by EBIOS. These are assets containing non-optimized risk models.

4. Asset level: These are the assets that must be dragging and dropping to the risk analysis area.

Asset	Impact			Threat		Vulnerability			Current risk			Treatment	Target risk
	C	I	A	Label	Prob.	Label	Existing controls	Qualif.	C	I	A		
Administrator workstations	-	-	-	Forging of rights	-	Authorisation management is flawed			-	-	-	Not treated	-
Administrator workstations	-	-	-	Forging of rights	-	User authentication is not ensured			-	-	-	Not treated	-
Administrator workstations	-	-	-	Forging of rights	-	The user workstation is not monitored			-	-	-	Not treated	-
Administrator workstations	-	-	-	Retrieval of recycled or discarded media	-	Presence of residual data unknown to the user of reallocated or discarded equipment			-	-	-	Not treated	-
Administrator workstations	-	-	-	Malware infection	-	Programs can be downloaded and installed without monitoring			-	-	-	Not treated	-
Administrator workstations	-	-	-	Malware infection	-	Update management (patches) is flawed			-	-	-	Not treated	-
Administrator workstations	-	-	-	Malware infection	-	No detection system of malicious programs			-	-	-	Not treated	-

1. Search area in order to quickly find an asset.

2. Button for creating / importing assets (see [Create an Asset](#)).

3. Categories level of the library. There are usually two:

1. **Fundamentals:** Contains all default assets offered by NC3.

2. **EBIOS:** Contains assets inspired by EBIOS. These are assets containing non-optimized risk models.

4. Sub-categories level.

5. Asset level: These are the assets that must be dragging and dropping to the risk analysis area.

4.2.2. Asset Management

The information on each asset is different depending on its type: **Primary** or **Secondary**. This concept is explained in detail in [Type of assets](#).

Primary asset

Click on a primary asset of the library, usually categorized in **Fundamentals** → **Primary Assets**.

1. Asset management context menu (details in [Context menu of library](#)).
2. Add an existing asset in the structure, creating a composed asset. There is no limit to the asset tree.
3. Indication if this asset is currently used in the analysis. In this case, it is found at the root of the analysis.
4. Ability to detach asset from analysis.
5. Table of operational risks possibly associated with the asset.



Detach an asset from the analysis will remove all its evaluation.



A primary asset cannot possess information security risks. The modification of the operational risk table is based on the knowledge base.

Secondary assets

Click on a secondary asset of the library, for example on **Building** classified in **Fundamentals** → **Buildings & Premises**.

1. Asset management context menu (details in [Context menu of library](#)).

2. Add an existing asset in the structure, creating a compound asset. There is no limit to the asset tree.

3. Indication if the asset is already part of the composition of another asset. In case, it is already a sub-element of the assets **Back Office**.

4. Indication if this asset is currently used in the analysis. In this case, it is found at the 3rd level of the root of the risk analysis.

5. Ability to detach asset from analysis.

6. Risk information table associated with the asset.



Detach an asset from the analysis will remove all its evaluation.



Conversely, in the case of primary assets, media assets can only have information risks. The risk table is modified from the knowledge base.

Context menu of library

By clicking on the icon

, the following context menu appears. Whatever the asset type of the library, the menu is the same.

1

2

3

4

Risk analysis

Expand all / Wrap all

Search an asset...

My Analysis

Department

Assets library

Search an asset...

Fundamentals

Primary Assets

Model Structure

Backup

Buildings & Premises

Company premises

Archive room

IT room

Building

Service office

Physical Goods

Software

Equipment

Staff

Organization

Servers

Building

Composition

Building

In the library, the asset is part of :

- Back Office

Asset used in the risks analysis

Active parent

Actions

My Analysis > Building > Back Office > Department

5 information risks

Asset	Threat	Vulnerability
Building	Theft or destruction of media, documents or equipment	Flaws in the physical access boundaries
Building	Theft or destruction of media, documents or equipment	The principle of least privilege is not applied

1. Starts the pop-up that allows you to modify most of the parameters of an asset (see [Edit an asset](#)).
2. Create a copy of the asset named **Name (copy #)**, which is then renamed with the [Edit Asset](#) option.
3. Launches asset export pop-up (see [Exporting an asset](#)).
4. Delete an asset.



Delete action is definitive, even if the asset is used in the analysis.

4.2.3. Create an Asset

In the library, after clicking on the icon , the following pop-up appears:

84 information risks

Asset

Name * 2

Label * 3

Scope Local 4

Asset type * 5

Category * 6

Location in the end 7

Abuse of rights 8

Import an asset 1

Labels and descriptions

General information

Location

Cancel Create Create and continue

1. To create an asset, it is also possible to import it (see [Importing an asset](#)).
2. **Name**: This name must be unique for the analysis.
3. **Label**: This is an additional description, it is displayed in the tooltip when the mouse is positioned without moving on the asset.
4. **Scope**: Two possible choices:
 1. **Local**: Identified asset risks are to be assessed whenever the asset is present in the analysis. A primary asset is generally local in scope.
 2. **Global**  : The risks of the asset are only to be assessed once for the whole analysis.



This option is to be used mainly for the support assets, as soon as they are included in several primary assets.

Example: For IT room or main building, once the risks assessed, only the impact of the primary asset can change the level of risk.

5. **Asset type**: It determines the nature of the asset and therefore the risk model associated with it.
6. **Category**: It is the location of the library where the asset will be stored, or create a new category.
7. **Operational risk Tag**: That allows the asset to be associated with operational risks by default.



This option is enabled only when asset type is a primary (i.e. Information, process, container or service)

8. **Location**: Allows you to order assets in the selected category.

4.2.4. Edit an asset

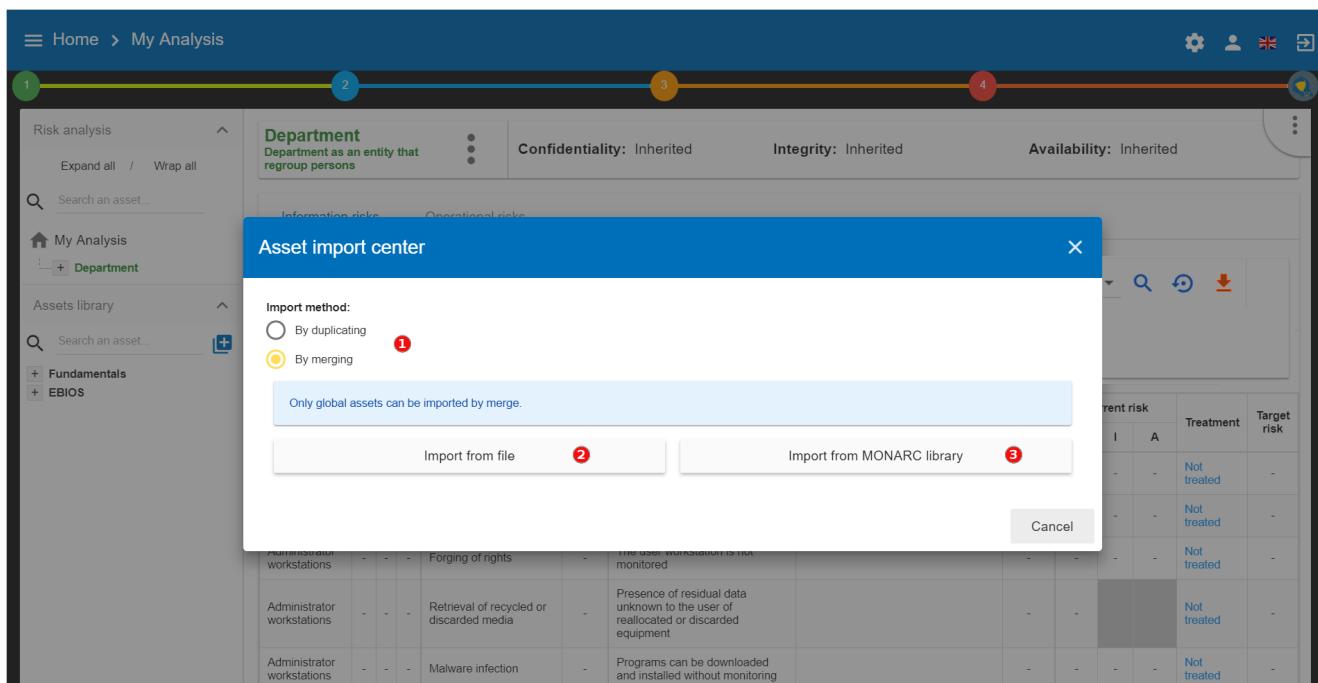
The call is made from the [Context menu of library](#) when an asset is selected in the library.

For an explanation of all fields that can be changed, see [Create an Asset](#). For technical reasons, the modification does not make it possible to modify:

- **Scope**
- **Asset type**

4.2.5. Importing an asset

This pop-up is accessible from the pop-up [Add a new asset](#) 



1. The import principle requires that the imported asset remain in the category in which it is located. Two import methods are possible:
 1. **By duplicating:** When importing, if an asset of the same name exists, then it will be duplicated and the name will suffix - **Imp #n**.
 2. **By merging:** When importing, if an asset of the same name exists, then it will be replaced. In this case, only the associated risk model will be modified.



Only global assets can be imported by merging.

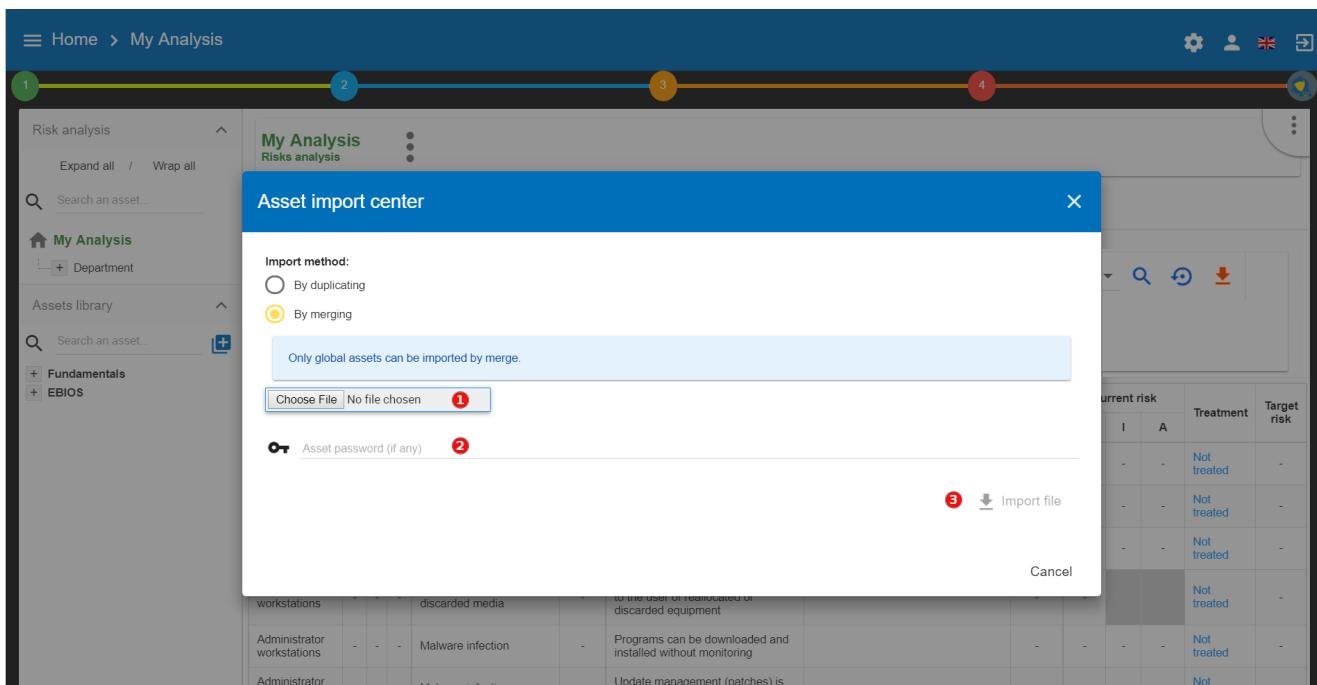
2. **Import from file:** allows to exchange assets from one environment to another (see [Importing an asset from a file](#)).
3. **Import from MONARC library:** This option is not available in the case of a *Stand alone* version of MONARC (see [Import from the MONARC library](#)).



The import of an uncontrolled asset can be destructive for the current analysis. It is strongly advised to create a [Snapshot](#) before importing, or to use an empty [Sandbox](#) analysis.

Importing an asset from a file

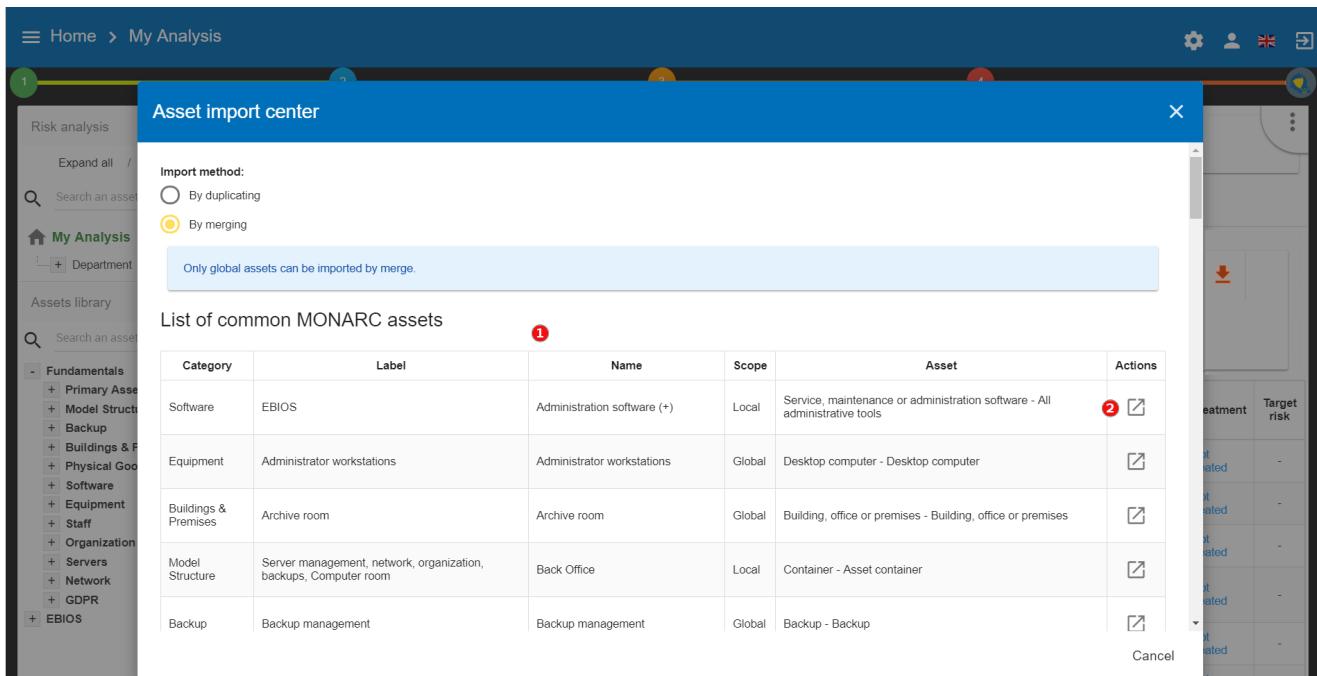
The pop-up appears after clicking on the **Import from file** option in the **Asset Import center**.



1. **Choose File:** Access the directories of the computer to point to a file.
2. **Asset password:** When exporting the selected file, a password has been used to encrypt the file, it must be entered here.
3. **Import file:** Starts importing file

Import from the MONARC library

The pop-up appears after clicking on the **Import from MONARC library** option in the **Asset Import center**.



1. Table of available assets in the MONARC common library.
2. **Action:** Initiate the import procedure for the corresponding asset.

4.2.6. Exporting an asset

The screenshot shows the Qualys Risk Management interface. On the left, there is a navigation sidebar with sections for 'Risk analysis', 'My Analysis', and 'Assets library'. The 'Assets library' section is expanded, showing categories like 'Fundamentals', 'Primary Assets', 'Model Structure', 'Backup', and 'Buildings & Premises'. Under 'Buildings & Premises', there are sub-categories: 'Company premises', 'Archive room', 'IT room', and 'Building'. The 'Building' category is selected. The main content area shows a 'Composition' section for the selected asset, which is a 'Building'. Below this, there is a table titled '5 information risks' with columns for 'Asset', 'Threat', and 'Vulnerability'. A modal dialog box titled 'Export asset' is open in the center, asking for a password to protect the asset. It has two options: 'Custom password' (radio button selected) and 'Without password'. A 'Password' input field is present, and a 'Cancel' or 'Export' button is at the bottom right of the dialog.

1. **Custom password:** Possibility to encrypt the generated JSON file with a symmetric password that will be necessary during the import.
2. **Without password:** JSON file decoded.

4.3. Information Risks

By selecting the top of the analysis or an asset in the tree, the risk table appears. There are two separate risk tables:

The screenshot shows the Qualys Risk Management interface. On the left, there is a navigation sidebar with sections for 'Risk analysis', 'My Analysis', and 'Assets library'. The 'My Analysis' section is selected. The main content area shows a table titled '84 information risks'. The table has several columns: 'Asset', 'Impact' (with sub-columns 'C', 'I', 'A'), 'Threat' (with sub-columns 'Label' and 'Prob.'), 'Vulnerability' (with sub-columns 'Label', 'Existing controls', and 'Qualif.'), 'Current risk' (with sub-columns 'C', 'I', 'A'), 'Treatment', and 'Target risk'. The table lists various risks for different assets, such as 'Administrator workstations' and an 'Administrator' asset. The 'Treatment' column for most rows shows 'Not treated'.

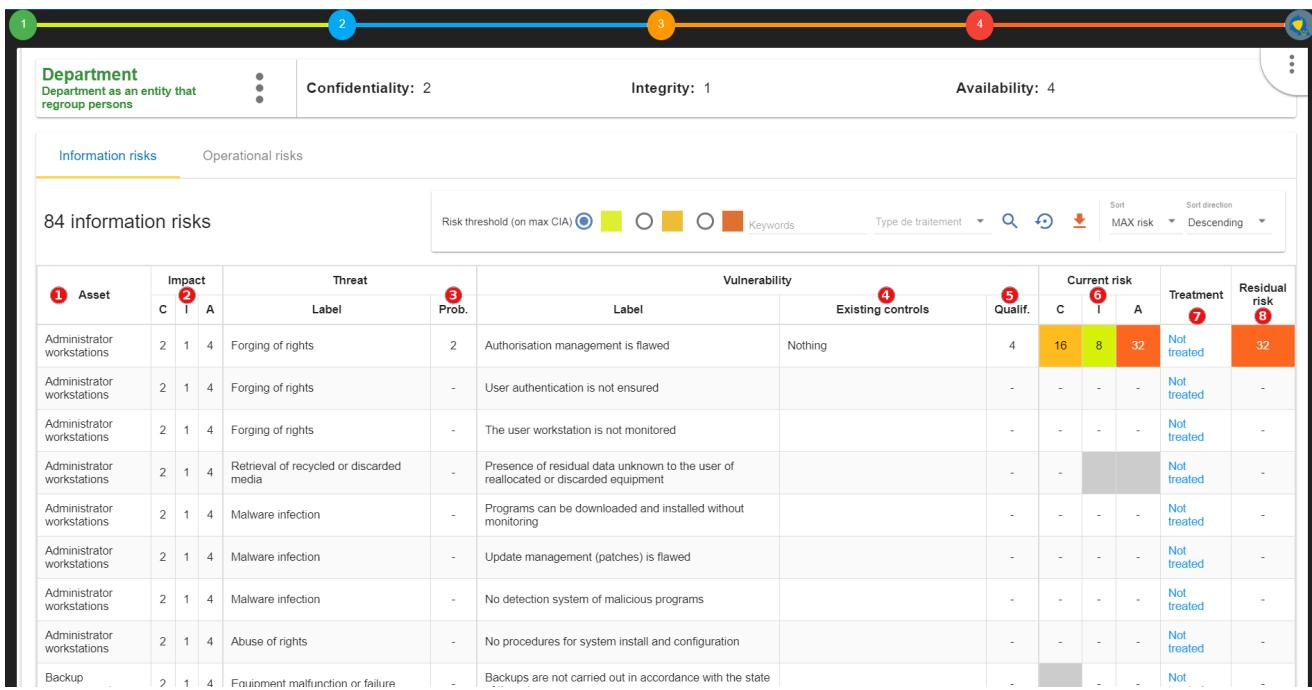
1. The information risk table based on CIA^[1] criteria.
2. The operational risk table based on ROLFP^[2] (see [Operational Risks](#))

Depending selection, the display risk table may change:

Selection	Information Risks	Operational Risks
Root of analysis	All risks of analysis	All risks of analysis
Primary Asset	Risks associated with his supporting assets	Risks associated with himself
Supporting Asset	Risks associated with himself	No risks

4.3.1. Risks table

1. The primary asset **Department** is selected in the analysis.
2. Display the CIA impacts of the **Department**.
3. Information Risk tab selected.
4. **Department** asset consists of supporting assets that provide total information risks.
5. Possibility to select only certain risks according to the risk acceptance threshold.
6. Ability to sort of most columns of the table.



1 Asset	Impact			3 Threat Label	Vulnerability			5 Qualif.	Current risk			7 Treatment	8 Residual risk
	C	I	A		Label	Existing controls	6 C	I	A				
Administrator workstations	2	1	4	Forging of rights	2	Authorisation management is flawed	Nothing	4	16	8	32	Not treated	32
Administrator workstations	2	1	4	Forging of rights	-	User authentication is not ensured	-	-	-	-	-	Not treated	-
Administrator workstations	2	1	4	Forging of rights	-	The user workstation is not monitored	-	-	-	-	-	Not treated	-
Administrator workstations	2	1	4	Retrieval of recycled or discarded media	-	Presence of residual data unknown to the user of reallocated or discarded equipment	-	-	-	-	-	Not treated	-
Administrator workstations	2	1	4	Malware infection	-	Programs can be downloaded and installed without monitoring	-	-	-	-	-	Not treated	-
Administrator workstations	2	1	4	Malware infection	-	Update management (patches) is flawed	-	-	-	-	-	Not treated	-
Administrator workstations	2	1	4	Malware infection	-	No detection system of malicious programs	-	-	-	-	-	Not treated	-
Administrator workstations	2	1	4	Abuse of rights	-	No procedures for system install and configuration	-	-	-	-	-	Not treated	-
Backup	2	1	4	Equipment malfunction or failure	-	Backups are not carried out in accordance with the state	-	-	-	-	-	Not treated	-

1. **Asset:** Assets involved in the evaluation.
2. **CIA Impact:** The CIA criteria that have been assigned to the **Department** are inherited by default from the supporting assets.
3. **Prob:** Likelihood of threat (see [Likelihood scale](#)).
4. **Existing controls:** Describe, in a factual manner, the security control in place concerning the vulnerability or, more broadly, the risk.
5. **Qualif:** Evaluation of control in place in order to determine the level of vulnerability (see [Vulnerability scale](#)).
6. **Current risk:** Risk value calculated according to the risk calculation formula. The colours depend on the risk acceptance grid (see [Acceptance thresholds](#)).
7. **Treatment:** Indication if the risk is treated, and links to the risk profile (see [Risk information sheet](#)).
8. **Residual risk:** Value of residual risk. In the case of the figure above, the residual risk is equal to the max risk because it is not yet treated.



By leaving the cursor in most fields, a tooltip appears.

4.3.2. Risk information sheet

The risk sheet is displayed when you click on the **Not treated** link in the information risk table.

1. Click to turn back to risk table.
2. Risk values for CID criteria (not yet covered in the example).
3. Reminders of the parameters of the risk table.
4. Creation / Assignment button for one or more recommendations.
5. Selection of the kind of treatment:
 1. Reduction / Modification
 2. Denied
 3. Accepted
 4. Shared
6. Choosing a risk reduction value, the more effective the control is, the greater the reduction value is.
7. Proposals of controls, which come from various repositories.



Do not forget to save the form in order to calculate the residual risk.

4.3.3. Adding additional risk

When an asset is selected in the analysis:

The screenshot shows the 'Employees' asset detail page. The top navigation bar includes 'Home > My Analysis' and a progress bar with four colored segments (green, blue, orange, red). The left sidebar shows a tree structure of assets: 'Department' (Front Office, Service office, Employees, User workstations, Specific software, Back Office), 'Assets library' (Fundamentals, EBIOS), and a search bar. The main content area displays '6 information risks' for the 'Employees' asset. A table lists risks with columns for Asset, Impact (C, I, A), Threat (Label, Prob.), Vulnerability (Label, Existing controls, Qualif.), Current risk (C, I, A), Treatment, and Residual risk. A 'Create a specific risk' button is at the bottom. The 'Employees' asset is highlighted in the sidebar.

1. Click to **create a specific risk**: A pop-up appears and allows to associate a threat and vulnerability pair with the current asset.



Threat and vulnerability must exist beforehand.

4.3.4. Contextual menu of asset

By clicking on the icon , the context menu of asset appears:

The screenshot shows the 'Administrator workstations' asset detail page. The top navigation bar and progress bar are identical to the previous screenshot. The left sidebar shows the same asset tree and search bar. The main content area displays '84 information risks' for the 'Administrator workstations' asset. A context menu is open with five options: 1. Edit impacts (with a pencil icon), 2. Import analysis (with a blue arrow icon), 3. Export analysis (with a blue arrow icon), 4. See asset in the library (with a folder icon), and 5. Detach (with a red X icon). The 'Administrator workstations' asset is highlighted in the sidebar.

1. **Edit impacts**: Displays the impact and consequence modification view (see [Impacts and consequences](#)).
2. **Import analysis**: Allows you to import an analysis from the location pointed to by the selected asset of the scan. The import works exactly like importing an asset. (See [Importing an asset](#).)

3. **Export analysis:** Allows you to export analysis, from the place pointed by the selected asset of the analysis. The export works exactly like exporting an asset. (See [Exporting an asset](#).)



The additional option, **export with assessment**. It means, export gets the evaluation and treatment of risks. By default is disabled.

Export options

Export with assessments?

No

4. **See asset in the library:** Displays the asset from the library, allowing you to have another context menu that allows changes to the asset. (See [Context menu of library](#).)

5. **Detach:** This removes an asset from the risk analysis.

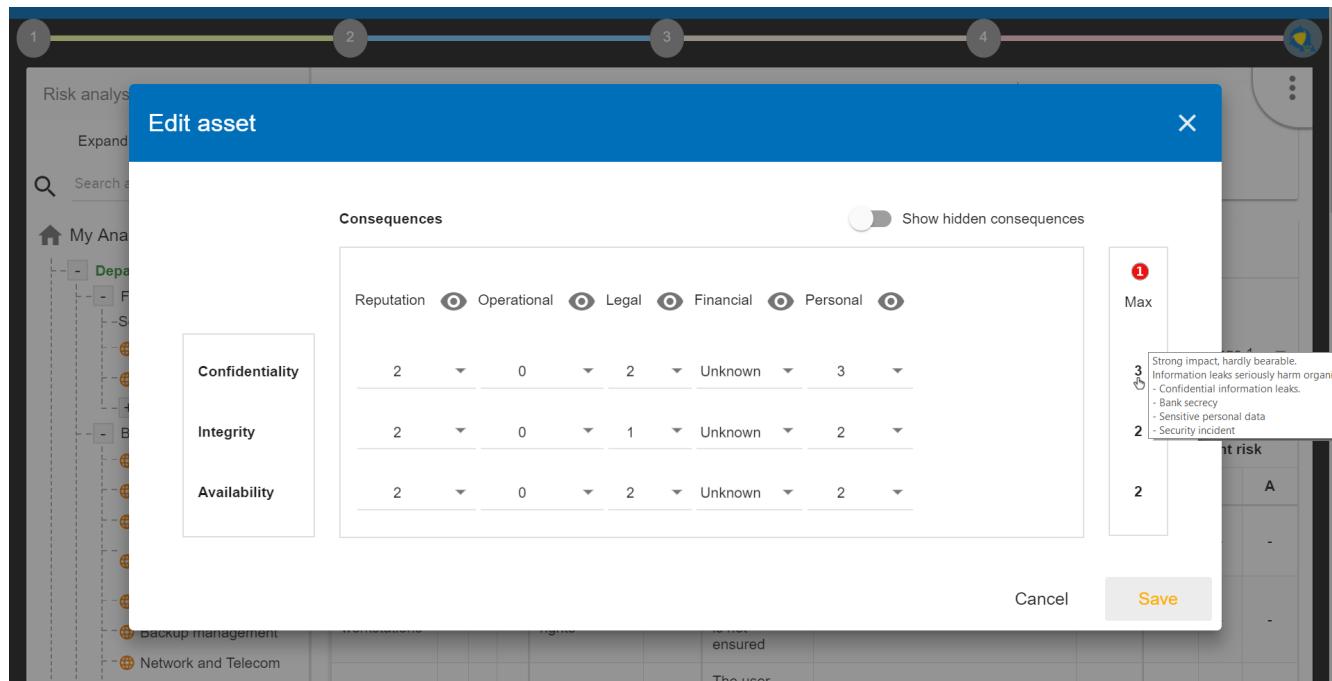


This action may lead to the loss of risk assessments for this asset and its childrens.

4.3.5. Impacts and consequences

The aim is to define the level of the primary assets, the impacts and consequences that can result from the realization of the risks of the model.

The pop-up below appears.



1. Consultation of impact scales is done through the menu at the top right of the screen.



By leaving the pointer unmoved over the numbers, the meaning of this number appears after one second.

When one of the criteria **C** (confidentiality), **I** (integrity) or **A** (availability) is allocated, there is a

need to ask : what are the consequences on the company, and more particularly on its ROLFP, i.e. its Reputation, its Operation, its Legal, its Finances or the impact on the Person (in the sense of personal data).

In the case of the above figure, the 3 (out of 5) impact on confidentiality, is explained by the maximum value ROLFP regarding confidentiality. For example, 3 is the consequence of the person in case of disclosure of his personal file.



To hide the consequences that will not consider. Click on the icon . To show it again. Click on [Show hidden consequences](#)

4.4. Operational Risks

4.4.1. Risks table

1. Select the primary asset. In this case, **Department**.
2. Click on tab **Operational risks**.
3. Total of operational risks associated with primary asset.
4. Ability to select only certain risks, according to the risk acceptance threshold.
5. Ability to sort of most columns of the table.



The operational risk table may or may not display the inherent risks. They are the operational risks that would impact the organization without any controls in place. To show this option see [Creating a Risk Analysis](#).

1 Asset	2 Risk description	3 Inherent risk					4 Net risk					6 Treatment	7 Residual risk			
		Prob.	R	O	L	F	P	Prob.	R	O	L			F	P	
Department	Prior information to be provided to the person is insufficient	3	4	3	2	4	1	12	2	3	2	2	1	6	Not treated	-
Department	Changes in treatment or further treatment, without prior notification to the data subject	-	-	-	-	-	-	-	-	-	-	-	-	-	Not treated	-

1. **Asset:** Assets involved in the evaluation
2. **Risk description:** Description of risk
3. **Inherent risk:** Operational risk is calculated from the two factors, the probability (Prob.) of the risk scenario and the Impact based on the ROLFP^[3] without controls in place. The current risk represents the maximum value of the probability of the ROLFP impact values.
4. **Net risk:** Net risk represents the risk of the measures currently in place. The calculation is the same as for the inherent risks.
5. **Existing controls:** Describe here, in a factual manner, the control in place.
6. **Treatment:** Indication if the risk is treated and risk profile (see [Operational risk sheet](#)).
7. **Residual risk :** Value of the residual risk. In the case of the figure above, the residual risk is equal to the max risk because it has not yet been treated.

4.4.2. Operational risk sheet

The risk card is displayed when you click on the [Not treated](#) link in the operational risk table.

The screenshot shows a risk analysis interface with the following components and numbered callouts:

- Header:** Home > My Analysis > Risk sheet
- Left sidebar:**
 - Risk analysis (1)
 - Assets library (2)
 - My Analysis (3)
 - Search an asset... (4)
- Central content:**
 - My Analysis Risk Analysis** (5)
 - Information risks (6)
 - Operational risks (7)
 - Back to the list** (8)
 - Risk table:**

	Prob.	R	O	L	F	P	MAX risk
Current risk (2)	4	4	4	-	-	-	16
Residual risk (3)	2	1	1	1	1	-	2
 - Asset details:**
 - Asset: Governance
 - Risk description (4): Lack of records of processing activities
 - Risk probability: 4 - Very likely: easy to execute, no mentionable investment or knowledge necessary
 - Existing controls
 - Recommendations (5): Search a recommendation
 - Treatment and referentials:**
 - Kind of treatment (6): Reduction
 - Security referentials (7): ISO 27002, 18.1.3 - Protection of records
- Bottom right:** Save button

1. **Back to the list:** Return to risk table.
2. **Current risk:** Values for risk probability (Prob.) and ROLFP^[4] Criteria.
3. **Residual risk :** Values for risk probability and ROLFP^[5] criteria (not yet treated). Those values should be adjusted according to the recommendation and the measures that will be put in place.
4. Reminders of the parameters of the risk table.
5. **Recommendations :** Creation / Assignment button for adding one or more recommendations.
6. **Kind of treatment :** Selection of the type of risk treatment, the 4 values have their sources of ISO / IEC 27005 :
 1. Modification / Reduce
 2. Refused
 3. Accepted
 4. Shared
7. Proposals of controls, which come from referentials.



Once the validation has been done, the risk is treated.

The screenshot shows a risk analysis interface with a sidebar on the left containing 'Risk analysis', 'My Analysis', and 'Assets library'. The main area displays a single risk entry for 'Current risk' with a MAX risk score of 6. The interface includes a navigation bar with four colored dots (1, 2, 3, 4) and a 'Save' button.

	Prob.	R	O	L	F	P	MAX risk
Current risk	2	3	2	2	2	1	6
Residual risk	2	1	1	1	1	0	2

Below the table, there are sections for 'Asset', 'Department', 'Risk description', 'Risk probability', 'Existing controls', 'Recommendations', and 'Kind of treatment'.

4.4.3. Adding additional risk

When an asset is selected in the analysis:

The screenshot shows the same interface but with the asset 'Department' selected in the sidebar. The main area displays two operational risks for the 'Department' asset. The 'Treatment' column shows 'Reduction' for the first risk and 'Not treated' for the second. The interface includes a navigation bar with four colored dots (1, 2, 3, 4) and a 'Save' button.

Asset	Risk description	Inherent risk					Net risk					Treatment	Residual risk	
		Prob.	R	O	L	F	P	Prob.	R	O	L			F
Department	Prior information to be provided to the person is insufficient	3	4	3	2	4	1	12	2	3	2	2	1	6
Department	Changes in treatment or further treatment, without prior notification to the data subject	-	-	-	-	-	-	-	-	-	-	-	-	-

Below the table, there is a button to '+ Create a specific risk'.

1. Click to **create a specific risk**: A pop-up appears and allows a new risk to be associated with the current asset. If the risk does not exist, it can be created directly.

- [1] CIA, Confidentiality, Integrity and Availability.
- [2] rolfp, Reputation, Operational, Legal, Financial and Personal
- [3] rolfp
- [4] rolfp
- [5] rolfp

Chapter 5. Evaluation Scales

The menu is always accessible from the main view of MONARC:

1. Calling the right contextual menu

1. Risk analysis

2. My Analysis

3. Information risks

4. Evaluation scales

137 information risks

Asset	Impact			Threat		Label	Prob.	Vulnerability			Current risk			Treatment	Residual risk
	C	I	A	Label	Prob.			Existing controls	Qualif.	C	I	A			
Administrator workstations	1	3	4	Forging of rights	3	Authorisation management is flawed	5	15	45	60	Not treated	60			
User workstations	1	3	4	Forging of rights	3	Authorisation management is flawed	5	15	45	60	Not treated	60			
Backup management	1	3	4	Theft or destruction of media, documents or equipment	2	Backup media are not stored in a suitable place	5	10	40	40	Reduction	8			
IT admin	1	3	4	Breach of personnel availability	2	No substitutes for strategic personnel	5	8	40	40	Reduction	8			
IT organization	1	3	4	Theft or destruction of media, documents or equipment	2	Physical access authorisations are not checked regularly	5	10	40	40	Reduction	32			
rotary operators	1	3	4	Breach of personnel availability	2	No substitutes for strategic personnel	5	8	40	40	Reduction	8			
Building	1	3	4	Theft or destruction of media, documents or equipment	3	The principle of least privilege is not applied	3	9	36	36	Reduction	0			
Datacenters	1	3	4	Theft or destruction of media, documents or equipment	2	Authorisation management is flawed	4	8	32	32	Not treated	32			
IT organization	1	3	4	Forging of rights	2	Logical access authorisations are not checked regularly	4	8	24	32	Reduction	24			
Server management	1	3	4	Denial of actions	3	No storage of activity tracks	3	8	27	27	Not treated	27			
IT organization	1	3	4	Denial of rights	3	No coordination between the departments concerned	2	6	18	24	Not	24			

2. Calling the Management view of Evaluation scales

1. Risk analysis

2. My Analysis

3. Information risks

4. Evaluation scales

137 information risks

Asset	Impact			Threat		Label	Prob.	Vulnerability			Existing controls	Qualif.	Current risk			Treatment	Residual risk
	C	I	A	Label	Prob.			Existing controls	Qualif.	C			I	A			
Administrator workstations	1	3	4	Forging of rights	3	Authorisation management is flawed	5	15	45	60	Not treated	60					
User workstations	1	3	4	Forging of rights	3	Authorisation management is flawed	5	15	45	60	Not treated	60					
Backup management	1	3	4	Theft or destruction of media, documents or equipment	2	Backup media are not stored in a suitable place	5	10	40	40	Reduction	8					
IT admin	1	3	4	Breach of personnel availability	2	No substitutes for strategic personnel	5	8	40	40	Reduction	8					
IT organization	1	3	4	Theft or destruction of media, documents or equipment	2	Physical access authorisations are not checked regularly	5	10	40	40	Reduction	32					
rotary operators	1	3	4	Breach of personnel availability	2	No substitutes for strategic personnel	5	8	40	40	Reduction	8					
Building	1	3	4	Theft or destruction of media, documents or equipment	3	The principle of least privilege is not applied	3	9	36	36	Reduction	0					
Datacenters	1	3	4	Theft or destruction of media, documents or equipment	2	Authorisation management is flawed	4	8	32	32	Not treated	32					
IT organization	1	3	4	Forging of rights	2	Logical access authorisations are not checked regularly	4	8	24	32	Reduction	24					
Server management	1	3	4	Denial of actions	3	No storage of activity tracks	3	8	27	27	Not treated	27					
IT organization	1	3	4	Denial of rights	3	No coordination between the departments concerned	2	6	18	24	Not	24					

The view **Evaluation scales** shows the following criteria:

- Impact scale
- Likelihood scale
- Vulnerability scale

- The management of information risk acceptance thresholds
- The management of operational risk acceptance thresholds



All scales are editable and customizable.



However, it is no longer permitted to modify scales as soon as an evaluation has been encoded.

5.1. Impact scale

Home > My Analysis > Evaluation scales

Impacts scale: [0 - 4] ①

Show hidden impacts ②

New column name ④

Confidentiality ③	Integrity ③	Availability ③	Reputation ③	Operational ③	Personal ③	④ New column name
0 Nonexistent impact. The confidentiality criterion is not important.	Nonexistent impact. The integrity criterion is not important.	Nonexistent impact. The availability criterion is not important.	No consequences	No consequences	No consequences	
1 Weak impact, insignificant. Information leaks are negative to the organization's interests. Example: - Internal information leaks which shouldn't be outside the company. - Memorandum - Internal phone directory	Weak impact, insignificant. Corruption easy to rectify without any consequences. Example: - Internal mail or letter.	Weak impact, insignificant. Unavailability which is inconvenient, but not really harmful for the stakeholders. ⑤	Sporadic media critics	Minor incidents without any impact on customers.	Some inconvenience which will be topped without difficulty (Time waste, procedure reiteration, irritation, etc.).	
2 Average impact, acceptable. Information leaks harm organization's interests. Example: - Moderately sensitive information leaks which are only for a group of people. - Internal networking scheme. - Documentation or source code which is non-critical	Average impact, acceptable. Corruption which brings an inconvenience to the stakeholders. Recovery is easy. Example: - Informational web site.	Average impact, acceptable. Unavailability which brings an inconvenience to the stakeholders. Example: - Maximum time periods consider as unbearable are reached.	Temporary degradation of the company or staff reputation. Occasional media critics	Isolated incidents with a manageable impact on customers.	Significative inconvenience which could be topped with some difficulties (Additional costs, denial of access to commercial delivery, fear, misunderstanding, stress, slight physical ailments, etc.).	
3 Strong impact, hardly bearable. Information leaks seriously harm organization's interest. Example: - Confidential information leaks - Bank secrecy - Sensitive personal data - Security incident	Strong impact, hardly bearable. Corruption which brings a considerable inconvenience to the stakeholders. Example: - Confusion between stakeholders.	Strong impact, hardly bearable. Unavailability which bring a considerable inconvenience to the stakeholders. Example: - Maximum time periods consider as unbearable are reached.	Strong degradation of the company or staff reputation. Serious and repeated media critics.	Interruption of a whole department.	Significative consequences which could be topped, but with some serious difficulties (funds embezzlement, bank ban, deterioration of goods, job loss).	
4 Really strong impact, unbearable. Information leaks almost deadly harm organization's interest. Example:	Really strong impact, unbearable. Corruption which can't be recovered	Really strong impact, unbearable. Unavailability which asks some drastic efforts to recover, or even final	Death of someone. Definitive degradation of the	Complete stop of all services.	Significative consequences almost irremediable, which can't be topped (financial distress, important financial	

1. Click to modify the number of scales.
2. Click on **Show hidden impacts** to show or hide the criteria not used in the analysis.
3. Click on the symbol to hide an unused column.
4. Click on **New column name** to add new impact criteria.
5. Click to edit the headings of each scale.

5.2. Likelihood scale

Leaks which are only for a group of people - Internal networking scheme - Documentation or source code which is non-critical:	Recovery is easy Example: - Informational web site.	Example - Maximum time periods consider as unbearable are not reached.	Occasional media critics	Impact on customers.	Commercial delivery, tear, misunderstanding, stress, slight physical ailments, etc.)
Strong impact, hardly bearable. Information leaks seriously harm organization's interest. Example: - Confidential information leaks - Bank secrecy - Sensitive personal data - Security incident	Strong impact, hardly bearable. Corruption which brings a considerable inconvenience to the stakeholders. Example: - Confusion between stakeholders.	Strong impact, hardly bearable. Unavailability which bring a considerable inconvenience to the stakeholders. Example: - Maximum time periods consider as unbearable are reached.	Strong degradation of the company or staff reputation Serious and repeated media critics.	Interruption of a whole department.	Significant consequences which could be topped, but with some serious difficulties (funds embezzlement, bank ban, deterioration of goods, job loss.)
Really strong impact, unbearable. Information leaks almost deadly harm organization's interest. Example: - Secret on really sensitive information leaks. - Classified information by the law (The EU, NATO, national...)	Really strong impact, unbearable. Corruption which can't be recovered or bring a permanent downtime.	Really strong impact, unbearable. Unavailability which asks some drastic efforts to recover, or even final. Example: - Important maximums time periods consider as unbearable.	Death of someone. Definitive degradation of the company or staff reputation International media coverage	Complete stop of all services	Significant consequences almost irremediable which can't be topped (financial distress, important financial debts, working impossibility, long periods psychological and physiological affection, death, etc.)

Likelihood scale: [0 - 4] 1

0. Impossible
1. Very unlikely: never happened, requires a high level of expert knowledge, or it is very expensive to execute.
2. Unlikely: might have happened, rare phenomenon which requires a good level of expert knowledge, or it is expensive to execute.
3. Could happen occasionally.
4. Very likely: easy to execute, no mentionable investment or knowledge necessary

Vulnerabilities scale: [0 - 5]

0. No vulnerabilities
1. Very weak vulnerability: Some efficient measures have been already taken, and their effectiveness is controlled.
Very high maturity: Good practices are implemented and frequently verified.
2. Weak vulnerability: Some efficient measures have been already taken.
High maturity: Good practices are implemented.
3. Average vulnerability: Some measures have been already taken, even though they could be better.
Average maturity: Good practices are implemented without searching a better way.
4. Strong vulnerability: Some measures have been already taken, even though they are ineffective or unadapted.
Low maturity: Good practices aren't implemented, but there are some positive reactions without any thoughts.
5. Very strong vulnerability: No measures have been implemented.
Very low maturity or no maturity at all.

Acceptance thresholds of information risks

TxV



- Click to modify the number of scales

- Click to edit the heading on each scale (Management identical to the impact scale).

5.3. Vulnerability scale

Likelihood scale: [0 - 4]

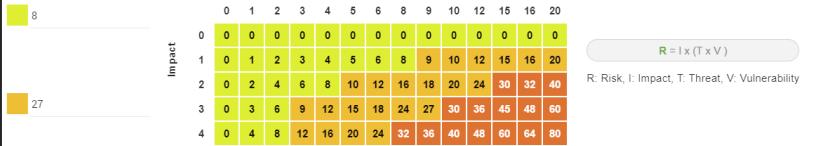
0. Impossible
1. Very unlikely: never happened, requires a high level of expert knowledge, or it is very expensive to execute.
2. Unlikely: might have happened, rare phenomenon which requires a good level of expert knowledge, or it is expensive to execute.
3. Could happen occasionally.
4. Very likely: easy to execute, no mentionable investment or knowledge necessary

Vulnerabilities scale: [0 - 5] 1

0. No vulnerability
1. Very weak vulnerability: Some efficient measures have been already taken, and their effectiveness is controlled.
Very high maturity: Good practices are implemented and frequently verified.
2. Weak vulnerability: Some efficient measures have been already taken.
High maturity: Good practices are implemented.
3. Average vulnerability: Some measures have been already taken, even though they could be better.
Average maturity: Good practices are implemented without searching a better way.
4. Strong vulnerability: Some measures have been already taken, even though they are ineffective or unadapted.
Low maturity: Good practices aren't implemented, but there are some positive reactions without any thoughts.
5. Very strong vulnerability: No measures have been implemented.
Very low maturity or no maturity at all.

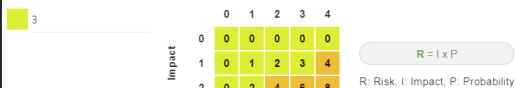
Acceptance thresholds of information risks

TxV



Acceptance thresholds of operational risks

Probability



- Click to modify the number of scales

- Click to edit the heading on each scale (Management identical to the impact scale).

5.4. Acceptance thresholds

There are two separate tables for acceptability thresholds, as operational risk and information risk are not calculated in the same way. Information risks are calculated using three criteria:

1. Very unlikely: never happened, requires a high level of expert knowledge, or it is very expensive to execute.
2. Unlikely: might have happened, rare phenomenon which requires a good level of expert knowledge, or it is expensive to execute.
3. Could happen occasionally.
4. Very likely: easy to execute, no mentionable investment or knowledge necessary.

Vulnerabilities scale: [0 - 8]

- 0: No vulnerabilities
- 1: Very weak vulnerability. Some efficient measures have been already taken, and their effectiveness is controlled.
- 2: Very high maturity. Good practices are implemented and frequently verified.
- 3: Weak vulnerability. Some efficient measures have been already taken.
- 4: High maturity. Good practices are implemented.
- 5: Average vulnerability. Some measures have been already taken, even though they could be better.
- 6: Average maturity. Good practices are implemented without searching a better way.
- 7: Strong vulnerability. Some measures have been already taken, even though they are ineffective or unadapted.
- 8: Low maturity. Good practices aren't implemented, but there are some positive reactions without any thoughts.
- 9: Very strong vulnerability. No measures have been implemented.
- 10: Very low maturity or no maturity at all.

Acceptance thresholds of information risks

		TxV																			
		0	1	2	3	4	5	6	8	9	10	12	15	16	20						
Impact	Impact	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	Impact	1	0	1	2	3	4	5	6	8	9	10	12	15	16	20					
8	27	2	0	2	4	6	8	10	12	16	18	20	24	30	32	40					
1		3	0	3	6	9	12	15	18	24	27	30	36	45	48	60					
		4	0	4	8	12	16	20	24	32	36	40	48	60	64	80					

R: Risk, I: Impact, T: Threat, V: Vulnerability

Acceptance thresholds of operational risks

		Probability								
		0	1	2	3	4				
Impact	Impact	0	0	0	0	0	0	0	0	0
	Impact	1	0	1	2	3	4			
3	8	2	0	2	4	6	8			
1		3	0	3	6	9	12			
		4	0	4	8	12	16			

R = I x P

R: Risk, I: Impact, P: Probability

1. Modification of threshold levels of information risks. The table displayed above (as well as the risk analysis tables) is updated automatically.
2. Information risks are calculated using three criteria: **Impact x Threat x Vulnerability**
3. Modification of threshold levels of operational risks. The table displayed above (as well as the risk analysis tables) is updated automatically.
4. Operational risks are calculated using two criteria: **Impact x Probability**

Chapter 6. Management of Knowledge Base

The menu is always accessible from the main view of MONARC:

1. Calling the right contextual menu

2. Calling the Management view of Knowledge base

All parameters are managed with the same view:

Status	Label	Code	Type	Description	Actions
<input type="checkbox"/>	Company directory	SYS_ANU	Secondary	Company directory	
<input type="checkbox"/>	Business application	LOG_APP	Secondary	Custom business application or standard	
<input type="checkbox"/>	Other media	MAT_NELE	Secondary	Paper, slide, transparency, documentation, fax.	
<input type="checkbox"/>	Backup	OV_BACKUP	Secondary	Backup	
<input type="checkbox"/>	Building, office or premises	OV_BATI	Secondary	Building, office or premises	
<input type="checkbox"/>	Container	CONT	Primary	Asset container	
<input type="checkbox"/>	Decision maker	PER_DEC	Secondary	Decision maker	
<input type="checkbox"/>	Software development	OV_DEVELOPPEMENT	Secondary	Software development	
<input type="checkbox"/>	Developer	PER_DEV	Secondary	Developer	
<input type="checkbox"/>	Internet access device	SYS_INT	Secondary	Internet access device	
<input type="checkbox"/>	Paper document	OV_INFOPHY	Secondary	Information in physical form	
<input type="checkbox"/>	Operator / Maintenance	PER_EXP	Secondary	Operator / Maintenance	

1. Selecting the desired parameter tab.
2. Added a parameter according to the active tab.
3. Finding a parameter.
4. Select a parameter (for deletion).
5. Editing / deleting active parameters.

Generally, all parameters have a code, label, and description

- The code is used to categorize the parameter.
- The label is displayed in all MONARC views.
- The description is the label that typically appears in the tooltip.

When adding an item, all the tabs (except information risks) have the possibility to add items from external files (click at the top of the pop-up on Import from files).

code	label	description	type
jo_ap	my primary asset	description1	1
jo_as	my secondary asset	description2	2

1. Display all the information needed to create the right file.
2. Upload the file.
3. Import it.

6.1. Type of assets

There are two types of assets:

- Primary or business assets: They generally represent, but are not limited to, internal or external services, processes or information. They are the ones that are at the root of the analysis and that will decline their impact on other assets. The containers used to organize the analysis visually are declared as a primary asset (e.g. Back Office).
- Secondary or supporting assets: These are the assets on which risks are associated, they are used to describe the risk profile of the primary assets.

6.2. Threats

The essential parameters of threat threats are the association with the CIA criteria. It is important when creating a new threat to properly specify these criteria, because they will condition the risk tables. Example: Passive listening (listening, watching without touching anything) is a threat, for example, that affects only the criterion of confidentiality. Threats have themes to generate statistics.

6.3. Vulnerabilities

Vulnerabilities must describe the risk context in a negative way. The greater the vulnerability, the less existing or effective measures are. Vulnerability is inverse to maturity. Example: "Absence of identification of sensitive goods": Low vulnerability if the sensitive goods are identified and vice versa, the vulnerability is great if they are not. The description of the vulnerability is very important because it appears in the risk table as an additional description that helps the security specialist to refine his questionnaire or the precise points that are sought in relation to a risk.

6.4. Referentials

It is the repository that is used by default to help the implementation of controls with regard to a specific risk.

1. This area is dedicated to manage the selection of referential. In the right, there are the standard buttons to edit, add and delete a referential.
2. This new icon appears when you have two referential, it allows you to add, import or export matching between the selected referential and the others.
3. This area is dedicated so manage security controls of the selected referential.

6.5. Risks

This table is the core of MONARC's knowledge base. It is here that associations are made between "Asset Type", "Threat" and "Vulnerability". It is the combination of the risks inherent in each asset that will be proposed by default when the risk model is created. For each association that can be assimilated as a risk scenario, it is possible to associate security measures from the referentials tabs. Only supporting assets are available for a Threat / Vulnerability association.

1. It is possible to switch between referential to see its linked controls of the risks show below.
2. This new icon appears when you have two referential, it allows you to automatically linked controls of a referential to risks. It uses the matching defined in the step before.

Asset	Control	Description	Action
LOG_OS - Operating system	MD24 - Denial of actions	138 - The operating system does not log system records or events	Edit Delete
LOG_OS - Operating system	MD14 - Forging of rights	138 - The operating system does not log system records or events	Edit Delete
LOG_OS - Operating system	MD24 - Denial of actions	137 - The operating system can be accessed and used by everyone (e.g. connecting via the root account)	Edit Delete

1. The first referential is the one which you want to link to the risks.
2. The second is the source you want to use (it has taken risks linked to its controls).

6.6. Tags (Operational Risks)

Tags represent a categorization of operational risks. It is a logical grouping of risks that can then be associated with primary assets.

6.7. Operational Risks

It is a list of risks created by default or added specifically. Each risk can be associated with one or more tags, which allows, when depositing an asset in the analysis to propose default risks, as for the risks of the information. It is possible to link security controls as for the risks of the information.

6.8. Recommendations Sets

It is the repository that is used by default to manage the recommendations.

Imported recommendations 1 CNIL

Recommendations 2

Search... Show active only

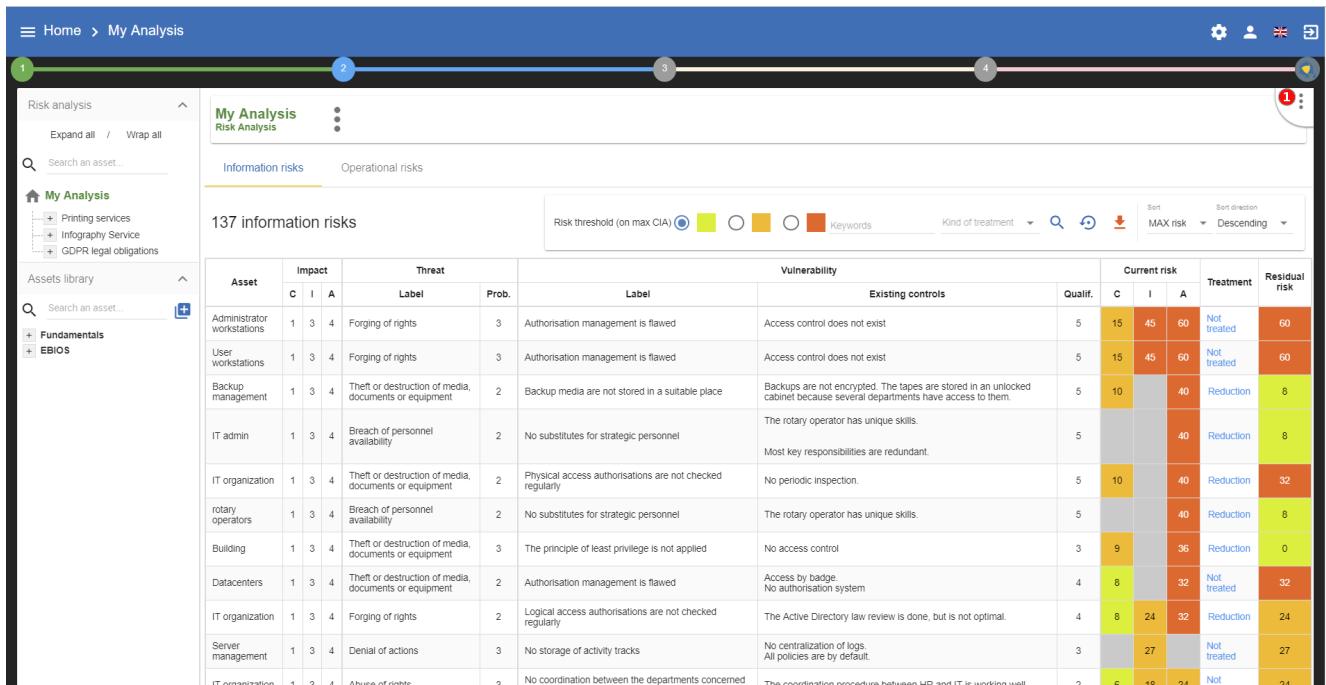
Status	Code	Description	Importance	Actions
<input type="checkbox"/>	✓	Rec 1 Define the rules for using and leaving the equipment, for all staff.	•	
<input type="checkbox"/>	✓	Rec 10 Implement rigorous access control including the need to know	•••	
<input type="checkbox"/>	✓	Rec 11 Implement a centralized authentication system for workstations	••	
<input type="checkbox"/>	✓	Rec 12 Designate a DPO compliant with the GDPR	••	
<input type="checkbox"/>	✓	Rec 13 Establish a procedure to keep applicants informed of the consideration of their request and the processing	••	
<input type="checkbox"/>	✓	Rec 14 Identify the personal data necessary for the purpose of the processing and justify why each category of personal data is essential	••	
<input type="checkbox"/>	✓	Rec 15 List in a register the processing of personal data and keep it up to date	••	
<input type="checkbox"/>	✓	Rec 2 Accompany external people for any intervention in the Datacenter.	••	
<input type="checkbox"/>	✓	Rec 3 Provide access by badge and write a note prohibiting the door from being blocked.	•••	
<input type="checkbox"/>	✓	Rec 4 Define a maintenance procedure that prevents aging of the equipment.	•••	
<input type="checkbox"/>	✓	Rec 5 Train at least one additional person in the use of the machines.	•••	
<input type="checkbox"/>	✓	Rec 6 Periodically review access authorizations.	••	
<input type="checkbox"/>	✓	Rec 7 Periodically test the restoration procedure using a representative sample of data.	•••	

1. This area is dedicated to manage the selection of sets of recommendations. In the right, there are the standard buttons to edit, add and delete a referential.
2. This area is dedicated so manage recommendations of the selected set.

Chapter 7. Statement of applicability

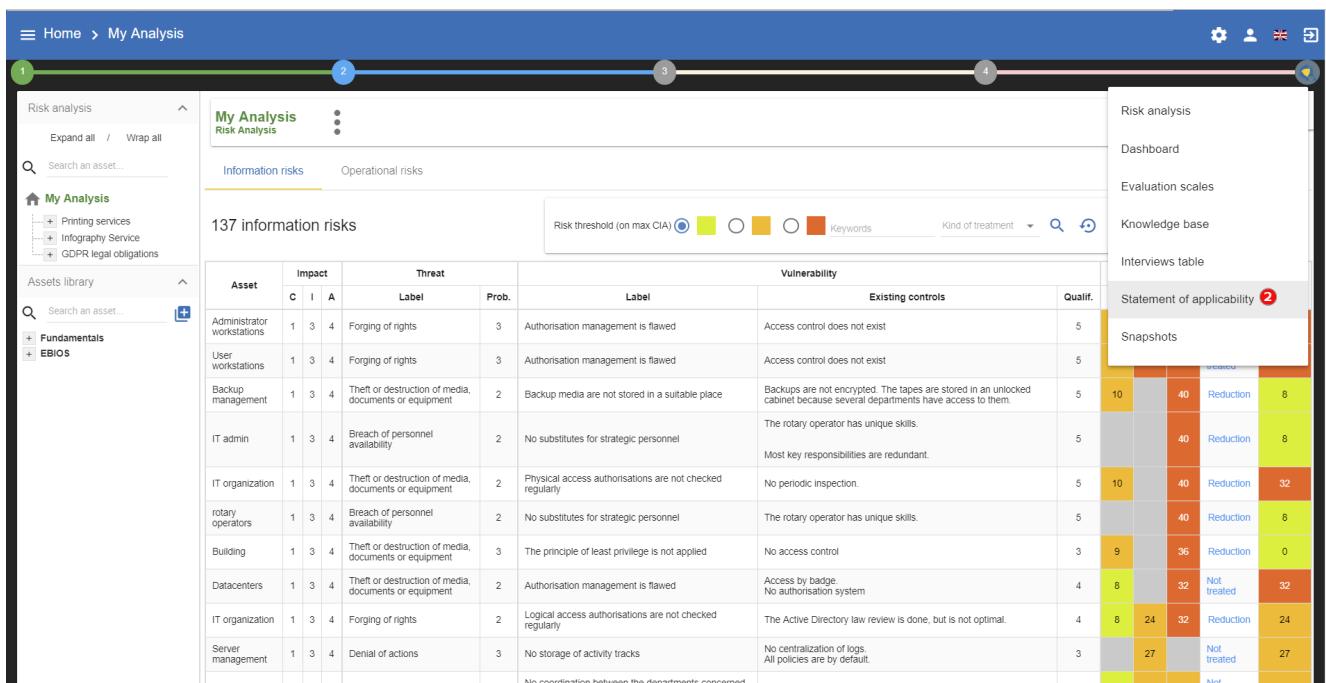
The menu is always accessible from the main view of MONARC:

1. Calling the right contextual menu



The screenshot shows the MONARC interface with the 'My Analysis' dashboard. The 'Statement of applicability' menu item is highlighted with a red box. The main content area displays a table of 137 information risks, categorized by asset, impact, threat, vulnerability, and current risk. The table includes columns for Asset, Impact (C, I, A), Threat (Label, Prob.), Vulnerability (Label), Existing controls, Qualif., Current risk (C, I, A), Treatment, and Residual risk. The 'Statement of applicability' menu item is located in the top right corner of the dashboard area.

2. Calling the Management view of Statement of applicability



The screenshot shows the MONARC interface with the 'My Analysis' dashboard. The 'Statement of applicability' menu item is highlighted with a red box. The main content area displays a table of 137 information risks, similar to the first screenshot. The 'Statement of applicability' menu item is located in the top right corner of the dashboard area. A red box also highlights the 'Statement of applicability' item in the top right corner of the dashboard area.

The view **Statement of applicability** above:

Statement of applicability

NIST SP 800-53 ① ISO 27002

③ ④ ⑤ ⑥ ⑦

②

① ② ③ ④ ⑤ ⑥ ⑦

Category	Code	Control	Inclusion/Exclusion	Remarks/Justification	Evidences	Actions	Level of compliance
Information security policies	5.1.1	Policies for information security	EX LR CO BR BP RRA				⑤
Information security policies	5.1.2	Review of the policies for information security	EX LR CO BR BP RRA				
Organization of information security	6.1.1	Information security roles and responsibilities	EX LR CO BR BP RRA				
Organization of information security	6.1.2	Segregation of duties	EX LR CO BR BP RRA				
Organization of information security	6.1.3	Contact with authorities	EX LR CO BR BP RRA				
Organization of information security	6.1.4	Contact with special interest groups	EX LR CO BR				

1. Choose the **referential** on which one you want to work.
2. The **code** is a clickable field, click on it and see all the risks attached to the security control selected.

Back to the list

6.1.1 - Information security roles and responsibilities

Information risks

Asset	Impact			Threat		Vulnerability			Current risk			Treatment	Residual risk
	C	I	A	Label	Prob.	Label	Existing controls	Qualif.	C	I	A		
IT organization	1	3	4	Denial of actions	3	No definition of responsibilities	The team is small.	2	18	18	Not treated	18	
Rotary	1	3	4	Error in use	-	Lack of responsibility	NA	0	-	-	Not treated	-	

3. Choose if the security control is **included** or **excluded**, just click on the acronym, the description of it appears if the cursor is on it.
4. The field **remarks/justification**, **Evidences**, **Actions** are text field, just click on it and fill.
5. The **Level of compliance** is a drop-down list.
6. **Export** the selected view in CSV.
7. **Import** information for the selected referential from another.

Statement of applicability

NIST SP 800-53 ISO 27002

Import a statement of applicability (SOA)

A SOA can be completed from another one that is in the same risk analysis.

Before importing

- Match the controls between the two referentials on knowledge base (Referentials Tab)
- Take a snapshot of risk analysis if necessary.

Import Options

You can select which fields of the SOA you want to import.

If there is a multiple matching:

- The information of each control will be appended.
- For level of compliance, you can choose import mode calculation. (Average or worse level)

From referential: ISO 27002 (2)

Import Options (3)

- Inclusion/Exclusion
- Evidences
- Level of compliance
- Remarks
- Actions
- Average of levels
- Worse level

Cancel Import (4)

Category	Code	Control	Actions	Level of compliance
Access Control	AC-1	Access Control Policy and Standard		
Access Control	AC-2	Account Management		
Access Control	AC-3	Access Enforcement		
Access Control	AC-4	Information Flow Enforcement		
Access Control	AC-5	Separation of Duties		
Access Control	AC-6	Least Privilege		

1. **Read** what you are willing to do.
2. Choose the **referential** which contains information that you want to convert into the selected one.
3. Choose **information** you want to import.
4. **Import** the information of the referential.

Chapter 8. Dashboard

The menu is always accessible from the main view of MONARC:

1. Calling the right contextual menu

2. Calling the Management view of Dashboard

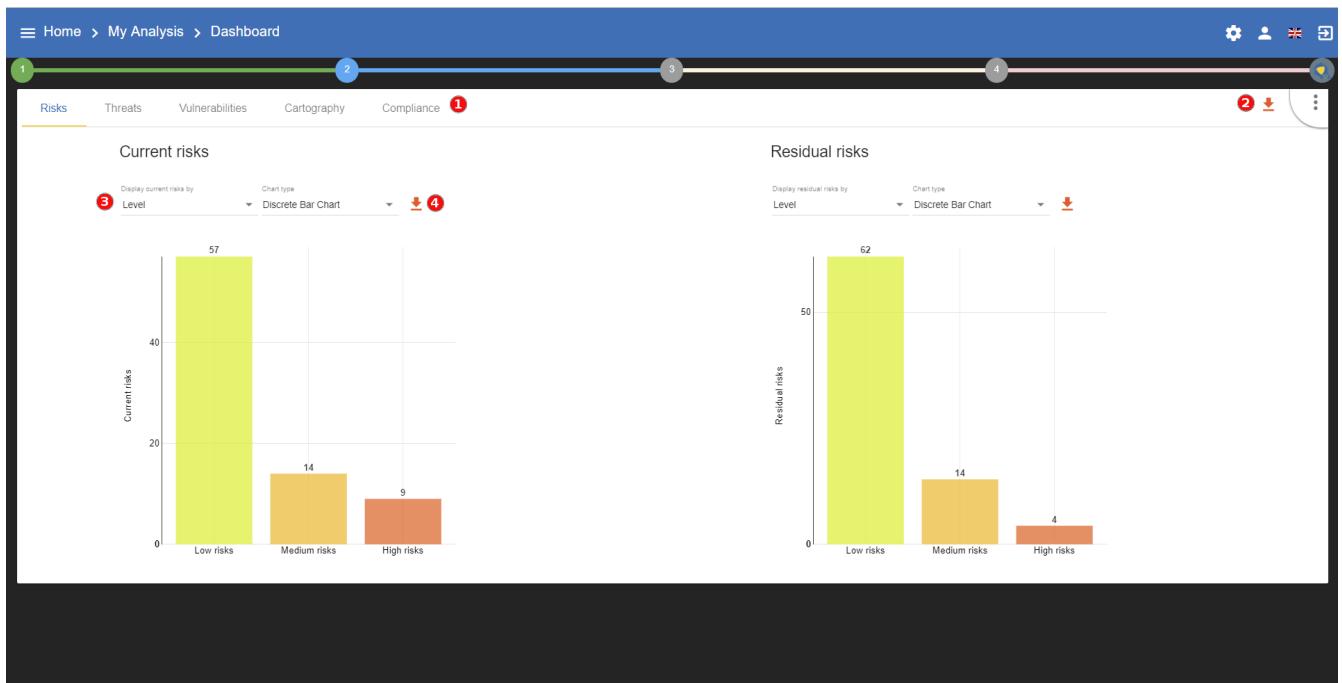
The view **Dashboard** shows informations about the following topics:

- Risks
- Threats
- Vulnerabilities

- Cartography
- Compliance



Most of the charts have parameters and are exportable.



All the part of the dashboard have the same functionalities.

1. **Choose** the part on which dashboard is required.
2. **Export** all the data in a XLSX document to make your own graph.
3. **Change** the parameters of the selected chart.
4. **Export** the chart as PNG

Chapter 9. Record of processing activities

The menu is always accessible from the main view of MONARC:

1. Calling the right contextual menu

2. Calling the Management view of Record of processing activites

1 2 3 4

Risk analysis

Expand all / Wrap all

Search an asset...

MyPrint

Information risks Operational risks

143 information risks

Risk threshold (on max CIA) 1 2 3 4 5 Keywords

Kind of treatment

Record of processing activities

Statement of applicability

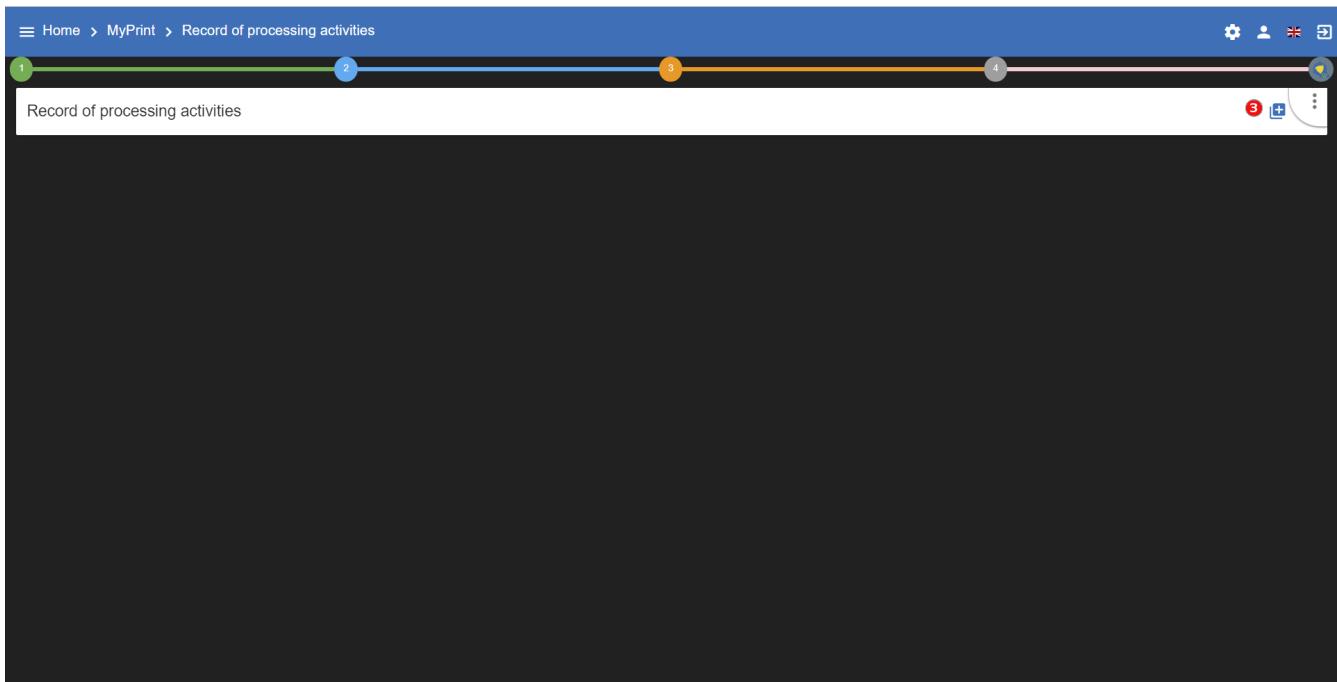
Acceptance

Reduction

Asset	Impact			Threat		Vulnerability			
	C	I	A	Label	Prob.	Label	Existing controls	Qualif.	kind of treatment
Server management	1	3	2	Equipment malfunction or failure	3	No service level management	No preventive maintenance. Intervention when a failure occurs.	5	Record of processing activities
User workstations	1	3	2	Forging of rights	3	Authorisation management is flawed	No access control	5	Statement of applicability
Printing operators	1	2	3	Error in use	3	Users are not made aware of information security	The person in place does not want training. He is retiring soon.	4	Acceptance
Printing operators	1	2	3	Error in use	3	No IT charter specifying the rules of use	No charter in place	4	Reduction
System administrator	1	2	3	Error in use	3	No IT charter specifying the rules of use	No charter or instructions for using the information system.	4	Reduction
Backup management	1	3	2	Equipment malfunction or failure	2	Backups are not carried out in accordance with the state of the art	Backups are made on tapes every night. The tapes are changed daily and kept for 7 days. A cassette is reserved every month for 1 year. No restoration tests are performed.	5	Reduction
Datacenter	1	3	2	Abuse of rights	2	No supervision of third-party access (supplier, cleaner, etc.)	Externs are not accompanied	5	Reduction
Printing operators	1	2	3	Breach of personnel availability	2	No substitutes for strategic personnel	The printing operator has unique skills	5	Reduction
Rotary printing press	1	2	3	Error in use	3	Possibility of some equipment being harmful to users (working in front of a screen, emanations, etc.)	The production department is noisy	3	Acceptance
Server management	1	3	2	Denial of actions	3	No storage of activity tracks	No centralization of logs. All policies are by default	3	Acceptance

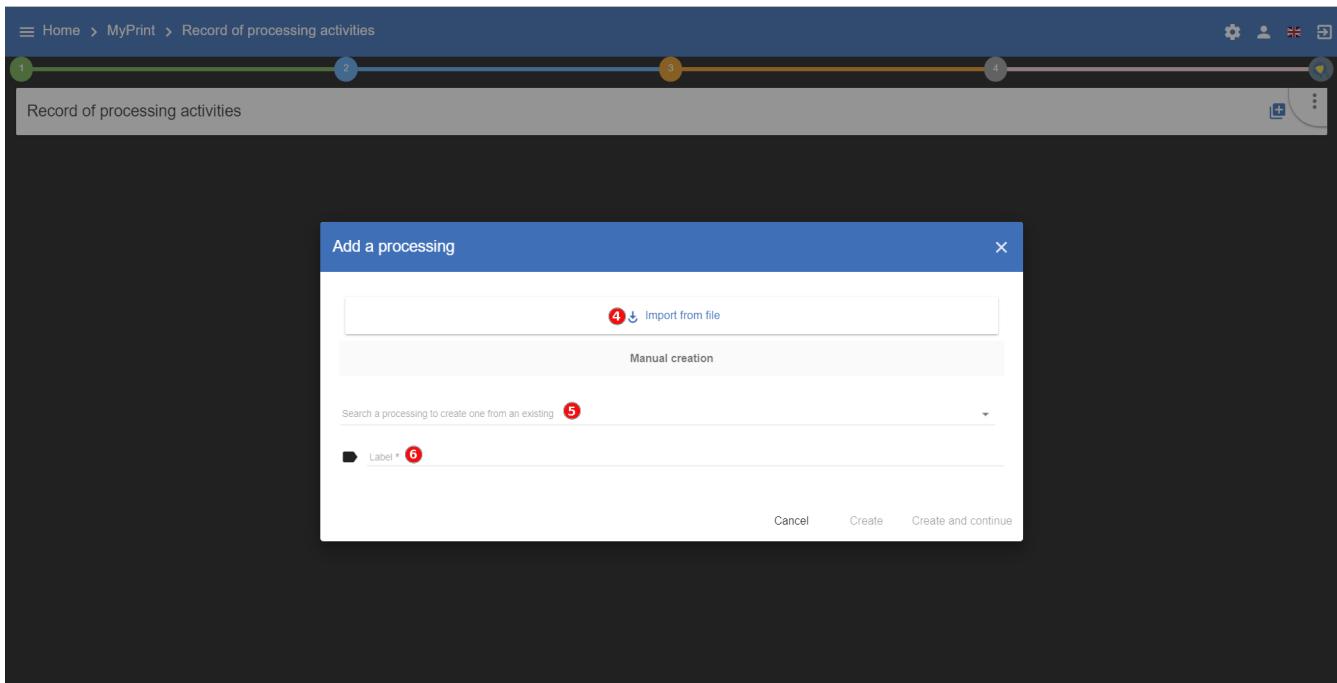
The main goal of this functionality is to help companies to have a list of their processing activities to help to be compliant with GDPR

3. Create the first processing activity



To create a new processing activities you can:

4. **Import** from a JSON file previously exported from MONARC
5. or **Create** it from an existing one
6. if you create one without importing, you have to set a label



The first processing activity is now created. According to the GDPR you can now:

Record of processing activities

Processing activity 1

Description **1**

Actors

Categories of data subjects and personal data **6**

Recipients

International transfers

Processors

2 3 4 5

1. Fill six categories (Description, Actors, Categories of data subjects and personal data, Recipients, International transfers, Processors)

You can also :

2. **Download** informations of all the processesing activities.
3. **Create** a new processing activity.
4. **Download** informations of the selected processesing activity.
5. **Delete** the selected processing activity.
6. Show or hide a category.

9.1. Description

In this section you have the general information about the selected processing activity:

The screenshot shows a 'Record of processing activities' page. At the top, a navigation bar includes 'Home > MyPrint > Record of processing activities'. Below the navigation is a horizontal progress bar with four colored segments: green (1), blue (2), orange (3), and grey (4). The main content area is titled 'Record of processing activities' and contains a sub-section 'My processing activity'. A table titled 'Description' contains the following data:

Name	My processing activity 1
Creation date	2019-08-26 2
Update date	2019-08-26 3
Purpose(s)	Le but est de gérer les utilisateurs de MyPrint 4
Security measures	Technical security measures - HTTPS - Backup Organisational Security measure: - Information Security Policy 5

Below the table, there are sections for 'Actors', 'Categories of data subjects and personal data', 'Recipients', 'International transfers', and 'Processors', each with a collapse/expand arrow.

1. **Edit** the name of the selected processing activity.
2. See the date of creation (automatically filled by MONARC).
3. See the date of last update (automatically filled by MONARC).
4. **Fill** the purpose of the processing activity.
5. **Describe** the main security measures.



To edit a field, you just have to click in the corresponding area to enable the edition and click outside to save your work.

9.2. Actors

In this section you have the actors about the selected processing activity:

The screenshot shows the same 'Record of processing activities' page. The 'Actors' section is expanded, showing the following table:

Actor	Name	Contact
Controller	MyCompany	1234 boulevard of the L-000 Luxembourg info@mycompany
Data protection officer	My DPO	mydpo@mycompany 3
Representative	I 1	
Joint controllers	My DPO 2 MyCompany	

Below the table, there are sections for 'Categories of data subjects and personal data', 'Recipients', 'International transfers', and 'Processors', each with a collapse/expand arrow.

1. Just click inside to edit and outside to save.
2. Before creating an actor, you can choose one from the existing ones.
3. Delete the corresponding fields of the array.
4. You can **create** several joint controller for one processing activities.

9.3. Categories of data subjects and personal data

In this section you have the actors about the selected processing activity:

Categories of data subject	Categories of personal data	Description	Duration of data retention	Description of retention period
MyPrint users 2	3 name, firstname, email address	Those information are necessary to access the service.	2 month(s) 4	The data is stored 2 months after the request to close the space. 5

1. **Add** several type of data subjects.
2. **Categories of data subjects**, **Description** and **Description of retention period** are standard editable field.
3. Just type the **category of personal data** and press enter to save it.
4. Set the number for the retention and choose the duration in the drop-down list.
5. **Delete** the corresponding type of data subjects.

9.4. Recipients

In this section you have the recipients about the selected processing activity:

Record of processing activities

My processing activity

Description

Actors

Categories of data subjects and personal data

Recipients **1**

Recipient	Recipient type	Description
MyCompany 2	Internal 3	The data are processed internally. 4

International transfers

Processors

1. Add several type of data subjects.
2. Use a **recipient** from the drop-down list or create a new one.
3. Set the **recipient type** from the drop-down list.
4. **Description** is a standard editable field.
5. **Delete** the corresponding recipient.

9.5. International transfers

In this section you can add an international transfer for the selected processing activity:

Record of processing activities

My processing activity

Description

Actors

Categories of data subjects and personal data

Recipients

International transfers **1**

Organisation	Description	Country	Documents
2			

Processors

1. Add one more international transfer.
2. **Organisation**, **description**, **country** and **documents** are standard editable field.

3. **Delete** the corresponding international transfer.

9.6. Processors

In this section you can manage the processors for the selected processing activity:

Record of processing activities

My processing activity

Description

Actors

Categories of data subjects and personal data

Recipients

International transfers

Processors 1

My processor

Name	2	My processor
Contact		info@myprocessor 1234 boulevard of the L-000 Luxembourg
Activity(s)		Server management
Security measures		Backup

Actors

Actor	Name	Contact
Representative	My DPO 3	mydpo@mycompany 4
Data protection officer		

1. **Add** one more processor and feel free to select an existing one or create a new one.
2. **Name**, **Contact**, **Activity** and **security measures** are standard editable field.
3. Use an **actor** from the drop-down list or create a new one.
4. **Delete** the corresponding actor.
5. **Detach** the processor from the selected processing activity.

Chapter 10. Interviews

The interview table allows during a risk analysis to list in the final report, the various interviews that were necessary to collect the information. Information such as dates, interviewees can be entered for a comprehensive report.

The menu is always accessible from the main view of MONARC:

1. Calling the right contextual menu

The screenshot shows the MONARC interface with the following elements:

- Header:** Home > My Analysis
- Left sidebar:**
 - Risk analysis (selected)
 - Assets library
 - My Analysis
- Central content:**
 - My Analysis (Risk Analysis)
 - Information risks (selected)
 - Operational risks
 - 137 information risks
 - Risk threshold (on max CIA): 5 (Green)
 - Keywords
 - Kind of treatment
 - Sort direction: MAX risk, Descending
- Table:** A detailed table of 137 information risks, showing columns for Asset, Impact (C, I, A), Threat (Label, Prob.), Vulnerability (Label, Existing controls, Qualif.), Current risk (C, I, A), Treatment, and Residual risk.

2. Calling the Management view of Interviews

The screenshot shows the MONARC interface with the following elements:

- Header:** Home > My Analysis
- Left sidebar:**
 - Risk analysis (selected)
 - Assets library
 - My Analysis
- Central content:**
 - My Analysis (Risk Analysis)
 - Information risks (selected)
 - Operational risks
 - 137 information risks
 - Risk threshold (on max CIA): 5 (Green)
 - Keywords
 - Kind of treatment
- Table:** A detailed table of 137 information risks, showing columns for Asset, Impact (C, I, A), Threat (Label, Prob.), Vulnerability (Label, Existing controls, Qualif.), Current risk (C, I, A), Treatment, and Residual risk.
- Right sidebar (contextual menu):**
 - Risk analysis
 - Dashboard
 - Evaluation scales
 - Knowledge base
 - Interviews table (highlighted with a red box and a red '2' notification)**
 - Statement of applicability
 - Snapshots

137 information risks

Asset	Impact		Threat		Vulnerability		Qualif.	Current risk			Treatment	Residual risk		
	C	I						C	I	A				
Administrator workstations	1	3					5	15	45	60	Not treated	60		
User workstations	1	3					5	15	45	60	Not treated	60		
Backup management	1	3					5	10		40	Reduction	8		
IT admin	1	3					5			40	Reduction	8		
IT organization	1	3	4	documents or equipment	2	regularly				5	10	40	Reduction	32
rotary operators	1	3	4	Breach of personnel availability	2	No substitutes for strategic personnel				5		40	Reduction	8
Building	1	3	4	Theft or destruction of media, documents or equipment	3	The principle of least privilege is not applied				3	9	36	Reduction	0
Datacenters	1	3	4	Theft or destruction of media, documents or equipment	2	Authorisation management is flawed				4	8	32	Not treated	32
IT organization	1	3	4	Forging of rights	2	Logical access authorisations are not checked regularly				4	8	24	Reduction	24
Server management	1	3	4	Denial of actions	3	No storage of activity tracks				3		27	Not treated	27
IT organization	1	3	4	abuse of rights	3	No coordination between the departments concerned				2	6	18	Not	24

1. Click to encode a new interview

137 information risks

Asset	Impact		Threat		Vulnerability		Qualif.	Current risk			Treatment	Residual risk		
	C	I						C	I	A				
Administrator workstations	1	3					5	15	45	60	Not treated	60		
User workstations	1	3					5	15	45	60	Not treated	60		
Backup management	1	3					5	10		40	Reduction	8		
IT admin	1	3					5			40	Reduction	8		
IT organization	1	3	4	documents or equipment	2	regularly				5	10	40	Reduction	32
rotary operators	1	3	4	Breach of personnel availability	2	No substitutes for strategic personnel				5		40	Reduction	8
Building	1	3	4	Theft or destruction of media, documents or equipment	3	The principle of least privilege is not applied				3	9	36	Reduction	0
Datacenters	1	3	4	Theft or destruction of media, documents or equipment	2	Authorisation management is flawed				4	8	32	Not treated	32
IT organization	1	3	4	Forging of rights	2	Logical access authorisations are not checked regularly				4	8	24	Reduction	24
Server management	1	3	4	Denial of actions	3	No storage of activity tracks				3		27	Not treated	27
IT organization	1	3	4	abuse of rights	3	No coordination between the departments concerned				2	6	18	Not	24

Some information has to be entered

1. Date
2. Names of people or name of the department
3. The subjects covered.
4. Once all the fields are filled, create an interview

Chapter 11. Snapshots

Snapshots allow you to create a full backup for analysis.



It is a function to use regularly during the course, before and after great changes, because it is the only way to go back to the changes.

The menu is always accessible from the main view of MONARC:

1. Calling the right contextual menu

Asset	Impact			Threat		Label	Prob.	Vulnerability			Existing controls	Qualif.	Current risk			Treatment	Residual risk
	C	I	A	Label	Prob.			C	I	A							
Administrator workstations	1	3	4	Forging of rights	3	Authorisation management is flawed		Access control does not exist	5	15	45	60	Not treated	60			
User workstations	1	3	4	Forging of rights	3	Authorisation management is flawed		Access control does not exist	5	15	45	60	Not treated	60			
Backup management	1	3	4	Theft or destruction of media, documents or equipment	2	Backup media are not stored in a suitable place		Backups are not encrypted. The tapes are stored in an unlocked cabinet because several departments have access to them.	5	10		40	Reduction	8			
IT admin	1	3	4	Breach of personnel availability	2	No substitutes for strategic personnel		The rotary operator has unique skills.	5			40	Reduction	8			
IT organization	1	3	4	Theft or destruction of media, documents or equipment	2	Physical access authorisations are not checked regularly		No periodic inspection.	5	10		40	Reduction	32			
rotary operators	1	3	4	Breach of personnel availability	2	No substitutes for strategic personnel		The rotary operator has unique skills.	5			40	Reduction	8			
Building	1	3	4	Theft or destruction of media, documents or equipment	3	The principle of least privilege is not applied		No access control	3	9		36	Reduction	0			
Datacenters	1	3	4	Theft or destruction of media, documents or equipment	2	Authorisation management is flawed		Access by badge. No authorisation system	4	8		32	Not treated	32			
IT organization	1	3	4	Forging of rights	2	Logical access authorisations are not checked regularly		The Active Directory law review is done, but is not optimal.	4	8	24	32	Reduction	24			
Server management	1	3	4	Denial of actions	3	No storage of activity tracks		No centralization of logs. All policies are by default.	3		27		Not treated	27			
IT organization	1	3	4	Abuse of rights	3	No coordination between the departments concerned		The coordination procedure between HR and IT is working well.	2	6	18	24	Not	24			

2. Calling the Management view of Snapshot

Asset	Impact			Threat		Label	Prob.	Vulnerability			Existing controls	Qualif.	Current risk			Treatment	Residual risk
	C	I	A	Label	Prob.			C	I	A							
Administrator workstations	1	3	4	Forging of rights	3	Authorisation management is flawed		Access control does not exist	5	15	45	60	Not treated	60			
User workstations	1	3	4	Forging of rights	3	Authorisation management is flawed		Access control does not exist	5	15	45	60	Not treated	60			
Backup management	1	3	4	Theft or destruction of media, documents or equipment	2	Backup media are not stored in a suitable place		Backups are not encrypted. The tapes are stored in an unlocked cabinet because several departments have access to them.	5	10		40	Reduction	8			
IT admin	1	3	4	Breach of personnel availability	2	No substitutes for strategic personnel		The rotary operator has unique skills.	5			40	Reduction	8			
IT organization	1	3	4	Theft or destruction of media, documents or equipment	2	Physical access authorisations are not checked regularly		No periodic inspection.	5	10		40	Reduction	32			
rotary operators	1	3	4	Breach of personnel availability	2	No substitutes for strategic personnel		The rotary operator has unique skills.	5			40	Reduction	8			
Building	1	3	4	Theft or destruction of media, documents or equipment	3	The principle of least privilege is not applied		No access control	3	9		36	Reduction	0			
Datacenters	1	3	4	Theft or destruction of media, documents or equipment	2	Authorisation management is flawed		Access by badge. No authorisation system	4	8		32	Not treated	32			
IT organization	1	3	4	Forging of rights	2	Logical access authorisations are not checked regularly		The Active Directory law review is done, but is not optimal.	4	8	24	32	Reduction	24			
Server management	1	3	4	Denial of actions	3	No storage of activity tracks		No centralization of logs. All policies are by default.	3		27		Not treated	27			
IT organization	1	3	4	Abuse of rights	3	No coordination between the departments concerned		The coordination procedure between HR and IT is working well.	2	6	18	24	Not	24			

The following pop-up appears:

1. **Create** a Snapshot: Possibility to enter a comment allowing to contextualize the snapshot. There are some possible actions:
2. **View** a Snapshot
3. **Restore** Snapshot. Caution this option will overwrite the current analysis.
4. **Delete** a Snapshot.

When viewing a snapshot, no changes are possible, and the blue bar as shown above is displayed:

1. Click on the button to return to normal operations.

Chapter 12. Managing the Implementation Treatment Plan

By clicking on the number 4, the following menu will appear:

The screenshot shows the 'Implementation and monitoring' section of the application. At the top, there are four colored circles (green, blue, orange, grey) corresponding to the navigation steps. The 'Implementation and monitoring' section is highlighted with a black box. Below it, a table displays 84 information risks. The table has columns for Asset, Impact (C, I, A), Threat (Label, Prob.), Vulnerability (Label, Existing controls, Qualif.), and Current risk (C, I, A). The 'Current risk' column uses a color-coded system where green indicates 'Reduction' and orange indicates 'Not treated'. The 'Residual risk' column also uses a color-coded system where green indicates 'Reduction' and orange indicates 'Not treated'.

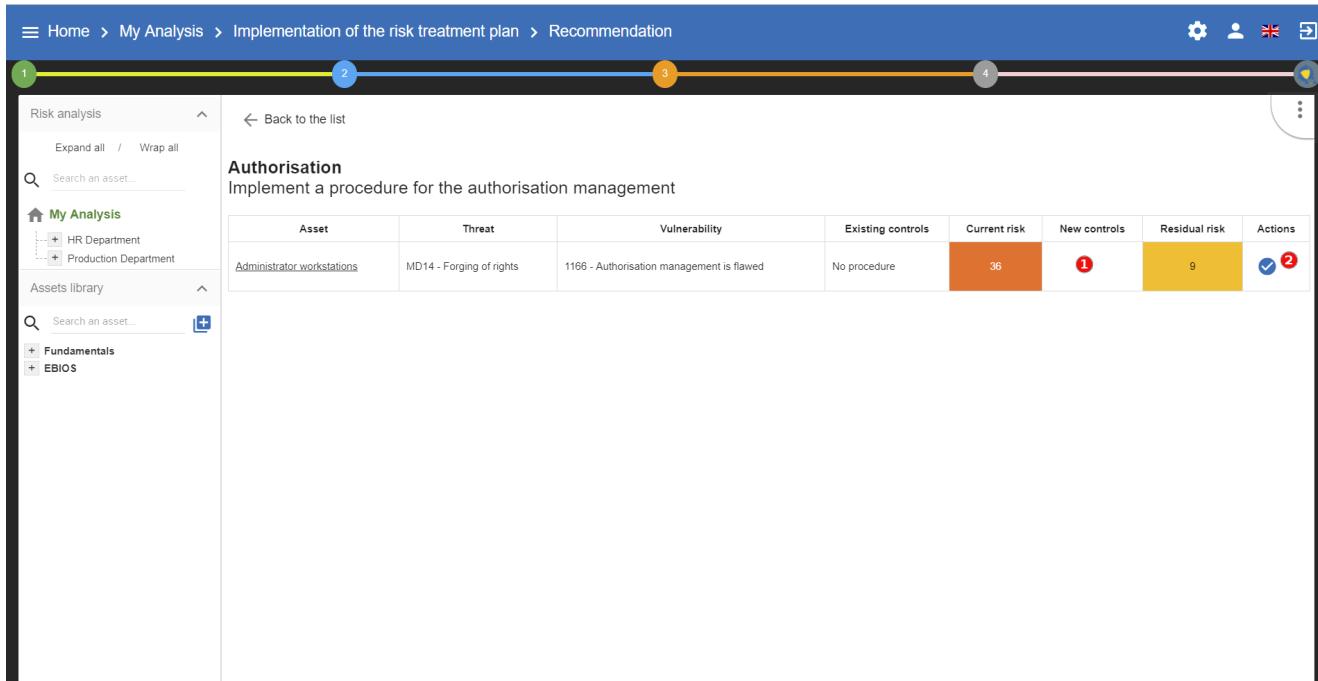
This view goes beyond the ISO/IEC 27005, as it enables the user to manage the follow-up to the implementation of the measures.

The screenshot shows the 'Implementation of the risk treatment plan' section. It features a table with columns for Recommendation, Imp., Comment, Manager, Deadline, Status, and Actions. The table lists several recommendations, each with a status of 'Coming' and an 'Actions' column containing a blue edit icon.

1. This is a **recommendation** established before.
2. You can put a **comment** for the implementation of the recommendation.
3. For each recommendation you can set a **manager**.
4. For each recommendation you can set a **deadline**.

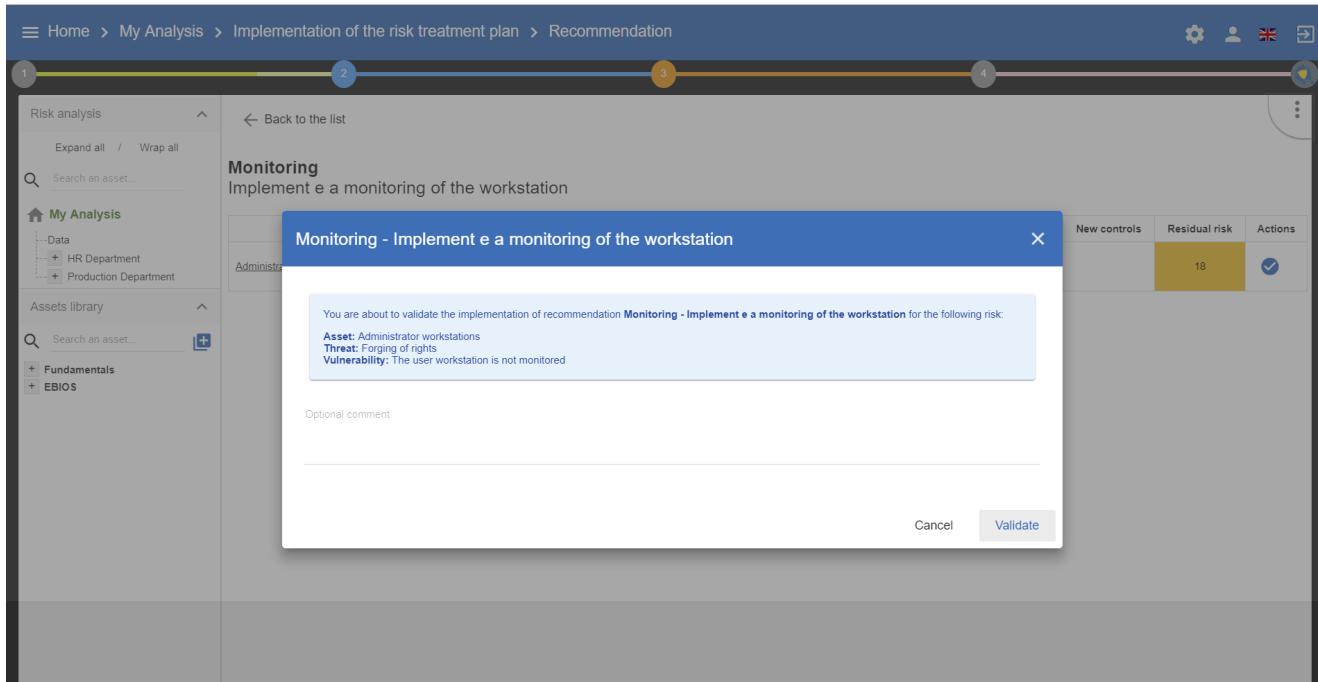
5. Status of Implementation.

6. Click on the icon  to implement the recommendation and switch on the following view.



1. Set the **new control**, now in place. It will replace the old one in the risk analysis and replace the old current risk by the residual risk.

2. Launches the pop-up validation of the update below by clicking on the icon 



Follow the same procedure for each recommendation. After that go to your risk analysis and make a second iteration.

After validation, the risk concerned becomes the current risk; the recommendation is deleted from the risk concerned.

All validations are stored in history and can be consulted:

1. Click to view past recommendations

Chapter 13. Global Dashboard

1. Overview

Global dashboard manipulates with the data stored on the Stats Service side. The statistics of all the existed analyzes of the instance is collected on daily base and send to the Stats Service, where it is saved in the database. If an analyse is removed, its related statistics data is also removed from the Stats Service database. You can find details of the Stats Service installation in our [Technical Guide](#),

Stats Service can send anonymised statistics data (no client information to identify a client or instance) to a central data storage **Global statistics**. The services architecture is available [here](#). By default the statistics is shared and aims to help the community of Monarc in the future **weather forecast**. The statistics sharing can be disabled (see point 5 - Global Dashboard statistics sharing option).

2. Global dashboard access

The Global Dashboard is accessible from the Home page of Monarc.

There are 2 types of the access, depends on the account access:

- If the account has "User" or "Administrator" permissions, then it will be possible to see statistics only for analyzes to which user has an access.
- If the account has "Global Dashboard" permission, then user is able to see stats for all the analyzes of the instance. There is also a possibility to set analyzes visibility (number 2 in the yellow box).

3. Global Dashboard access account setting

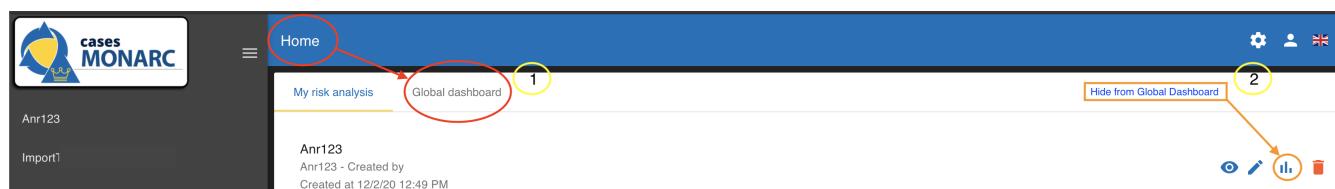
Edit user

First name *	Antoine	Last name *	Martin
E-mail *	antoine.martin@myorg.com		
<input checked="" type="checkbox"/> Administrator			
<input checked="" type="checkbox"/> User			
<input checked="" type="checkbox"/> Global dashboard			

Risk analysis label Permissions

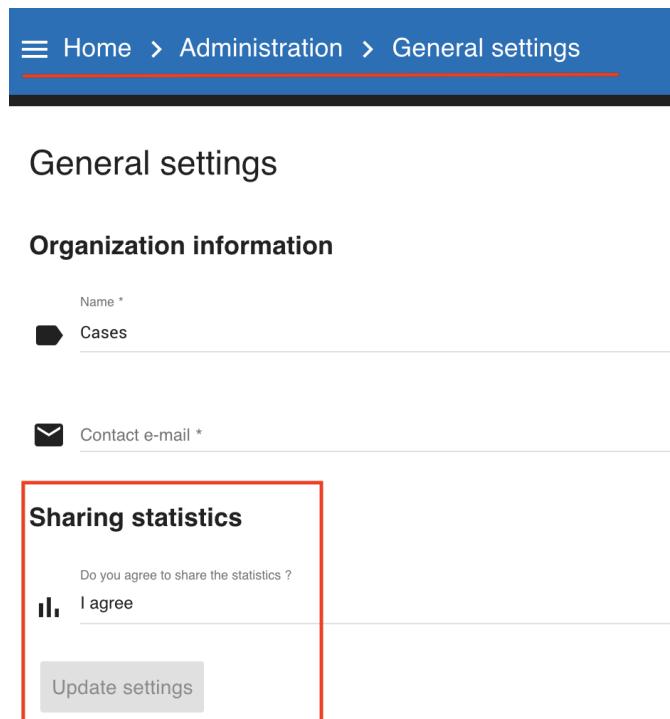
4. Home page access

The Global Dashboard tab is visible on the Home page only when there is at least 1 analysis exists and the Stats Service is setup (number 1 in the yellow box).



5. Global Dashboard statistics sharing option

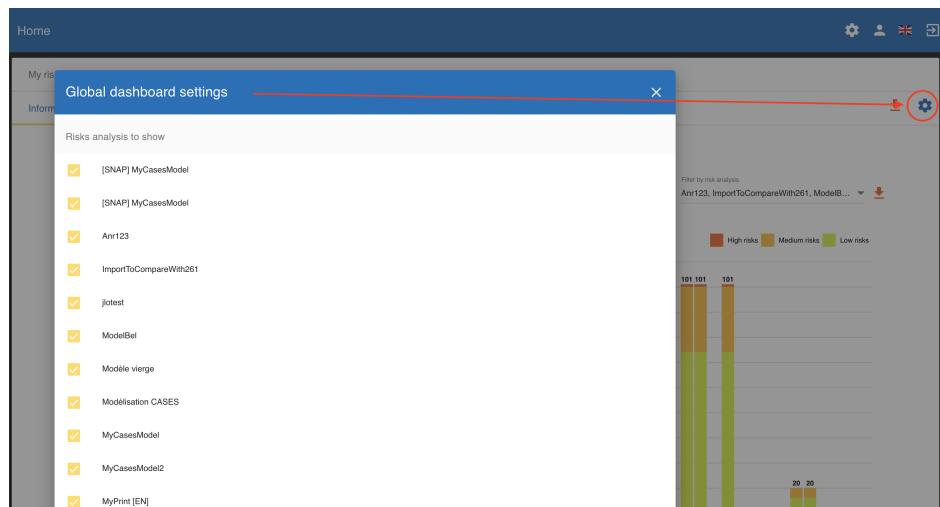
As you can see on the screenshot below, it is possible to disable the statistics sharing for your instance.



The screenshot shows the 'General settings' page with a red box highlighting the 'Sharing statistics' section. This section contains a question 'Do you agree to share the statistics ?' with a 'I agree' checkbox and an 'Update settings' button.

5. Global Dashboard analyzes visibility setting

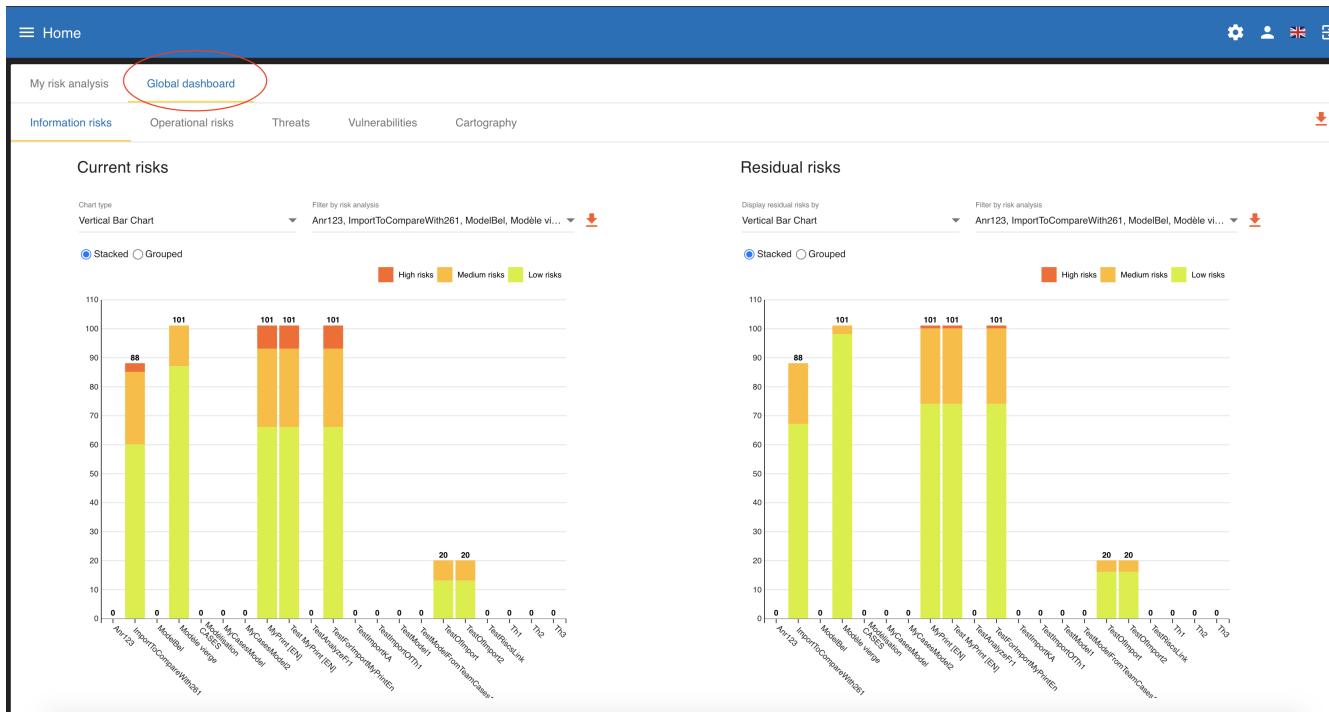
Accessible only for accounts with "Global Dashboard" permission and can be found in the right top corner on any of the Global Dashboard charts' tab. Only selected analyzes will be presented on the charts.



6. Global Dashboard statistics overview

There are some examples of the charts, generated based on comparison of different analyzes and slices of the information.

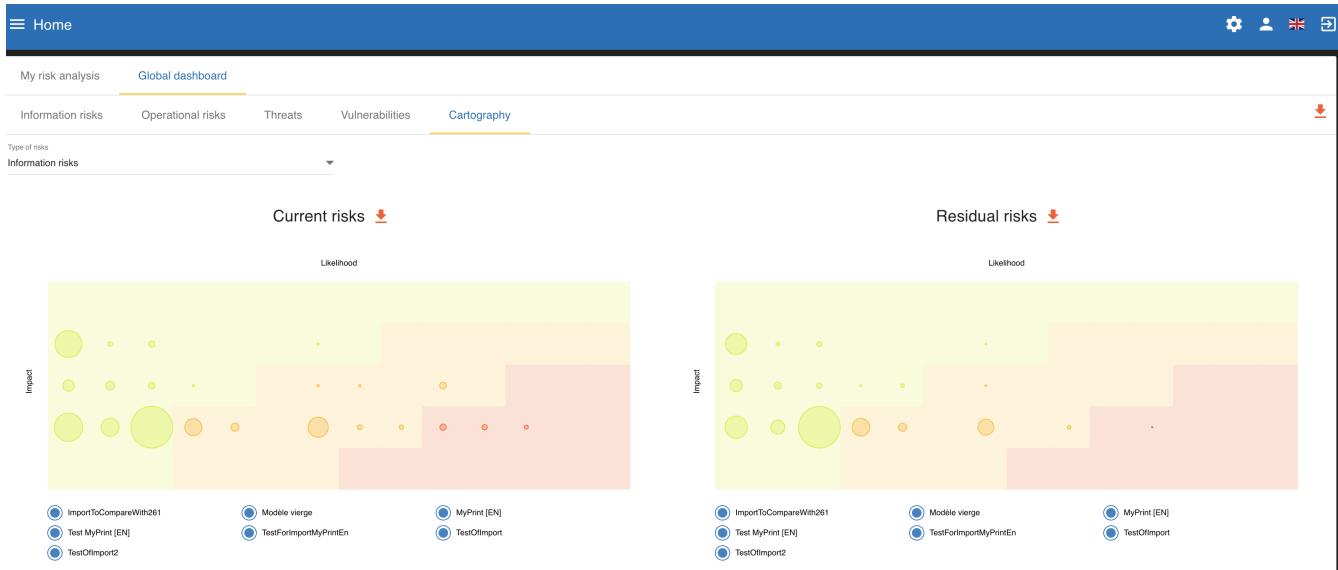
- **Informational risks.** The stats represents comparison of the informational risks of all the available analyzes.



- **Operational risks.** The stats represents comparison of the operational risks of all the available analyzes.



- **Cartography.** Matrix with the average analyzes levels based on impact and likelihood.



There are also **Threats** and **Vulnerabilities** comparison charts based on specific threats and vulnerabilities values evolution.