



OPTIMISED RISK ANALYSIS

[www.monarc.lu](http://www.monarc.lu)

# User Guide

CASES Luxembourg

Version 2018-04-27

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# 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.

## 2. Home Page

### 2.1. Dashboard

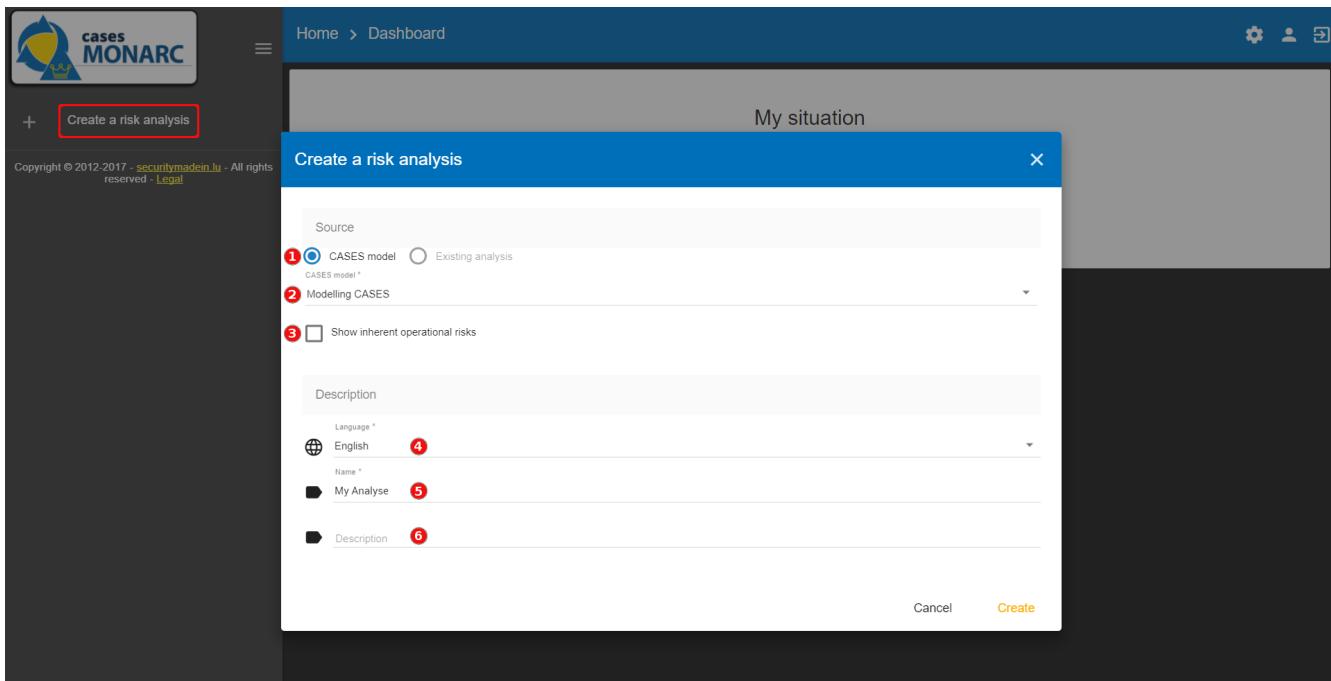
Immediately after user authentication, the following screen appears. It may, however, be slightly different, if there is not yet an analysis created or if there are already several and according to the state of progress of the analysis.

The screenshot shows the MONARC Home Page Dashboard. On the left, there is a sidebar with the MONARC logo, navigation links for 'My Analysis' (with a red notification dot) and 'Create a risk analysis' (with a red notification dot), and copyright information. The main content area has a blue header bar with 'Home > Dashboard' and a red notification dot. Below the header, the page title is 'My situation'. It features two main sections: 'Current risks map' and 'Target risks map'. The 'Current risks map' is a 5x4 grid of colored squares (yellow, green, orange, red) representing risk levels across 20 categories. A red dot labeled '1' is positioned next to the grid. Below the grid are three horizontal bars: '0 low risks' (green), '0 medium risks' (orange), and '1 high risks' (red). The 'Target risks map' section displays the message 'No target risks specified in your risk analysis yet.' In the top right corner of the main content area, there are icons for settings, account management, and logout.

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 [Manage users](#), [Account](#) or [Logout](#) (see [Client Environment Administration](#)).

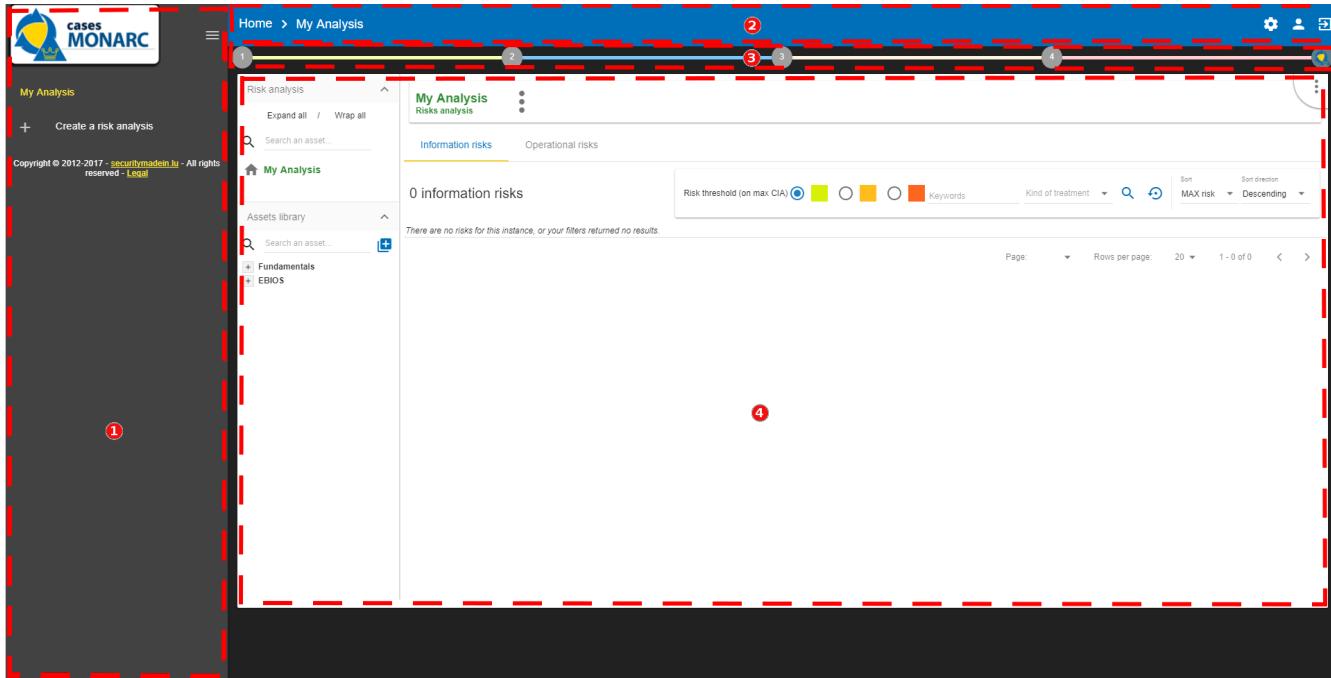
### 2.2. Creating a Risk Analysis

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:
  - a. **CASES Model:** Proposes available models in the knowledge bases. This option has at least two choices, **Modelling CASES**, 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.
  - b. **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. **Show inherent operational risks.** (See [Operational Risks](#))
4. Select the preferred language for this new risk analysis. MONARC only present the languages actually available in the selected source.
5. Give a name to risk analysis.
6. 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 dashboard 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.

# 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.

By risk analysis, there are 3 types of rights:

- No access.
- Read only.
- Read and write.



1. Administration (Enable only for administrator users)
2. User account
3. Logout

## 3.1. Administration of users

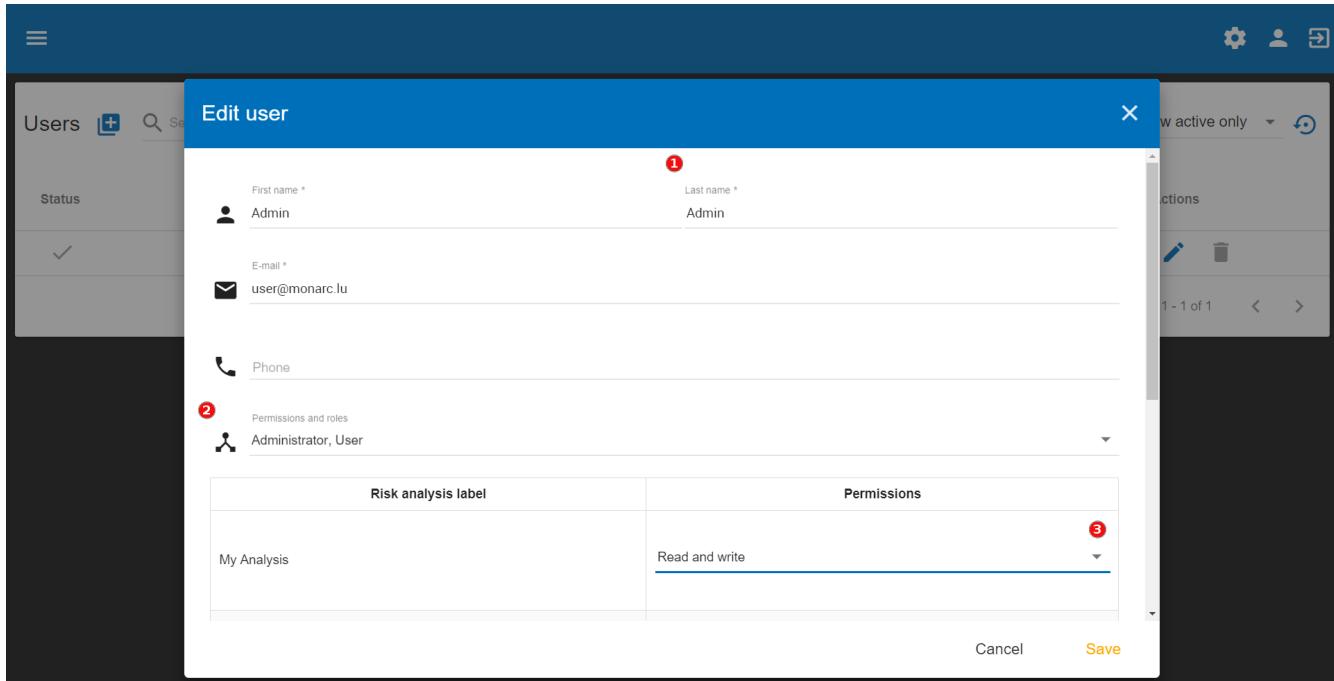
### 3.1.1. List of users

Status	First name	Last name	E-mail	Phone	Actions
✓	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.

### 3.1.2. User rights and information

After clicking on the icon , the following screen appears:



The screenshot shows the 'Edit user' dialog box. At the top, there are fields for First name \* (Admin) and Last name \* (Admin). Below that is an E-mail field (user@monarc.lu). There is also a Phone field which is empty. The second section, labeled with a red circled '2', is titled 'Permissions and roles' and lists 'Administrator, User'. The third section, labeled with a red circled '3', is a table titled 'Risk analysis label' with one row 'My Analysis' and a 'Permissions' column containing 'Read and write'. At the bottom right are 'Cancel' and 'Save' buttons.

1. General information.
2. Selection of profiles **Administrator** or/and **User**.
3. Management of user rights by analysis.

## 3.2. User account

This view allows you to:

The screenshot shows the 'My account' page of the MONARC User Guide. It is a form-based interface with four main sections, each marked with a red circle containing a number:

- 1 Personal information:** Contains fields for First name (Admin), Last name (Admin), and E-mail (user@monarc.lu). A 'Save changes' button is present.
- 2 Change password:** Contains fields for Current password, New password, and Confirm new password. An 'Update password' button is present.
- 3 Interface language:** Shows the current language as English, with a dropdown menu for selection.
- 4 Organization information:** Contains fields for Name\* (MyCompany) and Contact e-mail\* (info@mycompany.lu). An 'Update organization' button is present.

1. Manage general user information.
2. Change the password. Password complexity is required.
3. Change the language of the consultation.



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

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

# 4. Analysis Management

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

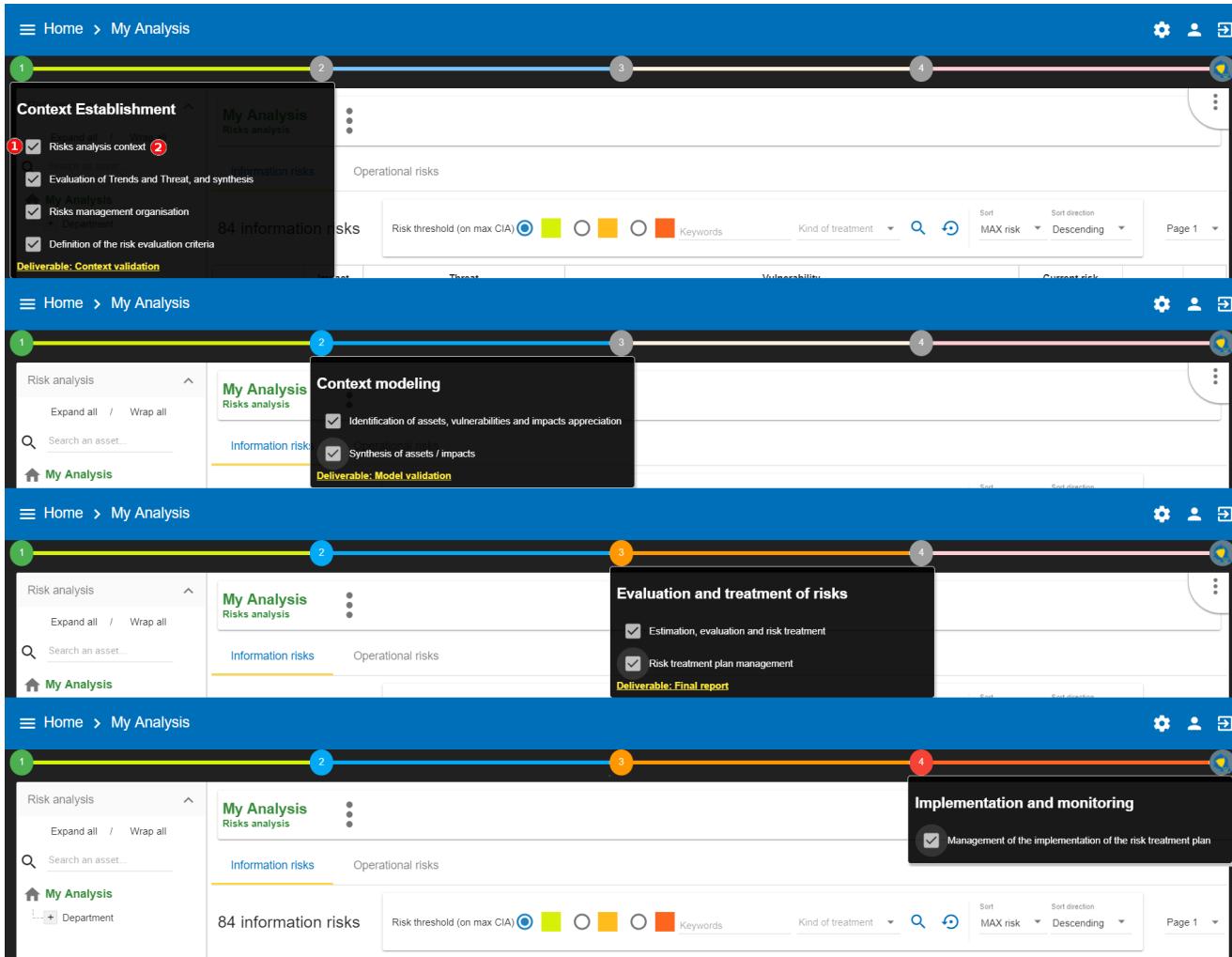
The screenshot shows the MONARC Risk Analysis interface. At the top, there's a blue header bar with 'Home > My Analysis' and various icons. Below it is a toolbar with numbered callouts: 1 points to the top navigation bar; 2 points to the 'Assets library' sidebar; 3 points to the 'Risk analysis' sidebar; and 4 points to the main risk matrix table. The main area displays 'My Analysis Risks analysis' with sections for 'Information risks' and 'Operational risks'. It shows '84 information risks' with a table. The table has columns for Asset, Impact (C I A), Threat, Vulnerability, Existing controls, Qualif., Current risk (C I A), Treatment, and Target risk. The first few rows of the table are:

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	-
Administrator workstations	-	-	-	Abuse of rights	-	No procedures for system install and configuration	-	-	-	-	-	Not treated	-
Backup management	-	-	-	Equipment malfunction or failure	-	Backups are not carried out in accordance with the state of the art	-	-	-	-	-	Not treated	-

- 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](#)).
- Asset library area: Asset storage. The *drag-and-drop* function must be used to place these assets in the analysis (see [Library](#)).
- 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](#))
- 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 MONARC software interface. On the left, there is a sidebar titled 'My Analysis' with a search bar and a 'Assets library' section containing a search bar and a 'Create asset...' button. A tree view of asset categories is shown, with 'Fundamentals' expanded to show 'Primary Assets' (marked with a red circle), 'Buildings & Premises' (marked with a red circle), 'Physical Goods', 'Software', 'Equipment', 'Staff', 'Organization', 'Servers', 'Network', 'GDPR', and 'EBIOS'. 'EBIOS' is collapsed. 'Primary Assets' has a red circle with the number 4. 'Archive room' under 'Buildings & Premises' has a red circle with the number 5. On the right, the main area is titled 'Information risks' and shows a table of 84 information risks. The table has columns for Asset, Impact (C, I, A), Threat (Label, Prob.), Vulnerability (Label, Existing controls, Qualif.), Current risk (C, I, A), Treatment, and Target risk. The 'Treatment' column for most rows shows 'Not treated'. The table includes rows for various workstation types and their associated vulnerabilities.

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:
  - a. **Fundamentals**: Contains all default assets offered by CASES.
  - b. **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**.

The screenshot shows the MONARC user interface. At the top, there's a blue header bar with the text "Home > My Analysis > Library". Below the header is a navigation sidebar on the left containing sections like "Risk analysis", "My Analysis", "Assets library", and a detailed "Fundamentals" section. The main content area displays a hierarchical asset structure. A "Building" asset is highlighted with a red dot (2). To its right, under "Composition", it says "In the library, this asset is a direct component of : Back Office" (3). Below that, under "Asset used in the risks analysis", it shows a breadcrumb path "My Analysis > Building > Back Office > Department" (4) with a red dot. At the bottom, there's a table titled "5 information risks" (5) with two rows of data.

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.

The screenshot shows the MONARC user interface. On the left, there's a sidebar with navigation links like 'Home', 'My Analysis', and 'Assets library'. The main area is titled 'Library' and shows a list of assets. A context menu is open over an asset named 'Building', listing four options: 'Edit asset', 'Duplicate asset', 'Export asset', and 'Delete asset'. The 'Delete asset' option is highlighted with a red circle and the number 4.

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

The screenshot shows the 'Add an asset' dialog box. The form has several sections: 'Labels and descriptions' (Language: English, Name, Label), 'General information' (Scope: Local, Asset type: INFO - Information, Category, Operational risk Tag), and 'Location' (in the end). There are also 'Cancel', 'Create', and 'Create and continue' buttons at the bottom. A sidebar on the left shows a list of assets, and a table on the right shows current risks.

1. To create an asset, it is also possible to import it (see [Importing an asset](#)).
2. **Language**: This option cannot be used, the default language of the analysis is imposed.
3. **Name**: This name must be unique for the analysis.
4. **Label**: This is an additional description, it is displayed in the tooltip when the mouse is positioned without moving on the asset.
5. **Scope**: Two possible choices:
  - a. **Local**: Identified asset risks are to be assessed whenever the asset is present in the analysis.  
A primary asset is generally local in scope.
  - b. **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.

6. **Asset type**: It determines the nature of the asset and therefore the risk model associated with it.
7. **Category**: It is the location of the library where the asset will be stored, or create a new category.
8. **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)

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

#### 4.2.4. Edit an asset

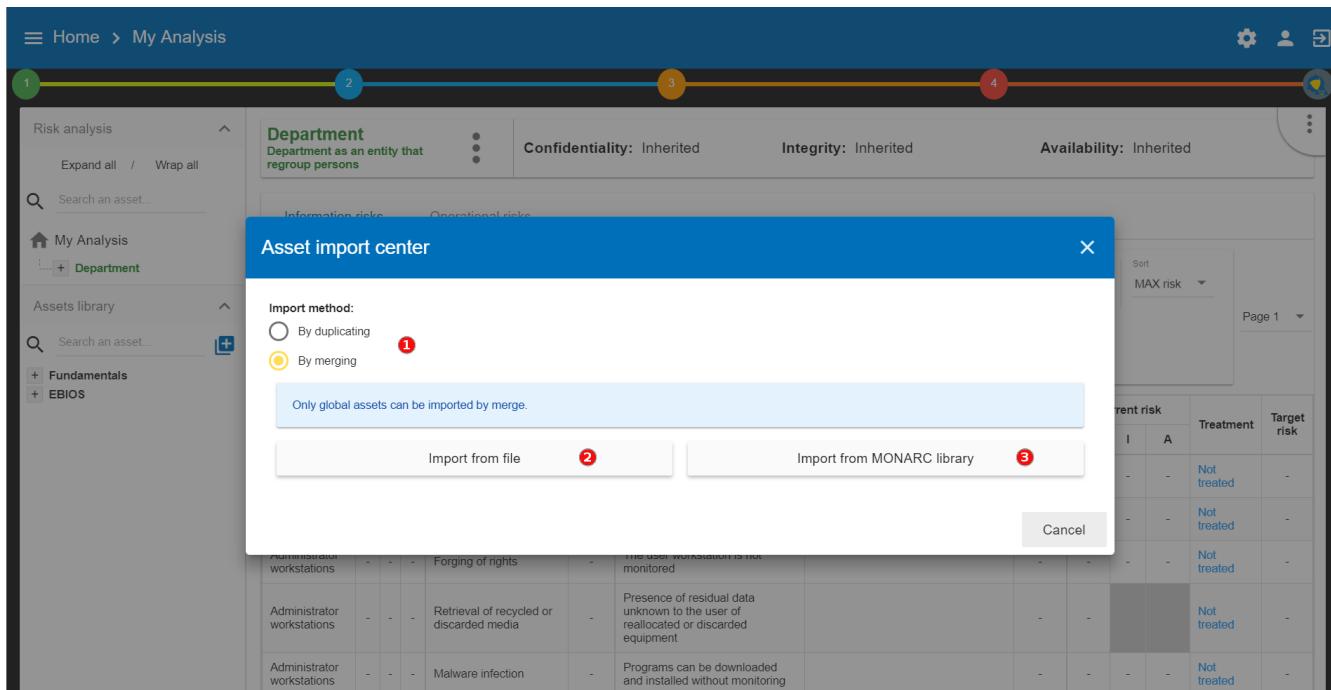
The call is made from the [Context menu of library](#) when an asset is selected in the library.

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:

- **Language**
- **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:
  - a. **By duplicating:** When importing, if an asset of the same name exists, then it will be duplicated and the name will suffix - **Imp #n.**
  - b. **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.

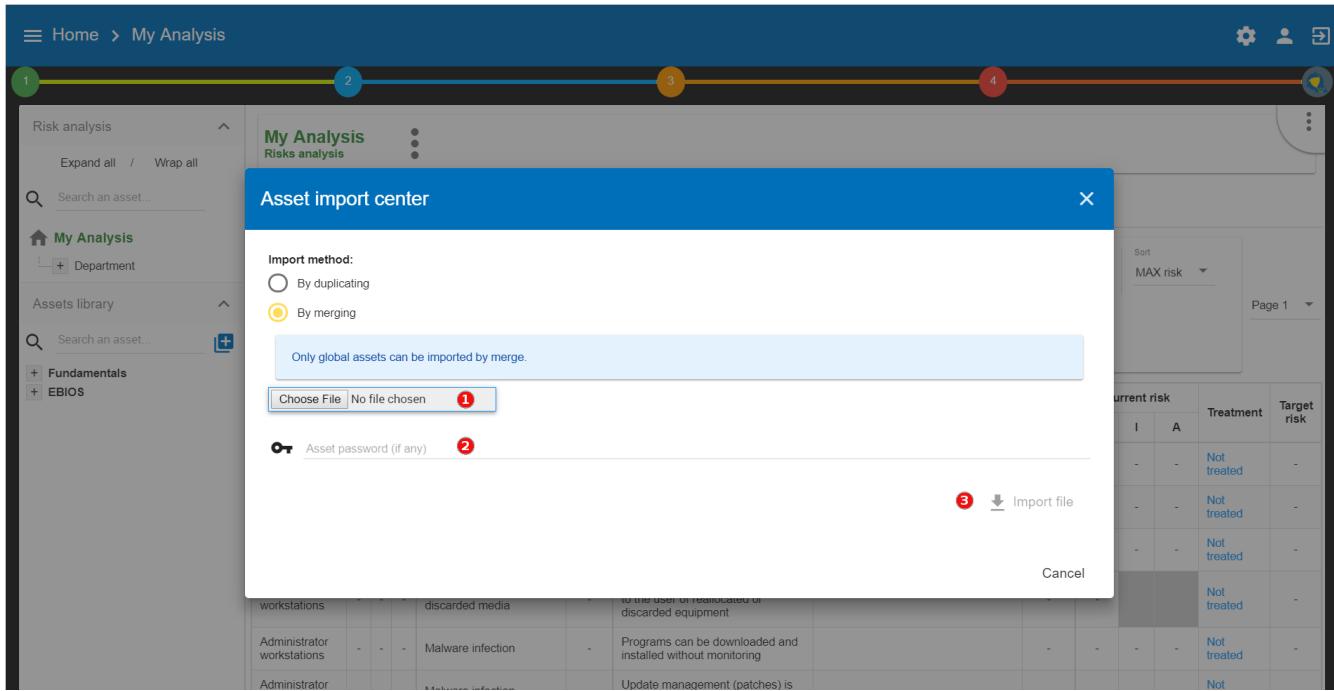
2. **Import from file:** allows to exchange assets from one environment to another (see [Importing an asset from a file](#)).
3. **Import from MONARC library:** This option is not available in the case of a *Stand alone* version of MONARC (see [Import from the MONARC library](#)).



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

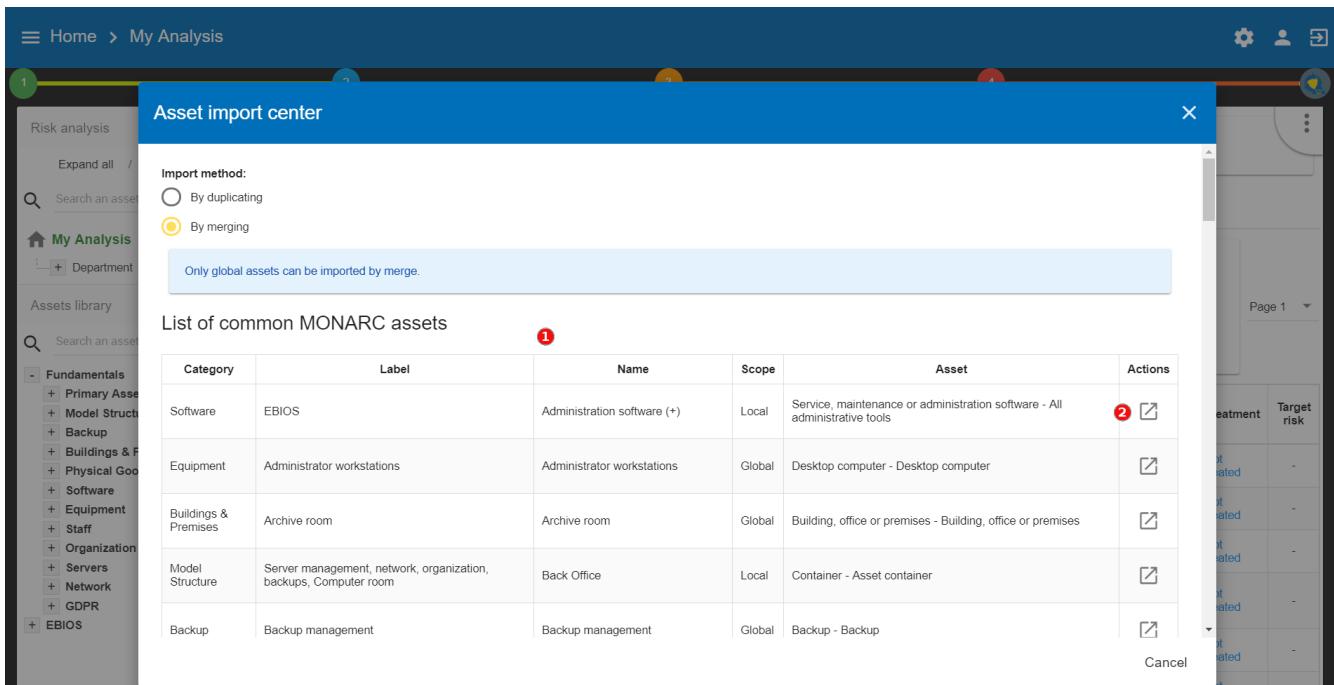
The pop-up appears after clicking on the **Import from file** option in the **Asset Import center**.



- 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**.



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

## 4.2.6. Exporting an asset

The screenshot shows the MONARC interface with a navigation bar at the top. The main area displays a tree view of assets under 'My Analysis'. A context menu is open over an asset named 'Building'. A modal dialog box titled 'Export asset' is displayed, containing two options: 'Encryption' (selected) and 'Without password'. Below the dialog is a table titled '5 information risks' with three rows of data.

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

- Custom password:** Possibility to encrypt the generated file with a symmetric password that will be necessary during the import.
- Without password:** Default password sets by tool.



This option ensures only the file integrity.

## 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 MONARC interface with a navigation bar at the top. The main area displays a tree view of assets under 'My Analysis'. A context menu is open over an asset named 'My Analysis'. A modal dialog box titled 'My Analysis Risks analysis' is displayed, showing tabs for 'Information risks' (selected) and 'Operational risks'. Below the tabs is a table titled '84 information risks' with various filters and sorting options. The table has columns for Asset, Impact, Threat, Vulnerability, Current risk, Treatment, and Target risk.

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						Update management (patches) is						Not	

1. The information risk table based on CIA [1: Confidentiality, Integrity and Availability.] criteria.
2. The operational risk table based on ROLFP [2: Reputation, Operational, Legal, Financial and Personal] (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

Asset	Impact C I A	Threat	Label	Prob.	Vulnerability	Existing controls	Qualif.	Current risk C I A	Treatment	Target risk
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	-
Administrator workstations	- - -	Abuse of rights	-	-	No procedures for system install and configuration	-	-	- - -	Not treated	-
Backup management	- - -	Equipment malfunction or failure	-	-	Backups are not carried out in accordance with the state of the art	-	-	- - -	Not treated	-

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.
7. Selection of the page in the list of results.

① Asset	Impact			③ Prob.	Threat			Vulnerability			⑤ Qualif.	Current risk			Treatment	Residual risk ⑧
	C	I	A		Label		Label	Existing controls	C	I	A	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.

The screenshot shows the 'My Analysis' section of the MONARC interface. On the left, there's a sidebar with 'Risk analysis' and 'Assets library' sections. The main area is titled 'My Analysis Risks analysis' and contains a 'Risk sheet' for an asset named 'Administrator workstations'. The risk sheet includes fields for Current risk, Residual risk, Asset, Threat, Threat probability, Vulnerability, Vulnerability qualification, Existing controls, Recommendations, Kind of treatment, Reduce vulnerability by, and Security referential. A red circle numbered 1 points to a 'Back to the list' button. A red circle numbered 2 points to the 'Risk sheet' header. A red circle numbered 3 points to the 'Threat probability' field. A red circle numbered 4 points to the 'Recommendations' section. A red circle numbered 5 points to the 'Kind of treatment' dropdown. A red circle numbered 6 points to the 'Reduce vulnerability by' dropdown. A red circle numbered 7 points to the 'Security referential' field.

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:
  - a. Reduction / Modification
  - b. Denied
  - c. Accepted
  - d. 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 MONARC user interface. On the left, there's a navigation sidebar with sections for 'Risk analysis', 'My Analysis' (which is expanded to show 'Department' with 'Employees' selected), and 'Assets library'. The main content area is titled 'Employees' and shows 'Confidentiality: 2 (inherited)', 'Integrity: 1 (inherited)', and 'Availability: 4 (inherited)'. Below this, a table lists 6 information risks. The first risk is 'Employees' with a value of 2 in all columns (Impact, Threat, Vulnerability). The last risk is 'Employees' with a value of 4 in all columns. 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. At the bottom, there's a button '+ Create a specific risk' and some pagination controls.

- 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 MONARC user interface with the 'Administrator workstations' asset selected. The context menu is open, displaying four options: 'Edit impacts' (highlighted with a red box), 'Import analysis', 'Export analysis', and 'See asset in the library'. Below the menu, a table lists 84 information risks. The first risk is 'Administrator workstations' with a value of 2 in all columns. The last risk is 'Administrator workstations' with a value of 4 in all columns. 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. At the bottom, there's a button '+ Create a specific risk' and some pagination controls.

- Edit impacts**: Displays the impact and consequence modification view (see [Impacts and consequences](#)).
- 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.

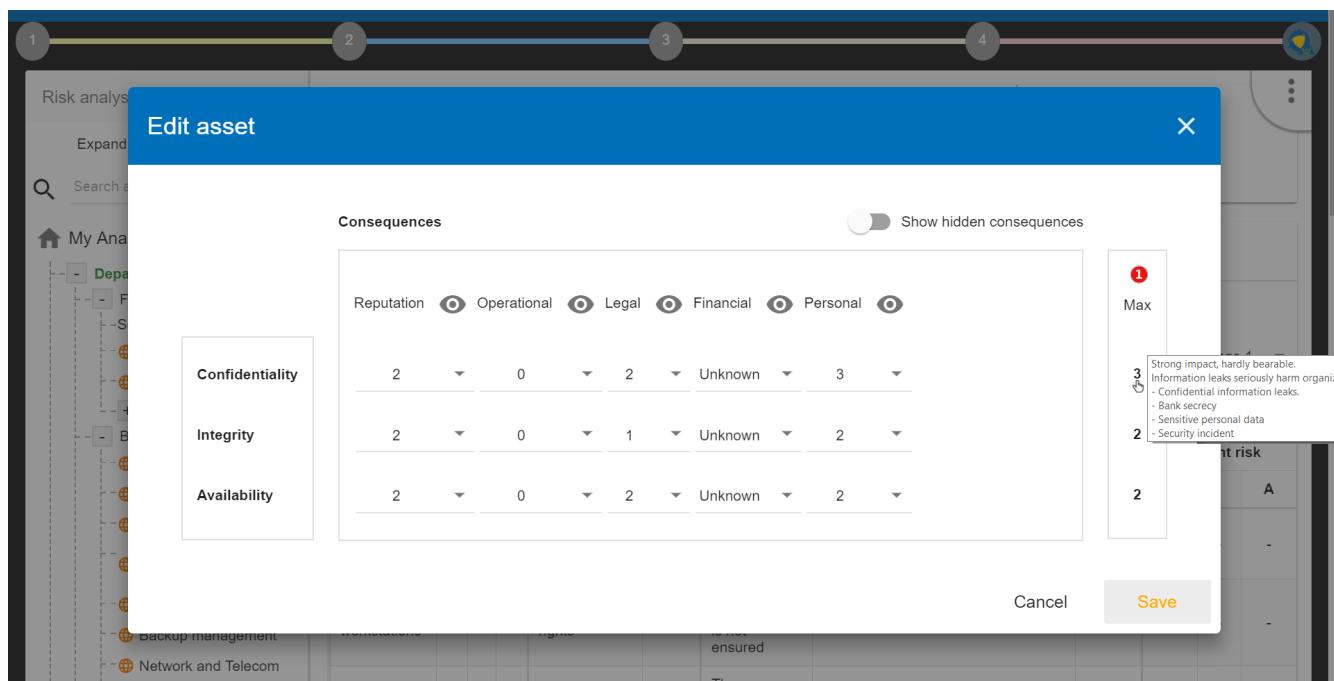


This action may lead to the loss of risk assessments for this asset and its childrens.

### 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

The screenshot shows the 'My Analysis' section of the MONARC interface. On the left, there's a navigation tree under 'Risk analysis' with 'Department' selected (callout 1). The main area displays 'Operational risks' (callout 2). A table lists '2 operational risks' (callout 3) for the 'Department' asset (callout 4). The table has columns for Asset, Risk description, Inherent risk (Prob., Impact R, O, L, F, P, Current risk), Net risk (Prob., Impact R, O, L, F, P, Current risk), Existing controls, Treatment (status: Not treated), and Target risk. Callouts 5 and 6 point to the search/filter and page selection areas respectively.

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.
6. Selection of the page in the list of results.



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](#).

Asset	Risk description	Inherent risk					Current risk	Net risk					Existing controls	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	<a href="#">Not treated</a>	-
Department	Changes in treatment or further treatment, without prior notification to the data subject	-	-	-	-	-	-	-	-	-	-	-	-	<a href="#">Not treated</a>	-	

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 [2: Reputation, Operational, Legal, Financial and Personal] 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 the MONARC Risk sheet interface. At the top, there's a navigation bar with 'Home > My Analysis > Risk sheet'. Below the navigation is a header with 'My Analysis' and 'Risks analysis' buttons. The main area is divided into sections: 'Information risks' and 'Operational risks' (which is currently selected). On the left, there's a sidebar with 'Risk analysis' (with 'Expand all' and 'Wrap all' buttons), a search bar ('Search an asset...'), and two library sections: 'My Analysis' (listing departments like Front Office, Service office, Employees, etc.) and 'Assets library' (listing Fundamentals and EBIOS). The central part contains a risk table with columns: Prob., R, O, L, F, P, and MAX risk. The table has two rows: 'Current risk' (Prob. 2, R 3, O 2, L 2, F 2, P 1, MAX risk 6) and 'Residual risk' (Prob. -1, R -1, O -1, L -1, F -1, P -1, MAX risk -1). Below the table are sections for 'Asset' (Department), 'Risk description' (Prior information to be provided to the person is insufficient), 'Risk probability' (2 - Unlikely: might have happened, rare phenomenon which requires a good level of expert knowledge, or it is expensive to execute.), 'Existing controls', 'Recommendations' (with a 'Search a recommendation' input field and a '+' button), and 'Kind of treatment' (with a dropdown menu showing 'Not treated'). A 'Save' button is located at the bottom right of the table area.

1. **Back to the list:** Return to risk table.
2. **Current risk:** Values for risk probability (**Prob.**) and ROLFP [2: Reputation, Operational, Legal, Financial and Personal] Criteria.
3. **Residual risk :** Values for risk probability and ROLFP [2: Reputation, Operational, Legal, Financial and Personal] 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 :
  - a. Modification / Reduce
  - b. Refused
  - c. Accepted
  - d. Shared



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

The screenshot shows the 'My Analysis' section under 'Risks analysis'. A single operational risk is listed:

	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

Details for the risk:

- Asset:** Department
- Risk description:** Prior information to be provided to the person is insufficient
- Risk probability:** 2 - Unlikely: might have happened, rare phenomenon which requires a good level of expert knowledge, or it is expensive to execute.
- Existing controls:** None
- Recommendations:** Entry → Control all persons in the entrance of the building
- Kind of treatment:** Reduction

Buttons: Save, Back to the list.

#### 4.4.3. Adding additional risk

When an asset is selected in the analysis:

The screenshot shows the 'My Analysis' section under 'Risks analysis'. The 'Department' asset is selected in the left sidebar. Two operational risks are listed:

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	-	-	-	-	-	-	-	-	-	-	-	-	-

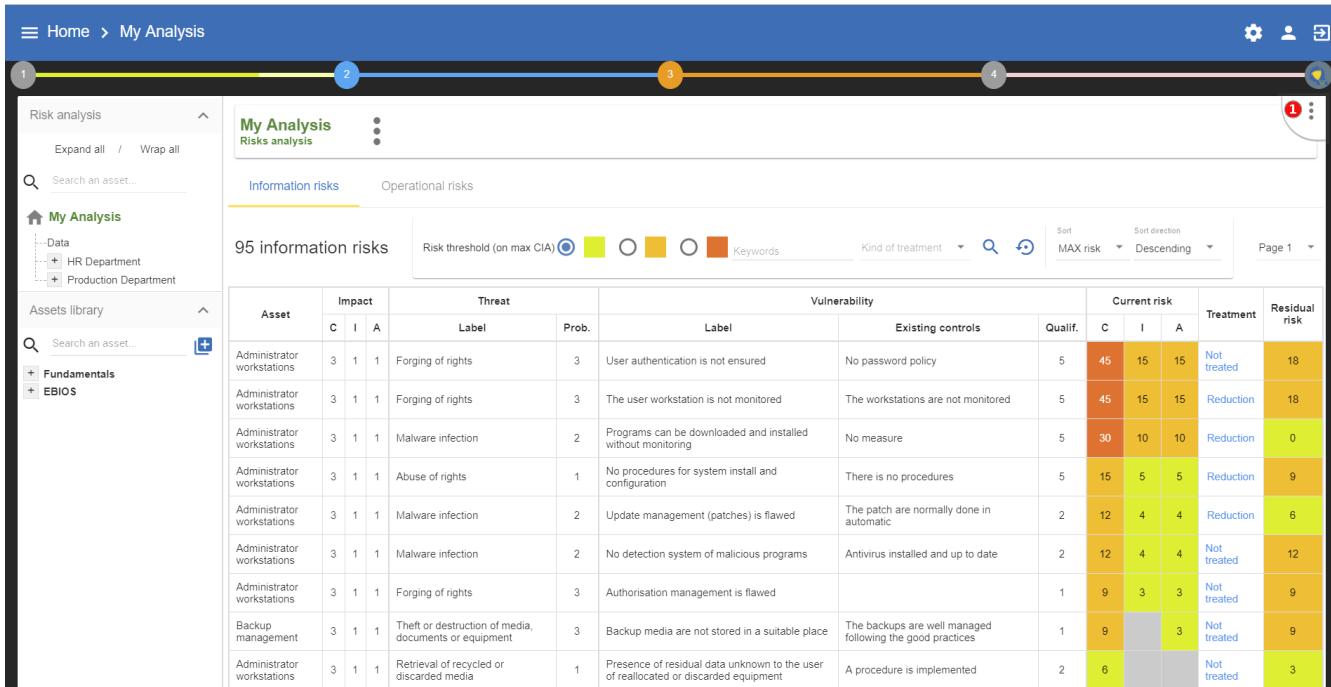
Buttons: Create a specific risk, Page 1 of 1, Rows per page: 20, 1-2 of 2.

- 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.

# 5. Evaluation Scales

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

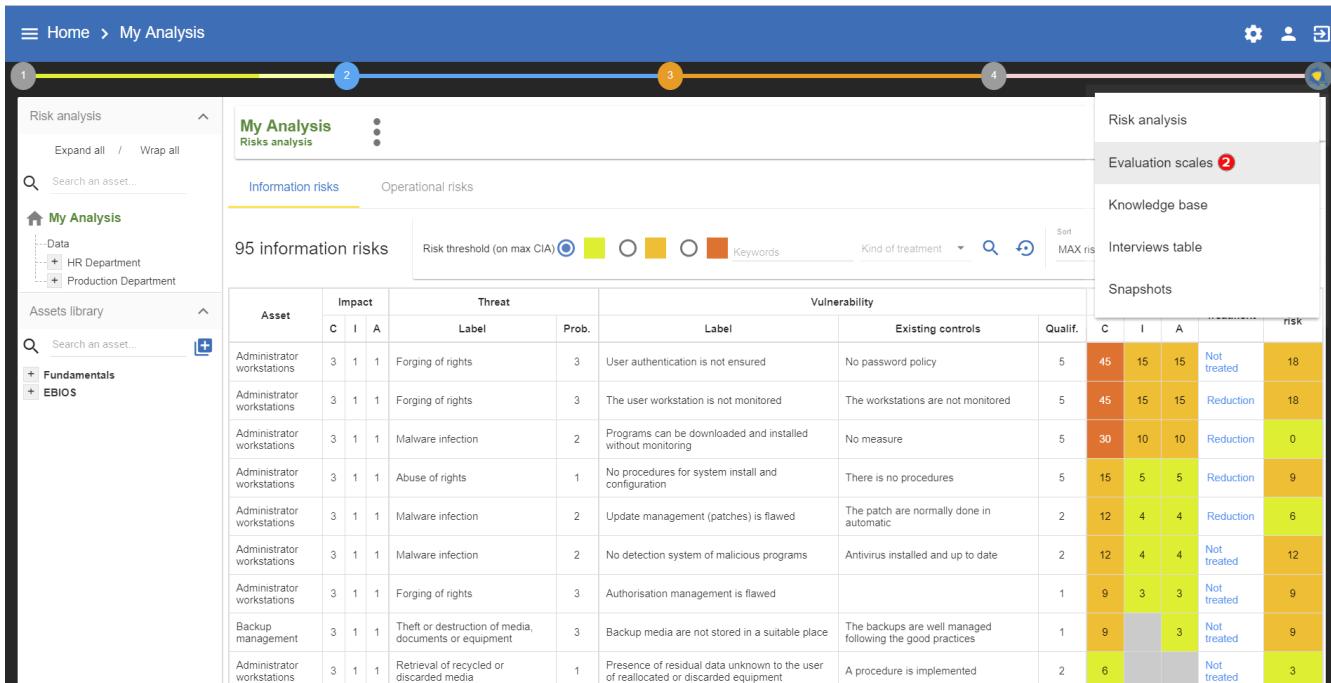
## 1. Calling the right contextual menu



This screenshot shows the MONARC interface with the 'My Analysis' page selected. A contextual menu is open at the top right, with the 'Evaluation scales' option highlighted by a red circle. The main content area displays a table of 95 information risks, categorized by asset, impact, threat, vulnerability, and current risk levels.

Asset	Impact			Threat		Vulnerability			Current risk			Treatment	Residual risk
	C	I	A	Label	Prob.	Label	Existing controls	Qualif.	C	I	A		
Administrator workstations	3	1	1	Forging of rights	3	User authentication is not ensured	No password policy	5	45	15	15	Not treated	18
Administrator workstations	3	1	1	Forging of rights	3	The user workstation is not monitored	The workstations are not monitored	5	45	15	15	Reduction	18
Administrator workstations	3	1	1	Malware infection	2	Programs can be downloaded and installed without monitoring	No measure	5	30	10	10	Reduction	0
Administrator workstations	3	1	1	Abuse of rights	1	No procedures for system install and configuration	There is no procedures	5	15	5	5	Reduction	9
Administrator workstations	3	1	1	Malware infection	2	Update management (patches) is flawed	The patch are normally done in automatic	2	12	4	4	Reduction	6
Administrator workstations	3	1	1	Malware infection	2	No detection system of malicious programs	Antivirus installed and up to date	2	12	4	4	Not treated	12
Administrator workstations	3	1	1	Forging of rights	3	Authorisation management is flawed		1	9	3	3	Not treated	9
Backup management	3	1	1	Theft or destruction of media, documents or equipment	3	Backup media are not stored in a suitable place	The backups are well managed following the good practices	1	9		3	Not treated	9
Administrator workstations	3	1	1	Retrieval of recycled or discarded media	1	Presence of residual data unknown to the user of reallocated or discarded equipment	A procedure is implemented	2	6			Not treated	3

## 2. Calling the Management view of **Evaluation scales**



This screenshot shows the MONARC interface with the 'My Analysis' page selected. The 'Evaluation scales' view is active, as indicated by the highlighted tab in the right sidebar. The main content area displays the same table of 95 information risks as the previous screenshot, but the right sidebar provides more detailed navigation options related to risk analysis and evaluation scales.

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

	Confidentiality	Integrity	Availability	Reputation	Operational	Personal	<b>4</b> 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. Examples: - 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.	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. Examples: - 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 not reached.	Temporary degradation of the company or staff reputation. Occasional media critics	Isolated incidents with a manageable impact on customers.	Significant 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.	Significant 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	Significant 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, 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: - Secret or 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 maximum time periods consider as unbearable.	Death of someone Definitive degradation of the company or staff reputation. International media coverage.	Complete stop of all services	Significative 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



## 1. Click to modify the number of scales

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

## 5.3. Vulnerability scale

Likelihood scale: [ 0 - 4 ]

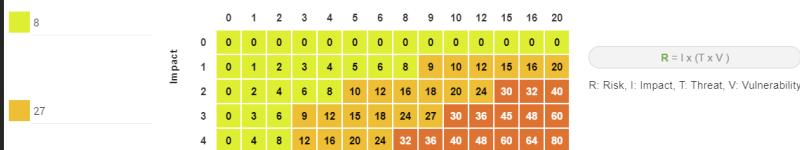
0. Impossible  
1. Very unlikely: never happened, requires a high level of expert knowledge, or it is very expensive to execute.  
2. Unlikely: might have happened, rare phenomenon which requires a good level of expert knowledge, or it is expensive to execute.  
3. Could happen occasionally.  
4. Very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

Vulnerabilities scale: [ 0 - 5 ] ①

0. No 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.

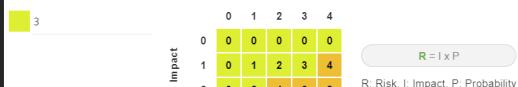
Acceptance thresholds of information risks

TxV



Acceptance thresholds of operational risks

Probability



## 1. Click to modify the number of scales

## 2. 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: Weak vulnerability. Good practices are implemented and frequently verified.
- 3: Average vulnerability. Measures have been already taken, even though they could be better.
- 4: Average maturity. Good practices are implemented without searching a better way.
- 5: Strong vulnerability. Some measures have been already taken, even though they are ineffective or unadapted.
- 6: Low maturity. Good practices aren't implemented, but there are some positive reactions without any thoughts.
- 7: Very strong vulnerability. No measures have been implemented.
- 8: 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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					
	1	0	1	2	3	4	5	6	8	9	10	12	15	16	20					
Impact	2	0	2	4	6	8	10	12	16	18	20	24	30	32	40					
	3	0	3	6	9	12	15	18	24	27	30	36	45	48	60					
Impact	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	0	0	0	0	0	0
	1	0	1	2	3	4
Impact	2	0	2	4	6	8
	3	0	3	6	9	12
Impact	4	0	4	8	12	16

R = I x P

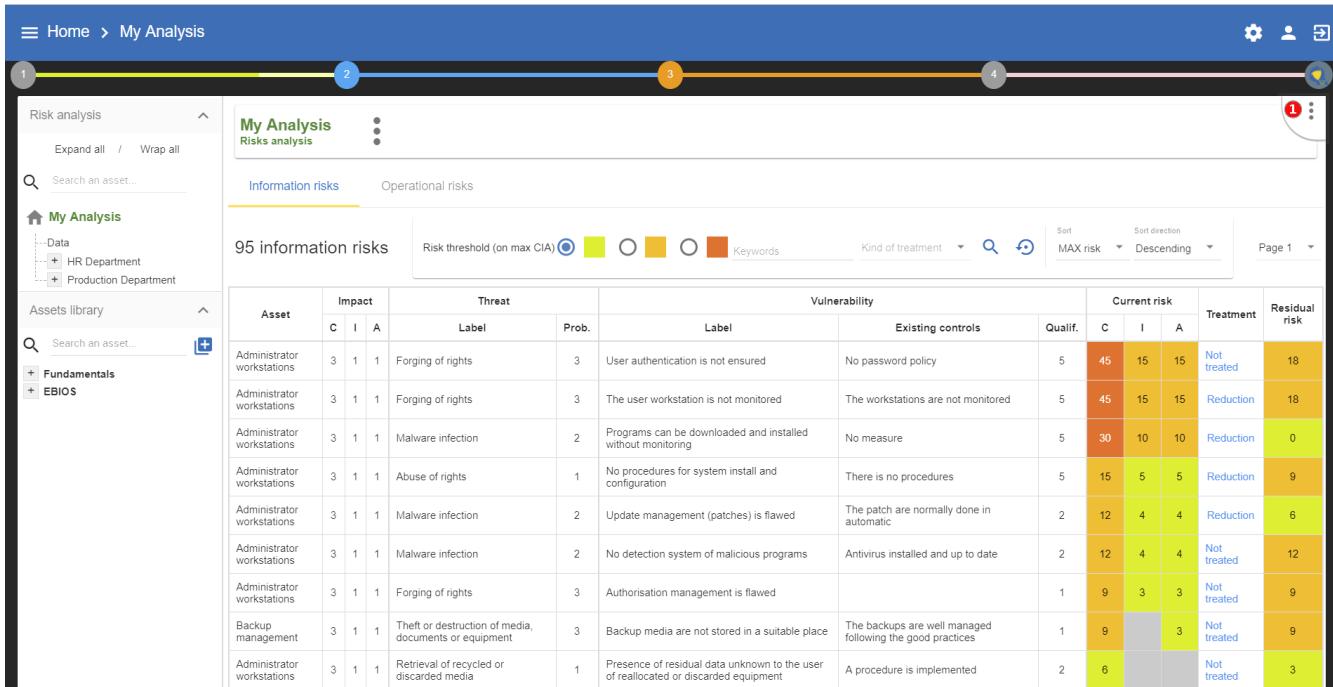
R: Risk, I: Impact, P: Probability

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**

# 6. Management of Knowledge Base

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

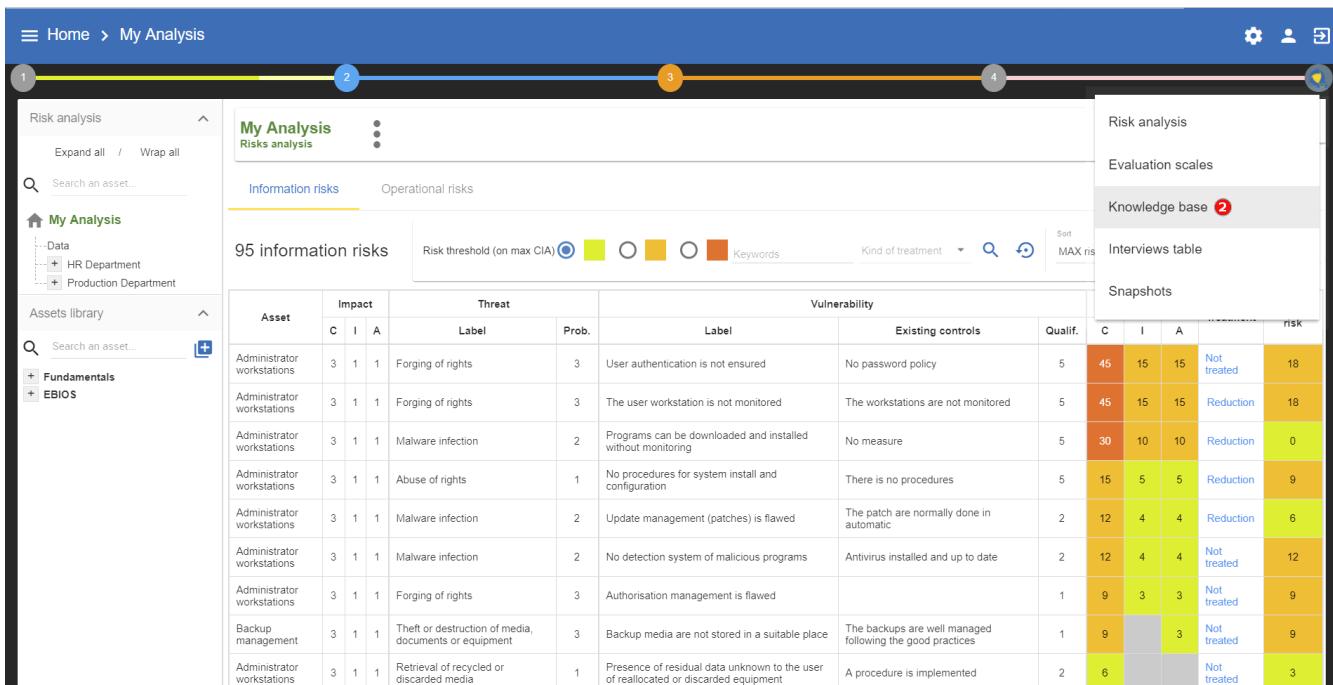
## 1. Calling the right contextual menu



This screenshot shows the MONARC interface with the 'My Analysis' section selected. The top navigation bar has four items highlighted with colored circles: yellow (1), blue (2), orange (3), and grey (4). A red circle with the number 1 is in the top right corner of the main content area. The main content area displays a table of '95 information 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.

Asset	Impact			Threat		Vulnerability			Current risk			Treatment	Residual risk
	C	I	A	Label	Prob.	Label	Existing controls	Qualif.	C	I	A		
Administrator workstations	3	1	1	Forging of rights	3	User authentication is not ensured	No password policy	5	45	15	15	Not treated	18
Administrator workstations	3	1	1	Forging of rights	3	The user workstation is not monitored	The workstations are not monitored	5	45	15	15	Reduction	18
Administrator workstations	3	1	1	Malware infection	2	Programs can be downloaded and installed without monitoring	No measure	5	30	10	10	Reduction	0
Administrator workstations	3	1	1	Abuse of rights	1	No procedures for system install and configuration	There is no procedures	5	15	5	5	Reduction	9
Administrator workstations	3	1	1	Malware infection	2	Update management (patches) is flawed	The patch are normally done in automatic	2	12	4	4	Reduction	6
Administrator workstations	3	1	1	Malware infection	2	No detection system of malicious programs	Antivirus installed and up to date	2	12	4	4	Not treated	12
Administrator workstations	3	1	1	Forging of rights	3	Authorisation management is flawed		1	9	3	3	Not treated	9
Backup management	3	1	1	Theft or destruction of media, documents or equipment	3	Backup media are not stored in a suitable place	The backups are well managed following the good practices	1	9		3	Not treated	9
Administrator workstations	3	1	1	Retrieval of recycled or discarded media	1	Presence of residual data unknown to the user of reallocated or discarded equipment	A procedure is implemented	2	6			Not treated	3

## 2. Calling the Management view of Knowledge base



This screenshot shows the MONARC interface with the 'My Analysis' section selected. The top navigation bar has four items highlighted with colored circles: yellow (1), blue (2), orange (3), and grey (4). A red circle with the number 2 is in the top right corner of the main content area. The main content area displays a table of '95 information 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. The right sidebar shows sections for Risk analysis, Evaluation scales, Knowledge base (with a red notification badge), Interviews table, and Snapshots.

Asset	Impact			Threat		Vulnerability			Current risk			Treatment	Residual risk
	C	I	A	Label	Prob.	Label	Existing controls	Qualif.	C	I	A		
Administrator workstations	3	1	1	Forging of rights	3	User authentication is not ensured	No password policy	5	45	15	15	Not treated	18
Administrator workstations	3	1	1	Forging of rights	3	The user workstation is not monitored	The workstations are not monitored	5	45	15	15	Reduction	18
Administrator workstations	3	1	1	Malware infection	2	Programs can be downloaded and installed without monitoring	No measure	5	30	10	10	Reduction	0
Administrator workstations	3	1	1	Abuse of rights	1	No procedures for system install and configuration	There is no procedures	5	15	5	5	Reduction	9
Administrator workstations	3	1	1	Malware infection	2	Update management (patches) is flawed	The patch are normally done in automatic	2	12	4	4	Reduction	6
Administrator workstations	3	1	1	Malware infection	2	No detection system of malicious programs	Antivirus installed and up to date	2	12	4	4	Not treated	12
Administrator workstations	3	1	1	Forging of rights	3	Authorisation management is flawed		1	9	3	3	Not treated	9
Backup management	3	1	1	Theft or destruction of media, documents or equipment	3	Backup media are not stored in a suitable place	The backups are well managed following the good practices	1	9		3	Not treated	9
Administrator workstations	3	1	1	Retrieval of recycled or discarded media	1	Presence of residual data unknown to the user of reallocated or discarded equipment	A procedure is implemented	2	6			Not treated	3

All parameters are managed with the same view:

4	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.

## 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 categories 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. ISO 27002 controls

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

## 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 1 to 3 security measures from ISO27002 (Guide to good practices in information security). Only supporting assets are available for a Threat / Vulnerability association.

## 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

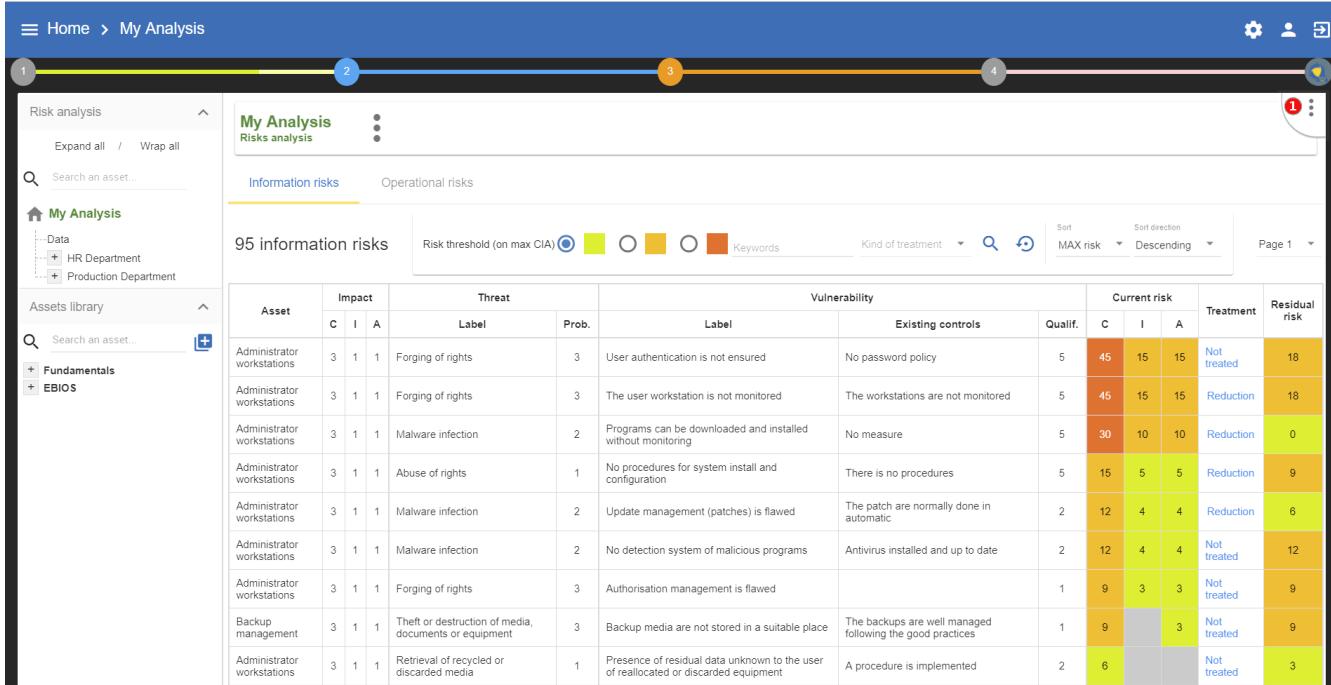
It is a list of risks created by default or added specifically. Each risk can be associated with one or more tags, which allows, when depositing an asset in the analysis to propose default risks, as for the risks of the information.

# 7. 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



Home > My Analysis

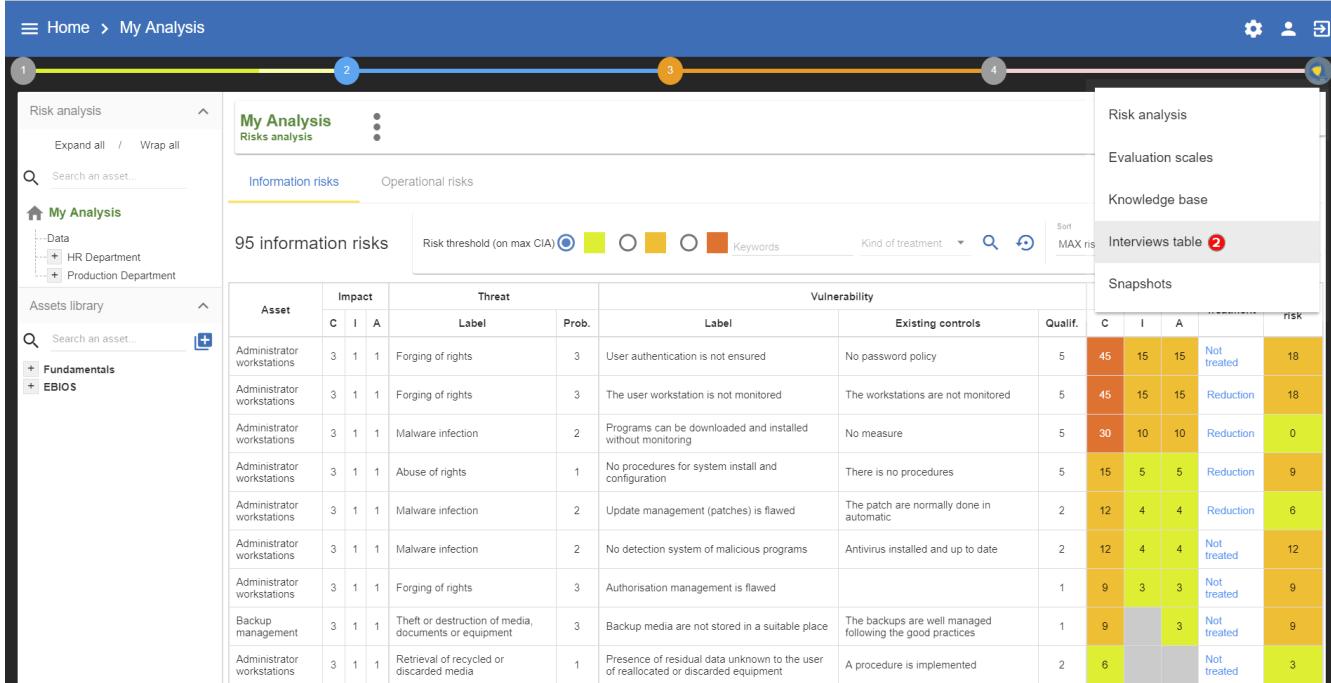
Risk analysis

Information risks Operational risks

95 information risks

Asset	Impact			Threat			Vulnerability			Current risk			Treatment	Residual risk
	C	I	A	Label	Prob.	Label	Existing controls	Qualif.	C	I	A			
Administrator workstations	3	1	1	Forging of rights	3	User authentication is not ensured	No password policy	5	45	15	15	Not treated	18	
Administrator workstations	3	1	1	Forging of rights	3	The user workstation is not monitored	The workstations are not monitored	5	45	15	15	Reduction	18	
Administrator workstations	3	1	1	Malware infection	2	Programs can be downloaded and installed without monitoring	No measure	5	30	10	10	Reduction	0	
Administrator workstations	3	1	1	Abuse of rights	1	No procedures for system install and configuration	There is no procedures	5	15	5	5	Reduction	9	
Administrator workstations	3	1	1	Malware infection	2	Update management (patches) is flawed	The patch are normally done in automatic	2	12	4	4	Reduction	6	
Administrator workstations	3	1	1	Malware infection	2	No detection system of malicious programs	Antivirus installed and up to date	2	12	4	4	Not treated	12	
Administrator workstations	3	1	1	Forging of rights	3	Authorisation management is flawed		1	9	3	3	Not treated	9	
Backup management	3	1	1	Theft or destruction of media, documents or equipment	3	Backup media are not stored in a suitable place	The backups are well managed following the good practices	1	9		3	Not treated	9	
Administrator workstations	3	1	1	Retrieval of recycled or discarded media	1	Presence of residual data unknown to the user of reallocated or discarded equipment	A procedure is implemented	2	6			Not treated	3	

## 2. Calling the Management view of Interviews



Home > My Analysis

Risk analysis

Evaluation scales

Knowledge base

Interviews table 2

Snapshots

95 information risks

Asset	Impact			Threat			Vulnerability			Current risk			Treatment	Residual risk
	C	I	A	Label	Prob.	Label	Existing controls	Qualif.	C	I	A			
Administrator workstations	3	1	1	Forging of rights	3	User authentication is not ensured	No password policy	5	45	15	15	Not treated	18	
Administrator workstations	3	1	1	Forging of rights	3	The user workstation is not monitored	The workstations are not monitored	5	45	15	15	Reduction	18	
Administrator workstations	3	1	1	Malware infection	2	Programs can be downloaded and installed without monitoring	No measure	5	30	10	10	Reduction	0	
Administrator workstations	3	1	1	Abuse of rights	1	No procedures for system install and configuration	There is no procedures	5	15	5	5	Reduction	9	
Administrator workstations	3	1	1	Malware infection	2	Update management (patches) is flawed	The patch are normally done in automatic	2	12	4	4	Reduction	6	
Administrator workstations	3	1	1	Malware infection	2	No detection system of malicious programs	Antivirus installed and up to date	2	12	4	4	Not treated	12	
Administrator workstations	3	1	1	Forging of rights	3	Authorisation management is flawed		1	9	3	3	Not treated	9	
Backup management	3	1	1	Theft or destruction of media, documents or equipment	3	Backup media are not stored in a suitable place	The backups are well managed following the good practices	1	9		3	Not treated	9	
Administrator workstations	3	1	1	Retrieval of recycled or discarded media	1	Presence of residual data unknown to the user of reallocated or discarded equipment	A procedure is implemented	2	6			Not treated	3	

1. Click to encode a new interview

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

# 8. 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

This screenshot shows the MONARC interface with the 'My Analysis' section selected. The top navigation bar has a yellow circle labeled '1'. The left sidebar under 'Risk analysis' has a blue circle labeled '2'. The top right toolbar has a red circle labeled '3'. The bottom right toolbar has a green circle labeled '4'. The main content area displays a table of 95 information risks, categorized by threat and vulnerability, with treatment and residual risk columns.

Asset	Impact			Threat		Vulnerability			Current risk			Treatment	Residual risk
	C	I	A	Label	Prob.	Label	Existing controls	Qualif.	C	I	A		
Administrator workstations	3	1	1	Forging of rights	3	User authentication is not ensured	No password policy	5	45	15	15	Not treated	18
Administrator workstations	3	1	1	Forging of rights	3	The user workstation is not monitored	The workstations are not monitored	5	45	15	15	Reduction	18
Administrator workstations	3	1	1	Malware infection	2	Programs can be downloaded and installed without monitoring	No measure	5	30	10	10	Reduction	0
Administrator workstations	3	1	1	Abuse of rights	1	No procedures for system install and configuration	There is no procedures	5	15	5	5	Reduction	9
Administrator workstations	3	1	1	Malware infection	2	Update management (patches) is flawed	The patch is normally done in automatic	2	12	4	4	Reduction	6
Administrator workstations	3	1	1	Malware infection	2	No detection system of malicious programs	Antivirus installed and up to date	2	12	4	4	Not treated	12
Administrator workstations	3	1	1	Forging of rights	3	Authorisation management is flawed		1	9	3	3	Not treated	9
Backup management	3	1	1	Theft or destruction of media, documents or equipment	3	Backup media are not stored in a suitable place	The backups are well managed following the good practices	1	9		3	Not treated	9
Administrator workstations	3	1	1	Retrieval of recycled or discarded media	1	Presence of residual data unknown to the user of reallocated or discarded equipment	A procedure is implemented	2	6			Not treated	3

## 2. Calling the Management view of Snapshot

This screenshot shows the MONARC interface with the 'My Analysis' section selected. The top navigation bar has a yellow circle labeled '1'. The left sidebar under 'Risk analysis' has a blue circle labeled '2'. The top right toolbar has a red circle labeled '3'. The bottom right toolbar has a green circle labeled '4'. A purple circle labeled '5' is on the right side under 'Situations'. The main content area displays a table of 95 information risks, similar to the first screenshot, with treatment and residual risk columns.

Asset	Impact			Threat		Vulnerability			Current risk			Treatment	Residual risk
	C	I	A	Label	Prob.	Label	Existing controls	Qualif.	C	I	A		
Administrator workstations	3	1	1	Forging of rights	3	User authentication is not ensured	No password policy	5	45	15	15	Not treated	18
Administrator workstations	3	1	1	Forging of rights	3	The user workstation is not monitored	The workstations are not monitored	5	45	15	15	Reduction	18
Administrator workstations	3	1	1	Malware infection	2	Programs can be downloaded and installed without monitoring	No measure	5	30	10	10	Reduction	0
Administrator workstations	3	1	1	Abuse of rights	1	No procedures for system install and configuration	There is no procedures	5	15	5	5	Reduction	9
Administrator workstations	3	1	1	Malware infection	2	Update management (patches) is flawed	The patch is normally done in automatic	2	12	4	4	Reduction	6
Administrator workstations	3	1	1	Malware infection	2	No detection system of malicious programs	Antivirus installed and up to date	2	12	4	4	Not treated	12
Administrator workstations	3	1	1	Forging of rights	3	Authorisation management is flawed		1	9	3	3	Not treated	9
Backup management	3	1	1	Theft or destruction of media, documents or equipment	3	Backup media are not stored in a suitable place	The backups are well managed following the good practices	1	9		3	Not treated	9
Administrator workstations	3	1	1	Retrieval of recycled or discarded media	1	Presence of residual data unknown to the user of reallocated or discarded equipment	A procedure is implemented	2	6			Not treated	3

The following pop-up appears:

Date	Author	Comment	Actions
2017-10-31 10:57:45	Jérôme Lombardi	First snapshot	<span>2</span> <span>3</span> <span>4</span>
			<span>Cancel</span>

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:

Asset	Impact	Threat	Vulnerability	Current risk	Treatment	Residual risk							
	C	I	A	Label	Prob.	Label	Existing controls	Qualif.	C	I	A		
Administrator workstations	3	1	1	Forging of rights	3	User authentication is not ensured	No password policy	5	45	15	15	Not treated	18
Administrator workstations	3	1	1	Forging of rights	3	The user workstation is not monitored	The workstations are not monitored	5	45	15	15	Reduction	18
Administrator workstations	3	1	1	Malware infection	2	Programs can be downloaded and installed without monitoring	No measure	5	30	10	10	Reduction	0
Administrator workstations	3	1	1	Abuse of rights	1	No procedures for system install and configuration	There is no procedures	5	15	5	5	Reduction	9
Administrator workstations	3	1	1	Malware infection	2	Update management (patches) is flawed	The patch are normally done in automatic	2	12	4	4	Reduction	6
Administrator workstations	3	1	1	Malware infection	2	No detection system of malicious programs	Antivirus installed and up to date	2	12	4	4	Not treated	12
Administrator workstations	3	1	1	Forging of rights	3	Authorisation management is flawed		1	9	3	3	Not treated	9

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

# 9. Managing the Implementation Treatment Plan

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

The screenshot shows the MONARC interface with the following details:

- Top Navigation:** Home > My Analysis.
- Left Sidebar:** Risk analysis, My Analysis (HR Department selected), Assets library (Fundamentals, EBIOS selected).
- Central Content:** HR Department (Department as an entity that regroup persons) with Confidentiality: 3. Below it is the 'Implementation and monitoring' section with the sub-option 'Management of the implementation of the risk treatment plan' highlighted.
- Table View:** 84 information risks. The table has columns for Asset, Impact (C, I, A), Threat (Label, Prob.), Vulnerability (Label, Existing controls, Qualif.), Current risk (C, I, A), Treatment, and Residual risk.

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 MONARC interface with the following details:

- Top Navigation:** Home > My Analysis > Implementation of the risk treatment plan.
- Left Sidebar:** Risk analysis, My Analysis (HR Department selected), Assets library (Fundamentals, EBIOS selected).
- Central Content:** Implementation of the risk treatment plan. It includes a button 'Open the implementation history' (marked with a circled 1) and a table with columns: Recommendation, Imp., Comment, Manager, Deadline, Status, Actions.
- Table Data:**

	Recommendation	Imp.	Comment	Manager	Deadline	Status	Actions
1	Authorisation Implement a procedure for the authorisation management	***			jj-mm-yyyy	Coming	<input type="button" value=""/>
2	Monitoring Implement e a monitoring of the workstation	***			jj-mm-yyyy	Coming	<input type="button" value=""/>
3	Program management Implement a white list of the program which have been approved by the IT department	***			jj-mm-yyyy	Coming	<input type="button" value=""/>
4	Administrator right Remove the administrator right from the workstations of the users	**			jj-mm-yyyy	Coming	<input type="button" value=""/>
5	Patch management Check if the patch are really applied	**			jj-mm-yyyy	Coming	<input type="button" value=""/>

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:

The screenshot shows the MONARC interface with the following details:

- Header:** Home > My Analysis > Implementation of the risk treatment plan
- Top Bar:** Progress bar with four segments: 1 (yellow), 2 (blue), 3 (orange), 4 (pink).
- Left Sidebar:**
  - Risk analysis: Expand all / Wrap all
  - Search an asset...
  - My Analysis:**
    - Data: HR Department, Production Department
  - Assets library: Search an asset... (+)
  - Fundamentals: EBIOS
- Main Content:**
  - Implementation of the risk treatment plan:**
  - Open the implementation history** (link with a red dot).
  - Table:** Shows recommendations with columns: Recommendation, Imp., Comment, Manager, Deadline, Status, Actions.

### 1. Click to view past recommendations

The screenshot shows the MONARC interface with the following details:

- Header:** Home > My Analysis > Implementation of the risk treatment plan > Risk sheet
- Top Bar:** Progress bar with four segments: 1 (yellow), 2 (blue), 3 (orange), 4 (pink).
- Left Sidebar:**
  - Risk analysis: Expand all / Wrap all
  - Search an asset...
  - My Analysis:**
    - Data: HR Department, Production Department
  - Assets library: Search an asset... (+)
  - Fundamentals: EBIOS
- Main Content:**
  - Implementation history:**
  - Back to the list** (link with a left arrow).
  - Table:** Shows implementation details for Jérôme Lombardi. Columns: By, Recommendation, Risk, Implementation comment, Risk before, Risk after.
  - Details:** Shows asset type, threat, vulnerability, treatment type, existing controls, and new controls.

## 10. Modifying the deliveries

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)

## 10.1. Manage several templates

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

Asset	Impact			Threat		Prob.	Label	Vulnerability			Current risk			Treatment
	C	I	A	Label	Prob.			Existing controls	Qualif.	C	I	A		
Postes de travail utilisateur	2	2	3	Usurpation de droits	3	La gestion des autorisations comporte des failles	5	30	30	45			Not treated	
Gestion des backups	2	2	3	Dysfonctionnement ou panne du matériel	2	Les backups ne sont pas réalisés selon l'état de l'art	5		20	30			Reduction	
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	5	20		30			Reduction	
Administrateur IT	3	3	4	Erreur d'utilisation	2	Absence de charte informatique précisant les exigences	3	18	18	24			Reduction	

- After clicking on the icon to access the administrator panel, click on **deliverable templates**.



The management of the templates is only accessible for administrators.

After the click the following view is displayed :

Description	French	English	German	Dutch	Actions
Context validation	✓	✓	✓	✓	
My Personal template	✓				

Description	French	English	German	Dutch	Actions
Modelling validation	✓	✓	✓	✓	

Description	French	English	German	Dutch	Actions
Report risk assessment	✓	✓	✓	✓	

Description	French	English	German	Dutch	Actions
Implementation plan	✓	✓	✓	✓	

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

- Download** a template.
- 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 :

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.



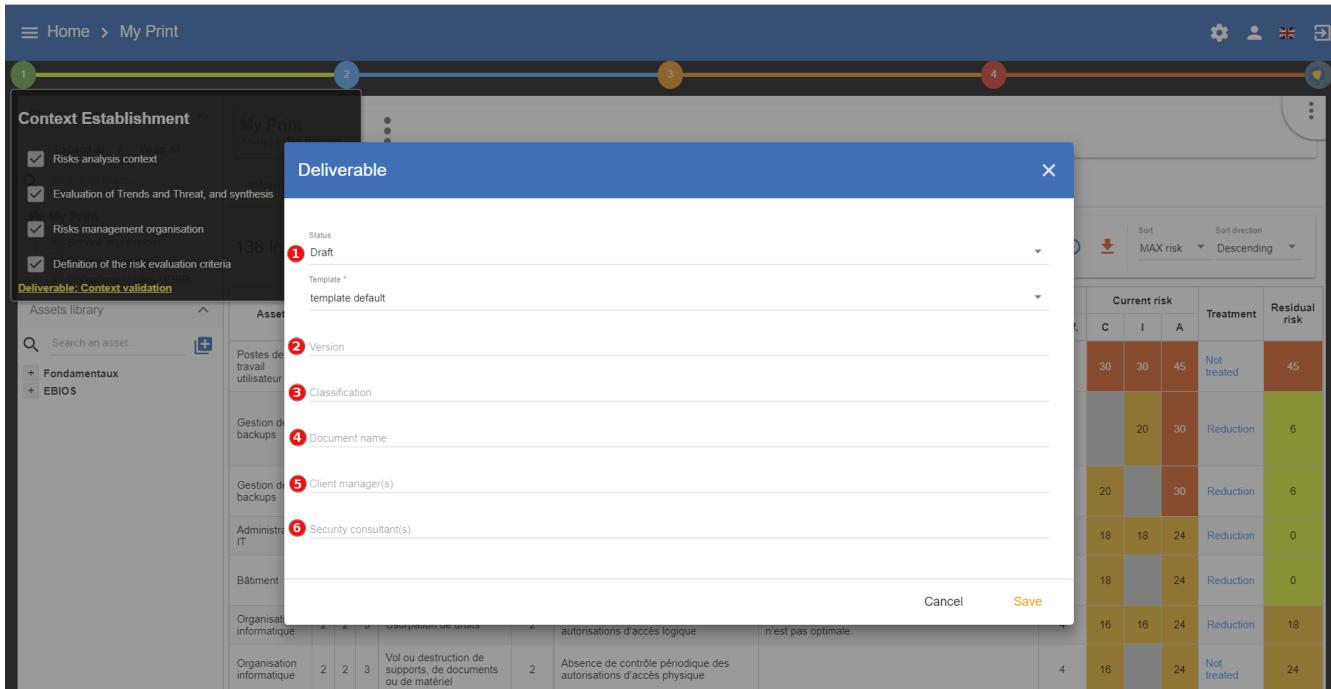
You don't have to fill all the languages, one language is sufficient.

## 10.2. List of tags

This section presents all the different tags that are usable in MOANRC. The tags have to be written in the template (.docx format).

### 10.2.1. List of tags for the layout of the document:

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



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.

### 10.2.2. List of the tags from the context establishment:

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.

### 10.2.3. List of tags for the context modelling:

**Context modeling**

- Identification of assets, vulnerabilities and impacts appreciation
- Synthesis of assets / impacts 1

**Deliverable: Model validation**

138 information risks				Risk threshold (on max CIA) <span style="color:blue;">●</span> <span style="color:green;">●</span> <span style="color:orange;">●</span> <span style="color:red;">●</span> <span style="color:grey;">●</span> Keywords	Kind of treatment	Sort MAX risk	Sort direction Descending						
Asset	Impact		Threat		Vulnerability			Current risk			Treatment	Residual risk	
	C	I	A	Label	Prob.	Label	Existing controls	Qualif.	C	I			A
Postes 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 ne sont pas chiffrés. Les cassettes sont entreposées dans une armoire non verrouillée, parce que plusieurs services y ont accès.	5	20	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	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 appliquée	Pas de contrôle d'accès	3	18	24	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	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.

#### 10.2.4. List of the tags for the Evaluation and treatment of risks:

**Deliverable**

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.

### **10.2.5. 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.

### **10.2.6. 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.